

Proposal Full View

Applicant Information

Organization Name *

Tax ID **941623441**

Proposal Name Yuba County Water Agency Groundwater Model *

Proposal Objective
 The objective of this proposal is to secure grant funding through DWR's Local Groundwater Assistance Program for development of a numerical model of the groundwater basin beneath Yuba County. The groundwater model will be used to inform groundwater management planning and support the goal of the GWMP, which is to maintain a viable groundwater resource for the people of Yuba County. *

Budget

Other Contribution	<input type="text" value="\$0.00"/>	
Local Contribution	<input type="text" value="\$0.00"/>	
Federal Contribution	<input type="text" value="\$0.00"/>	
Inkind Contribution	<input type="text" value="\$0.00"/>	
Amount Requested	<input type="text" value="\$249,797.50"/>	*
Total Project Cost	<input type="text" value="\$249,797.50"/>	*

Geographic Information

Latitude * DD(+/-) MM SS

Longitude * DD(+/-) MM SS

Longitude/Latitude Clarification	NA	Location	Groundwater subbasins beneath Yuba County
County		Yuba *	
Ground Water Basin		Sacramento Valley-North Yuba, Sacramento Valley-South Yuba	
Hydrologic Region		Sacramento River	
Watershed	75 5515 Marysville, 76 5516 Bear River, 77 5517 Yuba River		

Legislative Information

Assembly District	3rd Assembly District *
Senate District	4th Senate District *
US Congressional District	District 2 (CA) *

Project Information

Project Name Yuba County Water Agency

Implementing Organization	Yuba County Water Agency
Secondary Implementing Organization	NA
Proposed Start Date	5/1/2013
Proposed End Date	10/17/2014
Project Scope	Review existing models and studies; select modeling code; develop input data sets; run and calibrate model; document model
Project Description	<p>YCWA proposes development of a numerical groundwater model that can be used to make well-informed decisions about groundwater management in Yuba County. Tasks to be performed for this Project include (1) review and summarize existing groundwater modeling codes and studies, (2) based on the review, select a modeling code that is well suited to meeting the goal of the Project, (3) update the existing hydrogeologic conceptual model for the groundwater basins in Yuba County, (4) develop input datasets for the selected model, (5) run and calibrate the groundwater model, and (6) document the model development process, all input data sets, adequacy of model calibration, and limitations and suggestions for future use. YCWA will implement good project-management practices to complete the Project on time, on budget, and consistent with high standards of quality.</p>
Project Objective	<p>The objective of the proposed project is to develop a numerical groundwater model of the groundwater basin beneath Yuba County. The groundwater model will be used to inform groundwater management planning and support the goal of the GWMP, which is to maintain a viable groundwater resource for the people of Yuba County.</p>

Project Benefits Information

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Water Storage -- Conjunctive-Water Supply Enhancement	60000	A groundwater model will support the continued, successful implementation of the Lower Yuba River Accord and groundwater substitution transfers. Unit of measure is based on the 3-year maximum average groundwater substitution transfer pumping assumed for the Lower Yuba River Accord EIS/EIR (3-year average = 180,000 acre-feet)
Primary	Water Storage -- Groundwater-Water Quality Improvement	0	One criterion that will be evaluated during model application is the prevention of upwelling of poor quality water into the fresh water aquifer (i.e., from below the base of fresh groundwater).
			During development and application

Primary	Water Storage -- Groundwater-Recharge area developed	0	of the groundwater model, information will be compiled and calculated that will result in quantification of groundwater recharge from such sources as infiltration of precipitation, infiltration of applied water, and recharge from surface water bodies.
Primary	Modeling-Groundwater modeling developed or improved	0	Implementation of the proposed project will result in development of a numerical groundwater model for Yuba County. The groundwater model will be used as a planning tool for YCWA's operations. YCWA will ensure the success of the project by utilizing widely accepted and applied codes and methodologies.

Project Objective

Budget

Other Contribution

Local Contribution

Federal Contribution	0
Inkind Contribution	0
Amount Requested	249797.50
Total Project Cost	249797.50

Geographic Information

Latitude DD(+/-)	39	MM 9	SS 16
Longitude DD(+/-)	-121	MM 31	SS 58
Longitude/Latitude Clarification	NA	Location	Groundwater subbasins

County Yuba Ground Water Basin Sacramento Valley-North Yuba,Sacramento Valley-South Yuba
 Hydrologic Region Sacramento River WaterShed 75 5515 Marysville; 76 5516 Bear River; 77 5517 Yuba Ri

Legislative Information

Assembly District	3rd Assembly District
Senate District	4th Senate District
US Congressional District	District 2 (CA)

Section : Applicant Information and Question's Tab

APPLICANT INFORMATION AND QUESTION'S TAB

Q1. Applicant Information

Provide the agency name, address, city, state, and zip code of the applicant submitting the application.

Yuba County Water Agency 1220 F Street Marysville, CA 95901

Q2. Proposal Description:

Provide a brief abstract of the Proposal. This abstract must provide an overview of the proposal including the main issues and priorities addressed in the proposal. Within the abstract, please describe how the proposal relates to the GWMP's BMO's.

Yuba County Water Agency (YCWA) proposes development of a numerical groundwater model to simulate the flow of groundwater in Yuba County. The study area for the Project will include at least the portion of the North Yuba Groundwater subbasin within Yuba County and the entire South Yuba Groundwater Subbasin. Adjacent groundwater basins will be included as necessary to simulate the flow of groundwater into and out of the groundwater basin beneath Yuba County. Development of a model was a management action identified in the 2010 YCWA GWMP, and application of the model to support groundwater management scenarios (e.g., groundwater substitution transfers) will help meet the GWMP goal of maintaining a viable groundwater resource for the benefit of the people of Yuba County. Specific Basin Management Objectives (BMOs) identified in the 2010 GWMP that can be

supported by a groundwater model include: (1) maintain groundwater elevations that provide for sustainable use of the basin, (2) protect against inelastic land subsidence, (3) maintain and improve groundwater quality, (4) protect against adverse impacts to surface water flows and (5) improve the understanding of groundwater in Yuba County. Of the BMOs identified above, numbers 1 and 5 will be most directly supported by the proposed groundwater model. Groundwater management scenarios can be evaluated to ensure water levels and groundwater storage volumes do not decrease below acceptable levels (BMO #1). Outputs from the numerical model (e.g., the water budget) can be used to test hypotheses developed during conceptual model development, and will lead to a greater understanding of the groundwater system in Yuba County (BMO #5). BMO #2, protecting against land subsidence, will likely not be explicitly addressed through simulations because of the limited occurrence of historical subsidence in Yuba County, and the lack of such data to calibrate to.

However, protection against future subsidence can be addressed by using the model to select groundwater management scenarios that do not result in water levels decreasing below historical lows, which is the trigger point for additional subsidence. Similarly, the groundwater model developed for this Project will not include solute transport capabilities (although they could be added in the future for some modeling codes). However, protection of groundwater quality (BMO #3) can be addressed by selecting groundwater management scenarios that do not induce upward migration of water from below the known base of freshwater. BMO #4, protection of adverse impacts to surface water flows, will be addressed by the model in that the major surface water bodies (e.g., the Yuba, Bear, and Feather Rivers) will be included in the model. However, fully characterizing the interaction of groundwater and surface water, which is highly variable in space and time, may require additional field investigations that are not included in the scope of work for this project. The scope of work for the proposed project includes (1) review of existing models and relevant model applications, and selection of a modeling code, (2) updating the conceptual hydrogeologic model with new information collected since the last update in 2008, (3) compiling the necessary input data sets, (4) running and calibrating the selected model, and (5) documenting the conceptual and numerical model, including how the data sets were developed, significant assumptions, degree of calibration, limitations, and suggestions for future use. YCWA will utilize standard project management tools and methods to ensure the project is delivered on time, on budget, and with high standards of quality.

Q3. Project Director:

Provide the name and details (including email) of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.

Name: Curt Aikens; Title: General Manager; Phone: (530) 741-6278; Fax: (530) 741-6541; E-mail: caikens@ycwa.com; Address: 1220 F Street; City: Marysville; Zip: 95901;

Q4. Project Manager:

Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Name: Scott Matyac; Title: Water Resources Manager; Phone: (530) 741-6278; Fax: (530) 741-6541; E-mail: smatyac@ycwa.com; Address: 1220 F Street; City: Marysville; Zip: 95901;

Q5. Additional Information:

region office boundaries:

http://www.water.ca.gov/groundwater/groundwater_basics/gw_contacts_info.cfm

- 1) Northern Region
- 2) North Central Region
- 3) South Central Region
- 4) Southern Region

Q6. Additional Information:

Provide the Date of GWMP Adoption, if any, and list the pursuant Water Code Section or other legal Authority in which it was adopted.

Date of GWMP Adoption: December 28, 2010; Pursuant Water Code: Water Code Division 6, part 2.75 (10750 et seq.); Legal Authority: Yuba County Water Agency Act;

Q7. Additional Information:

Provide a list of documents that support and indicate collaboration with other local public agencies with regard to the management of the affected groundwater basin (e.g., MOUs, MOAs, JPAs, adoption of a GWMP, recognition of county ordinances in permitting processes, or party to a groundwater basin adjudication order).

1. 2010 Yuba County Water Agency Groundwater Management Plan - adopted by the Yuba County Water Agency Board of Directors, 18 agencies represented on Water Advisory Committee (refer to Table 3-2 in Attachment 3d. Yuba County Water Agency 2010 GWMP)
2. Lower Yuba River Accord Conjunctive Use Agreements - signed in 2008, these 7 agreements between YCWA and each member unit (Brophy Water District, Browns Valley Irrigation District, Dry Creek Mutual Water Company, Hallwood Irrigation District, Ramirez Irrigation District, South Yuba Water District, and Wheatland Water District) formalize the planning, monitoring, and third party impact plan for groundwater substitution transfers

Q8. Additional Information

Name the entity(ies) providing the fund(s) reported in the above Budget section under the category "Other Contribution". If there are no "Other Contributions" Please answer this question with, "No Other Contributions".

No Other Contributions

Q9. Eligibility:

List the urban water suppliers that will receive funding from the proposed grant. Please provide the agency name, a contact phone number and email address. Those listed must submit self certification of compliance with CWC §525 et seq. and AB1420, see Attachment 10. If there are none, so indicate.

No urban water suppliers will receive funding from the proposed grant

Q10. Eligibility:

Have all of the urban water suppliers, listed in Q9 above, submitted complete 2010 UWMP to DWR? If not, explain why. Have those plans been verified as complete by DWR? If not, explain current status.

NA

Q11. Completeness Check:

Have all of the fields in the application been completed?

Yes

Q.11. Completeness Check (cont)

If no, please explain. If yes, answer this question with "NA".

NA

Section : Application Attachments Tab

APPLICATION ATTACHMENTS TAB

Attachment 1. Authorizing Documentation

Upload authorizing documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att1_LGA12_YCWA_AuthDoc_1of1.docx

Attachment 2. Eligible Applicant Documentation

Upload eligible documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att2_LGA12_YCWA_EligDoc_1of1.docx

Attachment 3. Status of GWMP

Upload the GWMP documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att3_LGA12_YCWA_GWMP_1of1.pdf

Attachment 4. Project Description

Upload project description here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att4_LGA12_YCWA_ProjD_1of1.docx

Attachment 5. Work Plan

Upload work plan here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att5_LGA12_YCWA_WrkPln_1of1.docx

Attachment 6. Budget

Upload budget here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att6_LGA12_YCWA_BUDGET_1of1.docx

Attachment 7. Schedule

Upload schedule here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att7_LGA12_YCWA_SCHED_1of1.docx

Attachment 8. Quality Assurance

Upload quality assurance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att8_LGA12_YCWA_QA_1of1.docx

Attachemnt 9. Past Performance

Upload past performance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att9_LGA12_YCWA_PERFORM_1of1.docx

Attachment 10. AB1420 and Water Meter Implementation Compliance

Upload 1420 and water meter implementation documentation here, if applicable. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att10_LGA12_YCWA_1420_1of1.docx
