

Attachment 1: Authorization and Eligibility Requirements

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✓ **Authorizing Documentation**

A resolution was adopted by the Upper Mokelumne River Watershed Authority’s (UMRWA’s) Board of Directors on January 25, 2013 designating the Executive Officer, Rob Alcott, to:

- Submit the Proposition 84, Round 2 Integrated Regional Water Management (IRWM) Implementation Grant application, and
- Execute an agreement with the State of California for an Integrated Regional Water Management (IRWM) Implementation Grant.

This resolution is provided as Appendix 1.1.

✓ **Eligible Applicant Documentation**

A letter documenting UMRWA’s eligibility as an applicant for the Proposition 84 IRWM Implementation Grant Program is provided in Appendix 1.2.

✓ **Groundwater Management Plan (GWMP) Compliance**

East Bay Municipal Utility District’s (EBMUD’s) Camanche Area Regional Water Supply Project – Phase 1 will replace Camanche South and North Shore groundwater use with

surface water, benefiting the underlying groundwater basins in the Lake Camanche area. The other two projects included in this IRWM Implementation Grant Proposal are not groundwater projects, and they will not directly affect groundwater levels or quality. EBMUD consents to be subject to Calaveras County Water District's *Groundwater Management Plan (GWMP) 2007 Update* (WRIME, November 2007) and Amador Water Agency's *Groundwater Study and Integrated Regional Groundwater Management Plan for Lake Camanche Water Improvement District No. 7* (Dunn Environmental, June 2012). See Attachment 11 for EBMUD's GWMP self certification document. The CCWD and AWA resolutions adopting the GWMPs are included in this attachment as Appendix 1.3 and Appendix 1.4. The GWMP are provided electronically as Appendix 1.5 and Appendix 1.6 (see Att1_IG2_Eligible_2of4.pdf and Att1_IG2_Eligible3of4.pdf, respectively).

✓ **Progress toward Meeting Current IRWM Plan Standards**

Table 1 from the Prop 84 Round 2 Implementation Grant PSP includes a series of questions designed to demonstrate whether the 2013 MAC Plan Update addresses the 2012 Plan Standards included in the *Prop 84 & 1E Guidelines* (DWR, November 2012). Responses to the questions included in Table 1 are provided in Appendix 1.7. A copy of the adopted 2013 MAC IRWM Plan Update is included in Appendix 1.10 (see Att1_IG2_Eligible_4of4.pdf). The MAC Plan Update was adopted by UMRWA and the project proponents in 2013; the adopting resolutions are included in Appendix 1.8. Appendix 1.9 includes a cross-walk from the MAC Plan Update that identifies the chapter(s) that each Plan Standard is addressed.

✓ **Project Consistency with an adopted IRWM Plan**

The three projects included in this Proposal: the Lake Camanche Lateral Replacement Project – Phase 2 (referred to as the Lake Camanche Water Service Replacement – Phase II in the MAC Plan Update), the Camanche Area Regional Water Supply Project – Phase 1, and the Ponderosa Way Restoration Project – Phase 1, were included in the 2013 MAC Plan Update (Appendix 1.10, electronically only in Att1_IG2_Eligible4of4.pdf) and are referenced in the following Plan sections:

- Chapter 4 – Implementing Projects and Programs
- Appendix C – Project Summary and Evaluation
- Appendix D – Project Type and Financing Summary
- Appendix E – Camanche Area Regional Water Supply Project Report

Appendix 1.1 - Authorizing Documentation

UPPER MOKELUMNE RIVER WATERSHED AUTHORITY

RESOLUTION 2013 - 2

AUTHORIZING SUBMISSION OF A PROPOSITION 84 IMPLEMENTATION GRANT AND
AUTHORIZING THE EXECUTIVE OFFICER TO EXECUTE AND ADMINISTER THE GRANT
AGREEMENT

WHEREAS, the State electorate approved Proposition 84 on November 7, 2006, which contains a total of \$5.39 billion for water and natural resource projects and programs, including \$1 billion for the Integrated Regional Water Management (IRWM) Program with \$57 million of that amount allocated to the San Joaquin River Funding Area; and

WHEREAS, the Upper Mokelumne River Watershed Authority (UMRWA) is a regional water management group as defined by the California Water Code. A Joint Powers Agency formed in 2000 to address water quality, water supply and environmental matters, UMRWA is comprised by Amador Water Agency, Calaveras County Water District, Calaveras Public Utility District, East Bay Municipal Utility District, Jackson Valley Irrigation District, Alpine County Water Agency and the counties of Amador, Calaveras and Alpine; and

WHEREAS, as the regional water management group for the Mokelumne-Amador-Calaveras Region, UMRWA is prepared to serve in an administrative and coordinating capacity to facilitate application and acceptance of a Proposition 84 IRWM Implementation Grant.

NOW, THEREFORE, BE IT RESOLVED, that application be made to the California Department of Water Resources to obtain an Integrated Regional Water Management Implementation Grant pursuant to the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002, and to enter into an agreement to receive the grant.

BE IT FURTHER RESOLVED, the Executive Officer is authorized to prepare the necessary data, conduct investigations, file the application, enter into and sign the grant agreement and any amendments thereto with the State of California for the purposes of this grant; and

BE IT FURTHER RESOLVED, the Executive Officer is authorized to sign any contracts or agreements to carry out the activities of this grant, after review and approval of Authority Counsel.

ADOPTED this 25th day of January, 2013



Board Chairperson

ATTEST:



Authority Secretary

Appendix 1.2 - Eligible Applicant Documentation



Upper Mokelumne River Watershed Authority

5883 East Camanche Parkway • Valley Springs, CA 95252
Telephone: (209) 772-8340 Fax: (209) 772-8264

February 19, 2013

Department of Water Resources
Division of Integrated Regional Water Management

Subject: IRWM Implementation Grant application 'Eligible Applicant' written statement

To whom it may concern,

The purpose of this written statement is to document the Upper Mokelumne River Watershed Authority's (UMRWA or Authority) eligibility for a Proposition 84 Implementation Grant. UMRWA is a joint powers authority formed in August 2000 and comprised of Alpine, Amador and Calaveras Counties and six water agencies which provide service within those counties. As a joint powers authority UMRWA is a 'local agency' as defined in Appendix B - Definitions of the IRWM Guidelines.

The UMRWA joint powers agreement is made pursuant to the provisions of Chapter 5 of Division 7 of Title 1 of the Government Code of the State and all laws amendatory thereof or supplemental thereto relating to the joint exercise of powers common to public agencies. The Authority is authorized in its own name to do all acts necessary or convenient to the exercise of its powers and purposes, including but not limited to the following (an excerpt from Section 6.1 of the UMRWA joint powers agreement):

- To exercise jointly the common powers of its Member Entities in studying, planning and implementing water and watershed projects.
- To make and enter contracts.
- To contract for the services of engineers, attorneys, planners, financial consultants or other agents, and separate and apart there from, to employ such other persons, as it deems necessary.
- To receive gifts, contributions and donations of property, funds, services and other forms of assistance from persons, firms, corporations and any governmental entity.
- To apply for an appropriate grant or grants and/or loan or loans under any federal, state or local programs.

UMRWA will itself administer the requested Implementation Grant and will track associated funds. UMRWA's existing fiscal practices, including annual budgeting, review of quarterly Treasurer's Reports, and annual independent audits, will ensure effective performance of the Implementation Grant and related funds.

Please contact me directly at robalcott@aol.com or 707-785-1008 if you have any questions.

Sincerely,

Rob Alcott

Rob Alcott
Executive Officer

Members

Alpine County • Alpine County Water Agency • Amador County • Amador Water Agency • Calaveras County • Calaveras County Water District •
Calaveras Public Utility District • East Bay Municipal Utility District • Jackson Valley Irrigation District

**Appendix 1.3 – Calaveras County Water District Resolution
Adopting its Groundwater Management Plan 2007 Update**

RESOLUTION NO 2007 – 105

**A RESOLUTION OF THE BOARD OF DIRECTORS OF
CALAVERAS COUNTY WATER DISTRICT
TO ADOPT AN UPDATE OF THE CALAVERAS COUNTY WATER DISTRICT'S
AB 3030 GROUNDWATER MANAGEMENT PLAN CONSISTENT WITH
SB 1938 REQUIREMENTS**

WHEREAS, the Board of Directors of CALAVERAS COUNTY WATER DISTRICT (CCWD) has prepared a Groundwater Management Plan Update (GMP Update) per AB 3030 / SB 1938 requirements for the Camanche / Valley Springs area, pursuant to Sections 10750 et seq. of the California Water Code; and

WHEREAS, the Board of Directors adopted a Resolution of Intent to Prepare a Groundwater Management Plan Update, adopted October 24, 2007, by Resolution 2007– 92; and

WHEREAS, District staff made the GMP Update available to the public via the District's web site and at the District's office, as well as providing public notices in the local newspaper and an evening meeting in Valley Springs held November 7, 2007; and

WHEREAS, the Camanche / Valley Springs groundwater basin is identified as part of the eastern San Joaquin Groundwater Basin according to California Department of Water Resources (CA DWR) Bulletin 118; and

WHEREAS, the eastern San Joaquin Groundwater Basin continues to decline and is recognized in a state of critical overdraft by the CA DWR; and

WHEREAS, CCWD adopted an AB 3030 GMP in 2001 for the Camanche / Valley Springs area, pursuant to Sections 10750 et seq. of the California Water Code; and

WHEREAS, CCWD was awarded an AB 303 grant in 2003 to develop a hydrogeologic assessment and groundwater monitoring program for the Camanche / Valley Springs area; and

WHEREAS, the CCWD staff has maintained a minimum groundwater monitoring program, which is insufficient to adequately analyze conditions in the Camanche / Valley Springs area; and

WHEREAS, the Camanche / Valley Springs area is experiencing increasing agricultural and municipal water demands that require continued monitoring of the groundwater conditions in the basin,

NOW, THEREFORE, BE IT RESOLVED, by the Board of Directors of CALAVERAS COUNTY WATER DISTRICT to adopt and implement the Groundwater Management

Plan Update per AB 3030 / SB 1938 requirements for the Camanche / Valley Springs area, pursuant to Section 10750 et seq. of the California Water Code.

BE IT FURTHER RESOLVED, that the General Manager is hereby authorized to submit the Plan Update and such other documentation as may be necessary to the California Department of Water Resources for their acceptance.

PASSED AND ADOPTED this 26th day of November 2007 by the following vote:

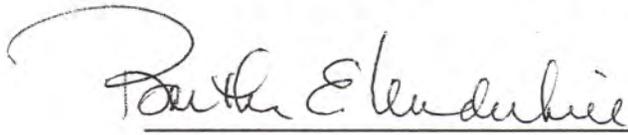
AYES: Directors Davidson, Hebrard, Underhill and Dean

NOES: None

ABSTAIN: None

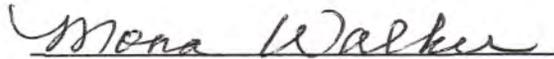
ABSENT: Director Rich

CALAVERAS COUNTY WATER DISTRICT



Bertha E. Underhill
Board President

ATTEST:



Mona Walker
Clerk to the Board



**Appendix 1.4 – Amador Water Agency Resolution Adopting its
Groundwater Study and Integrated Groundwater Management Plan
for Lake Camanche Water Improvement District No. 7**

**RESOLUTION NO. 2012-28
OF THE BOARD OF DIRECTORS OF THE AMADOR WATER AGENCY**

RESOLUTION OF INTENTION TO ADOPT A GROUNDWATER MANAGEMENT PLAN

WHEREAS, the Amador Water Agency (“Agency”) has identified a need to adopt a groundwater management plan for the Camanche Water Improvement District No. 7;

WHEREAS, in July 2012 the Agency held a public hearing of intention to prepare a groundwater management plan, pursuant to Section 6066 of the California Water Code, and the Board adopted Resolution 2012-16 for the “Preparation of a Groundwater Management Plan for Water Improvement District No. 7”.

WHEREAS, in conjunction with Dunn Environmental, Inc, the Agency had prepared the “Groundwater Supply Study and Integrated Regional Groundwater Management Plan for the Lake Camanche Water Improvement District No. 7”.

WHEREAS, adoption of the Groundwater Management Plan is a requirement of Grant Agreement # 4600008731 between Amador Water Agency and the California Department of Water Resources (‘DWR’).

WHEREAS, in September 2012 the Agency held a public hearing of intention to adopt a groundwater management plan for Water Improvement District No. 7, pursuant to Section 6066 of the California Water Code

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Amador Water Agency that the Agency hereby adopts the “Groundwater Supply Study and Integrated Regional Groundwater Management Plan for the Lake Camanche Water Improvement District No. 7”, as presented, pursuant to the California Water Code.

The foregoing resolution was duly passed and adopted by the Board of Directors of the Amador Water Agency at a Board meeting held on this 27th day of September, 2012, by the following vote:

AYES: Directors Molinelli, Manassero, Farrington and Thomas

NOES:

ABSENT: Director Toy

ABSTAIN:

Signed and approved by me after its passage this 27th day of September, 2012.

Gary Thomas
Gary Thomas, President
Board of Directors

ATTEST:

Cris L. Thompson
Cris L. Thompson
Clerk of the Board of Directors

**Appendix 1.5 – Calaveras County Water District’s Groundwater
Management Plan 2007 Update**

See Att1_IG2_Eligible_2of4.pdf

**Appendix 1.6 – Amador Water Agency’s Groundwater Study and
Integrated Groundwater Management Plan for Lake Camanche
Water Improvement District No. 7**

See Att1_IG2_Eligible_3of4.pdf

**Appendix 1.7 –Table 1 from Prop 84 Round 2 Implementation Grant
PSP**

Table 1 – Overview of Select IRWM Plan Standards

The first Mokelumne/Amador/Calaveras (MAC) Integrated Regional Water Management (IRWM) Plan was finalized and adopted in November 2006. The MAC Region received a Proposition 84 (Prop 84) Round 1 planning grant from the California Department of Water Resources (DWR) and began updating its 2006 IRWM Plan in January 2009. The 2013 MAC IRWM Plan Update was adopted by the Upper Mokelumne River Watershed Authority (UMRWA), its regional water management group (RWMG), on January 25, 2013, and was developed to comply with the *2012 Proposition 84 & 1E IRWM Guidelines* (DWR, November 2012).

The MAC Plan Update includes a cross-walk identifying the sections of the Plan in which the 16 IRWM Plan Standards are addressed. This cross-walk is provided on pages x through xii of the Plan Update, included in Attachment 1 of this proposal.

The following sections summarize responses to the Specific Standard Questions included in Table 1: Overview of Selected IRWM Plan Standards on pages 7 – 8 of the Proposal Solicitation Package.

Governance

Will the governance structure need to be altered in the Updated IRWM Plan in order to ensure that balanced access and opportunity for participation in the IRWM effort is provided?

Governance is addressed in the MAC Plan Update in Section 2 Governance. This section describes a slight change in governance structure compared to the first MAC IRWM Plan. As described in the November 2006 MAC IRWM Plan (MAC IRWMP), the MAC IRWM planning region was formed based on a cooperative effort by Amador Water Agency (AWA), Calaveras County Water District (CCWD), Amador County, City of Jackson, City of Sutter Creek, City of Plymouth, Amador Regional Sanitation Authority (ARSA) and East Bay Municipal Utility District (EBMUD). The entities entered into a Memorandum of Understanding (MOU) in October 2006 to coordinate water resources planning and implementation activities, and formed the official MAC region Regional Water Management Group (RWMG). During the period between the completion and adoption of the 2006 MAC IRWMP and submittal of the Region Acceptance Process (RAP) application in April 2009, the governance structure in the MAC region was modified with UMRWA, a Joint Powers Authority comprised of 6 water agencies and the counties of Amador, Calaveras, and Alpine, assuming the role as the RWMG. UMRWA established a stakeholder subcommittee to oversee the Plan update – the Regional Participants Committee (RPC), and charged its existing Board Advisory Committee to support the RPC process. The former directly oversaw the Plan Update, while the latter was in place to reconcile any conflicts that occurred at the RPC. These changes to the governance structure were made to help ensure that balanced access and opportunity for participation in the IRWM effort. Specifically, the creation of the RPC allowed for participation in the MAC IRWM planning process by other public agencies, private corporations, disadvantaged communities, non-governmental organizations (NGOs) and concerned members of the public.

Region Description

Has the regional description changed significantly from the current IRWM Plan?

Section 1 MAC Region of the 2013 MAC Plan Update complies with the Region Description Plan Standard described in the 2012 Guidelines and was updated from the 2006 IRWMP to reflect the change in the MAC regional boundary and to incorporate information regarding the region's vulnerabilities to climate change. The MAC Region, as described in the 2006 IRWMP, included all of Amador County and sizeable portions of Calaveras, Alpine, and San Joaquin Counties causing an overlap with the Eastern San Joaquin IRWM Region. Between the completion of the 2006 IRWMP and submittal of the RAP application, the MAC and Eastern San Joaquin IRWM regions discussed the overlap and agreed that MAC would remove the portion of San Joaquin County from its Region. This western border of the MAC Region was determined to be the best western extent of the MAC region because (1) the water supply issues facing the western portions of Amador and Calaveras counties must be addressed by water agencies with the authority and jurisdiction to do so (AWA and CCWD), and (2) other than the western portion of Calaveras County that overlies the Eastern San Joaquin Groundwater Basin, the groundwater resource issues that predominately characterize the Eastern San Joaquin IRWM region are very different than the predominately surface water issues that must be addressed by the MAC region. The region description included in the MAC Plan Update has been revised to reflect this change.

Objectives

Will your objectives change from those in the current IRWM Plan? If so, how?

Objectives are addressed in the MAC Plan Update in Section 3 Policies, Goals, Objectives, and Strategies. The 2006 IRWMP objectives were revised to comply with the 2012 Guidelines (including considerations for climate change) and reflect current water resources management conditions in the region. The RPC, representing a broad set of stakeholder interests, was the primary venue for developing and vetting the water resource policies, goals and objectives contained in the Plan Update. As part of the MAC Plan update the RPC elected to also consider the Statewide Priorities as described in the 2012 Guidelines and the Resource Management Strategies described in the 2009 California Water Plan Update (DWR, 2009) in the development of policies, goals and objectives. Considering these priorities now will align the region's planning efforts with those of the State and help facilitate coordination with and integration into larger regions and projects. After reevaluation of the MAC region's present day needs and conflicts (as described in Section 1.4), and consideration of the other factors discussed, the goals and objectives developed as part of the 2006 IRWMP were reviewed and consolidated into four new regional water resource policies: maintain and improve water quality, improve water supply reliability and ensure long-term balance of supply and demand, practice resource stewardship, and focus on areas of common ground and avoid prolonged conflict.

Resource Management Strategies

Will the Updated IRWM Plan consider the resource management strategies from the California Water Plan, Update 2009?

Section 3.2 Resource Management Strategies describes the 2009 California Water Plan Update resource management strategies (RMS) that were considered for the MAC Plan Update. The 2013 MAC Plan Update considered all of the RMS covered in the *2009 CWP Update*. Though all the RMS identified by the *California Water Plan Update 2009* were considered, only the RMS applicable and appropriate for meeting the Region's goals and objectives were included in the Plan.

Integration

Will the process used in the Updated IRWM Plan allow, encourage, and actively pursue integration in both the planning process and project formulation and implementation?

As described in Section 2.4 Integration and Section 4.1.4 Project Integration, the MAC Plan Update allowed, encouraged, and actively pursued integration in both the planning process and formulation and implementation of projects. The governance structure fosters integration by allowing a diverse group of stakeholders and interested parties to participate at all levels of the IRWM planning process. Cities, water agencies/districts, irrigation districts, wastewater agencies, non-governmental organizations (NGOs), disadvantaged communities (DACs), private corporations, public utility districts, community organizations, watershed stakeholders, and the general public played a key role in the MAC Plan Update, regardless of their ability to contribute to the process financially. With a diverse group of participants in the planning process, different views were represented. Through a collaborative process, a multi-benefit, implementable Plan Update was prepared. The RPC developed the project review and evaluation process to foster integration and identify project efficiencies and maximize benefits. The high priority projects, as identified through the project review process, integrate RMS and tend to be multi-benefit projects. The Camanche Area Regional Water Supply Project (CARWSP) is one example of integration in the MAC IRWM planning effort in which a regional project was developed by three partner agencies, EBMUD, AWA, and CCWD, to meet the needs of their associated service areas surrounding Lake Camanche.

Project Review Process

Will the project review process consider climate change vulnerabilities and greenhouse gas emissions (for both construction and operation)?

The Project Review Process, described in Section 4.1 Project Review Process, considers climate change vulnerabilities and greenhouse gas emissions through the implementation of a two-tiered screening approach, followed by project evaluation. The result of this process was a list of projects that meet MAC regional goals and statewide water resource management priorities while favoring projects which provide significant regional benefit.

After a project was submitted for inclusion in the MAC Plan Update, it went through a basic screening process. In order to be included in the IRWMP, each project was required to meet at least one regional goal, at least one Statewide Priority, and at least two RMS. Climate change and greenhouse gas (GHG) emissions were specifically addressed in the project review process through the evaluation criterion to "Encourage Climate Change Adaptation or Mitigation Benefits. In order to recognize the potential implications of climate

change in long-term planning, projects were assessed for their contribution to climate change adaptation and / or mitigation of GHG emissions.” Projects received Low, Medium, or High scores based on the likelihood of contributing to climate change adaptation or mitigation. Additionally, because the project review process considered the Statewide Priorities and RMS, climate change was also addressed through those scoring metrics (e.g. the Statewide Priority of Climate Change Response Actions).

Technical Analysis

Have any data gaps been identified and how will the Updated IRWM Plan help fill the gaps?

Sections 4.5 Technical Analysis and 5.2 Data Management describe the data used to prepare the MAC Plan Update, as well as data needs in the MAC Region. Many of the data gaps identified in the 2006 IRWMP were filled by the *Upper Mokelumne River Watershed Assessment and Planning Project*, a \$1.3 million milestone project completed by UMRWA in December 2007, undertaken to advance the understanding of watershed water quality and related environmental issues, and to develop tools which will facilitate the long-term evaluation and management of Upper Mokelumne River watershed water and natural resources. The Upper Mokelumne River Watershed Assessment and Planning Project and RPC discussions conducted as part of the MAC Plan Update further identified data needs as described in the MAC Plan Update. Any identified data gaps will be filled through the identification of new data sources or new or expanded monitoring activities. Data collected in association with the design and implementation of projects included in the MAC Plan Update will help address these data gaps; data collected will depend upon project type, but may include streamflow, surface water deliveries, groundwater elevations and pumping, precipitation, water demand, locations and sizes of water-related facilities, land use, contaminant plume location and extent, water quality data, locations of sensitive habitats and species, and hydrogeologic and hydrologic data. UMRWA will maintain a centralized data management system on the EBMUD server, which will house all original data provided by project sponsors. Data collected will be compatible with statewide databases because the project-specific monitoring plans will be developed based on guidance provided for applicable statewide database.

Relation to Local Water Use Planning

Will changes to the existing IRWM Plan be needed in order to improve coordination with local water use planning efforts?

No changes were required to improve coordination with local water use planning efforts. As described in Section 4.2 Coordination with Water and Land Use Agencies, since the creation of UMRWA in 2000, a great deal of cooperative planning and engagement has occurred in the MAC region. This includes ongoing regional water resource planning venues promoted by the Integrated Regional Water Management Act and the Mokelumne River Forum, all of which present new opportunities for agencies to work together to develop solutions to water resource problems. The boundary of the MAC region was configured in part to reflect this history of interactions with local water use planning efforts, and in part to further opportunities for these historically competitive interests to work cooperatively to find mutually-acceptable water management solutions. The MAC IRWMP and the Plan Update

were developed based on collaborative discussions regarding regional needs, proposed projects, and teaming for regional effectiveness. As various regional stakeholders shared their needs and objectives, similarities and opportunities for collaboration were identified. The RPC began developing a regional plan to bring about integrated projects for the benefit of the region, building on these similarities and opportunities. During plan preparation and development, data and water management strategies were collected from a number of existing local and/or sub-regional planning documents, and were integrated into the regional strategies.

Relation to Local Land Use Planning

Will changes to the existing IRWM Plan be needed in order to improve coordination with land use planning efforts?

Section 4.2 Coordination with Water and Land Use Agencies also describes the level of coordination on shared topics and interests among water and land use planners. Land use agencies including cities and counties have participated to varying degrees in the MAC IRWM planning process since 2006. Efforts to further enhance land use and water management planning and coordination through the MAC update process have been hindered by the lack of available staff resources at both local land use planning agencies and water districts. The primary mechanism for coordination between land use planners and water managers has traditionally been through updates to the county General Plans. Strategies for improving coordination, to be facilitated through UMRWA as the regional water management group, were identified in the MAC Plan Update in the subsection entitled “Plans to Further Collaboration between Land Use Planners and Water Managers” (see page 4-23).

Stakeholder Involvement

Will changes or improvements to the stakeholder involvement process be needed to ensure effective stakeholder participation?

As previously described under Governance, changes were made to the 2006 IRWMP governance structure to improve stakeholder involvement in the 2013 MAC Plan Update. Section 2.3 describes stakeholder involvement in all aspects of the IRWM planning process, including the IRWMP Update. The stakeholder committee established for the 2006 MAC Plan was reformulated into the RPC and community workshops specifically designed for the general public to participate in the planning process were instituted. Methods for information sharing were also expanded and formalized. MAC Plan information is communicated to stakeholders and general public through emails, local media, and a dedicated MAC Plan section of the UMRWA website. A community and stakeholder database was aggregated for the MAC Plan Update, with more names subsequently added by agency staff and participants at the first public workshop, held in October 2008. The community database primarily serves as a list for targeted outreach concerning the regional planning process. As new contacts are made, either through the RPC, community meetings, or other venues, the community database is augmented.

Coordination

Has the RWMG identified a need for changes/improvements to the ongoing coordination efforts?

Improvements to the coordination efforts among the MAC IRWM planning participants were addressed through changes to the governance structure as described previously. Coordination with State/federal agencies is addressed in Section 2.5 Coordination with Other IRWM Regions and/or State/Federal Agencies. This section describes how, if state or federal funding were to be acquired for IRWMP implementation, UMWRA as the official RWMG will coordinate with the appropriate agencies. Ongoing coordination would be required during project implementation and after as the projects are monitored and data is collected. Separately, projects that are implemented will require certain State and federal approvals such as permits and/or environmental documentations. Completion of California Environmental Quality Act (CEQA)/ National Environmental Policy Act (NEPA) documentation would require coordination with various State and federal agencies. The RWMG has also identified a need to remain current on climate change activities occurring at the State and national levels. As such, the RWMG should stay involved in the California Natural Resources Agency's California Adaptation Strategy process to help shape the document through active participation. In addition, agencies that are part of the MAC IRWM effort have been encouraged to consider joining The Climate Registry.

Climate Change

Will the Updated IRWM Plan contain:

- *A climate change vulnerability assessment of the IRWM region that is at least equivalent to the qualitative check list assessment in the Climate Change Handbook for Regional Water Planning (Handbook)?*
- *A list of prioritized vulnerabilities derived from the vulnerability assessment and the IRWM's decision making process?*
- *A plan, program, or methodology for further data gathering/analyzing of the prioritized vulnerabilities?*

The 2013 MAC Plan Update includes a climate change vulnerability assessment equivalent to the qualitative check list assessment in the Climate Change Handbook for Regional Water Planning (Handbook) as well as prioritization of the Region's vulnerabilities in Section 1.3.5. A plan for further data gathering is described in Section 1.3.7. The RPC prioritized climate change vulnerabilities with three vulnerabilities (Water Supply and Quality, Ecosystem and Habitat, and Hydropower) identified as highest priorities for the MAC Region, and the remaining two (Flood Management and Water Demand) identified as high priorities. Identifying and implementing appropriate adaptation strategies to address these vulnerabilities requires having the data necessary to (1) understand the magnitude of climate change impacts and associated vulnerabilities and (2) plan for strategy implementation in a timely manner. To aid in this understanding, the MAC Region developed an approach to collecting and assimilating data related to the prioritized climate change vulnerabilities being collected through state and federal efforts into future Plan updates.

Appendix 1.8 –2013 MAC IRWM Plan Update Adopting Resolutions

UPPER MOKELUMNE RIVER WATERSHED AUTHORITY

RESOLUTION 2013-1

ADOPTING THE UPDATED MOKELUMNE-AMADOR-CALAVERAS
INTEGRATED REGIONAL WATER MANAGEMENT PLAN

January 25, 2013

WHEREAS, the State electorate approved Proposition 84 on November 7, 2006, which contains a total of \$5.39 billion for water and natural resource projects and programs, including \$1 billion for the Integrated Regional Water Management (IRWM) Program with \$57 million of that amount allocated to the San Joaquin River Funding Area; and

WHEREAS, the benefits of integrated regional planning for water resources management activities are intended to include increased efficiency and effectiveness, enhanced collaboration across agencies and stakeholders, and improved responsiveness to regional needs and priorities; and

WHEREAS, the Upper Mokelumne River Watershed Authority (UMRWA) is a regional water management group as defined by the California Water Code. A Joint Powers Agency formed in 2000 to address water quality, water supply and environmental matters, UMRWA is comprised by Amador Water Agency, Calaveras County Water District, Calaveras Public Utility District, East Bay Municipal Utility District, Jackson Valley Irrigation District, Alpine County Water Agency and the counties of Amador, Calaveras and Alpine; and

WHEREAS, the Mokelumne-Amador-Calaveras IRWM Region (MAC Region) is an established region as determined by California Department of Water Resources (DWR) in 2009 under DWR's Regional Acceptance Process; and

WHEREAS, the original 2006 MAC Plan, developed and adopted under then-existing rules and guidelines, must be updated to comply with new rules and guidelines established by DWR in November 2012 to fulfill the terms of UMRWA's 2011 Planning Grant and to be eligible for future grant funding; and

WHEREAS, the updated MAC Plan provides an implementation framework that calls for collecting data, tracking accomplishments, developing lists of prioritized projects and periodically updating the MAC Plan as circumstances warrant, providing funding and resources are available to UMRWA to carry out these activities; and

WHEREAS, the updated MAC Plan, developed over the past eighteen months under the direction of the Regional Participants Committee and vetted in three public community workshops, is herewith presented for adoption by UMRWA Board of Directors; and

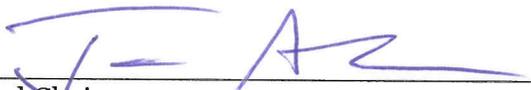
WHEREAS, adoption of the updated MAC Plan does not entail a direct commitment of resources, and implementation of each project listed in the MAC Plan will be the responsibility of individual project proponents, and there is no joint commitment or responsibility by the MAC Plan participants to implement any or all of the projects; and

WHEREAS, the adoption of the updated MAC Plan is exempt from the California Environmental Quality Act pursuant to CEQA Guidelines §15262 and §15306 because the Plan involves planning studies for possible actions that participating agencies have not yet approved and consists of basic data collection that would not result in the disturbance of any environmental resource; and

WHEREAS, the MAC Plan is meant to be complementary to participating agencies' individual plans and programs and does not supersede such plans and programs, and adoption of the MAC Plan does not prohibit nor affect in any way a participating agencies' planning efforts separate from the MAC Plan;

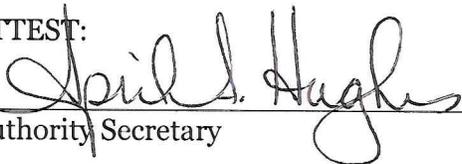
NOW THEREFORE, BE IT RESOLVED that the UMRWA Board of Directors does hereby adopt the Mokelumne-Amador-Calaveras IRWM Plan.

ADOPTED this 25th day of January, 2013



Board Chairperson

ATTEST:



Authority Secretary

RESOLUTION 2013-03

BOARD OF DIRECTORS OF AMADOR WATER AGENCY

**RESOLUTION ADOPTING THE UPDATED MOKELUMNE-AMADOR-
CALAVERAS
INTEGRATED REGIONAL WATER MANAGEMENT PLAN**

WHEREAS, the State electorate approved Proposition 84 on November 7, 2006, which contains a total of \$5.39 billion for water and natural resource projects and programs, including \$1 billion for the Integrated Regional Water Management (IRWM) Program with \$57 million of that amount allocated to the San Joaquin River Funding Area; and

WHEREAS, the benefits of integrated regional planning for water resources management activities are intended to include increased efficiency and effectiveness, enhanced collaboration across agencies and stakeholders, and improved responsiveness to regional needs and priorities; and

WHEREAS, Amador Water Agency is a member of the Upper Mokelumne River Watershed Authority, the designated regional water management group for the Mokelumne-Amador-Calaveras IRWM Region (MAC Region); and

WHEREAS, the MAC Region is an established region as determined by California Department of Water Resources (DWR) in 2009 under DWR's Regional Acceptance Process; and

WHEREAS, the original 2006 MAC Plan, developed and adopted under then-existing rules and guidelines, must be updated to comply with new rules and guidelines established by DWR in 2012 and to be eligible for future grant funding; and

WHEREAS, the updated MAC Plan, developed over the past eighteen months under the direction of the Regional Participants Committee and vetted in three public community workshops, is herewith presented for adoption by Amador Water Agency Board of Directors; and

WHEREAS, adoption of the updated MAC Plan does not entail a direct commitment of resources, and implementation of each project listed in the MAC Plan will be the responsibility of individual project proponents, and there is no joint commitment or responsibility by the MAC Plan participants to implement any or all of the projects; and

WHEREAS, the adoption of the updated MAC Plan is exempt from the California Environmental Quality Act pursuant to CEQA Guidelines §15262 and §15306 because the Plan involves planning studies for possible actions that participating agencies have not yet approved and consists of basic data collection that would not result in the disturbance of any environmental resource; and

WHEREAS, the MAC Plan is meant to be complementary to participating agencies' individual plans and programs and does not supersede such plans and programs, and adoption of the MAC Plan does not prohibit nor affect in any way a participating agencies' planning efforts separate from the MAC Plan;

NOW THEREFORE, BE IT RESOLVED that the Amador Water Agency Board of Supervisors does hereby adopt the updated Mokelumne-Amador-Calaveras IRWM Plan.

The foregoing resolution was duly passed and adopted by the Board of Directors of the Amador Water Agency at a Board meeting held on this 28th day of February, 2013, by the following vote:

Ayes: Directors Thomas, Toy, Manassero, Farrington and Molinelli

Noes: None

Absent: None

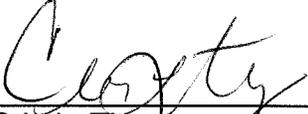
Abstain: None

Signed and approved by me after its passage this 28th day of February, 2013



Paul Molinelli, President
Board of Directors

ATTEST:



Cris L. Thompson
Clerk of the Board of Directors

BOARD OF SUPERVISORS, COUNTY OF CALAVERAS
STATE OF CALIFORNIA
March 12, 2013

RESOLUTION

NO. 2013-043 ADOPT THE UPDATED MOKELUMNE-AMADOR-CALAVERAS
INTEGRATED REGIONAL WATER MANAGEMENT PLAN

WHEREAS, the State electorate approved Proposition 84 on November 7, 2006, which contains a total of \$5.39 billion for water and natural resource projects and programs, including \$1 billion for the Integrated Regional Water Management (IRWM) Program with \$57 million of that amount allocated to the San Joaquin River Funding Area; and

WHEREAS, the benefits of integrated regional planning for water resources management activities are intended to include increased efficiency and effectiveness, enhanced collaboration across agencies and stakeholders, and improved responsiveness to regional needs and priorities; and

WHEREAS, Calaveras County is a member of the Upper Mokelumne River Watershed Authority, the designated regional water management group for the Mokelumne-Amador-Calaveras IRWM Region (MAC Region); and

WHEREAS the MAC Region is an established region as determined by California Department of Water Resources (DWR) in 2009 under DWR's Regional Acceptance Process; and

WHEREAS, the original 2006 MAC Plan, developed and adopted under then-existing rules and guidelines, must be updated to comply with new rules and guide-lines established by DWR in 2012 and to be eligible for future grant funding; and

WHEREAS, the updated MAC Plan, developed over the past eighteen months under the direction of the Regional Participants Committee and vetted in three public community workshops, is herewith presented for adoption by Calaveras County Board of Supervisors; and

WHEREAS, adoption of the updated MAC Plan does not entail a direct commitment of resources, and implementation of each project listed in the MAC Plan will be the responsibility

1 of individual project proponents, and there is no joint commitment or responsibility by the
2 MAC Plan participants to implement any or all of the projects; and

3 **WHEREAS**, the adoption of the updated MAC Plan is exempt from the California
4 Environmental Quality Act pursuant to CEQA Guidelines §15262 and §15306 because the Plan
5 involves planning studies for possible actions that participating agencies have not yet approved
6 and consists of basic data collection that would not result in the disturbance of any
7 environmental resource; and

8 **WHEREAS**, the MAC Plan is meant to be complementary to participating agencies' individual
9 plans and programs and does not supersede such plans and programs, and adoption of the MAC
10 Plan does not prohibit nor affect in any way a participating agencies' planning efforts separate from
11 the MAC Plan;

12 **NOW THEREFORE BE IT RESOLVED**, that the Calaveras County Board of Supervisors
13 does hereby adopt the updated Mokelumne-Amador-Calaveras IRWM Plan.

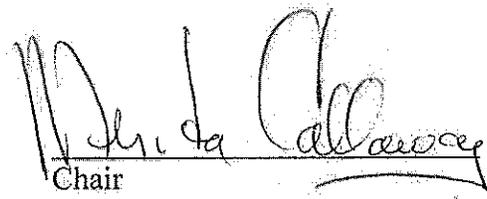
14 **ON A MOTION** by Supervisor Wright seconded by Supervisor
15 Ponte, the foregoing resolution was duly passed and adopted by the Board of
16 Supervisors of the County of Calaveras, State of California this 12th day of
17 March, 2013, by the following vote:

18 **AYES:** Supervisors Wright, Callaway and Ponte

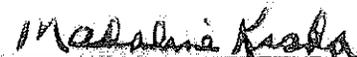
19 **NOES:** Supervisors Edson

20 **ABSENT:** None

21 **ABSTAINED:** Supervisor Spellman

22 
Chair

23 **ATTEST:**

24 
25 _____
26 County Clerk and Ex-Officio Clerk
27 of the Board of Supervisors of the
28 County of Calaveras

RESOLUTION NO. 33917-13

ADOPTING THE UPDATED MOKELUMNE-AMADOR-CALAVERAS
INTEGRATED REGIONAL WATER MANAGEMENT PLAN

Introduced by Director McIntosh ; Seconded by Director Linney

WHEREAS, the State electorate approved Proposition 84 on November 7, 2006, which contains a total of \$5.39 billion for water and natural resource projects and programs, including \$1 billion for the Integrated Regional Water Management (IRWM) Program, with \$57 million of that amount allocated to the San Joaquin River Funding Area; and

WHEREAS, the benefits of integrated regional planning for water resources management activities include increased efficiency and effectiveness, enhanced collaboration across agencies and stakeholders, and improved responsiveness to regional needs and priorities; and

WHEREAS, East Bay Municipal Utility District is a member of the Upper Mokelumne River Watershed Authority (UMRWA), the designated regional water management group for the Mokelumne-Amador-Calaveras (MAC) IRWM Region, which is an established region as determined by California Department of Water Resources (DWR) under DWR's Regional Acceptance Process; and

WHEREAS, EBMUD adopted the original MAC IRWM Plan on December 12, 2006 by Resolution No. 33575-06; and

WHEREAS, the original 2006 MAC IRWM Plan, which was developed and adopted under then-existing rules and guidelines, must be updated to comply with new rules and guidelines established by DWR in 2012 to ensure continued eligibility for grant funding; and

WHEREAS, an updated MAC IRWM Plan has been developed over the past eighteen months under the direction of a Regional Participants Committee that includes EBMUD and thirteen other participants and has been vetted in three public community workshops; and

WHEREAS, adoption of the updated MAC IRWM Plan does not entail a direct commitment of resources, and implementation of each project listed in the MAC IRWM Plan will be the responsibility of individual project proponents, with no joint commitment or responsibility by the MAC IRWM Plan participants to implement any or all of the projects; and

WHEREAS, the adoption of the updated MAC IRWM Plan is exempt from the California Environmental Quality Act pursuant to CEQA Guidelines §15262 and §15306 because the Plan involves planning studies for possible actions that participating agencies have not yet approved and consists of basic data collection that would not result in the disturbance of any environmental resource; and

WHEREAS, the MAC IRWM Plan is meant to be complementary to participating agencies' individual plans and programs and does not supersede such plans and programs, and adoption of the MAC IRWM Plan does not affect participating agencies' planning efforts separate from the MAC IRWM Plan;

NOW THEREFORE, BE IT RESOLVED that the EBMUD Board of Supervisors does hereby adopt the updated MAC IRWM Plan.

ADOPTED this 12th day of March, 2013 by the following vote:

AYES: Directors Coleman, Foulkes, Linney, McIntosh, Mellon, Patterson and President Katz.

NOES: None.

ABSENT: None.

ABSTAIN: None.



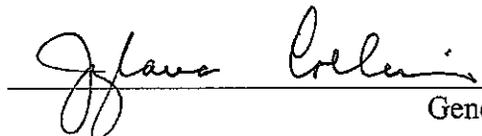
President

ATTEST:



Secretary

APPROVED AS TO FORM AND PROCEDURE:



General Counsel

Appendix 1.9 –2013 MAC IRWM Plan Update Plan Standard Cross-Walk

Location of IRWM Plan Standards in MAC IRWM Plan Update

Plan Standard No.	IRWM Plan Standard	MAC IRWMP Update Section
1	Governance	Section 2 Governance
2	Region Description	Section 1 MAC Region
3	Objectives	Section 3.1 Policies, Goals, Objectives, and Performance Measures
4	Resource Management Strategies	Section 3.2 Resource Management Strategies
5	Integration	Section 2.4 Integration and Section 4.1.4 Project Integration
6	Project Review Process	Section 4.1 Project Review Process
7	Impact and Benefit	Section 4.3 Impact and Benefit Analysis
8	Plan Performance and Monitoring	Section 5.1 Plan Performance and Monitoring
9	Data Management	Section 5.2 Data Management
10	Finance	Section 4.4 Financing Plan
11	Technical Analysis	Section 4.5 Technical Analysis
12	Relation to Local Water Planning	Section 4.2 Coordination with Water and Land Use Agencies
13	Relation to Local Land Use Planning	Section 4.2 Coordination with Water and Land Use Agencies
14	Stakeholder Involvement	Section 2.3 Stakeholder Involvement
15	Coordination	Section 2.5 Coordination with Other IRWM Regions and State/Federal Agencies
16	Climate Change	Refer to the following table

The following table is adapted from Table 7 - Addressing Climate Change Within Existing IRWM Plan Standards from the Prop 84 and 1E IRWM Grant Program Guidelines (DWR, 2012). This table presents the locations where Climate Change standards are addressed in the MAC IRWM Plan Update.

Location of Climate Change Standards in MAC IRWM Plan Update

Plan Standard	Climate Change-related Requirement	MAC Plan Update Section
Region Description	IRWM plans must contain language in their Region Description Section that describes likely Climate Change impacts on their region as determined from the vulnerability assessment	Section 1.3 Climate Change
Plan Objectives	<p><u><i>Adapting to Climate Change:</i></u> In developing plan objectives, IRWM regions must consider the following:</p> <ul style="list-style-type: none"> • IRWM Plans should address adapting to changes in the amount, intensity, timing, quality and variability of runoff and recharge. • IRWM Plans need to consider the effects of SLR on water supply conditions and identify suitable adaptation measures. RWMGs should consider the guidance provided in the OPC’s SLR Policy. <p><u><i>Reducing Emissions</i></u></p> <ul style="list-style-type: none"> • IRWM plans can also help mitigate Climate Change by reducing energy consumption, especially the energy embedded in water use, and ultimately reducing GHG emissions. • In evaluating different ways to meet IRWM plan objectives, where practical, RWMGs should consider the strategies adopted by CARB in its AB 32 Scoping Plan. • In addition to offsetting emissions, RWMGs also may consider options for carbon sequestration and using renewable energy where such options are integrally tied to supporting IRWM Plan objectives. 	Section 3.1 Policies, Goals, and Objectives
Resource Management Strategies	<p>Identify and implement, using vulnerability assessments and tools such as those provided in the Climate Change Handbook, Adaptation Strategies that address region-specific climate change impacts.</p> <ul style="list-style-type: none"> • An IRWM region must demonstrate how the effects of Climate Change on its region are factored into its resource management strategies. • IRWM Plans should address adapting to changes in the amount, intensity, timing, quality and variability of runoff and recharge. • IRWM Plans need to consider the effects of SLR on water supply conditions and identify suitable adaptation measures. • IRWM Plans also can help mitigate Climate Change by reducing energy consumption, especially the energy embedded in water use, and ultimately reducing GHG emissions. • IRWM regions should pursue increasing water use efficiency, practice integrated flood management, and seek 	Section 1.3.6 Adaptation and Mitigation

Plan Standard	Climate Change-related Requirement	MAC Plan Update Section
<p>Project Review Process</p>	<p>to enhance and sustain ecosystems.</p> <p>The Project Review Process must include the following factors:</p> <ul style="list-style-type: none"> • <i>Contribution of the project to adapting to Climate Change:</i> RWMGs must include potential effects of Climate Change on their region and consider if adaptations to the water management system are necessary. • <i>Contribution of the project in reducing GHG emissions as compared to project alternatives:</i> The RWMG needs to consider a project’s ability to help the IRWM region reduce GHG emissions as new projects are implemented over the 20-year planning horizon. Considerations include energy efficiency and reduction of GHG emissions when choosing between project alternatives. <p><i>CEQA project-level analyses:</i> In preparing a project-level GHG emissions analysis, RWMGs and the project proponents should estimate GHG emissions from the project; establish significance criteria; identify those project components that may support carbon sequestration; and, if applicable, explain how the project may help in adapting to effects of Climate Change.</p>	<p>Section 4.1 Project Review Process and Appendix C – Project Summary and Evaluation</p>
<p>Relation to Local Water Planning</p>	<p>IRWM Plans must consider and incorporate water management issues and Climate Change</p>	<p>Section 4.2 Coordination with Water and Land Use Agencies</p>
<p>Relation to Local Land Use Planning</p>	<p>IRWM regions must demonstrate information sharing and collaboration with regional land use planning in order to manage multiple water demands throughout the state, as described in CWP Update 2009, adapt water management systems to Climate Change, and potentially offset Climate Change impacts to water supply in California.</p>	<p>Section 4.2 Coordination with Water and Land Use Agencies</p>
<p>Plan Performance and Monitoring</p>	<p>IRWM Plans should contain policies and procedures that promote adaptive management. As more effects of Climate Change manifest, new tools are developed, and new information becomes available, RWMGs must adjust their IRWM plans accordingly.</p>	<p>Section 1.3.7 Plan for Further Data Gathering</p>
<p>Coordination</p>	<ul style="list-style-type: none"> • RWMGs should stay involved in CNRA’s California Adaptation Strategy process to help shape the document through their participation. • Agencies that are part of an IRWM effort should consider joining The Climate Registry, http://www.theclimateregistry.org/. 	<p>Section 2.5 Coordination with Other IRWM Regions and State and Federal Agencies</p>

Appendix 1.10 –2013 MAC IRWM Plan Update

See Att1_IG2_Eligible_4of4.pdf