

**East Contra Costa County Region
Proposition 84 Round 2 Grant Proposal**

**ATTACHMENT 1 –
AUTHORIZATION AND ELIGIBILITY REQUIREMENTS**

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Authorizing Documentation

A resolution adopted by Contra Costa Water District’s (CCWD’s) Board of Directors on March 20, 2013 authorizing CCWD to submit this application and execute a grant agreement with the State of California is included in Appendix A of this attachment.

Eligible Applicant Documentation

A written statement from CCWD confirming its eligibility as an applicant for this grant is included in Appendix B of this Attachment.

GWMP Compliance

Two of the five projects included in this Proposal have the potential to positively or negatively affect groundwater quality and/or levels. These projects are Diablo Water District’s Beacon West Arsenic Well and Tank Replacement Project and the City of Pittsburg’s Rossmoor Well Replacement / Groundwater Monitoring Well System Expansion. Both the City of Pittsburg and Diablo Water District have prepared and implemented a Groundwater Management Plan (GWMP) in compliance with CWC 10753.7. The Projects are subject to adopted GWMPs as follows.

- The Rossmoor Well Replacement Project will overlay the Pittsburg Plain Groundwater Basin which is described in the *Pittsburg Plain Groundwater Basin Groundwater Management Plan* (Luhdorff & Scalmanini, October 2012).
- The Beacon West Well will be within Diablo Water District’s service area on Bethel Island; Diablo Water District prepared its *Diablo Water District Groundwater Management Plan for AB 3030* for its service area in May 2007 (Luhdorff & Scalmanini, 2007).

These Groundwater Management Plans (GWMPs) are provided in Appendix C and Appendix D (see Att1_IG2_Eligible_2of3.pdf and Att1_IG2_Eligible3of3.pdf, respectively). Appendix E and Appendix F included in this attachment consist of resolutions from the City of Pittsburg and Diablo Water District adopting their respective GWMPs.

The three projects included in this Proposal that are not groundwater projects and will not affect groundwater levels or quality are the Integrated Regional Flood Protection and Water Quality Improvement Borrow Area Project (Contra Costa Water District and Contra Costa County Flood Control and Water Conservation District), Knightsen Wetland Restoration and Flood Protection Project (East Contra Costa County Habitat Conservancy), and Recycled Water Salinity Reduction and Distribution System Expansion Project. These projects are not groundwater recharge or groundwater management projects and will not directly affect groundwater levels or quality.

Progress on Meeting Current IRWM Plan Standards

The East Contra Costa County IRWM Region is in the process of updating its IRWM Plan to comply with the Plan Standards described in the 2012 Proposition 84 & 1E Guidelines. Table 1 from the Proposition 84 Round 2 Implementation Grant Proposal Solicitation Package (PSP) is provided as Appendix G to this Attachment. This table demonstrates that the Region is on track to adopt an IRWM Plan that meets the current Plan Standards prior to signing a funding agreement.

Project Consistency with an Adopted IRWM Plan

The projects included in this Proposal are consistent with the East Contra Costa County Functionally Equivalent IRWMP adopted in 2005 and the associated project vetting process. Three of the projects included in this Proposal were included in the 2005 Functionally Equivalent IRWM plan:

- Diablo Water District's Beacon West Arsenic Well and Tank Replacement Project (originally described as the Beacon West Well Head Arsenic Treatment, and described on page 3-27 of the adopted Plan, provided in Appendix H to this Attachment)
- East Contra Costa County Habitat Conservancy's Knightsen Wetland Restoration and Flood Protection Project is the integration of two projects (the Knightsen Bio-filter Project described on page 3-28 of the adopted 2005 Plan and the East Contra Costa County Habitat Conservation Plan described on page 3-27, provided in Appendix H to this Attachment)
- Recycled Water Salinity Reduction and Distribution System Expansion Project (represents a subsequent phase of two projects originally included in the 2005 IRWM plan, the Antioch Recycled Water Implementation and Pittsburg Recycled Water Implementation Projects, described on pages 3-27 and 3-28 of the adopted Plan, provided in Appendix H to this Attachment).

All of the Projects, including the three projects identified above as well as the Integrated Regional Flood Protection and Water Quality Improvement Borrow Area Project (Contra Costa Water District and Contra Costa County Flood Control and Water Conservation District) and the City of Pittsburg's Rossmoor Well Replacement / Groundwater Monitoring Well System Expansion, were re-submitted and approved for inclusion in the IRWM Plan as part of the region's updated project submittal process after being fully vetted and prioritized. The Projects can all be found in the approved project database, which is accessible via the internet at <http://www.eccc-irwm.org/projects/projectlist.aspx> and provided as Appendix I to this Attachment.

All of the projects that were submitted during the project submittal process were discussed at the region's September 25, 2012 meeting and approved for inclusion in the updated IRWMP. The meeting agenda, sign-in sheet and identified action items from the September 25th meeting are included in Appendix J of this attachment. Additionally, while preparing for this grant application, the region met on a regular basis to identify projects, define synergies among projects, accept edits to project descriptions, and approve projects for inclusion in the database.

Appendix A: CCWD Board Resolution


Mary A. Neher, District Secretary
Contra Costa Water District

RESOLUTION NO. 13-05

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE CONTRA COSTA WATER DISTRICT AUTHORIZING AN APPLICATION TO THE CALIFORNIA DEPARTMENT OF WATER RESOURCES TO OBTAIN A PROPOSITION 84 ROUND 2 INTEGRATED REGIONAL WATER MANAGEMENT IMPLEMENTATION GRANT AND EXECUTION OF AN AGREEMENT WITH THE CALIFORNIA DEPARTMENT OF WATER RESOURCES, CONDITIONED UPON GRANT AWARD

WHEREAS, in November 2006, Proposition 84: the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coast Protection Bond Act of 2006 (Public Resource Code (PRC) Section 75001 *et seq.*) was passed by the vote of the people of California;

WHEREAS, the intent of the Integrated Regional Water Management (IRWM) Grant Program is to encourage integrated regional management of water resources and provide funding for projects that support integrated water management planning and implementation;

WHEREAS, the IRWM Implementation Grant Program is administered by the California Department of Water Resources;

WHEREAS, the State advises that there is a maximum grant amount of \$8,296,000 million available in the San Joaquin River Funding Area for implementation funding with a 25% minimum funding match of the total project costs to be paid for with non-State funds; and

WHEREAS, grant application procedures established by the California Department of Water Resources require applicants to provide a copy of a resolution adopted by the applicant's governing body designating an authorized representative to file an application and enter into an agreement to receive an Integrated Regional Water Management implementation grant.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of Contra Costa Water District that the General Manager, or his designee, is hereby authorized to prepare the

necessary data, conduct investigations, and execute and submit all documents and applications, which may be necessary to obtain an Integrated Regional Water Management implementation grant.

BE IT FURTHER RESOLVED, by the Board of Directors of Contra Costa Water District that the General Manager, or his designee, is hereby authorized to execute any and all agreements, amendments, reports, and payment requests which may be necessary to receive an Integrated Regional Water Management implementation grant, and for the initiation and completion of the project.

* * * * *

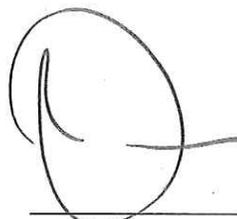
The foregoing Resolution was duly and regularly adopted at a meeting held on the 20th day of March 2013 by the Board of Directors of Contra Costa Water District by the following vote of the Board:

AYES: Boatmun, Borba, Burgh, Campbell, Wandry

NOES:

ABSTAIN:

ABSENT:



Joseph L. Campbell, President

ATTEST:



Mary A. Neher
District Secretary

Appendix B: CCWD Statement of Eligibility



1331 Concord Avenue
P.O. Box H2O
Concord, CA 94524
(925) 688-8000 FAX (925) 688-8122
www.ccwater.com

March 21, 2013

Directors

Joseph L. Campbell
President

Karl L. Wandry
Vice President

Bette Boatman
Lisa M. Borba
John A. Burgh

Jerry Brown
General Manager

California Department of Water Resources
Division of Integrated Regional Water Management
Financial Assistance Branch
Post Office Box 942836
Sacramento, CA 94236-0001
Attn: Zaffar Eusuff

Subject: Proposition 84 Implementation Grant Application, Attachment 1 - Eligible Applicant Documentation

Dear Dr. Eusuff,

Contra Costa Water District (CCWD) is the organization submitting a Proposition 84 Integrated Regional Water Management Planning Grant proposal on behalf of the East Contra Costa County IRWM Planning Region. To that end, CCWD has prepared this written statement to address the questions posed under Attachment 1 of the *Proposition 84 Integrated Regional Water Management Proposal Solicitation Package for Implementation Grants, Round 2* as published by the California Department of Water Resources in November 2012.

Q1: Is the applicant a local agency as defined in Appendix B of the 2012 Guidelines? Please explain.

Yes, CCWD is a local agency as defined in Appendix B of the 2012 Guidelines. CCWD is a special district formed in 1936 and is, therefore, considered a public agency.

Q2: What is the statutory or other legal authority under which the applicant was formed and is authorized to operate?

CCWD was formed under the provisions of an act entitled "An act to provide for the incorporation and organization and management of county water districts, and to provide for the acquisition of water rights or construction thereby of water works and for the acquisition of all property necessary therefor, and also to provide for the distribution and sale of water by said districts." This act was later incorporated in the State Government Code §16271[d]. Please see the attached copy of the 1936 Enabling Act forming CCWD.

Q3: Does the applicant have legal authority to enter into a grant agreement with the State of California?

As previously mentioned, CCWD is a special district. As such, it has the same legal authority as that granted to many cities and counties. Specifically, CCWD can enter into contracts and agreements, employ workers, acquire real property through purchase or eminent domain, issue debt and charge fees for its services.

Q4: Describe any legal agreements among partner agencies and/or organizations that ensure performance of the Proposal and tracking funds?

CCWD is part of the East County Water Management Association (ECWMA). There is an agreement among ECWMA participating agencies identifying CCWD as the lead agency with the responsibilities for contracting with consultants, ensuring project performance, and tracking funds.

Please contact Ms. Marie Valmores at (925) 688-8132 if you have any questions.

Sincerely,



Jerry Brown
for General Manager

JB/MV/



STATE OF CALIFORNIA

Department of State

I, FRANK C. JORDAN, Secretary of State of the State of California, do hereby certify that on the 9th day of May, 1936, there was filed in this office a certificate of the County Clerk of the County of Contra Costa, state aforesaid, showing the adoption of a proposition to organize and incorporate the

CONTRA COSTA COUNTY WATER DISTRICT

under the provisions of an act entitled, "An act to provide for the incorporation and organization and management of county water districts, and to provide for the acquisition of water rights or construction thereby of water works and for the acquisition of all property necessary therefor, and also to provide for the distribution and sale of water by said districts." Approved June 10, 1913, and subsequent amendments thereto.

And it appearing from said certificate that said proposition was adopted in the manner required by said act, now therefore I do hereby certify that

CONTRA COSTA COUNTY WATER DISTRICT

has been duly incorporated according to law and the laws of the State of California.

IN WITNESS WHEREOF, I have hereunto set my hand and have caused the Great Seal of the State of California to be affixed hereto this 9th day of May, A.D. 1936.

FRANK C. JORDAN
Secretary of State

By 
Assistant Secretary of State



**Appendix C: Pittsburgh Plain Groundwater Basin Groundwater
Management Plan**

See Att1_IG2_Eligible_2of3.pdf

**Appendix D: Diablo Water District Groundwater Management
Plan**

See Att1_IG2_Eligible_3of3.pdf

**Appendix E: Pittsburgh Plain Groundwater Basin Groundwater
Management Plan Adopting Resolution**

BEFORE THE CITY COUNCIL OF THE CITY OF PITTSBURG

In the Matter of:

Resolution Authorizing Adoption of)
A Groundwater Management Plan)

RESOLUTION NO. 12-11907

The Pittsburg City Council DOES RESOLVE as follows:

WHEREAS, the City of Pittsburg operates a Water System which distributes potable water to approximately 17,500 residential, commercial, industrial, and institutional customers; and

WHEREAS, the City has two wells located in the Pittsburg Plain Groundwater Basin; and

WHEREAS, California Water Code, Part 2.75 of Division 6, Section 10750, et seq., permits the adoption and implementation of Groundwater Management Plans to encourage authorized local agencies to manage groundwater resources within their service areas; and

WHEREAS, the City is an authorized local agency and may therefore adopt and implement such a Groundwater Management Plan; and

WHEREAS, a Groundwater Management Plan will further the City's efforts to protect and provide a safe, sufficient, and reliable groundwater supply to citizens and businesses within the City's boundaries, will facilitate collection of information to further understand groundwater basin conditions and evaluate additional policies and programs for protection of the groundwater resources in the Plan area; and

WHEREAS, the State of California has provided Proposition 84 Planning Grant funding in the amount of \$78,000 for the development of the Groundwater Management Plan; and

WHEREAS, California Water Code, Part 2.75 of Division 6, Section 10750, et seq. requires an entity to adopt a Groundwater Management Plan no later than two years after passing said Resolution of Intent; and

WHEREAS, on May 7, 2012, the City Council approved Resolution 12-11810 to declare its intention to prepare a groundwater management plan, in accordance with the requirements of the California Water Code; and

WHEREAS, a Public Hearing was held on May 7, 2012, to take public comments on the City's intent to prepare a groundwater management plan; and

WHEREAS, there were no public comments; and

WHEREAS, prior to the Public Hearing a Notice of the Public Hearing to adopt a Groundwater Management Plan was published two times in a newspaper of general circulation in Contra Costa County; and

WHEREAS, a Public Hearing was held on December 17, 2012, to determine whether to adopt a Groundwater Management Plan; and

WHEREAS, less than 50% of the District's assessed property owners protested the draft Plan; and

WHEREAS, the City has prepared a Groundwater Management Plan for the purpose of implementing the plan and establishing a groundwater management program, in accordance with California Water Code, Part 2.75 of Division 6; and

WHEREAS, the Groundwater Management Plan meets the final approval provisions of the City Council and the public hearing and notification provisions of Water Code Section 10753 et seq. A copy of this resolution shall be published in a paper of general circulation in Contra Costa County at least two times to give public notice of its adoption and the adoption of the City's Groundwater Management Plan.

NOW, THEREFORE, the City Council finds and determines as follows:

- Section 1. The recitals set forth above are true and correct statements and are hereby incorporated.
- Section 2. The City Council does hereby authorize the adoption of the City's Groundwater Management Plan.
- Section 3. This Resolution shall take effect immediately upon its adoption.

PASSED AND ADOPTED by the City Council of the City of Pittsburg at a regular meeting on the 17th day of December, 2012, by the following vote:

AYES:	Casey, Evola, Johnson, Longmire, Parent
NOES:	None
ABSTAINED:	None
ABSENT:	None


Nancy L. Parent, Mayor

ATTEST:

Alice E. Evenson, City Clerk

**Appendix F: Diablo Water District Groundwater Management
Plan Adopting Resolution**

RESOLUTION No. 2007-4

RESOLUTION OF THE BOARD OF DIRECTORS OF DIABLO WATER DISTRICT AUTHORIZING ADOPTION OF GROUNDWATER MANAGEMENT PLAN

The Board of the Directors of the Diablo Water District (District) does hereby find that:

WHEREAS, the District was formed in 1953 by a vote of the citizens of Oakley for the purpose of serving a safe, adequate, and reliable supply of water to the residents and businesses within the District; and

WHEREAS, California Water Code, Part 2.75 of Division 6, Section 10750, et seq., permits the adoption and implementation of Groundwater Management Plans to encourage authorized local agencies to manage groundwater resources within their service areas; and

WHEREAS, the District is an authorized local agency and may therefore adopt and implement such a Groundwater Management Plan; and

WHEREAS, a Groundwater Management Plan will further the District's efforts to protect and provide a safe, sufficient, and reliable groundwater supply to citizens and businesses within the District's boundaries, will facilitate collection of information to further understand groundwater basin conditions and evaluate additional policies and programs for protection of the groundwater resources in the Plan area, and will assist in integrated regional water resources planning and monitoring efforts conducted in coordination with other public entities whose service areas also overly the Plan area; and

WHEREAS, the District adopted a Resolution of Intent to prepare a Groundwater Management Plan on June 28, 2006; and

WHEREAS, California Water Code, Part 2.75 of Division 6, Section 10750, et seq. requires an entity to adopt a Groundwater Management Plan no later than two years after passing said Resolution of Intent; and

WHEREAS, a Public Hearing was held on May 23, 2007, to determine whether to adopt a Groundwater Management Plan; and

WHEREAS, prior to the Public Hearing a Notice of the Public Hearing was published in a newspaper of general circulation in Contra Costa County on May 4, 2007, and May 11, 2007; and

WHEREAS, less than 50% of the District's assessed property owners protested the draft Plan.

NOW, THEREFORE, BE IT RESOLVED that the District does hereby authorize the adoption of the District's Groundwater Management Plan.

RESOLVED FURTHER that this resolution shall be published in a paper of general circulation in Contra Costa County at least two times to give public notice of the adoption of the District's Groundwater Management Plan.

* * * * *

The foregoing Resolution was duly and regularly adopted at a meeting held on this 23rd day of May 2007 by the Board of Directors of Diablo Water District by the following vote of the Board:

AYES: Crockett, de Fremery, Garcia, Head, and Hobbs

NOES: none

ABSENT: none

Dated: May 31, 2007

A handwritten signature in blue ink, consisting of several overlapping, slanted strokes that form a stylized name.

Mike Yeraka, Secretary

Appendix G: Table 1 – Overview of Selected IRWM Plan Standards (from PSP)

Table 1 – Overview of Selected IRWM Plan Standards

The East County Water Management Association (ECWMA) prepared the East Contra Costa County Functionally Equivalent Integrated Regional Water Management Plan (FEIRWMP) in 2005. It is currently in the process of updating the FEIRWMP to comply with the 2012 Proposition 84 & 1E IRWM Guidelines (DWR, November 2012) and meet present-day conditions using a Proposition 84 Round 1 planning grant from DWR. The East County IRWMP is expected to be adopted by the ECWMA and project proponents in July 2013.

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?

The governance structure will not be significantly altered from the 2005 FEIRWMP. East Contra Costa County has a long history of collaborative regional water management planning. ECWMA is a consortium of 13 member agencies with a broad range of water management-related responsibilities within the region. It was formed in 1995 to undertake the development of the East County Water Supply Management Study, a long-term water management plan that outlined specific implementation actions required to ensure cost-effective reliable water supplies for the Region through 2040. Although the original agreement forming the ECWMA terminated in November 1996 upon acceptance of the recommended actions in the Study, the ECWMA was re-established by a subsequent agreement in August 1997 because of the desire to facilitate continued communication, cooperation and education between the member agencies as water supply reliability projects were implemented. The ECWMA continued to coordinate on a regular basis, developing the East County FEIRWMP, the Regional Acceptance Process (RAP) submittal, and multiple grant applications. It is now coordinating the development of the East County IRWMP update. The level of regional cooperation and coordination facilitated by the ECWMA has helped to avoid/resolve potential water supply conflicts in the region and has resulted in several successful regional planning and implementation projects within the East Contra Costa County Region over the past decade. The success of these multi-benefit regional initiatives has established a foundation of trust between ECWMA member agencies and other regional stakeholders allowing for balanced representation that has and will continue to enable successful implementation of water management activities. The ECWMA identified stakeholders and got them involved through regularly held water management meetings, established forums and project-specific outreach efforts. These stakeholder involvement forums actually pre-date the development of the FEIRWMP, and continue to be actively used by member agencies and stakeholder alike. These forums effectively promote access to entities and individuals representing a diverse range of water management interests.

Region Description

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

The East County Region is bounded to the north by the San Joaquin River, to the east by Old River, to the south by the county line separating Contra Costa County from Alameda County, and to the west by the ridgelines of the Mount Diablo hydrologic divide. The Region became an approved IRWM region during the 2009 RAP. While the region description has not changed significantly from the 2005 FEIRWMP, some new region-specific information was developed for the Region's RAP submittal; this information will be added to the region description in the IRWMP update. Additionally, there exists an overlap

between the East County Region and the San Francisco Bay Area Region. Coordination between the two regions and the overlap itself will be described and addressed in greater detail in the updated IRWMP.

Objectives

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

The objectives included in the 2005 FEIRWMP have been revisited and slightly revised to reflect current day conditions. While region-specific objectives are being developed and updated, in general the key objectives from FEIRWMP remain the same. For example, reducing dependence on Delta supplies was and will continue to be a primary objective of the East County Region.

Resource Management Strategies

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

Yes, the updated East County IRWMP will consider all of the Resource Management Strategies (RMSs) from the 2009 California Water Plan Update. There will be a specific chapter that describes the process of considering the RMSs and description of those that apply to the Region.

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?

Yes, the process used during the East County IRWMP update process has encouraged integration in both the planning process and in project formulation and implementation. Agencies met and discussed all of the projects submitted during project solicitation which resulted in project integration. For example, the Integrated Regional Flood Protection and Water Quality Improvement Borrow Area Project is a project that arose from two separate, stand-alone projects led by Contra Costa Water District (CCWD) and Contra Costa County Flood Control and Water Conservation District (FCD). The project partners' collaboration in the East Contra Costa County IRWM planning effort led to this joint project through project integration. The FCD is currently implementing the Upper Sand Creek Basin (USCB) Project to prevent flooding along the lower reach of Marsh Creek between Sand Creek and the Marsh Creek outfall into the Sacramento-San Joaquin River at Big Break in Oakley. The construction of USCB is expanding an existing interim flood control basin by excavating the existing interim basin floor. The Integrated Regional Flood Protection and Water Quality Improvement Borrow Area Project would involve using soil removed from the excavation for use by CCWD for its Contra Costa Canal Flood Protection and Levee Elimination and Flood Protection Project as fill material. The project partners are already closely coordinating and will continue doing so to ensure the surplus material is available at the necessary time. By using the surplus material from USCB, the FCD will further the progress of its project to ultimately provide flood control benefits and CCWD will be able to construct an additional 450 feet of pipeline and provide additional water quality and supply benefits to the region.

Additionally, the East County region created an East County IRWM planning website (<http://www.eccc-irwm.org/>) which has allowed a wide array of participants in the planning and updating process, fostering integration among the IRWM planning participants.

Project Review Process

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

Yes, the project review process considers climate change vulnerabilities and greenhouse gas emissions through the application of climate change adaptation and reduction of greenhouse gases as project scoring criteria. This will be described in the associated section of the updated IRWMP.

Technical Analysis

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

Data gaps were identified for the East County region and addressing these gaps has begun, results of which will be described in the updated IRWMP. For example, the region identified the need for further study of groundwater basins and subbasins in East County to sustainably manage groundwater in the region. In response to this, the Pittsburg Plain Groundwater Management Plan was included in the region's Prop 84 Round 1 planning grant application and was subsequently prepared. Additionally, development of a Salt and Nutrient Management Program for the region and completion of a data gap analysis for the East County portion of Tracy Subbasin were included in the Prop 84 Round 1 planning grant application. These efforts are currently underway and when complete will be incorporated into the updated IRWMP.

The updated IRWMP will also include Technical Analysis and Data Management sections which will identify other data gaps and include potential ways to fill those gaps.

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?

Changes are not needed to improve coordination with local water planning efforts. The water planning entities within the East Contra Costa County IRWM Region have been successfully coordinating for years. The ECWMA provides a forum for coordination and collaboration among the 11 water member agencies, as well as other participants through meetings and the East County IRWM website.

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?

Coordination with land use planners was briefly discussed in the 2005 FEIRWMP. As part of the update, the discussion will be expanded upon. Coordination among water planners and land use planners within the East County region is accomplished by their participation in the IRWM planning effort & ongoing communication. No changes were identified for improving coordination with land use planning efforts.

Stakeholder Involvement

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

Historically, The RWMG and its members have regularly conducted stakeholder outreach for the IRWM planning process as well as for the various water resources planning and implementation projects. The most substantial improvement to the stakeholder involvement process is the creation of the East Contra Costa County IRWM website (<http://www.eccc-irwm.org/>). The website serves as a portal to disseminate information about the updated IRWMP, the update process, the region, its RWMG, and meeting notices. It also served as the main tool for collecting project information from member agencies and stakeholders.

Coordination

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

No changes were identified for coordination within the Region, but there has been a focus on improved coordination with the San Francisco Bay Area Region, specifically as it relates to the overlap between the two regions. To ensure that there is no duplicative planning for regional water resource management issues in the overlap area, the ECCC IRWM region and the San Francisco Bay Area IRWM region have and will continue to collaborate to identify and prioritize any project that would be located in the overlap area. As previously described, coordination between the two regions and the overlap itself will be described and addressed in greater detail in the updated IRWMP.

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?*

Yes, the updated East County IRWMP will address climate change as described above. The region went through the Climate Change Handbook for Regional Water Planning, performed a vulnerability assessment, prioritized its vulnerabilities, and identified a plan for further data gathering of the vulnerabilities. The assessment and results will be described in climate change-specific section of the updated IRWMP.

**Appendix H: Pages from 2005 Functionally Equivalent IRWM
Plan (Project List)**

Table 3-4: Projects and Water Management Strategies Included in Plan

Project	Water Conservation	Ecosystem Restoration	Environmental & Habitat Protection & Improvement	Water Supply Reliability	Flood Management	Groundwater Management	Recreation & Public Access	Stormwater Capture & Management	Water Quality Protection & Improvement	Water Recycling	Wetlands Enhancement & Creation	Conjunctive Use	Desalination	NPS Pollution Control	Watershed Planning	Water & Wastewater Treatment
Alternative Intake Project				✓					✓							
Antioch Recycled Water Implementation				✓			✓		✓	✓						✓
Antioch Water Treatment Plant Solids Handling Facilities			✓		✓			✓	✓	✓						✓
Beacon West Well Head Arsenic Treatment				✓		✓			✓							✓
Caltrans Recycled Water Implementation				✓			✓		✓	✓					✓	
CCWD Canal Improvement Project				✓					✓					✓		
Brentwood Chloramination of Wells				✓		✓			✓							✓
Brentwood Irrigation Controllers	✓			✓					✓							
Brentwood Non-Potable Water Distribution System - Phase II				✓					✓	✓						✓
Brentwood Non-Potable Water Distribution System - Phase III				✓					✓	✓						✓
Brentwood Surface Water Treatment Facility Phases I and II				✓					✓							✓
Brentwood Wastewater Treatment Plant Expansion - Phase II									✓							✓
Pittsburg Groundwater Study, Well Site Selections, and Design and Construction of two New Municipal Wells and development of a Groundwater Management Plan				✓		✓			✓							
DDSD Feasibility-Level Desalination Plant				✓					✓				✓			✓
Diablo Water District Well Utilization Project Phase 1 and 2				✓		✓			✓							
Dutch Slough Tidal Marsh Restoration - Phase 1		✓	✓		✓		✓	✓	✓		✓			✓		
East Antioch Creek Marsh Restoration Project		✓	✓		✓		✓				✓					
East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan (HCP/NCCP)		✓	✓		✓		✓		✓		✓			✓	✓	
Habitat and Watershed Protection/Restoration to Jump Start the East Contra Costa County Habitat Conservation		✓	✓		✓		✓		✓		✓			✓	✓	

Project	Water Conservation	Ecosystem Restoration	Environmental & Habitat Protection & Improvement	Water Supply Reliability	Flood Management	Groundwater Management	Recreation & Public Access	Stormwater Capture & Management	Water Quality Protection & Improvement	Water Recycling	Wetlands Enhancement & Creation	Conjunctive Use	Desalination	NPS Pollution Control	Watershed Planning	Water & Wastewater Treatment
Plan/Natural Community Conservation Plan																
Ironhouse Sanitary District Wastewater Treatment Plant Upgrade/Expansion Project		✓	✓	✓		✓			✓	✓						✓
Jersey Island 3,000-foot Cross Levee				✓	✓				✓							
Jersey Island Levee Improvement				✓	✓				✓							
Kellogg Sedimentation Basin Project			✓		✓				✓							
Knightsen Bio-filter Project					✓			✓	✓		✓			✓		
Marsh Creek Delta and Tidal Marsh Restoration		✓	✓		✓						✓					
Marsh Creek Fish Passage Project		✓					✓				✓					
Marsh Creek Reservoir Rehabilitation		✓	✓		✓		✓	✓	✓		✓					
Mount Diablo Mercury Mine Remediation (Marsh Creek Watershed)								✓	✓							
Pinn Brothers Marsh Creek Riparian Restoration Project		✓	✓		✓		✓	✓	✓		✓			✓		
Pittsburg Recycled Water Implementation				✓			✓		✓	✓					✓	✓
Subsidence mitigation on Jersey Island Blind Point area				✓	✓				✓							
Willow Park Marina Well Head Arsenic Treatment				✓		✓			✓							✓

**Appendix I: Current East Contra Costa County IRWM Project
List (accessed March 1, 2013)**

EAST CONTRA COSTA COUNTY

INTEGRATED REGIONAL WATER MANAGEMENT PLAN

HOME
MEMBER AGENCIES
ABOUT IRWM
SCHEDULE
PROJECTS
RELATED DOCUMENTS
FREQUENTLY ASKED QUESTIONS

ABOUT THE PROJECTS
VIEW MAP
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The list below shows basic information for IRWM projects submitted and approved by the IRWM Administrator to date.

Clicking on a project name will open a new window to provide more detailed project information.

Project Name	Description	Sponsoring Agency
Mercury Reduction Benefits of Low Impact Development	The goal of this project is to evaluate the treatment benefits of LID for reducing mercury and methylmercury discharges from stormwater to the Bay. Contra Costa County has established a policy making low-impact development (LID) the preferred method of treatment to meet requirements for stormwater treatment established under NPDES Permits for Urban Stormwater. Although LID-type treatment devices are known to be highly effective at removing sediment from urban stormwater, to date very little information is available on the effectiveness of LID for reducing mercury and methylmercury. Monitoring information would be developed to evaluate the concentrations and forms of mercury in urban stormwater before and after treatment by LID.	Contra Costa Clean Water Program
Lake Alhambra Sediment Mitigation Antioch Drainage Area 56	Lake Alhambra is a residential lake completed in the late 1950's as part of a housing subdivision that includes 240 single family homes in north central Antioch. The lake is at the end of E Antioch Creek that drains an area of 7,000 acres from the foothills of Mt. Diablo to the Delta. A study done around 1981 indicated that approximately 50,000 cubic yards of sediment had been deposited in the lake and the depth of the lake had gone from 10.5 to 7 or 8 feet as a result. According to the Lake Alhambra POA an equal amount has been deposited since for a total of 100,000 cubic yards of sediment deposited in the lake since its completion. The lake depth is now at 3 or 4 feet. This drainage area has experienced growth of light industrial and residential land use resulting in reduced permeable area, increased stormwater flow, and sediment from poor erosion controls. The project involves dredging to remove sediment to increase lake capacity (flood/sediment control) and restore beneficial uses.	Lake Alhambra Property Owners Association
Wastewater Storage Pond Management	Create an earthened berm within a 17 acre wastewater storage pond to create a smaller area for wastewater storage. This will minimize cleanup and odors when the pond is used during small events. For large flow events the entire storage pond will still be available for usage.	Ironhouse Sanitary District
Upper Sand Creek Basin Surplus Material (#220)	This project seeks to reuse surplus material from the Upper Sand Creek Basin construction. Upper Sand Creek Basin is currently in a interim condition and is set to be expanded to contain about 1000 acre-feet of storage under a separate project in summer 2013. The construction of the basin is expected to result in approximately 500,000 cy of surplus material stockpiled onsite for future reuse. This Upper Sand Creek Basin Surplus Material project will find a permanent home for some or all of this surplus material. Likely end users of this material include contractors, developers and other agencies needing high quality fill material. If integrated into another project, this project can be the borrow source for some or all of this material. If this remains a stand alone project, the project consists of loading, hauling, placing and compacting the surplus material at an appropriate, permanent disposal site.	Contra Costa County Flood & Water Conservation Control District
Treatment of Brackish Groundwater	Construct Reverse Osmotic system for treatment of brackish groundwater.	Diablo Water District
Advanced Metering and Leak Detection (AML) Project	The Advanced Metering and Leak Detection (AML) Project will assist the Diablo Water District improve its water management practices by converting 10,000 outdated meters to "smart" meters. The project will help the District conserve water and better manage its water losses by providing the technology necessary to mitigate customer leaks through real-time meter reading capabilities. Existing meters are more than a decade old and have diminished capabilities to accurately meter or report water usage. This has led to undetected leaks and unaccounted for water and loss for the District's customers. Some of the meters have even stopped turning. The new meters are magnetic read with no moving parts and are capable of alerting the District when a customer has water flowing 24 hrs/day which is an indication of a leak.	Diablo Water District
DDSD Recycled Water Distribution System Expansion	This project helps to meet water demands and reduce dependence on the Delta by expanding the recycled water system to serve industrial and irrigation users within the cities of Antioch and Pittsburg. The expansion project involves the installation of pipelines, storage, pumps and retrofits that can be implemented in phases to serve demands as opportunities arise. Facilities in this expansion include the construction of a storage tank (0.9 MG), approximately 47,000 LF of new recycled water pipeline, rehabilitation of 48,200 LF of existing pipeline, a pump station, control and isolation valves, and site retrofits to serve 22 irrigation and industrial customers. This project will be capable of meeting recycled water average annual demands of 4,200 AFY.	Delta Diablo Sanitation District
Salinity Reduction	Salinity management is of utmost importance in the Central Valley and our region. To assist Ironhouse Sanitary District meet salinity requirements imposed by the Central Valley Regional Water Quality Control Board a rebate program to remove discharging water softeners from homes and businesses will be established.	Ironhouse Sanitary District
BBID-CCWD Regional Intertie	BBID and CCWD are working together to connect their water systems with an intertie that will improve the ability to sustain adequate water supply for drought-preparedness and after catastrophic events such as earthquakes, while also increasing the ability for these agencies to develop and share water resources more efficiently. Water can be shared between these two	Contra Costa Water District

Project Name	Description	Sponsoring Agency
City of Pittsburg Water Treatment Plant Improvements Project	ECWMA members as well as delivered from CCWD through BBID and to agencies that have access to water supplies from the South Bay Aqueduct. The immediate project consists of approximately 200 feet of 48" pipeline to interconnect the two agencies and will be designed to allow for the installation of temporary pumps. A pump station may be added in a future phase to increase capacity. The City owns & operates a 32 mgd Water Treatment Plant (WTP) that was last expanded/upgraded in 1990 & is in need of improvements to mitigate current operating problems, prepare to reliably treat the flow rates for which it was originally designed, & meet current and future drinking water regulations. CDPH sent a letter to the City in 12/2010 requesting the City seek solutions to mitigate the filter backwash recycled water turbidity problem as it often exceeds 2 NTU, the turbidity limit recommended by the Cryptosporidium Action Plan. The City prepared a WTP Improvements Study (July 2011) identifying 3 phases of high priority improvements to the City's WTP to be implemented as part of the proposed Project. Phase 1: influent blending & chlorine dioxide contact, chlorine dioxide generation and chemical storage and chlorinator modification, ammonia feed relocation, & spent filter backwash treatment. Phase 2: sludge management improvements. Phase 3: add a 0.5 MG backwash basin.	City of Pittsburg
Marsh Creek Widening Between Dainty Avenue and Sand Creek (#216)	The master plan for Marsh Creek included a series of detention basins as well as selective widening of the channel. This project is one of the selective widening projects. It extends from the Dainty Road crossing of the creek downstream to the creek's confluence with Sand Creek. The project is needed to contain 100-year flood flows and 50-year flood flows with freeboard in the creek and prevent damaging, polluted overflows into adjacent areas.	Contra Costa County Flood Control & Water Conservation District
Deer Creek Reservoir Expansion (#217 and #218)	This project will excavate and expand the storage area of the existing Deer Creek Reservoir to increase stormwater holding capacity and reduce flood flows downstream. The Deer Creek Reservoir dam was built in 1960 for a 50-year capacity. The expansion of the facility is needed to provide 100-year capacity to the developing areas of Brentwood downstream, including Heritage High School, which is immediately downstream from the facility. This project will also acquire additional land rights over an area currently encumbered by only a flowage easement, which is insufficient. The project will upgrade the flowage easement to a drainage easement.	Contra Costa County Flood Control District
Marsh Creek Delta Restoration Project	The Marsh Creek Delta Restoration Project would create up to 100 acres of marsh, riparian, and upland habitats on lands adjacent to the Dutch Slough Tidal Marsh Restoration. Project.	Reclamation District 830
West Antioch Creek Improvements: 10th Street to 'L' Street (#203)	Design and construct channel improvements from the downstream end of "L" Street Crossing to the upstream end of the 10th Street culverts in conjunction with the City of Antioch. Project includes selective channel widening and floodwalls, and additional culverts under the Union Pacific Railroad.	Contra Costa County Flood Control & Water Conservation District
Wastewater Renewable Energy Enhancement	Fats, oils and greases (FOG) that are improperly disposed into the sanitary sewer system are a major contributor to pipe blockages and sewer overflows. FOG that makes its way to the headworks of the treatment plant can negatively impact equipment and treatment. FOG discharges can come from both residences and commercial facilities within DDSD's 42 sq. mile service area of Antioch, Bay Point and Pittsburg. This project will design and construct a facility to accept up to 10,000 gallons of FOG per day from waste haulers, which will then be fed into digesters for treatment and biogas production. Construction involves modifying an existing, unused thickener facility to house a storage tank, along with positive displacement pumps, odor control, instrumentation, and approximately 200 feet of 6" steel pipe. This project will help keep greasy wastes out of the sanitary sewer collection system and the environment, reducing overflows, while enhancing biogas production at the treatment plant.	Delta Diablo Sanitation District
Recycled Water Facility Renewable Energy System	In California, water-related energy use consumes a significant percent of the State's electricity and natural gas. In addition, there is a substantial water requirement for non-renewable forms of electricity generation. This is the basis of the water-energy nexus. This project will install a 1.1 MW PV solar energy system to offset 50-60% of the energy use and associated costs at the recycled water facility. This project is part of a Regional Renewable Energy Procurement Project, which provides additional cost savings through volume pricing. This project will improve recycled water facility sustainability, reducing greenhouse gas (GHG) emissions, and providing energy cost savings through cost control/stability of on-site renewable energy generation.	Delta Diablo Sanitation District
Marsh Creek Methylmercury and Dissolved Oxygen Assessment	Marsh Creek Reservoir is located downstream of the Mt. Diablo Mercury Mine. Remedial actions for the mine are being investigated by the United States Army Corps of Engineers (USACE); however, the scope of the USACE assessment is limited to the mine site, Marsh Creek above the reservoir, and the reservoir. This project will investigate whether low dissolved oxygen conditions exist seasonally within the reservoir and whether the presence of legacy mercury contamination in reservoir sediments and / or low dissolved oxygen conditions in the reservoir promote the production of methylmercury within the reservoir or downstream in Marsh Creek. Low dissolved oxygen in reservoirs has been shown to cause elevated mercury concentrations in other reservoirs. This project would monitor mercury and methylmercury in water and sediments of the reservoir and downstream, as well as DO profiles in the reservoir. The project would also monitor mercury in sentinel species, e.g. crayfish, and small fish.	Contra Costa Flood Control and Water Conservation District
Septage Receiving Station	The project involves construction of a septage receiving facility at Ironhouse Sanitary District's Water Recycling Facility. The purpose is to provide a place for septage haulers to dispose of their wastes at a local facility.	Ironhouse Sanitary District
Stormwater Management at Meadows Siphon	The Contra Costa Canal meadows siphon is located below a low lying area north of Buchanan Road in the City of Pittsburg. The low lying area functions as an accidental detention basin which accepts storm water from the Highlands Ranch development fed from multiple storm drain pipes as well as run-off from nearby drainage areas. Water collected in this low area flows out through a 48" pipe that feeds an existing detention basin downstream. The terrain of the low lying area does not provide for positive drainage resulting in year round ponding. The growth of trees and vegetation in the year round wet environment of the low area directly over the canal siphon is a major concern. Tree roots can damage the siphon and wetlands prevent routine maintenance.	Contra Costa Water District

Project Name	Description	Sponsoring Agency
Recycle Water for AYSC	<p>This project may include the corrective option to install a junction box to connect all storm drains. The junction box would allow overflow to utilize the low area for water storage during peak flows.</p> <p>Use recycle water to irrigate the 20 acres of youth sports fields. This will reduce the cost of water for AYSC and allow AYSC to keep the fields green during drought years.</p>	Antioch Youth Sports Complex
DDSD Salinity Reduction - Softener Rebate Program	<p>Total dissolved solids (TDS) concentration and salinity management are potential water quality concerns in the region. Water softeners from residences in the service area can contribute to higher salinity and TDS concentrations in the wastewater influent. This project involves implementation of a water softener rebate program for residents in order to reduce salinity and TDS loading to the wastewater treatment plant. Reducing TDS in the influent will improve recycled water quality and help reduce salinity.</p>	Delta Diablo Sanitation District
East Antioch Creek Marsh Restoration (#206)	<p>Design and construct marsh and floodplain improvements on East Antioch Creek downstream of Cavallo Road. Includes marina outlet channel (or equivalent), hazardous material clean-up on affected portion of Hickmont cannery site, and three new box culverts under Wilbut Avenue.</p>	Contra Costa County Flood Control & Water Conservation District
Ironhouse Sanitary District Recycled Water Implementation -Phase A	<p>The project involves installation of 65,800 feet of 16-inch, 10-inch and 6-inch recycled water piping along city streets to provide 695 acre-feet per year of recycled water to parks, medians, and vineyards. The project also involves construction of a new recycled water pump station.</p>	Ironhouse Sanitary District
Contra Costa Canal Levee Elimination and Flood Protection Project	<p>The full, five-phased Contra Costa Canal Levee Elimination and Flood Protection Project (Project) will replace 21,000 feet of the unlined Contra Costa Canal (the Canal) with a pipeline to improve source water quality by preventing intrusion of poor quality groundwater; eliminate up to eight miles of 1930's Canal embankments not designed for flood protection; and improve security and public safety by preventing access to the open water Canal. Phase 1 included 1,900 feet of pipeline, and was completed in 2009. Phase 2 will be commence as early as 2013 and will install 7,000 feet of pipeline and a Canal flood isolation structure. The ultimate project includes improvements to the Canal Pumping Plant No. 1 to maintain existing flows to CCWD and its regional partners. The project will also require approximately 225,000 cubic yards of fill material. At this time the expectation is that this borrow material can be obtained from the Sand Creek Detention Basin that is an IRWM Project.</p>	Contra Costa Water District
DDSD Advanced Water Treatment	<p>This project involves the planning, design and construction of an advanced water treatment facility at DDSD designed to take wastewater secondary effluent or brackish water and treat it to high-purity water standards. New facilities will include microfiltration and reverse osmosis treatment units, as well as pumps, storage, and piping. This treatment facility will have capability to expand using modular units; the current project is sized for a 5 MGD facility. Advanced treatment of secondary effluent will significantly reduce TDS, ammonia, and other constituents. When this high-purity water is used for cooling water, it will reduce chemical usage and increase the number of cycles at the power plant, thus freeing up recycled water capacity for other users. A drought-tolerant, available high-purity supply can provide water for clean industrial manufacturing and other uses.</p>	Delta Diablo Sanitation District
Marsh Creek Supplemental Capacity and Basin Development (#215)	<p>A 2010 Flood Control District study identified portions of Marsh Creek that will not have sufficient capacity upon general plan buildout of the watershed. The regional drainage master plan calls for construction of a number of upstream reservoirs and detention basins to store and hold back storm flows. But even when all of these basins are constructed, Marsh Creek will still have portions of its channels that do not have sufficient capacity. This project will selectively raise channel banks and levees, and construct floodwalls at various locations to contain 100-year flood flows and contain 50-year flood flows with freeboard along Marsh Creek. Optional project upgrades (not included in current budget) would increase the level of protection to containment of a 200-year flood event.</p>	Contra Costa County Flood Control & Water Conservation District
Rossmoor Well Replacement Project/Groundwater Monitoring Well System expansion	<p>In order to meet future water demands, the City of Pittsburg will replace the existing Rossmoor Groundwater Well with a larger capacity well (~1,200 gallons per minute [gpm]), and about 1,500 feet of the 8-inch pipeline will be replaced with 10- or 12-inch pipeline to allow for increased use of the Pittsburg Groundwater Basin. The City currently relies mostly on purchased raw surface water from the Delta from Contra Costa Water District, and supplements the remaining water demands with groundwater (GW). These two supplies are treated at the City's water treatment plant prior to delivery to its residents. The City produces GW from two wells, one of which, the Rossmoor Well, has experienced biofouling which has caused a noticeable decline in the GW production. By replacing the existing well, and expanding the GW monitoring system, the City will obtain a more reliable GW supply and will be able to meet customer demands now and in the future, while reducing dependence on the Delta.</p>	City of Pittsburg
Los Vaqueros Pond E-7 Embankment Rehabilitation	<p>Los Vaqueros (LV) Pond E-7 is man-made and is used to promote red legged frog and california tiger salamander habitat in the Los Vaqueros Watershed. The Pond's earthen embankment is 150 feet long by 12 feet high. The embankment has failed on CCWD property, which was caused by one or more storm events that could not be passed by the existing undersized and clogged spillway culvert. The failed embankment does not support objectives of the pond and the embankment could further erode during future storms causing damage and further limiting use of the pond.</p>	Contra Costa Water District
Phase 3 Well Utilization Project	<p>Third Phase of groundwater utilization project for the Oakley Area</p>	Diablo Water District
Oakley and Trembath Detention Basins (#207)	<p>Oakley and Trembath Basins are important components of the master planned drainage infrastructure for the East Antioch Creek watershed in Antioch. The main stem of East Antioch Creek features three main detention basins which temporarily store stormwater and release it slowly once the storm has passed. One of these basins (Lindsey) is functionally complete. Of the other two, Oakley Basin is partially constructed and Trembath Basin, located just downstream of Oakley Basin, has yet to be constructed. This project will complete Oakley Basin and construct Trembath Basin. Trembath Basin will consist of a 20-foot high earthen dam and apurtenant structures, and wetland enhancement and mitigation. Oakley Basin work would consist of</p>	Contra Costa County Flood Control & Water Conservation District

Project Name	Description	Sponsoring Agency
Deer Creek Reservoir Seismic Assessment (#212)	excavating material to expand the impound volume. The projects are needed to reduce flood risk to communities in Antioch within the East Antioch Creek watershed. This project assesses the seismic performance of an existing dam embankment and recommend retrofit improvements, if needed. It includes a two-phase approach: starting with a hazard assessment, and then proceeding to more detailed geotechnical analysis if warranted. The dam was constructed in the 1960s and is unlikely to withstand an earthquake under today's more stringent standards. The actual seismic retrofit of the dam, if warranted, is scoped as a separate project.	Contra Costa County Flood Control & Water Conservation District
Bethel Island Water Supply Pipeline	Extend treated water service onto Bethel Island to replace poor quality groundwater supply for approximately 1,000 Island residents.	Diablo Water District
High Efficiency Toilets and Landscape Water Conservation	Provide rebates for the installation of high efficiency toilets (HET) including cost of installation in addition to landscape conservation incentives.	Diablo Water District
Marsh Creek Reservoir Capacity and Habitat Restoration (#213)	Marsh Creek Reservoir was constructed in the early 1960s as a dry reservoir, namely that it only fills and stores water during large storm events. 99%+ of the time, the reservoir stands empty except for a few acre feet of water stored below the elevation of the primary spillway. After construction, willows grew up around the main stem of Marsh Creek and around the wet pool. With 50+ years of intensive grazing, the only habitat is provided by the 50-year old willows that are nearing the end of their lifespan. Because of the grazing, there has been no new trees to replace those that are aging. The restoration plan maintains or improves level of flood protection, improves surrounding habitat, is compatible with surrounding state park uses, deals appropriately with accumulated mercury and accomodates mercury that will arrive at the basin in the next 50 years.	Contra Costa County Flood Control & Water Conservation District
Lower Sand Creek Basin Construction (#222)	This project will construct a 300 ac-ft regional detention basin on Sand Creek. The existing 40 ac-ft basin will be expanded into an 300 ac-ft offline basin with the addition of a new intake structure, primary and emergency spillways, a low flow channel, and a riparian mitigation area. This will reduce the flood potential downstream of this facility.	Contra Costa County Flood Control and Water Conservation District
Marsh Creek Reservoir Seismic Assessment (#210)	The project assesses seismic performance of an existing earthfill dam and recommends retrofit improvements, if needed. In includes a two phase approach: start with hazard assessment, and proceed to more detailed geotechnical analysis if warranted. The dam was constructed to 'modern' seismic standards in 1964 and is unlikely to withstand an earthquake by today's more stringent standards. The actual seismic retrofit of the dam, if warranted, is scoped as a separate project.	Contra Costa County Flood Control & Water Conservation District
Knightsen Biofilter/Wetland Habitat Restoration	This is a much-needed restoration project with substantial water quality benefits to the town of Knightsen. It would capitalize on the opportunity to integrate: a) long-standing interest in treatment wetlands near Knightsen, b) new information on historical ecological conditions in the area, c) renewed interest in restoring tidal wetlands in the Delta, and d) the opportunity to purchase a 645-acre property ideally situated to achieve all these goals on a large scale. This project will construct a tidal wetland to treat stormwater before being discharged to the Delta. This will reduce flooding in Knightsen, improve local water quality, and improve drinking water quality to residents in Contra Costa County.	Contra Costa County
BIMID Levee and Pump Station Improvement Project	To ensure the continued safety of the island residents and maintain property values, the Bethel Island Municipal Improvement District (BIMID) developed a Bethel Island Levee and Drainage Revitalization Plan with the following goals: raising the Bethel Island levee to meet current height standards, place riprap on the entire 11.5 miles of Bethel Island levee, and clean and re-grade 19.1 miles of Bethel Island drainage ditches to improve proper water flow. To meet these goals, the following capital projects are needed: 1) placement of riprap on 11.5 miles of levees, 2) installation of an all-weather surface for the entire levee crown, 3) completing levee raising to Public Law 84-99 Standards, 4) culvert replacement, and 5) elevation of two (2) pump stations with trash capture components (screens). These projects when combined and with special maintenance projects will upgrade the flood protection for Bethel Island to current standards.	Bethel Island Municipal Improvement District
Canal Liner Rehabilitation and Slope Stability at Milepost 23.03	The 48 mile long Contra Costa Canal transports water from the delta at Rock Slough to industrial, municipal, commercial, residential customers, and water treatment plants in Contra Costa County. The uphill embankment of the Contra Costa Canal near Milepost 23.03 in Bay Point experienced visible movement last winter causing a significant bulge in the liner. Temporary sheet piles were installed for winter slope protection. This project will provide permanent repairs to stabilize the slope and prevent further movement of the Canal liner and replacement of the bulging liner. Bypass pumping or piping will be implemented to facilitate the repair work.	Contra Costa Water District
Jersey Island Cutoff Levees	The project is construction of two cut-off levees one approximately 8,000 feet and the other approximately 3,000 feet on Jersey Island to divide the island into three parts. Jersey Island is one of the 8 western island critical to protection of water quality for 23 million Californians. Construction of these levees would limit the amount of salt water intrusion into the drinking water supply.	Reclamation District 830
East Contra Costa County Green Street Retrofit Network	This project will implement Low Impact Development (LID) "Green Street" retrofits to treat stormwater runoff from roads in unincorporated Contra Costa County. Streets will be retrofitted with bioretention facilities and/or infiltration measures to remove pollutants from runoff. Monitoring will be conducted to demonstrate the treatment and flow control effectiveness of the projects. Educational signage will be posted to provide a public education component. Green Streets projects will demonstrate several approaches to managing street runoff, such as within medians, "bump-outs" and sidewalk rain gardens. This project will be especially informative since some retrofits will be conducted in areas that lack a piped storm drain infrastructure. Disadvantaged Communities (including Bay Point and Bethel Island) will be prioritized for Green Streets projects. Where appropriate, pedestrian and bicycle improvements (where appropriate) will also be incorporated into Green Street retrofits.	Contra Costa County

Project Name	Description	Sponsoring Agency
Leak Detection and Repair	Project will identify and prioritize leaks in drinking water distribution system water mains (DWD) and untreated water laterals (CCWD) and provide funding to make repairs including water mains and laterals in DAC areas. Project costs are \$425,000 for DWD and \$1 million for CCWD.	Diablo Water District/Contra Costa Water District
Tracy Subbasin Safe Yield Analysis	Determine the safe yield of the Tracy Subbasin for for the District's municipal water system and to preserve the safety and reliability of sources of supply for other small water systems within its sphere of influence.	Diablo Water District
Drainage Area 55 - West Antioch Creek Channel Improvements	The City of Antioch is partnering with the Contra Costa County Flood Control District (CCCFCD) to replace an undersized concrete trapezoidal channel & arch culverts, & desilt 3,000 feet of West Antioch Creek to eliminate flooding to properties adjacent to the channel and within a DAC. In 1993 CCCFCD constructed channel improvements for West Antioch Creek and improved flood capacity to a 25-year level of protection. The project extended from the San Joaquin River to 8th St. in Antioch; as a result a 650 foot gap exists between the 1993 improvements and the earthen canal on the Antioch Fairgrounds property. The project will install 3 14'x7' Caltrans Standard Box Culverts, 620' long to address the chronic flooding at the gap. The project will prevent the chronic problem of flood waters leaving West Antioch Creek, flooding local residential, commercial and industrial areas, and then returning to San Joaquin River basin, and ultimately the Delta, as a contaminated source.	City of Antioch
Kellogg Creek Sedimentation Basin (#226)	This project proposes to construct an approximate 4-acre biofilter to treat flows and removed sediment from Kellogg Creek before entering Discovery Bay. Dredging Discovery Bay near Newport Drive is very expensive and also it has been difficult to secure the needed regulatory permits. This project will removed a minimum of 50 percent of the sediment load and associated pollutants from Kellogg Creek. A majority of the sediment load in Kellogg Creek comes from agricultural tailwater return in the summer irrigation season. As such, the basin will capture most summertime flows and pass most winter storm flows. Sediment will settle out and pollutants will be treated in the biofilter using natural processes.	Contra Costa County Flood Control and Water Conservation District
Viera Water and Sewer Service, NE Antioch	City of Antioch project to install sewer and water infrastructure for the Viera area, a residential area of 120 homes included in proposed Antioch NE Annexation. Area is a DAC.	City of Antioch
Oakley Sewers	The project involves sewerage areas in the City of Oakley currently on septic systems.	Ironhouse Sanitary District
Total Dissolved Solids Reduction / Salinity Management	Total dissolved solids concentrations and salinity management are potential water quality concerns in the region. DDSD operates a recycled water facility, and closely monitors the TDS concentration. Water with higher TDS concentrations has limits to its usefulness, and conventional treatment facilities have limited ability to significantly reduce TDS. Therefore, TDS management at treatment facilities is an important factor for producing high-quality recycled water. This project involves the installation of 10,500 LF of HDPE pipe to carry high TDS-containing water from Dow in Pittsburg to the optimal location at the treatment plant in order to reduce TDS concentration in the water produced at the recycled water facility. By improving water quality, this project can also increase water supply by increasing reuse and freeing up capacity for other users.	Delta Diablo Sanitation District
Advanced Wastewater Treatment	The State has indicated that excess nutrients may be impacting Delta species, and is currently evaluating the role of ammonia in the Bay-Delta ecosystem. DDSD discharges wastewater into the New York Slough, and has an exemplary record of eight consecutive years of 100% compliance with permit requirements. As regulations get more stringent or constituents of emerging concern (CECs) are identified, planning and engineering are needed to design advanced treatment facilities that may be needed to improve effluent quality and ensure that receiving water quality and beneficial uses are maintained. This project involves the planning, design and construction of advanced wastewater treatment facilities in order to address future treatment needs for reduction of nutrients and emerging constituents of concern in wastewater effluent. DDSD is currently studying advanced treatment alternatives to determine suitability for consideration during the project planning phase.	Delta Diablo Sanitation District
Jersey Island Levee Raising and Widening from Stations 333+00 to 470+00	The project entails raising and widening a levee section on Jersey Island from Station 333+00 to 470+00 for levee stability to prevent flooding of the island.	Reclamation District 830
Beacon West Arsenic Replacement Well	Beacon West Well serves a Disadvantaged Community of approximately 22 homes and has Arsenic levels of more than double the current Primary Drinking Water Standards. This project would be for the construction of a new well into an aquifer with water having Arsenic levels that are below the Primary Drinking water standards. In September 2009, Diablo Water District received a Non Compliance Order from the Contra Costa County Department of Environmental Health, for exceeding the arsenic MCL in the Disadvantaged Community's supply well. Since that time Diablo Water District has been working to find funding to help this community come into compliance with the drinking water standards.	Diablo Water District
Watershed and Habitat Protection/Restoration	This project will be implemented by the East Contra Costa County Habitat Conservancy as part of the implementation to the HCP/NCCP. The proposed project will have 3 primary tasks: Land acquisition, Habitat Restoration Design, and Construction. Land acquisition will occur in pre-identified priority areas in eastern Contra Costa County. The project will include primarily creek, pond or wetland habitats. The specific project/acquisition that the funding will be used for depends on the timing of the award. The location of this project could be exclusively in the ECCC IRWMP area, or in the area of overlap with the SF Bay Area IRWMP.	East Contra Costa County Habitat Conservancy
Ironhouse Sanitary District Recycled Water Implementation - Phase C	The project involves installation of 33,000 feet of 12-inch, 8-inch and 6-inch recycled water piping along city streets to provide 377 acre-feet per year of recycled water to parks and medians. The project also involves construction of a new recycled water pump station.	Ironhouse Sanitary District
Ironhouse Sanitary District Recycled Water Implementation - Phase B	The project involved installation of 24,600 feet of 12-inch and 6-inch recycled water piping along city streets and ROW's to provide 809 acre-feet per year of recycled water to a proposed power plant, parks, medians, and vineyards. The project also involves construction of a new recycled water pump station.	Ironhouse Sanitary District

Project Name	Description	Sponsoring Agency
Dry Creek Reservoir Seismic Assessment (#211)	The project assesses seismic performance of existing earthfill dam embankments and recommends retrofit improvements, if needed. It includes a two-phase approach: start with hazard assessment, and proceed to more detailed geotechnical analysis if warranted. The dam was constructed in the 1960s and is unlikely to withstand an earthquake by today's more stringent standards. The actual seismic retrofit of the dam, if warranted, is scoped as a separate project.	Contra Costa County Flood Control and Water Conservation District

**Appendix J: September 25, 2012 ECWMA Meeting Agenda,
Sign-in Sheet, and Action Items**



Meeting Agenda

East Contra Costa County IRWM Region

September 25, 2012
ISD Board Room
2:30 PM – 4:00 PM

Meeting Objective: Review IRWM Projects

- 1) Introductions
- 2) Recent DWR News (DWR)
 - a) Final IRWM Guidelines and Round 2 PSPs, to be released November 2012?
 - b) Stormwater grants: January 2013. Implementation grants: March 2013
 - c) Planning Grant Round 2?
- 3) Review Projects (All)
- 4) Round 2 Implementation Grant Application
 - a) Consultant selection
 - b) Cost Share
- 5) Prop 50 Update (CCWD)
- 6) Other Announcements
- 7) Next Meeting: October 10, 2012 at ISD
- 8) Next Steps

From: [Marie Valmores](#)
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Subject: Action Items from 9/25 meeting
Date: Wednesday, September 26, 2012 9:28:00 AM

Dear ECWMA members and interested parties,

At yesterday's meeting we agreed on the following action items and due dates:

9/28/12: due date for project submitters to resubmit projects with modified information

10/5/12: due date for project submitters to email Marie (mvalmores@ccwater.com) with a short list of projects to be submitted for the Prop 84 Implementation Grant, Round 2. Expected due date for this grant proposal is March 2013. Please note that there is only an anticipated \$8.3 million available in our funding area for Round 2 and that there are **12 (twelve)** approved IRWM regions that are eligible to apply for this funding.

Here are the links to the DWR draft guidelines and Implementation Grant Proposal Solicitation Package:

<http://www.water.ca.gov/irwm/guidelines.cfm>

http://www.water.ca.gov/irwm/integregio_implementation.cfm

10/10/12: next ECCC IRWM meeting at ISD, 2 pm (meeting notice to follow).

Thanks,
Marie

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