

Proposal Full View

Applicant Information

Organization Name Northeastern San Joaquin County Groundwater Banking Authority *
 Tax ID 999999944
 Proposal Name San Joaquin County Groundwater Banking Model *
 Proposal Objective The project will develop and apply a detailed MODFLOW groundwater model. The model will be used to test groundwater recharge scenarios and their conformance to the adopted Basin Management Objectives for proposed groundwater banking operations. *

Budget

Other Contribution	\$0.00
Local Contribution	\$0.00
Federal Contribution	\$0.00
Inkind Contribution	\$0.00
Amount Requested	\$249,270.00 *
Total Project Cost	\$249,270.00 *

Geographic Information

Latitude * DD(+/-) MM SS
 Longitude * DD(+/-) MM SS
 Longitude/Latitude Clarification Location
 County San Joaquin *
 Ground Water Basin San Joaquin Valley-Cosumnes, San Joaquin Valley-Eastern San Joaquin
 Hydrologic Region San Joaquin
 Watershed North Valley Floor, San Joaquin Valley Floor, and San Joaquin Delta

Legislative Information

Assembly District 9th Assembly District, 12th Assembly District, 13th Assembly District *
 Senate District 5th Senate District *
 US Congressional District District 9 (CA), District 10 (CA) *

Project Information

Project Name San Joaquin County Groundwater Banking Model

<u>Implementing Organization</u>	Northeastern San Joaquin County Groundwater Banking Authority
<u>Secondary Implementing Organization</u>	
<u>Proposed Start Date</u>	4/1/2013
<u>Proposed End Date</u>	4/7/2014
<u>Project Scope</u>	The project will develop & apply a detailed MODFLOW groundwater model used to test groundwater recharge & banking scenarios.
<u>Project Description</u>	The Northeastern San Joaquin County Groundwater Banking Authority (GBA) is the local agency which was responsible for development and adoption of the Groundwater Management Plan (GMP) and Integrated Regional Water Management Plan (IRWMP). The GBA proposes to extend these efforts toward project implementation through a Local Groundwater Assistance Grant to develop a more discrete modeling tool focused on the most promising areas. The proposed more detailed model will be based on the U.S. Geological Survey Central Valley Hydrologic Model (CVHM) and its associated data sets. The model will be used to test groundwater recharge scenarios and their conformance to the adopted Basin Management Objectives for proposed banking operations in two areas: the proposed 265-acre Stockton East Water Bank, and 746-acre North San Joaquin Water Recharge Project.
<u>Project Objective</u>	The objective of the proposed project is to: 1. Develop a regional groundwater banking site selection and monitoring model 2. Determine best recharge sites 3. Test banking scenarios 4. Establish groundwater management operational thresholds 5. Plan variations in amount and locations of pumping to better utilize basin storage capacity 6. Facilitate development of Eastern San Joaquin Water Bank The model will be used to test groundwater recharge scenarios and their conformance to BMOs.

Project Benefits Information

Project Objective

Budget

Other Contribution	0
Local Contribution	0
Federal Contribution	0
Inkind Contribution	0
Amount Requested	249270
Total Project Cost	249270

Geographic Information

Latitude DD(+/-)	37	MM 57	SS 57
Longitude DD(+/-)	-121	MM 12	SS 30
Longitude/Latitude Clarification			Location
County San Joaquin Ground Water Basin San Joaquin Valley-Cosumnes, San Joaquin Valley-Eastern San Joaquin Hydrologic Region San Joaquin WaterShed North Valley Floor, San Joaquin Valley Floor, and San Joaquin Delta			

Legislative Information

Assembly District	12th Assembly District, 9th Assembly District, 13th Assembly District
Senate District	5th Senate District
US Congressional District	District 9 (CA), District 10 (CA)

Project Information

Project Name		San Joaquin County Groundwater Banking Mc
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Secondary Implementing Organization		
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Project Benefits Information

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Water Storage -- Conjunctive-Water Supply Enhancement	80500	Establish feasibility of groundwater recharge and banking
Secondary	Water Storage -- Groundwater-Water Quality Improvement	80500	Establish feasibility of groundwater management to reduce saline intrusion

Project Objective

Budget

Other Contribution	0
Local Contribution	0
Federal Contribution	0
Inkind Contribution	0

Amount Requested
 Total Project Cost

Geographic Information

Latitude DD(+/-) MM SS
 Longitude DD(+/-) MM SS
 Longitude/Latitude Clarification Location
 County San Joaquin Ground Water Basin San Joaquin Valley-Cosumnes,San Joaquin Valley-Eastern San Joaquin Hydrologic Region San Joaquin WaterShed
 North Valley Floor, San Joaquin Valley Floor, and San Joaquin Delta

Legislative Information

Assembly District	9th Assembly District,12th Assembly District,13th Assembly District
Senate District	5th Senate District
US Congressional District	District 9 (CA),District 10 (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.
 Northeastern San Joaquin County Groundwater Banking Authority PO Box 1810 1810 E. Hazelton Ave Stockton, CA 95201

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 Groundwater Banking Authority (GBA) was responsible for development & adoption of the Groundwater Management Plan (GMP) & Integrated Regional Water Management Plan. The GBA proposes to extend these efforts toward project implementation through a LGA Grant to develop a more discrete modeling tool focused on the most promising areas. The model proposed for development under this grant application will be used to: 1. Develop a regional groundwater banking site selection & monitoring model 2. Determine best recharge sites 3. Test banking scenarios 4. Establish groundwater management operational thresholds 5. Plan variations in amount & locations of pumping to better utilize the basin storage capacity 6. Facilitate development of an Eastern San Joaquin Water Bank The more detailed model will be based on the USGS Central Valley Hydrologic Model (CVHM). The model will be used to test groundwater recharge scenarios & their conformance to the adopted Basin Management Objectives for proposed banking operations in two areas: Stockton East Water District (SEWD) Water Bank, and North San Joaquin (NSJ) Water Recharge Project. The proposed SEWD Water Bank will convert approximately 265 acres located adjacent to the SEWD Water Treatment Plant into to groundwater recharge ponds. Recharge water sources include water from the existing Bellota Pipeline from the Calaveras River, and from Peters Pipeline from the Stanislaus River via the Lower Farmington Canal. Construction activities include construction of berms for recharge cells, onsite pipelines, valves, and meters. The annual average recharge amount is approximately 26,500 acre-feet per year. The proposed NSJ Water Recharge Project would percolate water from a variety of sources onto approximately 746 acres of presently farmed land east of Lodi. Potential sources of water include the Mokelumne River using the water rights of the North San Joaquin Water Conservation District or Woodbridge Irrigation District, and American River water conveyed via existing Freeport Project facilities. Another option being explored is a regional groundwater banking project with EBMUD and Amador & Calaveras counties. The annual average recharge amount is approximately 54,000 acre-feet per year. The GBA 2004 GMP included four overarching Basin Management Objectives. The proposed project relates to these BMOs as follows: BMO #1: Groundwater Levels - Maintain or enhance groundwater elevations to meet the long-term needs of groundwater users within the Groundwater Management Area. The project will assess: Increased use of available & new surface water supplies; Implementation of local & regional conjunctive use programs; Development of monitoring locations & protocols to predict & measure groundwater mounding, migration & drawdown; Operations criteria for protection against droughts & Basin mismanagement; Identification of beneficiaries and sources of local & outside revenue sources for projects. BMO #2: Water Quality - Maintain or enhance groundwater quality underlying the Basin to meet long-term needs. The project will assess: Siting recharge sites to avoid or mitigate groundwater contamination; Development of operations criteria for protection against prolonged droughts & saline water migration. BMO #3: Surface Water Quality - Minimize impacts to surface water quality due to continued overdraft & planned conjunctive use. The project will assess: Utilization of surface water in a conjunctive use program sensitive to downstream users & environment; Avoidance or mitigation of projects that detrimentally affect surface water quality & flow; Increased understanding surface water & groundwater interactions through monitoring & science programs. BMO #4: Water Quality - Prevent inelastic land subsidence due to continued overdraft. The project will assess: Operations criteria to maintain water levels above historical low points to avoid inelastic land subsidence.

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.
 Brandon Nakagawa, P.E. Senior Civil Engineer San Joaquin County Public Works Water Resources/Stormwater Management PO Box 1810 Stockton, CA 95201
 209.953.7460 209.468.2999 fax bnakagawa@sjgov.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.
 Brandon Nakagawa, P.E. Senior Civil Engineer San Joaquin County Public Works Water Resources/Stormwater Management PO Box 1810 Stockton, CA 95201
 209.953.7460 209.468.2999 fax bnakagawa@sjgov.org

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.

The GBA GWMP was adopted by the GBA Board of Directors on September 22, 2004 in accordance with CWC 10753. Additionally, the GBA formally adopted the Eastern San Joaquin IRWMP on July 25, 2007.

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. NSJCGBA, June 2004, Eastern San Joaquin Groundwater Basin Groundwater Management Plan; Resolution to adopt the Eastern San Joaquin Groundwater Basin Groundwater Management Plan included as Att3_LGA12_NSJCGBA_GWMP_1of2
2. NSJCGBA, July 2007, Eastern San Joaquin Integrated Regional Water Management Plan; Resolution to the adopt the Plan is included as attachments Att3_LGA12_NSJCGBA_GWMP_2of2 and Att9_LGA12_NSJCGBA_PERFORM_2of5
3. NSJCGBA, February 2011, Eastern San Joaquin Integrated Regional Water Management Plan; DWR acceptance of the Plan is attached as Att9_LGA12_NSJCGBA_PERFORM_3of5
4. San Joaquin County, August 2011, Freeport Element of the American River Use Strategy Phase I: Final Draft Feasibility Study, GEI Consultants; The Executive Summary for this report is included as Supplement 1
5. GBA MOU, June 2001, Amended and Restated Joint Exercise of Powers Agreement, Northeastern San Joaquin County Groundwater Banking Authority. The GBA voted unanimously to extend the term of Joint Exercise of Power Agreement on June 13, 2012 to June 30, 2013. A signed Agreement will be forwarded to DWR when completed; included as Supplement 2 and Supplement 3 (extension)
6. Mokelumne Forum MOU, June 2005, Memorandum of Understanding to Cooperatively Increase Water Supply, Improve Water Supply Reliability, and Improve Water Quality in the Service Areas of the Parties; included as Supplement 4
7. Groundwater Export Ordinance, June 2000, An Ordinance Amending Division 8 to Title 5 of the Ordinance Code of San Joaquin County Regarding the Extraction and Exportation of Groundwater from San Joaquin County; included as Supplement 5

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.

The Northeastern San Joaquin Groundwater Banking Authority is not an urban water supplier. 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.

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_NSJCGBA_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_NSJCGBA_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_NSJCGBA_GWMP_1of2.pdf,Att3_LGA12_NSJCGBA_GWMP_2of2.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_NSJCGBA_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_NSJCGBA_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_NSJCGBA_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_NSJCGBA_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_NSJCGBA_QA_1of1_.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_NSJCGBA_PERFORM_1of5.pdf,Att9_LGA12_NSJCGBA_PERFORM_2of5.pdf,Att9_LGA12_NSJCGBA_PERFORM_3of5.pdf,Att9_LGA12_NSJCGBA_1

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_NSJCGBA_1420_1of1.pdf
