

2014 Eastern San Joaquin Integrated Regional Water Management Plan Update

Eastern San Joaquin County Groundwater Basin Authority

June 2014



One Voice. One Mission.



2014 Eastern San Joaquin Integrated Regional Water Management Plan



DRAFT

2014 EASTERN SAN JOAQUIN INTEGRATED REGIONAL WATER MANAGEMENT PLAN

EASTERN SAN JOAQUIN COUNTY GROUNDWATER BASIN AUTHORITY

Ken Vogel, San Joaquin County Supervisor, Fourth District
Chairman

Moses Zapien, City of Stockton
Vice-Chairman

Thomas M. Gau, Director, San Joaquin County Public Works
Secretary

Prepared by

GEI Consultants, Inc.

In association with

**Center for Collaborative Policy
Environmental Science Associates**

June 2014



2014 Eastern San Joaquin Integrated Regional Water Management Plan



Copies of the 2014 Integrated Regional Water Management Plan may be purchased for \$75 from:

Eastern San Joaquin County
Groundwater Basin Authority
P.O. Box 1810
Stockton, CA 95201
(209) 468-3089

© 2014 Eastern San Joaquin County Groundwater Basin Authority, Stockton CA



Foreword

In January 1980, the California Department of Water Resources issued Bulletin 118-80 that characterized the Eastern San Joaquin County Groundwater Basin as “critically overdrafted” which is defined as continuation of present water management practices that would result in significant adverse overdraft-related impacts. Since 1980, the San Joaquin County community has responded by implementing a number of projects to benefit the groundwater basin and reverse overdraft. Approximately \$700 Million has been spent by the various agencies implementing these projects. Farmers and urban residents have also become increasingly efficient at using water and today use approximately 25 percent less water than they did in previous decades. Through these efforts, the Eastern San Joaquin Groundwater Basin is today a basin in recovery.

Looking forward, while we have been vigilant and have had a few successes, the future of water management in California is as uncertain as it has ever been. The declining health of the Sacramento-San Joaquin Bay-Delta, increasing water requirements for fish and wildlife, and the occasional drought only serve to highlight the intense competition for and scarcity of surface water and groundwater resources. As these conflicts escalate, eastern San Joaquin County and others throughout California must continue to implement projects that increase water supply reliability, provide access to supplemental water supply, and improve groundwater levels to serve as a reserve in times of drought.

Groundwater management is a local issue and should continue to be managed by local and regional collaborative efforts. Within Eastern San Joaquin County, our experience has taught us that effective water management responds to the unique needs of individual regions as local and regional stakeholders are best positioned to define and implement projects and programs for the region in which they have a vested interest. The extremely challenging goal to develop a sustainable water supply for the social, environmental, and economic viability of San Joaquin County will be achieved if we as a community continue to collaboratively and incrementally work to achieve this goal. Implementation of the projects in this 2014 Integrated Regional Water Management Plan Update will advance us towards our goal and be our legacy to future generations.

Brandon W. Nakagawa, PE
Water Resources Coordinator
June 2014



Acknowledgements

The 2014 Integrated Regional Water Management Plan Update is a product of the commitment that the GBA and its member agencies, together with many interested stakeholders, have made to sustain and enhance the integrated and regional nature of water resources in San Joaquin County.

Significant local funding for this work was provided by GBA member contributions and the San Joaquin County Flood Control and Water Conservation District Water Investigation Zone No. 2, a special benefit assessment supported by the taxpayers of San Joaquin County. The Plan was also supported by DWR grant funding from Proposition 84 in the amount of \$545,925.

The GBA extends special thanks to staff consultants Mark Williamson of GEI Consultants, Inc., and Carolyn Lott of the Center for Collaborative Policy for the preparation of materials, modeling, and technical review of the IRWMP. In addition, special thanks are extended for grant funding collaboration, information and services provided by the San Joaquin Area Flood Control Agency, San Joaquin Housing Authority, East Bay Municipal Utility District, San Joaquin County Environmental Health Department, San Joaquin County Resource Conservation District, San Joaquin County Agricultural Commission, and the U.S. Geological Survey.

Finally, the GBA would like to thank staff, the Department of Public Works, and the GBA Coordinating Committee in guiding the preparation and technical review of the Plan.



2014 Eastern San Joaquin Integrated Regional Water Management Plan

Eastern San Joaquin County Groundwater Basin Authority

Board of Directors

Ken Vogel, Chairman, San Joaquin County

Moses Zapien, Vice-Chairman, City of Stockton

Stan Ferraro, California Water Service Company – Stockton

Dante Nomellini, Central Delta Water District

Hugh Scanlon, North San Joaquin Water Conservation District

Phil Katzakian, City of Lodi

Reid Roberts, Central San Joaquin Water Conservation District

Mel Panizza, Stockton East Water District

John Herrick, South Delta Water Agency

Dale Kuil, South San Joaquin Irrigation District

Anders Christensen, Woodbridge Irrigation District

Bruce Blodgett, San Joaquin Farm Bureau Federation – Associate Member

Staff

Thomas M. Gau, *GBA Secretary*, and Director, San Joaquin County Public Works

Fritz Buchman, Deputy Director/Development, San Joaquin County Public Works

Brandon W. Nakagawa, PE, Water Resources Coordinator

M. Lynn Hoffman, MSW, Management Analyst III

Gerardo Dominguez, PE, CPESC, QSD/QSP, Engineer III

Romar Valdez, Management Analyst I

Justin Padilla, Engineering Assistant I

Cynthia Madrid, Administrative Assistant I



2014 Eastern San Joaquin Integrated Regional Water Management Plan

