

Proposal Full View

Applicant Information

Organization Name *

Tax ID **941568981**

Proposal Name Soquel Creek Water District
Monitoring Well Expansion
Program *

Proposal Objective The primary purpose of this project is to install monitoring wells at two locations, and to equip the new wells with water level data loggers and low flow sampling pumps. The goals of this project include: Goal 1: Fill key data gaps at the upgradient portions of the existing monitoring network area. Goal 2: Improve understanding of groundwater conditions in areas of the basin shared by municipal agencies and small water systems Goal 3: Improve understanding of groundwater gradients between the Soquel-Aptos area and the Pajaro Valley. Specific objectives of the project include: 1. Installing monitoring wells at two locations. The Quail Run Tank Site and the Larkin Valley Tank Site will each be completed with two clustered wells. Each of the wells will target a specific aquifer. 2. Developing groundwater level data that will indicate hydraulic gradients across the SqCWD and PVWMA boundary. 3. Developing groundwater level and quality data that will characterize groundwater conditions in areas shared by municipal water agencies and small water systems. 4. Providing groundwater level data to use in estimating basin groundwater storage and recharge. 5. Providing groundwater level data to enhance the groundwater elevation contour maps prepared for the Annual Review and Report (ARR), which is part of implementation of the GWMP. 6. Developing data that can be shared with other Stakeholders. *

Budget

Other Contribution	\$0.00
Local Contribution	\$11,957.00
Federal Contribution	\$0.00
Inkind Contribution	\$26,171.00
Amount Requested	\$250,000.00 *
Total Project Cost	\$288,128.00 *

Geographic Information

Latitude * DD(+/-) MM SS

Longitude * DD(+/-) MM SS

Longitude/Latitude Clarification Location
 County Santa Cruz *
 Ground Water Basin Pajaro Valley,Santa Cruz Purisima Formation,Soquel Valley
 Hydrologic Region Central Coast
 Watershed 22 3304 BIG BASIN,
 23 3305 PAJARO RIVER

Legislative Information

Assembly District 27th Assembly District *
 Senate District 11th Senate District *
 US Congressional District District 17 (CA) *

Project Information

Project Name

Implementing Organization	Soquel Creek Water District
Secondary Implementing Organization	
Proposed Start Date	6/3/2013
Proposed End Date	11/1/2013
Project Scope	Install four monitoring wells at two locations: Quail Run Tank Site (2 wells) and Larkin Valley Tank Site (2 wells).

Groundwater is the sole source of supply for over half the residents of northern Santa Cruz County. The aquifers are managed under a groundwater management plan. A comprehensive groundwater monitoring program is necessary for meeting the management plan's goals of ensuring water supply reliability, maintaining water quality and preventing adverse environmental impacts. This project improves the existing monitoring system by expanding the monitoring network. New monitoring wells will be installed to both enhance basin understanding and promote cooperative groundwater management. The project involves drilling, constructing, developing and equipping four new monitoring wells at two separate

<p>Project Description</p>	<p>locations within the Soquel-Aptos area. The new monitoring wells will expand Soquel Creek Water District's (SqCWD) existing multi-aquifer monitoring network to key areas between water purveyors and where data gaps exist. The monitoring network is used to collect groundwater level and groundwater quality data. The project well sites are on SqCWD-owned parcels that are either future or existing storage tank locations: Quail Run Tank Site and Larkin Valley Tank Site. The Quail Run Tank Site will be completed with two clustered wells, and the Larkin Valley Tank Site will be completed with two clustered wells. All monitoring wells will be equipped with low flow bladder pumps for water quality sampling and water level transducers/loggers for continuously recording groundwater levels. This equipment has been selected because they have proven reliable and collect high quality data that is instrumental in basin management.</p>
<p>Project Objective</p>	<p>1. Install monitoring wells at Quail Run Tank Site (2 wells) and Larkin Valley Tank Site (2 wells). 2. Develop data that will: a. indicate hydraulic gradients across agency boundaries. b. characterize groundwater conditions in areas shared by municipal water agencies and small water systems. c. estimate basin groundwater storage and recharge. d. enhance the groundwater elevation contour maps. e. be shared with other Stakeholders.</p>

Project Benefits Information

Project Benefit Type	Benefit Type	Measurement	Description
	Groundwater		Fill key data gaps at the upgradient portions of the existing monitoring network area. Improve understanding of groundwater conditions in areas of the

Primary	Management-Monitoring wells installed	0	basin shared by municipal agencies and small water systems. Improve understanding of the groundwater gradients between the Soquel-Aptos area and the Pajaro Valley.
Primary	Groundwater Management-Groundwater quality samples taken	0	Wells will be used for quarterly to semi-annual sampling
Primary	Groundwater Management-Water level measurements taken	0	Wells will have data loggers installed to continuously monitor groundwater elevls
Secondary	Groundwater Management-Devices Installed	0	Dedicated bladder pumps and water level transducers/data loggers will be installed in each well

Project Objective

Budget

Other Contribution	<input type="text" value="0"/>
Local Contribution	<input type="text" value="11957"/>
Federal Contribution	<input type="text" value="0"/>
Inkind Contribution	<input type="text" value="26171"/>
Amount Requested	<input type="text" value="250000"/>
Total Project Cost	<input type="text" value="288128"/>

Geographic Information

Latitude DD(+/-) MM SS

Longitude DD(+/-) MM SS

Longitude/Latitude Clarification Location

County Santa Cruz Ground Water Basin Pajaro Valley, Santa Cruz Purisima Formation, Soquel Valley
 Hydrologic Region Central Coast WaterShed

Legislative Information

Assembly District	27th Assembly District
Senate District	11th Senate District
US Congressional District	District 17 (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.

Soquel Creek Water District Office address: 5180 Soquel Dr. Soquel, CA 95073 Mailing address: P.O. Box 1550 Capitola, CA 95010

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.

New monitoring wells will be installed to both enhance basin understanding and promote cooperative groundwater management. The project involves drilling, constructing, developing and equipping four new monitoring wells at two separate locations within the Soquel-Aptos area. The new monitoring wells will expand SqCWD's existing multi-aquifer monitoring network to key areas between water purveyors and where data gaps exist. The monitoring network is used to collect groundwater level and groundwater quality data. The well sites are on SqCWD-owned parcels that are either future or existing storage tank locations: Quail Run Tank Site and Larkin Valley Tank Site. Each site will be completed with two clustered wells. All monitoring wells will be equipped with low flow bladder pumps for water quality sampling and water level transducers/loggers for recording groundwater levels. The Soquel Creek Water District Monitoring Well Expansion Program both directly supports the goals and objectives of the GWMP, as well as implements the elements in the GWMP. The GWMP goals supported by this project include: Goal 1: Ensure water supply reliability for current and future beneficial uses. The data collected from this program will be used to manage groundwater pumping. This will directly influence the estimates of sustainable yield and change groundwater management practices. Goal 2: Maintain water quality to meet current and future beneficial uses. The data collected from this program will be used to monitor and manage inland groundwater quality. Basin Management Objectives in the GWMP that are supported by this study include the following:

BMO 1-1: Pump within the sustainable yield (GWMP, page 66). Adding monitoring wells in data gaps helps with monitoring the effects of pumping within the sustainable yield. BMO 1-3: Manage groundwater storage for future beneficial uses and drought reserve (GWMP, page 70). Additional monitoring wells are needed to determine basin storage conditions, especially inland where the majority of recharge takes place and where data gaps exist. BMO 2-1: Meet existing water quality standards for beneficial uses, such as drinking water standards (GWMP, page 71). These monitoring wells upgradient of SqCWD's production wells will be used to monitor the groundwater quality of recharge water to the wells thereby contributing to a more reliable supply for long-term beneficial uses. Elements of the GWMP that are supported by this study include: Element 1: Groundwater Monitoring, item 1 - Continue and Expand Existing Regional Groundwater Monitoring Programs. Implementing this action item was the purpose for applying for this grant funding. Element 6: Protect Existing Recharge Zones, item 2 - Support future efforts to characterize recharge areas within the Soquel-Aptos area. The locations of the proposed monitoring wells are within or near groundwater recharge zones and upgradient of existing SqCWD production wells. Element 8: Manage Pumping, item 4 - Analyze groundwater level/quality data and groundwater pumping data at least annually, and recommend changes to the groundwater pumping distribution as necessary. The groundwater level and water quality data collected at least quarterly from the monitoring wells will be used in the Annual Review and Report that is produced annually as part of the implementation of the GWMP for the Soquel-Aptos basin. As part of that report, pumping for the forthcoming year is adjusted based on the groundwater levels reported at monitoring wells. Element 9: Identify and Manage Cumulative Impacts, item 2 - Identify and manage well interference and manage groundwater storage for beneficial uses and drought reserve. The location of the proposed wells will facilitate groundwater storage calculations for the basin. Additionally, the location of the wells between small water systems and SqCWD will provide information on possible well interference.

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.

Taj Dufour, P.E. Interim General Manager Soquel Creek Water District P.O. Box 1550 Capitola, CA 95010 Ph: (831) 475-8501 ext. 123 tajd@soquelcreekwater.org

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.

Georgina King Senior Hydrogeologist HydroMetrics Water Resources Inc. 519 17th Street, Ste 500 Oakland, CA 94612 Ph: (510) 903-0458 ext 305 georgina@hydrometricswri.com

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.

In 2007, the SqCWD and Central Water District adopted a Groundwater Management Plan (GWMP). The GWMP was produced under the authority of Assembly Bill 3030, and the subsequent incorporation of the provisions of AB3030 into the California Water Code.

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).

2011, MOA for the Santa Cruz Integrated Regional Water Management Plan between SqCWD, Scotts Valley Water District, City of Santa Cruz, Resource Conservation District of Santa Cruz County, County of Santa Cruz, Santa Cruz County Sanitation District, Davenport County Sanitation District, City of Watsonville, Central Water District, and Regional Water Management Foundation. 2011, MOA between SqCWD and Central Water District for COOPERATIVE MONITORING AND MITIGATION MEASURES IN RESPONSE TO SOQUEL CREEK WATER DISTRICT'S OPERATION OF THE POLO GROUNDS WELL. 2007, partnership between SqCWD and City of Santa Cruz to implement the scwd's Regional Seawater Desalination Program, <http://www.scwd2desal.org/>. 2007, SqCWD and Central Water District adopt GWMP. March 1995, SqCWD entered into a Joint Exercise of Powers Agreement (JPA) with Central Water District to prepare a groundwater management plan for the Soquel-Aptos Area consistent with Assembly Bill 3030.

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.

Soquel Creek Water District Taj Dufour Ph: (831) 475-8501 ext. 123 tajd@soquelcreekwater.org

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.

Yes. The 2010 UWMP can be found on the District's website at:
<http://www.soquelcreekwater.org/water-supply-reports>

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_SqCWD_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_SqCWD_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_SqCWD_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_SqCWD_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_SqCWD_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_SqCWD_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_SqCWD_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_SqCWD_QA_1of2.pdf,Att8_LGA12_SqCWD_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_SqCWD_PERFORM_1of1.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 Submit An Application".

Last Uploaded Attachments:

Att10_LGA12_SqCWD_1420_1of2.pdf,Att10_LGA12_SqCWD_1420_2of2.pdf
