



LOCAL GROUNDWATER ASSISTANCE GRANT AWARDS

SUPPLEMENT FOR 2008



In 2000, the California Legislature passed the Local Groundwater Management Assistance Act (Assembly Bill 303) to provide funding for local public agencies to conduct groundwater studies, monitor groundwater, and carry out management activities. A report on the program was published in 2006 summarizing the first five years of the Program. Copies of the report may be found on the web page at http://www.water.ca.gov/lgagrants/docs/AB303_Finalized_050206.pdf. This fact sheet updates the report.

In December 2007, DWR received 122 applications for more than \$27.6 million in Local Groundwater Assistance (LGA) grants. Applicants were awarded grants competitively based on the scoring criteria in the Proposal Solicitation Package. In June 2008, DWR awarded grants to 31 local public agencies, totaling \$6.4 million in funding from the Proposition 50 Chapter 8 Drought Program.

In November 2008, DWR using Proposition 84 funds awarded over \$4.3 million to 19 additional high scoring proposals from the same pool of 122 applications and provided additional funding to six agencies that were partially funded in June. Overall in 2008, the LGA Program awarded 50 grants totaling over \$10.7 million in LGA funds to 41 percent of the applicants. Eight agencies were awarded capacity building grants of \$50,000 each to assist agencies, who have never received a LGA grant, to initiate groundwater management planning.

Table 1 provides a summary of the LGA Program for the seven fiscal years of funding.

TABLE 1 – PROGRAM SUMMARY OF LGA FUNDED PROJECTS

Fiscal Year	Number of Applications Received	Total Grant Requests	Number of Projects Funded	Projects Completed	Total Grant Amount
2000-2001	64	\$14,423,213	23	23	\$5,000,000
2001-2002	50	\$10,773,976	21	21	\$4,439,500
2002-2003	69	\$15,354,867	26	26	\$5,784,675
2003-2004	72	\$16,965,756	28	28	\$6,200,000
2004-2005	75	\$17,609,428	30	29	\$6,400,000
2007-2008 ¹	122	\$27,648,828	31	0	\$6,400,000
2008-2009 ²	See 2007-2008	See 2007-2008	19	0	\$4,317,511
Totals	452	\$102,776,068	178	127	\$38,541,686

Footnotes:

1. No funds were appropriated in FY 2005-2007;
2. LGA grants were awarded in FY 2008-2009 from applications submitted in 2007.

Table 2 provides project descriptions and award amounts by agency funded in 2008. Figures 1 and 2, which follow Table 2, respectively show the statewide geographic distribution of awarded grants for each fiscal year. More information on the program may be found at the LGA web page at <http://www.water.ca.gov/lgrant/>.

TABLE 2 – SUMMARY OF 2008 LGA GRANT AWARDS

Grant Recipient	Project Description	County	Grant Amount
Alameda County Water District	Install seven monitoring wells at six well sites to monitor salt water intrusion. Two of the six sites will be existing well sites and four will be new locations. Well depth will range from 250-350 feet below ground surface (bgs). Obtain geologic profiles with pilot borings to add to the conceptual geologic model and describe the area stratigraphy in the aquifers.	Alameda	\$250,000
Amador County Water Agency	Improve the understanding of local hydrologic and geologic conditions. Mitigate current overdraft conditions, plan for the sustainability of groundwater as a local water resource, and satisfy public health regulations.	Amador	\$247,547
Calaveras County Water District	Expand existing groundwater monitoring network by installing twelve dedicated groundwater monitoring wells and monitoring/sampling of the network. Data Management System (DMS) associated with the monitoring network will be upgraded.	Calaveras	\$249,777
Carpinteria Valley Water District	Obtain additional hydrogeologic data to characterize the Carpinteria Groundwater Basin and develop a water budget. Develop a computer model (MODFLOW) that simulates and is calibrated to subsurface conditions. Use the model as a groundwater management tool to simulate pumping scenarios.	Santa Barbara	\$248,080
Chino Hills, City of	Evaluate the use of an existing well, rehabilitate and retrofit the well, and conduct a pilot test for Aquifer Storage and Recovery (ASR) system to manage groundwater in an area prone to land subsidence.	San Bernardino	\$250,000
Consolidated Irrigation District	Conduct site characterizations with a cone penetrometer for proposed recharge locations and develop monitoring at existing recharge facilities. Work includes design of a monitoring program, design of recharge ponds, evaluation of operational benefits and impacts, and construction of monitoring wells at proposed and existing recharge facility sites.	Fresno	\$248,468
Delano Earlimart Irrigation District	Install five nested monitoring wells above and below the "blue clay" at appropriately 700 feet and 1200 feet bgs. The groundwater monitoring network will preserve and enhance the existing quality of the area's groundwater.	Tulare	\$250,000
Dunnigan Water District	Construction of two multiple-head monitoring wells. One well, in the City of Dunnigan, is predicted to have potential overdraft problems with urban development as outlined in the District's Groundwater Management Plan (GWMP). The project will aid in groundwater level and Basin Management Objectives (BMOs) monitoring.	Yolo	\$247,596
El Paso de Robles, City of	Prepare a consolidated GWMP that combines previous groundwater management efforts undertaken by the agencies and stakeholders in the basin.	San Luis Obispo; Monterey	\$242,440
Fox Canyon Groundwater Management Agency	Replace the current semi-annual self-reported groundwater extraction monitoring system with automated meter-reading and telemetry equipment to improve the speed, accuracy, and cost-effectiveness of data collection and allow time-specific analysis of groundwater extraction trends. The data will be employed in the next revision of the Regional Model and Management Plan in areas experiencing overdraft and saline intrusion.	Ventura	\$244,880
Fresno County	Improve the measurement of recharge efforts by installing gauges at several District basins to provide water level information and monitor infiltration rates.	Fresno	\$250,000
Fresno Irrigation District	Investigate and improve the measurement of recharge efforts by installing gauges to provide water level information and infiltration rates. The scope of the project includes the identification, design, and installation of measurement devices at several District recharge basins.	Fresno	\$250,000

Grant Recipient	Project Description	County	Grant Amount
Indio Water Authority	Gather information for improving groundwater management and develop a groundwater model for improving groundwater resource management in the Coachella Valley Groundwater Basin.	Riverside	\$50,000
James Irrigation District	Perform a groundwater quality investigation, engage stakeholders in the groundwater basin and update the GWMP to be Senate Bill (SB) 1938 compliant and include regional BMOs.	Fresno	\$248,010
Lassen County	Establish BMOs to create a monitoring based approach to meeting GWMP objectives and provide an overdraft avoidance management strategy.	Lassen	\$250,000
Lindsay, City of	Collect groundwater level, groundwater quality, well production data, and lithologic data, for incorporation into the Kaweah River Basin-wide DMS and amend the Kaweah River Basin GWMP to include the City of Lindsay.	Tulare	\$50,000
Los Angeles DWP	Purchase and install 115 data loggers and associated equipment for key monitoring wells throughout the San Fernando Basin to collect frequent, reliable, and higher quality water level data.	Los Angeles	\$249,992
Mission Springs Water District	Complete a study to develop a GWMP in a joint effort with the Coachella Valley Water District and the Desert Water Agency to manage the Mission Creek and Garnet Hill Subbasins.	Riverside	\$245,739
Modoc County	Compile and evaluate existing data, perform community outreach, and identifying data gaps that would be used to develop a Surprise Valley GWMP.	Modoc	\$50,000
Napa County	Determine areas that lack sufficient groundwater data and update the groundwater database, prepare a groundwater issues assessment, initiate public outreach, and establish groundwater monitoring protocols.	Napa	\$50,000
North Kern Water Storage District	Develop a Groundwater Monitoring Improvement Program to measure groundwater level response (both shallow and deep) to recharge and pumping, and monitor subsidence and water levels. Project includes construction of monitor wells; continuous water level measurement and data logging; creation of a well-completion database; and establishment of subsidence benchmarks.	Kern	\$250,000
Northeastern San Joaquin County Groundwater Banking Authority	Basin groundwater recharge dynamics investigation that includes: developing a new multiple-completion monitoring well; installing pressure transducers linked to a telemetry unit for real-time continuous monitoring; and performing depth-dependant sampling at one of the two retrofitted municipal recovery wells. The data will be used to determine the rate and extent of direct recharge at a 60-acre site and characterize the hydrogeologic properties governing recharge and extraction of banked groundwater.	San Joaquin	\$249,547
Oakdale Irrigation District	Phase II of well field optimization project to develop real-time well field operations by implementing Data Management Systems (DMS); expansion of the well field optimization tool; and continued development of the Decision Support System to include additional analysis and reporting capabilities.	Stanislaus; San Joaquin	\$250,000
Ojai Basin Groundwater Management Agency	Develop a groundwater model to support the analysis of alternative basin management scenarios to evaluate hydrogeologic factors including basin storage, effects of pumping, recharge and discharge components of the system, new well construction and development, and conservation measures. The natural, enhanced, and artificial recharge along and near stream beds will be a prime focus of modeling efforts.	Ventura	\$216,047
Pajaro Valley Water Management Agency	This Harkins Slough Project Re-Operation Feasibility Study will investigate aquifer conditions to improve management and operation of the ASR project. Install three new monitoring wells within an existing ASR project area that has produced only 12% of its expected yield to determine if the poor performance may be due to lack of percolation into the deep aquifer.	Santa Cruz	\$227,154
Raisin City Water District	Determine the most efficient and cost effective method to replenish groundwater through direct recharge projects. The project will consist of: a site investigation; water availability analysis; conveyance alternative analysis; drilling and site characterization; project impacts and benefits analysis; and preferred project alternative conceptual development.	Fresno	\$249,012

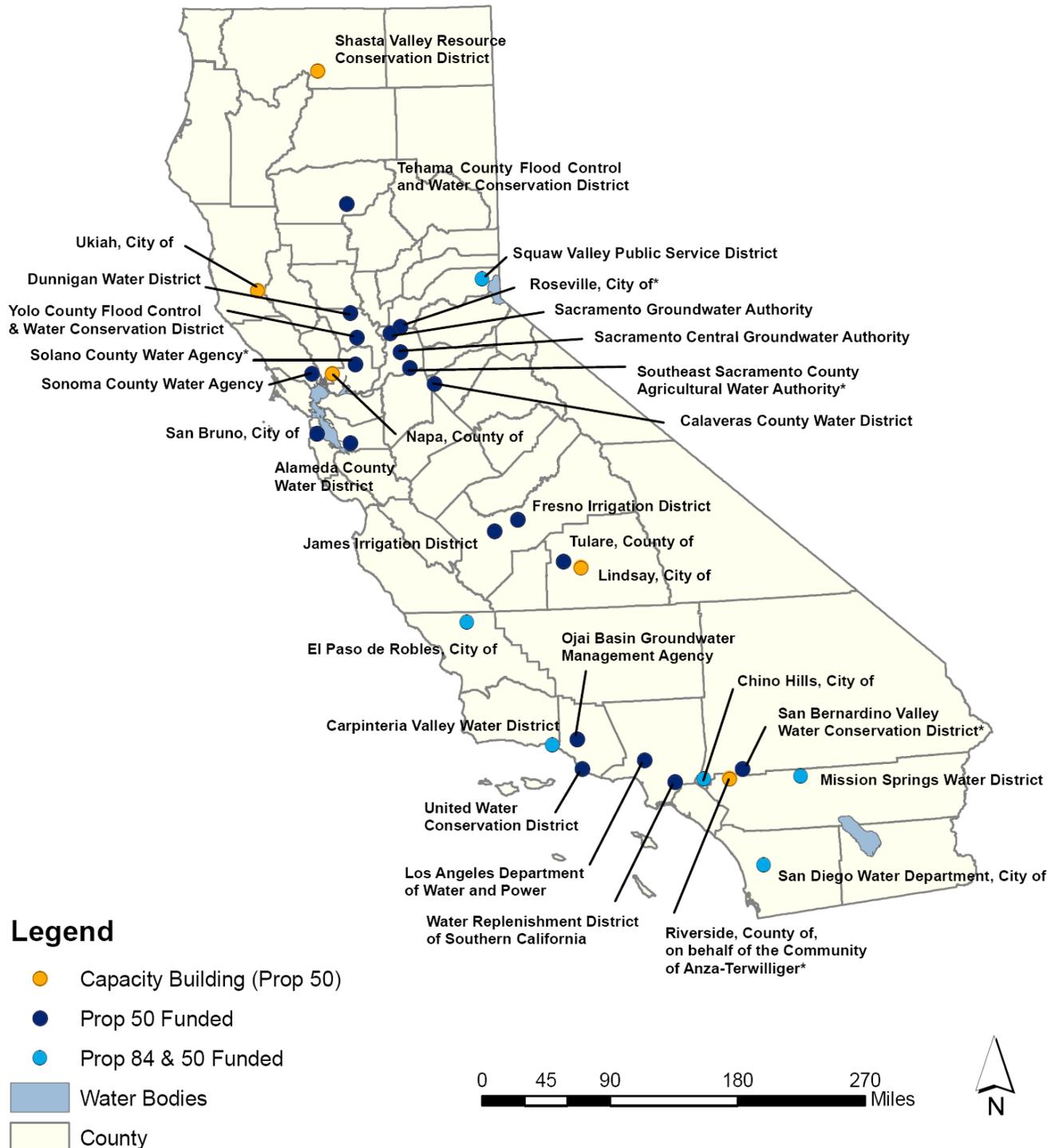
Grant Recipient	Project Description	County	Grant Amount
Reclamation District (RD) 108	Characterize the groundwater system underlying the northern portion of the RD 108 service area. Inventory wells and compile a database of this information; review gas well geophysical logs and prepare a geologic cross-section; construct a multiple-completion monitoring well in the vicinity of an existing production well; and conducting aquifer testing.	Colusa; Yolo	\$245,246
Riverside County on behalf of Anza-Terwilliger Community	Develop a GWMP for the Anza-Terwilliger area. The project would collect, evaluate, and coordinate groundwater monitoring; engage local, regional, federal, and tribal stakeholders to participate in review and planning; develop the governance structure and public acceptance for the plan; and develop basin objectives that would be used in the GWMP.	Riverside	\$50,000
Roseville, City of	Construct three new wells and provide long-term monitoring to supplement the existing well network. Data from these wells are important to characterize and manage the western Placer County groundwater basin in light of rapid land development in this region of the basin.	Placer	\$250,000
Sacramento Central Groundwater Authority	Update the DMS for a detailed hydrogeologic characterization of the Central Sacramento County Groundwater Basin, using lithologic data from existing wells. The project will analyze and interpret groundwater levels, quality, and pumping data, as well as surface water delivery data, in the Basin.	Sacramento	\$249,964
Sacramento Groundwater Authority	Assess water quality risks to the long-term sustainability of the North Sacramento County Groundwater Basin by: analyzing the regional water system using both existing groundwater flow model and GIS software; and classify areas to determine contaminants that may threaten implementation of a sustainable conjunctive use program.	Sacramento	\$249,930
San Bernardino Valley Water Conservation District	Evaluate existing Santa Ana River groundwater recharge facilities and determine if additional facilities are needed to meet the BMOs of the Upper Santa Ana Integrated Regional Water Management Plan (IRWMP). Project includes field testing, groundwater modeling, and facility conceptual design.	San Bernardino	\$250,000
San Bruno, City of	Update the GWMP for the South Westside Basin by using recent studies and data. Work includes public participation, data and information collection and analysis, developing objectives and protocols, modeling, and developing governance and financial plans.	San Mateo	\$209,908
San Diego, City of	Construct a groundwater monitoring well, recondition an existing well, analyze the data collected from both wells for one year, and add monitoring data to regional DMS.	San Diego	\$250,000
Scotts Valley Water District	Drill two groundwater monitoring wells to obtain geologic and hydrogeologic data of the deeper Butano aquifer. Install eight data loggers for use in the new wells and in other district production and monitoring wells to provide long term monitoring of groundwater flow and quality.	Santa Cruz	\$250,000
Shasta Valley Resource Conservation District (RCD)	Initiate community outreach and gather data to develop the Shasta Valley groundwater basin GWMP. The GWMP will help ensure a long-term reliable water supply for rural-domestic, agricultural, and urban uses.	Siskiyou	\$50,000
Sierra RCD	Develop a draft GWMP for the foothill and mountain areas of eastern Fresno County. The GWMP would include BMOs to optimize the volume of usable groundwater; protect the quality of groundwater; characterize hydrogeologic data of the area; implement water conservation measures; implement a groundwater monitoring program; ensure coordination of groundwater management efforts within the area; and develop broad local stake holder participation.	Fresno	\$50,000
Solano County Water Agency	Gather well information to extend existing geologic cross sections and gain better understanding of the aquifer in the Solano groundwater subbasin. Work includes adding automatic monitoring equipment to new and existing wells, and the installation and operation of a single-season test production well to investigate conjunctive groundwater and surface water use.	Solano	\$250,000

Grant Recipient	Project Description	County	Grant Amount
Sonoma County Water Agency	Install six to 10 groundwater monitoring wells and log data to prepare recharge mapping using GIS. The wells will be logged and constructed at two borehole locations where very little hydrogeologic information exists; where saline water intrusion is a concern; and areas of groundwater depression due to pumping.	Sonoma	\$249,908
Southeast Sacramento County Agricultural Water Authority	Develop a GWMP for adoption; create a governance structure capable of implementing the GWMP; conduct a stakeholder outreach program; integrate South Basin data and water management strategies into the American River Basin IRWMP; and build regional cooperative relationships with adjacent water management agencies.	Sacramento	\$250,000
South Lake Tahoe, City of	Develop six Nutrient Management Plans for parcels in Alpine County. The Plans will provide guidelines for applying wastewater onto agricultural lands.	El Dorado	\$248,098
Squaw Valley Public Service District	Collect data to analyze impacts of deep groundwater pumping on shallow aquifer system and flows in Squaw Creek. Install six groundwater monitoring; equip 14 wells with water level transducers; and conduct constant rate aquifer tests on existing municipal and private wells.	Placer	\$220,630
Tehama County FCWCD	Construct and install two monitoring wells in locations of rapid population growth to characterize aquifer connectivity, and conduct public outreach for citizen input to adopt and implement the trigger levels and awareness actions in the GWMP.	Tehama	\$229,761
Tulare County	Develop a groundwater quality monitoring plan. Project tasks will include: collection and integration of groundwater quality data for each aquifer into a DMS; development of groundwater sampling and testing standards; develop a DMS and connection to Statewide data bases; aggregating existing readily available data; data gap identification; and sampling and testing of agricultural and domestic wells.	Tulare	\$249,984
Ukiah, City of	Gather dry-season Russian River base flow conditions and manual measurements of groundwater levels in the City's five monitoring wells. This information will be used to develop a GWMP and a constituent transport groundwater flow model.	Mendocino	\$50,000
United Water Conservation District	Conduct a structural geologic seismic survey near Port Hueneme on the Oxnard plain to prepare for construction of a seawater intrusion injection barrier project. The study will characterize the Lower Aquifer System, identify vulnerability of the aquifers to seawater intrusion, and provide guidance in locating and constructing injection wells.	Ventura	\$250,000
Water Replenishment District of Southern California	Characterize the threat of the multiple contamination plumes that move through undefined pathways to deeper potable aquifers in the Central Basin by compiling existing data on the main producing aquifers; conducting sequence stratigraphic analysis; taking water quality samples; performing geochemical analysis; and characterizing groundwater flow.	Los Angeles	\$250,000
Yolo County Flood Control and Water Conservation District	Manage Aquifer Recharge and Recovery Program through direct agreements with well owners and intentional recharge of water using unlined canals and gravel mining areas. Work includes performing water quality and quantity analysis, expanding the monitoring program, and utilizing the calibrated Yolo County groundwater simulation model.	Yolo	\$250,000
Yuba County Water Agency	Improve the groundwater monitoring program by adding four new monitor wells.	Yuba	\$249,793
Zone 7 Water Agency	Determine the potential of aquifer recharge at quarry sites through borehole logging, monitor well installation, and pump tests.	Alameda	\$250,000
Total Funded in 2008			\$10,717,511

FIGURE 1

FY 2007-2008

Local Groundwater Assistance Program Awards



Note: *Map is developed based on coordinates provided in grant applications. Where project coordinates cannot be used, agency locations are mapped.

FIGURE 2

FY 2008-2009

Local Groundwater Assistance Program Awards



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