

Proposal Full View

Applicant Information

Organization Name *

Tax ID **94600050**

Proposal Name Identification and Evaluation of Groundwater Recharge in Butte County *

Proposal Objective
 To provide a more comprehensive, defensible characterization of this important asset, Butte County is proposing a Project that will characterize countywide groundwater recharge areas, assess potential recharge projects and investigate groundwater recharge at one location. The first task involves preparing a countywide map identifying areas based on their potential to recharge groundwater. The purpose of the map will be to provide technical assistance to local land managers and planners to fulfill obligations to protect groundwater recharge areas. The countywide groundwater recharge map will be formally amended into the Butte County Groundwater Management Plan. The second task will further identify specific areas in the county where groundwater recharge projects (e.g., flood detention basins, storm water or similar facilities) could provide benefits and may be viable. The scope of this task will consist of identifying areas that will benefit from groundwater recharge, development of criteria to be used to identify areas where groundwater recharge will be effective and feasible. A third task will involve an investigation of groundwater recharge processes in a defined study area. The location will be chosen based on results from task one and two, availability of existing data, and site accessibility. Although data exists to reasonably characterize recharge conditions in some areas of Butte County, uncertainty exists in specific locations due to complex hydrology and geology. Therefore, the site investigation will use a suite of data types and analyses, including a geophysical investigation to better characterize the subsurface and possibly quantify recharge. The investigation will employ techniques that could serve as a template for future investigations. The template could be useful for conducting site specific evaluations when presented with future land use project proposals or potentially for a managed recharge pilot project. *

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="\$249,472.96"/> *
Total Project Cost	<input type="text" value="\$249,472.96"/> *

Geographic Information

Latitude * DD(+/-) MM SS

Longitude * DD(+/-) MM SS

Longitude/Latitude Clarification Junction of Highways 99 and 149 Location Butte County

County Butte *

Ground Water Basin Butte Valley

Hydrologic Region Sacramento River

Watershed Feather River and Butte Creek

Legislative Information

Assembly District 2nd Assembly District, 3rd Assembly District *

Senate District 1st Senate District *

US Congressional District District 1 (CA) *

Project Information

Project Name	<input type="text" value="Identification and Evaluation of Groundwater R"/>	
Implementing Organization	Butte County Department of Water and Resource Conservation District	
Secondary Implementing Organization	none	
Proposed Start Date	4/28/2013	
Proposed End Date	4/28/2015	
Project Scope	The proposed project will provide a more comprehensive, defensible characterization of groundwater recharge and will employ innovative investigative tools to better characterize groundwater recharge mechanisms. The proposed project will produce a countywide groundwater recharge map, identify locations where future groundwater recharge activities could be beneficial, and investigate groundwater recharge processes at a representative site.	
	To provide a more comprehensive, defensible characterization of this important asset, Butte County is proposing a Project that will characterize countywide groundwater recharge areas, assess potential recharge projects and investigate	

Project Description	<p>groundwater recharge at one location. The first task involves preparing a countywide map identifying areas based on their potential to recharge groundwater. The purpose of the map will be to provide technical assistance to local land managers and planners to fulfill obligations to protect groundwater recharge areas. The countywide groundwater recharge map will be formally amended into the Butte County Groundwater Management Plan. The second task will further identify specific areas in the county where groundwater recharge projects (e.g., flood detention basins, storm water or similar facilities) could provide benefits and may be viable. The scope of this task will consist of identifying areas that will benefit from groundwater recharge, development of criteria to be used to identify areas where groundwater recharge will be effective and feasible. A third task will involve an investigation of groundwater recharge processes in a defined study area. The location will be chosen based on results from task one and two, availability of existing data, and site accessibility. Although data exists to reasonably characterize recharge conditions in some areas of Butte County, uncertainty exists in specific locations due to complex hydrology and geology. Therefore, the site investigation will use a suite of data types and analyses, including a geophysical investigation to better characterize the subsurface and possibly quantify recharge. The investigation will employ techniques that could serve as a template for future investigations. The template could be useful for conducting site specific evaluations when presented with future land use project proposals or potentially for a managed recharge pilot project.</p>
Project Objective	<p>The project will develop technical information for water and land use managers on groundwater recharge areas in order to better protect the basin. Identification of areas that could benefit from groundwater recharge will provide a basis for future projects. The project will improve the scientific understanding of recharge conditions in a specific location.</p>

Project Benefits Information

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Groundwater Management-Geophysical tests performed	1	Geophysical investigation
Primary	Other-Hydrogeological	0	Quantify and observe natural recharge processes to assess potential for supplemental recharge activities
Primary	Other-Groundwater plans developed of updated	1	Update Groundwater Recharge Map
Secondary	Groundwater Management-Groundwater quality samples taken	0	Water quality and isotopic analysis to assess recharge processes and groundwater flow paths
Secondary	Groundwater Management-Water level measurements taken	0	Continuous water level measurements in select wells to track aquifer response to rainfall events and seasonal precipitation

Project Objective

Budget

Other Contribution	0
Local Contribution	0
Federal Contribution	0
Inkind Contribution	0
Amount Requested	249472.96
Total Project Cost	249472.96

Geographic Information

Latitude DD(+/-) MM SS

Longitude DD(+/-) MM SS

Longitude/Latitude Clarification Location

County Ground Water Basin Hydrologic Region WaterShed

Legislative Information

Assembly District	2nd Assembly District,3rd Assembly District
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Senate District	1st Senate District
US Congressional District	District 1 (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.

Butte County Department of Water and Resource Conservation 308 Nelson Avenue Oroville, CA 95965

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.

The first task involves preparing a countywide map identifying areas based on their potential to contribute to natural groundwater recharge. The map will be a beneficial resource for local land managers as they fulfill their Butte County General Plan obligations to protect groundwater recharge areas. The task will update and replace the groundwater recharge map currently included in the Groundwater Management Plan. The existing map does not provide the specificity that land and water resource managers need, nor does it incorporate the latest scientific data. The task will build upon the most current datasets to refine and improve the map identifying groundwater recharge areas in Butte County. A methodology to refine the existing groundwater recharge map was developed as part of the Butte County General Plan 2030 update process but was not completed. The effort to update and replace the countywide groundwater recharge map will take into consideration the latest data and information.

The approach taken in this task is consistent with regional efforts which have produced viable approaches to categorize areas based on their potential to contribute to groundwater recharge. A second task will identify and map promising areas in the county where managed groundwater recharge projects (e.g., flood detention basins, storm water or similar facilities) could provide local benefits. The scope of this task will develop criteria to be used to identify areas where managed groundwater recharge could be effective and feasible and areas that could benefit from supplemented groundwater recharge. Planning to augment groundwater recharge will provide additional flexibility for managing water resources within changing climate conditions, inter-annual variability, and increased local demands. Managing surface water and groundwater resources within the county is essential to the long-term economic and environmental health of the county. A third task will involve an investigation of groundwater recharge processes in a defined study area. The location will be chosen based on results from task one and two, availability of existing data, and site accessibility. Although data exists to reasonably characterize recharge conditions in some areas of Butte County, uncertainty exists in specific locations due to complex hydrology and geology. Therefore, the site investigation will use a suite of data types and analyses, including a geophysical investigation to better characterize the subsurface and possibly quantify recharge. The investigation will employ techniques that could serve as a template for future investigations. The template could be useful for conducting site specific evaluations when presented with future land use project proposals or potentially for a managed recharge pilot project.

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.

Paul Gosselin, Director Butte County Department of Water and Resource Conservation pgosselin@buttecounty.net (530) 538-4343

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.

Christina Buck, Water Resource Scientist Butte County Department of Water and Resource Conservation cbuck@buttecounty.net (530) 538-6265

Q5. Additional Information:

Based on the region's location, what is the applicable DWR region office (Northern, North Central, South Central, or Southern)? The following link can be used to view each DWR 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.

Butte County Groundwater Management Plan On September 28, 2004, the Butte County Board of Supervisors adopted the Butte County Groundwater Management Plan pursuant to Water Code Section 10750 et seq. (AB 3030, Stats 1992) for areas of Butte County not covered by another groundwater management plan under this authority or any other authority.

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).

Butte County Groundwater Management Plan Groundwater Conservation Ordinance (Chapter 33 of the Butte County Code) Basin Management Objectives Ordinance (Chapter 33A of the Butte County Code)

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.
None

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.
N/A

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".

N/A

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_BCDWRC_AuthDoc_1of1.pdf

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_BCDWRC_EligDoc_1of1.pdf

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_BCDWRC_GWMP_1of5.pdf,Att3_LGA12_BCDWRC_GWMP_2of5.pdf,Att3_LGA12_BCDWRC_GWMP_3of5.pdf,Att3_LGA12_BCDWRC_GWMP_4of5

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_BCDWRC_ProjD_1of1.pdf

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_BCDWRC_WrkPln_1of1.pdf

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_BCDWRC_BUDGET_1of1.pdf

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_BCDWRC_SCHED_1of1.pdf

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_BCDWRC_QA_1of2.pdf,Att8_LGA12_BCDWRC_QA_2of2.pdf

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_BCDWRC_PERFORM_1of2.pdf,Att9_LGA12_BCDWRC._PERFORM_2of2.pdf

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 Subm

Last Uploaded Attachments: Att10_LGA12_BCDWRC_1420_1of1.pdf
