2015 Guidelines

Integrated Regional Water Management
Implementation Grant Program
Funded by Proposition 84
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The Natural Resources Agency
Department of Water Resources
Division of Integrated Regional Water Management

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FOREWORD

This document contains the California Department of Water Resources' (DWR) Integrated Regional Water Management (IRWM) Grant Program Guidelines for the 2015 IRWM Grant Solicitation. The document establishes the general process, procedures, and criteria that DWR will use to implement the IRWM Implementation Grant Program, funded by Proposition 84 (The Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006).

IRWM Grant Program Websites

DWR will use the internet as a communication tool to notify interested parties of the status of the grant solicitations and to convey pertinent information. Information will be posted at the following website:

http://www.water.ca.gov/irwm/grants/

See Appendix A for other useful web links.

Mailing List

In addition to the above-referenced website, DWR will distribute information via e-mail. If you are not already on the IRWM e-mail distribution list and wish to be placed on it, please visit the following site: http://www.water.ca.gov/irwm/grants/subscribe.cfm.

Points of Contact

For questions about the 2015 IRWM Guidelines or other issues, please contact DWR's Financial Assistance Branch at (916) 651-9613 or by e-mail at DWR_IRWM@water.ca.gov.

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Acronyms And Abbreviations Used In These Guidelines And Appendices

AB	Assembly Bill
ACS	American Community Survey
AWMP	Agriculture Water Management Plan
Basin Plan	Regional Water Quality Control Plan
BMP	Best Management Practice
CAPCOA	California Air Pollution Control Officers Association
CalEPA	California Environmental Protection Agency
CAR	Climate Action Registry
CARB	California Air Resources Board
CASGEM	California Statewide Groundwater Elevation Monitoring
CAT	Climate Action Team
CEC	California Energy Commission
CEDEN	California Environmental Date Exchange Network
CEIC	California Environmental Information Catalog
CEQA	California Environmental Quality Act
CERES	California Environmental Resources Evaluation System
CO_2E	Carbon Dioxide Equivalents
CMU	Compliance Monitoring Unit
CNRA	California Natural Resources Agency
CUWCC	California Urban Water Conservation Council
CWC	California Water Code
CWP	California Water Plan
DAC	Disadvantaged Community
DIR	California Department of Industrial Relations
DMS	Data Management System
DWR	Department of Water Resources
EAD	Expected Annual Damage
EIR	Environnemental Impact Report
EJ	Environmental Justice
EO	Executive Order
GAMA	Groundwater Ambient Monitoring Assessment
GRanTS	Grants Review and Tracking System
GHG	Greenhouse Gas
GIS	Geographic Information System
gpcd	Gallons per Capita per Day
GWMP	Groundwater Management Plan
IRWM	Integrated Regional Water Management
JPA	Joint Powers Authority
LID	Low Impact Development
MCL	Maximum Contaminant Level
MHI	Median Household Income
MOU	Memorandum of Understanding
NEPA	National Environmental Policy Act
NPS	Non-Point Source
O&M	Operation and Maintenance
OPC	Ocean Protection Council
OPR	The Governor's Office of Planning and Research
PRC	Public Resources Code
PSP	Proposal Solicitation Package
RAP	Regional Acceptance Process
RMS	Resource Management Strategies
RWMG	Regional Water Management Group
RWQCB	Regional Water Quality Control Board
SB	Senate Bill
SLR	Sea-Level Rise
SPFC	State Plan of Flood Control
SRF	State Revolving Fund
SWAMP	Surface Water Ambient Monitoring Program
SWFM	Stormwater Flood Management
SWRCB	State Water Resources Control Board
USACE	United States Army Corps of Engineers
USCB	United States Census Bureau
USEPA	United States Environmental Protection Agency
UWMP	Urban Water Management Plan
WDL	Water Data Library
WRI	World Resources Institute
WUEB	Water Use and Efficiency Branch

INTEGRATED REGIONAL WATER MANAGEMENT GRANT PROGRAM GUIDELINES

I. PURPOSE AND USE

The purpose of these guidelines is to establish the general process, procedures, and criteria that DWR will use to implement the 2015 IRWM Grant Solicitation. These guidelines include acceptance of IRWM regions into the grant program; IRWM Plan standards and guidance; solicitation, submittal, and review of grant applications; and award of grant funding. The separate, but related, Proposal Solicitation Package (PSP) contains detailed information on how to apply. The IRWM Grant Program contains three main component programs – IRWM Planning Grants, IRWM Implementation Grants, and SWFM grants. The Planning and Stormwater grant programs have fully allocated funds from available funding sources. The PSP for this specific grant solicitation can be downloaded from the DWR website listed in the Foreword.

II. INTRODUCTION AND OVERVIEW

The IRWM Grant Program is designed to encourage integrated regional strategies for management of water resources and to provide funding for implementation projects that support integrated water management. The 2015 IRWM Guidelines are an updated version of the 2014 IRWM Drought Program Guidelines. The 2015 IRWM Guidelines reflect the requirements of the 2015 IRWM Grant Solicitation. Additional changes may be necessary due to legislation or changes in State water management policy. If additional changes are necessary, these guidelines will be amended and subject to a public review process per California Water Code (CWC) §10541.

The intent for the 2015 IRWM Grant Solicitation is to keep the number of changes between the 2015 and the 2014 Guidelines to a minimum. The following highlights the significant changes that have been made:

- Section II. Introduction and Overview: addition – AB 52 requirements
- Section III. B. Eligibility Criteria: addition – projects with direct water-related benefits to a DAC are not required to be included in an adopted IRWM Plan as long as the project is consistent with the Plan's objectives
- Section III. B. Eligibility Criteria: revision – groundwater management plan (GWMP) compliance
- Section III. B. Eligibility Criteria: addition – SBx7-7 Sustainable Water Use and Demand Reduction requirements
- Section III. C. Eligible Project Type: removal – the limitation of fund to only the four Drought Project Elements from the 2014 Drought Legislation
- Appendix G. Disadvantaged Communities: revision – various, including: update of DAC threshold values, additional DAC waiver guidance, and modification to Table 9 – Critical Water Supply or Water Quality Need Program Preference Project Examples

The following legislations are the basis of the guidelines:

- Public Resources Code (PRC) §75026 *et seq.* (Proposition 84)
- Senate Bill (SB) x2-1 (Perata, Statutes of 2008) – CWC §10530 *et seq*. – repealed and replaced the 2002 Integrated Regional Water Planning Act and appropriated a portion of the Proposition 84 IRWM funding and Proposition 1E SWFM funding
- Assembly Bill (AB) 739 (Laird, Chapter 610, Statutes of 2007) – consultation with State Water Resources Control Board (SWRCB) and identification of SWFM preferences

- SB 732 (Steinberg, Chapter 729, Statutes of 2008) – PRC §75100 and PRC §75102 – requiring new grant solicitation for each funding cycle and tribal notification
- SB 790 (Pavely, Chapter 620, Statutes of 2009) – stormwater resource planning as part of IRWM planning
- CWC §525 – water meter installation as a condition of receiving a water management grant
- CWC §10610 – Urban Water Management Plans (UWMP)
- AB 1420 (Laird, Chapter 628, Statutes of 2007) – CWC §10631.5 – implementation of demand management measures as a condition of receiving a water management grant
- SBx7-6 (Steinberg, Chapter 1, Statutes of 2009) – groundwater elevation monitoring as a condition of receiving a water management grant
- SBx7-1 (Simitian, Chapter 5, Statutes of 2009-10 Seventh Extraordinary Session) – policy of the State of California is to reduce reliance on the Sacramento-San Joaquin Delta in meeting California's future water supply (Public Resources Code §85021)
- SBx7-7 (Steinberg, Chapter 7, Statutes of 2009-10 Seventh Extraordinary Session) – CWC §10608.56 – On and after July 1, 2013, an agricultural water supplier is not eligible for a water grant or loan awarded or administered by the State unless the supplier complies with water conservation requirements outlined in Part 2.55 (commencing with §10608) of Division 6 of the CWC.
- SBx7-8 (Steinberg, Chapter 2, Statutes of 2009-10 Seventh Extraordinary Session) – CWC §5103 – On and after January 1, 2012, a diverter of surface water is not eligible for a water grant or loan awarded or administered by the State unless it complies with surface water diversion reporting requirements outlined in Part 5.1 (commencing with §5100) of Division 2 of the CWC.
- AB 685 (Eng, Chapter 524, Statutes of 2012) – Establishes State Policy that every human being has that right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes.
- SB 104 (Committee on Budget and Fiscal Review, Chapter 3, Statutes of 2014) – appropriates remainder of Proposition 84 funding.
- AB 52 (Gatto, Chapter 532, Statutes of 2014) – the bill, which takes effect July 1, 2015, requires the California Environmental Quality Act (CEQA) lead agency to consider project effects on tribal cultural resources and to conduct consultation with California Native American tribes.
- AB 1739 (Dickinson, Chapter 347, Statutes of 2014), SB 1168 (Pavely, Chapter 346), SB 1319 (Pavely, Chapter 348) collectively referred to as the Sustainable Groundwater Management Act.

A. Usage of Terms

To foster understanding and clarity DWR will use the following terms consistently in these guidelines:

- "Project Proponent" means the entity that has primary responsibility for a specific project within the grant proposal. Project proponents receive grant funds through their relationship with the grant applicant. Project proponents can be those entities defined in CWC §10541(g). For grant solicitations where there is a single project the project proponent and the applicant can be the same entity.
- "Proposal" refers to a project or suite of projects and actions that are proposed for funding.
- "Project" refers to an individual effort included in the Proposal that may be construction of physical facilities or implementation of non-structural actions.
- "Funding Source" refers to the bond measure providing funding.

B. Funding

The IRWM Grant Program manages General Obligation Bond funds from various sources, including the following fund:

- Proposition 84, the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006, which was passed by California voters in November 2006. Proposition 84 amended the PRC to add among other articles, Section 75026 *et seq*., authorizing the Legislature to appropriate $1,000,000,000 for IRWM projects that assist local public agencies to meet the long term water needs of the State including the delivery of safe drinking water and the protection of water quality and the environment.
- Of that $1,000,000,000, $900,000,000, referred to as "regional funding", was allocated to 11 hydrologic regions and sub-regions or "funding areas", as shown in Figure 1. The remaining $100,000,000, referred to as "inter-regional funding", was allocated to address multi-regional needs or issues of Statewide significance. Proposition 84 authorizes DWR to either expend directly or grant the inter-regional funds.

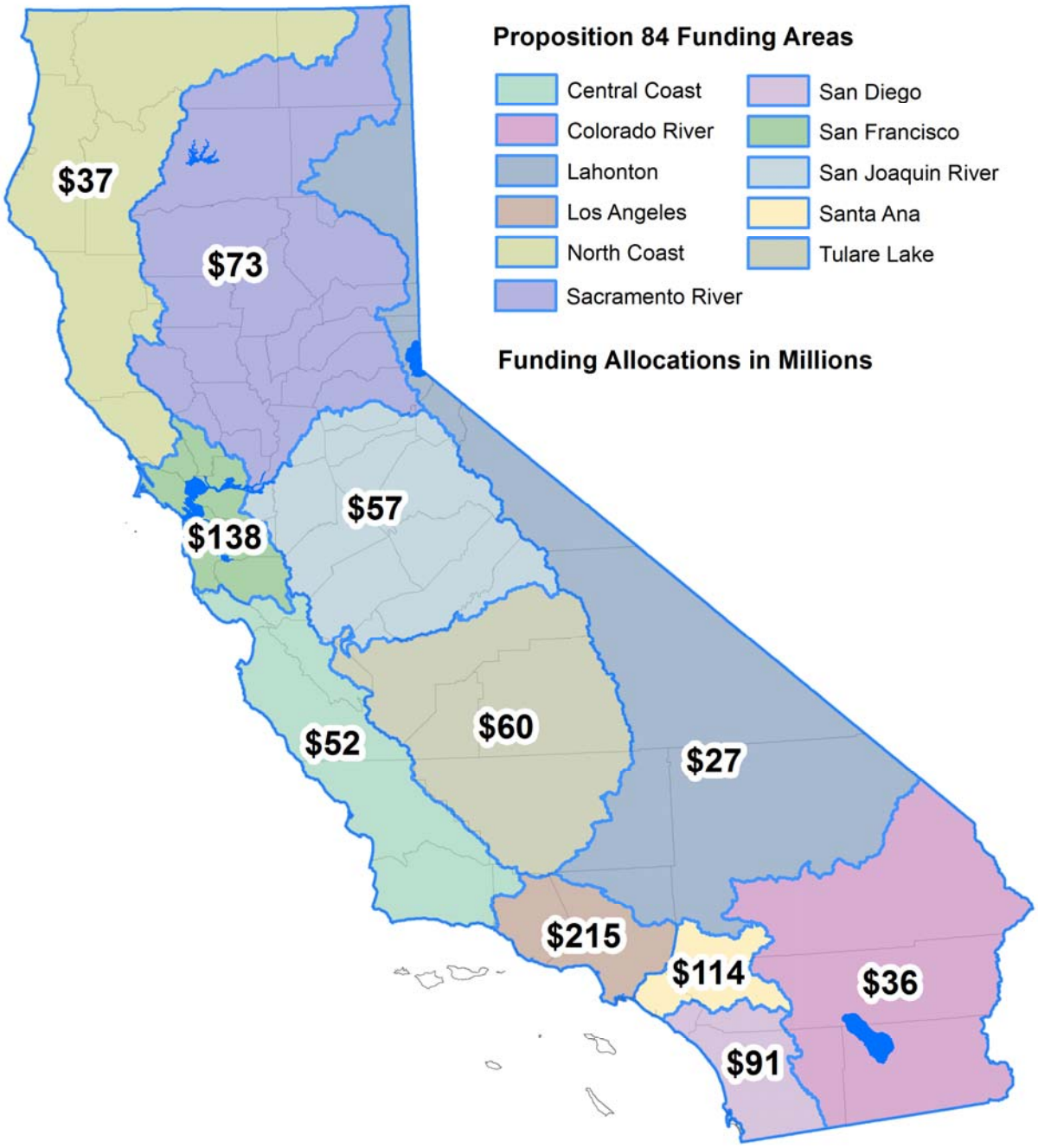
Prior appropriations have directed inter-regional funding to specific actions and to support various grant programs. Proposition 1E also had funds directed to a specific SWFM project. DWR will administer these funds consistent with the appropriation. Directed expenditures are anticipated to include funding to support the following actions: 1) assist DWR in determining ways to improve disadvantaged community (DAC) participation through a DAC Assistance Pilot Program; 2) support specific actions named in an appropriation, including actions to support the Colorado River Quantification Settlement Agreement; DAC actions in the Tulare Basin; and Delta Interties; 3) to support and advance regional planning, including technical assistance contracts; 4) support of specific financial assistance actions, the Local Groundwater Assistance and the Bay-Delta Science grant programs; and 5) support for development of the Delta Plan by the Delta Stewardship Council. Detailed information on bond fund allocations can be found at the following websites:

http://bondaccountability.resources.ca.gov/p84.aspx

http://bondaccountability.resources.ca.gov/p1e.aspx

Information on prior grant awards for the IRWM Planning Grants, IRWM Implementation Grants, and SWMF Grants can be found at the website listed in the Foreword.

Figure 1 – Proposition 84 Funding Area Allocations



C. Region Acceptance Process

CWC §10541(f) states the guidelines shall include a standard for identifying a region for the purpose of developing and modifying an IRWM Plan, and DWR shall develop a process to approve the composition of a region for the purposes of sections 75026 – 75028 of the PRC. DWR developed the Region Acceptance Process (RAP) to approve region composition for the purpose of developing or modifying an IRWM Plan. The RAP is described in further detail in Appendix F. Through the RAP, IRWM planning regions are accepted into the IRWM Grant program. IRWM planning regions can then apply for IRWM Grants subject to conditions on the acceptance through the RAP and the criteria and review process set up for each funding cycle. RAP decisions are located at:

http://www.water.ca.gov/irwm/grants/rap.cfm

D. Maximum Grant Amount

The Proposition 84 IRWM Implementation Grant maximum award will vary for each solicitation and will be outlined in each PSP. The maximum grant amount of regional funds to be awarded to an individual funding area will not exceed the allocation schedule in PCR §75027(a), see Figure 1. Additionally, as required by PRC §75028(b), funding from one funding area will not be reallocated to another funding area.

E. Minimum Funding Match Requirements

Definition of "Funding Match" can be found in Appendix B. For proposals containing multiple projects, the funding match is based on the total cost of the proposal. Funding match may include, but is not limited to, federal funds, local funding, or donated services from non-State sources.

For Proposition 84 IRWM Implementation Grants, the minimum funding match is 25%. For DACs, funding match may be waived. Refer to the PSP for more information regarding funding match waiver.

F. Program Preferences

PRC §75026.(b) and CWC §10544 state that preference shall be given to Proposals that:

- Include regional projects or programs (CWC §10544)
- Effectively integrate water management programs and projects within a hydrologic region identified in the California Water Plan; the Regional Water Quality Control Board (RWQCB) region or subdivision; or other region or sub-region specifically identified by DWR
- Effectively resolve significant water-related conflicts within or between regions
- Contribute to attainment of one or more of the objectives of the CALFED Bay-Delta Program
- Address critical water supply or water quality needs of DACs within the region
- Effectively integrate water management with land use planning
- Are part of an IRWM Plan that helps the region reduce reliance on the Sacramento-San Joaquin Delta for water supply (for IRWM regions that receive water from the Sacramento-San Joaquin Delta)
- Address statewide priorities (Table 1 establishes the specific Statewide Priorities for the IRWM Grant Program.)

Table 1 – Statewide Priorities		
Statewide Priority	**Description**	**Source**
Drought Preparedness	Proposals that contain projects that effectively address long-term drought preparedness by contributing to sustainable water supply and reliability during water shortages. Drought preparedness projects do not include drought emergency response actions, such as trucking of water or lowering well intakes. Desirable proposals will achieve one or more of the following: • Promote water conservation, conjunctive use, reuse and recycling • Improve landscape and agricultural irrigation efficiencies • Achieve long term reduction of water use • Efficient groundwater basin management • Establish system interties	• California Water Plan (CWP) Update 2013 • California Water Action Plan • Governor's Drought Declaration, January 2014
Use and Reuse Water More Efficiently	Proposals that include projects that implement water use efficiency, water conservation, recycling and reuse to help meet future water demands, increase water supply reliability, and adapt to climate change. Desirable proposals include those with projects that: • Increase urban and agricultural water use efficiency measures such as conservation and recycling • Capture, store, treat, and use urban stormwater runoff (such as percolation to usable aquifers, underground storage beneath parks, small surface basins, domestic stormwater capture systems, or creation of catch basins or sumps downhill of development) or projects outlined in PRC §30916 (SB 790) • Incorporate and implement low impact development (LID) design features, techniques, and practices to reduce or eliminate stormwater runoff • Improve the water supply reliability of the Sacramento-San Joaquin Delta • Reduce reliance on the Sacramento-San Joaquin Delta in meeting water supply needs. • Implement an expanded water supply reliability element consistent with adopted urban or agriculture water management plans and the IRWM plan.	• CWP Update 2013 • SWRCB Recycled Water Policy • DWR Sustainability Policy • CWC §10540, 10560 • California Water Action Plan • Delta Plan WR-R7
Climate Change Response Actions	Water Management actions that will address the key Climate Change issues of: • Assessment of Vulnerabilities as a Result of Climate Change • Adaptation to Climate Change • Reduction of Greenhouse Gas (GHG) Emissions • Reduce Energy Consumption Proposals that contain projects that when implemented address adaptation to climate change effects in an IRWM region. Desirable proposals include those that: • Advance and expand conjunctive management of multiple water supply sources • Use and reuse water more efficiently • Water management system modifications that address anticipated climate change impacts, such as rising sea-level, and which may include modifications or relocations of intakes or outfalls • Establish migration corridors, re-establish river-floodplain hydrologic continuity, re-introduce anadromous fish populations to upper watersheds, and enhance and protect upper watershed forests and meadow systems Proposals that contain projects that reduce GHG emissions compared to alternate projects that achieve similar water management contributions toward IRWM objectives. Desirable proposals include those that: • Reduce energy consumption of water systems and uses • Use cleaner energy sources to move and treat water Proposals that contain projects that reduce not only water demand but wastewater loads as well, and can reduce energy demand and GHG emissions. Desirable proposals include: • Water use efficiency • Water recycling • Water system energy efficiency • Reuse runoff	• CWP Update 2013 • CHSC §38500 • Managing an Uncertain Future, DWR October 2008 • California Water Action Plan

Table 1 – Statewide Priorities		
Statewide Priority	Description	Source
Expand Environmental Stewardship	Proposals that contain projects that practice, promote, improve, and expand environmental stewardship to protect and enhance the environment by improving watersheds, floodplains, and instream functions, and to sustain water and flood management ecosystems. Also, proposals that contain projects that protect, restore, and enhance the Delta ecosystem	• CWP Update 2013 • DWR Environmental Stewardship Policy • Delta Reform Act 2009 • California Water Action Plan
Practice Integrated Flood Management	Proposals that contain projects that promote and practice integrated flood management to provide multiple benefits including: • Better emergency preparedness and response • Improved flood protection • More sustainable flood and water management systems • Enhanced floodplain ecosystems • LID techniques that store and infiltrate runoff while protecting groundwater	• CWP Update 2013 • California Water Action Plan
Protect Surface Water and Groundwater Quality	Proposals that include: • Protecting and restoring surface water and groundwater quality to safeguard public and environmental health and secure water supplies for beneficial uses • Salt/nutrient management planning as a component of an IRWM Plan • Access of safe drinking water to small DACs, for areas that have been identified as nitrate high risk areas.	• SWRCB Recycled Water Policy • SWRCB Nitrate Report
Improve Tribal Water and Natural Resources	Proposals that include the development of Tribal consultation, collaboration, and access to funding for water programs and projects to better sustain Tribal water and natural resources.	• CWP Update 2013
Ensure Equitable Distribution of Benefits	Proposals that: • Increase the participation of small and disadvantaged communities in the IRWM process, including DAC capacity to identify, develop, and design projects critical to their communities. . • Develop multi-benefit projects with consideration of affected disadvantaged communities and vulnerable populations • Contain projects that address safe drinking water and wastewater treatment needs of DACs • Address and consider the Human Right to Water needs within the region • Address critical water supply or water quality needs of California Native American Tribes within the region • Provide access to safe, clean, and affordable water, adequate for human consumption, cooking and sanitary purposes.	• CWP Update 2013 • CWC § 106.3 • California Water Action Plan

These program preferences are reflected in the scoring criteria and will be taken into consideration during the review process. Appendix A includes a listing of web links for accessing additional information on the Program Preferences.

G. Competition

IRWM Grants are awarded on a competitive basis using specific criteria contained in the PSP. For the 2015 Grant Solicitation, DWR will make funding decisions based on overall application scores and the statewide drought impacts and need. In order to ensure wise investments of State general obligation bond funds, minimum scores for various criteria may be implemented to ensure that quality proposals are awarded funding.

III. Eligibility Requirements

A. Eligible Grant Applicants

Eligible grant applicants are local public agencies and non-profit organizations, as defined in Appendix B. Federally recognized Tribes can be members of a Joint Powers Agreement (JPA), per Government Code §6500 *et seq*.

For the IRWM Implementation Grant Program, the grant applicant is the agency submitting an application on behalf of an IRWM region. The grant applicant is also the agency that would enter into an agreement with the State, should the application be successful. Tribes, partner entities, or IRWM stakeholders, as defined in CWC §10541(g), may be part of the proposal as a project proponent and access grant funding through their relationship with the applicant, at DWR's discretion.

B. Eligibility Criteria

Applications for IRWM grants must meet all relevant eligibility criteria, listed below, in order to be considered for funding. Additional eligibility criteria may be applicable to specific appropriations of funding. Such appropriation specific elements will be found in the PSP.

- **The IRWM region must have been accepted into the IRWM Grant program through the RAP.** RAP decisions are located at: http://www.water.ca.gov/irwm/grants/rap.cfm.
- **Projects included in an IRWM Implementation proposal must be consistent with an adopted IRWM Plan.** Therefore, implementation projects submitted for funding must be included in an adopted IRWM Plan. Projects that provide a direct water-related benefit to a DAC are not required to be included in an adopted IRWM Plan. However, such projects must be consistent with the IRWM Plan objectives to be eligible for funding. This exception is to encourage assistance for DACs, especially those DACs who do not have fully developed projects to push forward for funding. Therefore, the types of eligible water-related DAC projects can include project development activities including, but not limited to, project scoping, planning, feasibility studies, and preliminary design.
- **Proponents of projects included in an IRWM Implementation proposal must adopt the IRWM Plan.** Umbrella organizations, such as a JPA, will not be allowed to adopt an IRWM Plan on behalf of its member agencies. Each individual agency proposing a project(s) must adopt the IRWM Plan. If an IRWM region is in the process of updating its IRWM Plan, Project Proponents from that region do not need to adopt the existing Plan, but will be required to adopt the updated plan. "Adoption" is defined in Appendix B.
- **Groundwater Management Plan (GWMP) Compliance.** For groundwater projects or for other projects that directly affect groundwater levels or quality, the applicant or the project proponent responsible for such projects must self-certify that either:
  - They have prepared and implemented a GWMP in compliance with CWC §10753.7;
  - They participate or consent to be subject to a GWMP, basin-wide management plan, or other IRWM program or plan that meets the requirements of CWC §10753.7(a);
  - They conform to the requirements of an adjudication of water rights in the subject groundwater basin; or
  - Their project is located in a low or very low priority groundwater basin and the Proposal include the development of a GWMP that meets the requirements of CWC §10753.7 and will be completed within 1-year of the grant application submittal date.

  Please note that projects located in a high or medium priority groundwater basin without an adopted GWMP before January 1, 2015 are not eligible (CWC §10750.1.(a)).
- **Urban Water Management Planning Act Compliance.** Water suppliers who were required by the Urban Water Management Planning Act (CWC §10610 *et seq*.) to submit an Urban Water Management Plan

(UWMP) to DWR must have submitted a complete UWMP to be eligible for IRWM Grant Program funding. Applicants and project proponents that are urban water suppliers and have projects that would receive funding through the IRWM Grant program must have a 2010 UWMP that has been verified as complete by DWR before a grant agreement will be executed. *Note to Urban Water Suppliers: The 2015 UWMPs are due to be submitted to DWR by July 1, 2016.*

- **Agriculture Water Management Plan Compliance.** Beginning July 1, 2013, an agricultural water supplier is not eligible for a water grant or loan awarded or administered by the State unless the supplier complies with SBx7-7 water conservation requirements outlined in Part 2.55 (commencing with §10608) of Division 6 of the CWC, which, among other items, requires that submittal of an Agricultural Water Management Plan (AWMP). *Note to Agricultural Water Suppliers: The 2015 AWMPs are due to be submitted to DWR by December 31, 2015.*

- **Surface Water Diversion Reporting Compliance.** A diverter of surface water is not eligible for a water grant or loan awarded or administered by the State unless it complies with surface water diversion reporting requirements outlined in Part 5.1 (commencing with §5100) of Division 2 of the CWC.

- **AB 1420 Compliance.** AB 1420 (Stats. 2007, Chapter 628) conditions the receipt of a water management grant or loan, for urban water suppliers, on the implementation of water demand management measures described in CWC §10631. DWR has determined that implementation of the California Urban Water Conservation Council (CUWCC) best management practices (BMPs) will fulfill the requirements of AB 1420. An urban water supplier may be eligible for a water management grant or loan if it demonstrates that it has implemented or scheduled, or is in the process of implementing or scheduling the implementation of BMPs. Urban water suppliers applying to use grant funds for implementation of BMPs must ensure they have submitted all the necessary information. Therefore, urban water suppliers who are applicants or project proponents in a grant application for either IRWM Implementation grants must supply additional information which can found at the following link: http://www.water.ca.gov/wateruseefficiency/finance.

- **SBx7-7 Compliance.** Sustainable Water Use and Demand Reduction (CWC 10608 *et seq*.). SBx7-7 conditions the receipt of a water management grant or loan for urban water suppliers on Gallons per Capita per Day (gpcd) reduction targets with the end goal of a 20% gpcd reduction by 2020. Programs may follow AB1420 compliance until the bill terminates on June 30 2016 then switch to SBx7-7 compliance July 1 2016.

- **CWC §529.5 Compliance.** CWC §529.5 requires any urban water supplier applying for State grant funds for wastewater treatment projects, water use efficiency projects, drinking water treatment projects, or for a permit for a new or expanded water supply, shall demonstrate that they meet the water meter requirements in CWC §525 *et seq*.

- **CWC §10920 Compliance.** CWC §10920 et seq. establishes a groundwater monitoring program designed to monitor and report groundwater elevations in all or part of a basin or sub-basin. Information on the requirements of the California Statewide Groundwater Elevation Monitoring (CASGEM) Program can be found here: http://www.water.ca.gov/groundwater/casgem/. DWR has established high, medium, low, and very low priority groundwater basins, as well as CASGEM monitoring entities. For those high and medium priority basins that do not have a CASGEM monitoring entity, the grant applicant and project proponent that match the list of potential monitoring entities identified in CWC §10927, along with counties whose jurisdictions include unmonitored high and medium priority basins, will not be eligible for an IRWM grant award pursuant to CWC §10933.7(a). If the applicant is found ineligible, the entire application will be considered ineligible. If the project proponent is found ineligible funding cannot be awarded to that project and the grant award will be proportionately reduced. Consistent with CWC §10933.7(b), if the entire service area of the grant applicant or the individual project proponent's service area is demonstrated to be a DAC, as defined in the 2015 IRWM Guidelines, Appendix B, the project will be considered eligible for grant funding notwithstanding CASGEM compliance.

C. Eligible Project Types

Eligible projects must yield multiple benefits; and include one or more of the following elements (PRC §75026.(a)) as other benefit(s):

- Water supply reliability, water conservation, and water use efficiency
- Stormwater capture, storage, clean-up, treatment, and management
- Removal of invasive non-native species, the creation and enhancement of wetlands, and the acquisition, protection, and restoration of open space and watershed lands
- Non-point source pollution reduction, management, and monitoring
- Groundwater recharge and management projects
- Contaminant and salt removal through reclamation, desalting, and other treatment technologies and conveyance of reclaimed water for distribution to users
- Water banking, exchange, reclamation, and improvement of water quality
- Planning and implementation of multipurpose flood management programs
- Watershed protection and management
- Drinking water treatment and distribution
- Ecosystem and fisheries restoration and protection

Additional factors may affect eligible project types include funding source, DAC status, and BMP implementation. Nuances to eligible project type are documented in the PSP for a solicitation. As an IRWM region considers projects to include in a proposal, they need to consider the project eligibility as discussed here as well as the proposal solicitation package.

Funding Projects in Adjacent Funding Areas

Because Proposition 84 allotted funds by funding area, DWR will default to project location in determining which fund allotment is applied to which project. In some cases, an IRWM region may choose to propose to use grant funds allocated to its funding area to perform work in another funding area. This is allowable, but the applicant must include in their proposal:

- Clear explanation of how the project contributes directly to the objectives of their IRWM Plan
- Description of the Regional Water Management Group's (RWMG's) efforts to cooperate on planning and implementation
- Description of the level of support for the project from both IRWM regions

IV. General Program Requirements

A. IRWM Plan Standards

IRWM Plan Standards are used to describe what must be in an IRWM Plan and can be used as criteria in Implementation Grant applications. Applicants should refer to the PSP for the specific function of the IRWM Plan Standards in each grant solicitation. The IRWM Plan Standards discuss specific aspects that must be part of an IRWM Plan. However, RWMGs are encouraged to pay attention to three concepts when incorporating plan standards into their IRWM plans:

1. **Ahwahnee Water Principles.** IRWM planning is planning that is not focused on a single use of a resource, but seeks to manage that resource based on all the ways that the resource can be used. As exhibited by the

IRWM Plan Standards, many aspects of IRWM planning reflect the Ahwahnee Water Principles, http://www.lgc.org/ahwahnee/h2o_principles.html. Commonalities between IRWM planning and the Ahwahnee Water Principles include multi-agency collaboration, stakeholder involvement and collaboration, regional approaches to water management, water management involvement in land use decisions, and project monitoring to evaluate results of current practices. Although IRWM Plan Standards can be seen as very separate and distinct items, RWMGs should be aware of the broader overarching shift to resource planning as presented in the Ahwahnee Water Principles and the practice of IRWM planning as opposed to single planning purpose (i.e. water supply, wastewater, or watershed function).

2. **Flood Management.** Flood management should be integrated into IRWM Plans similarly to other types of water management. Integrating flood management into a regional plan, as appropriate, may increase the ways a RWMG can achieve its IRWM Plan objectives.
3. **IRWM Plan Outline.** The IRWM Plan Standards are intended to ensure IRWM Plans include specific content. Although the IRWM Plan Standards name specific topics, explanations, and descriptions, these do not necessarily constitute an outline of an IRWM Plan. An IRWM Plan can be written in a format that is logical for the IRWM region. The IRWM Plan can use different titles to sections than those offered in these standards. What is important is that IRWM plans contain the proper contents that ensure effective, implementable planning.

Guidance, including the intent of each standard and additional reference, can be found in Appendix C. The IRWM Plan Standards are as follows:

Table 2 – IRWM Plan Standards	
• Governance • Region Description • Objectives • Resource Management Strategies (RMS) • Integration • Project Review Process • Impact and Benefit • Plan Performance and Monitoring	• Data Management • Finance • Technical Analysis • Relation to Local Water Planning • Relation to Local Land Use Planning • Stakeholder Involvement • Coordination • Climate Change

1. *Governance*

The IRWM Plan must document a governance structure that ensures the IRWM Plan will be updated and implemented beyond existing State grant programs. The IRWM Plan must include:

- The name of the RWMG responsible for development and implementation of the Plan. A RWMG must meet the definition of CWC §10539, which states:

  "RWMG means a group in which three or more local agencies, at least two of which have statutory authority over water supply or water management, as well as those other persons who may be necessary for the development and implementation of a plan that meets the requirements of CWC §10540 and §10541, participate by means of a joint powers agreement, Memorandum of Understanding (MOU), or other written agreement, as appropriate, that is approved by the governing bodies of those local agencies."

  The IRWM Plan must include a description of the RWMG and explain how the makeup of the RWMG meets CWC §10539 and is sufficient in breadth of membership and participation to develop and implement the IRWM Plan.

- The RWMG and individual project proponents who adopted the Plan
- A description of the IRWM governance structure

- A description of how the chosen form of governance addresses and ensures the following:
  - Public outreach and involvement processes
  - Effective decision making
  - Balanced access and opportunity for participation in the IRWM process
  - Effective communication – both internal and external to the IRWM region
  - Long term implementation of the IRWM Plan
  - Coordination with neighboring IRWM efforts and State and federal agencies
  - The collaborative process(es) used to establish plan objectives
  - How interim changes and formal changes to the IRWM Plan will be performed
  - Updating or amending the IRWM Plan

2. Region Description

An IRWM Plan must include a description of the region being managed by the RWMG. This description should include a comprehensive inclusion of the following:

- A description of the watersheds and the water systems, natural and anthropogenic (i.e. "man-made"), including major water-related infrastructure, flood management infrastructure, and major land-use divisions. Also include a description of the quality and quantity of water resources within the region (i.e. surface waters, groundwater, reclaimed water, imported water, and desalinated water). As relevant, describe areas and species of special biological significance and other sensitive habitats, such as marine protected areas and impaired water bodies within the region.
- A description of internal boundaries within the region including the boundaries of municipalities, service areas of individual water, wastewater, flood control districts, and land use agencies. The description should also include those not involved in the Plan (i.e. groundwater basin boundaries, watershed boundaries, county, State, and international boundaries).
- A description of water supplies and demands for a minimum 20-year planning horizon. Include a discussion of important ecological processes and environmental resources within the regional boundaries and the associated water demands to support environmental needs. This includes a description of the potential effects of climate change on the region.
- A descriptive comparison of current and future (or proposed) water quality conditions in the region. Describe any water quality protection and improvement needs or requirements within the area of the Plan.
- A description of the social and cultural makeup of the regional community. Identify important cultural or social values. Identify DACs in the management area. Describe economic conditions and important economic trends within the region. Describe efforts to effectively involve and collaborate with Tribal government representatives to better sustain Tribal and regional water and natural resources (if applicable).
- A description of major water-related objectives and conflicts in the defined management region, including clear identification of problems within the region that lead to the development of the objectives, implementation strategies, and implementation projects intended to provide resolution.
- An explanation of how the IRWM regional boundary was determined and why the region is an appropriate area for IRWM planning.
- Identification of neighboring and/or overlapping IRWM efforts (if any) and an explanation of the planned/working relationship that promotes cooperation and coordination between regions.

- For IRWM regions that receive water supplied from the Sacramento-San Joaquin Delta, an explanation of how plan will help reduce dependence on the Sacramento-San Joaquin Delta for water supply (SB 855 (Committee on Budgets), Section 31.(c)(1)).

3. Objectives

The IRWM Plan must clearly present plan objectives and describe the process used to develop the objectives. Plan objectives must address major water-related issues and conflicts of the region. In addition, objectives must be measurable by some practical means so achievement of objectives can be monitored. The objectives may be prioritized for the region. The IRWM Plan must contain an explanation of the prioritization or reason why the objectives are not prioritized.

4. Resource Management Strategies

The IRWM Plan must document the range of RMS considered to meet the IRWM objectives and identify which RMS were incorporated into the IRWM Plan. The effects of climate change on the IRWM region must factor into the consideration of RMS. RMS to be considered must at least include the RMS found in Volume 2 of the CWP Update 2009. DWR finalized the CWP Update 2013 in October 2014. Consideration of RMS presented in Update 2013 is not required for the 2015 solicitation.

5. Integration

An IRWM Plan must contain structures and processes that provide opportunities to develop and foster integration.

6. Project Review Process

The IRWM Plan must contain a process or processes to select projects for inclusion in the IRWM Plan. The selection process(es) must include the following components:

- Procedures for submitting a project to the RWMG
- Procedures for review of projects considered for inclusion into the IRWM Plan. These procedures must, at a minimum, consider the following factors:
  - How the project contributes to the IRWM Plan objectives
  - How the project is related to resource management strategies selected for use in the IRWM Plan
  - Technical feasibility of the project
  - Specific benefits to DAC water issues
  - Environmental Justice (EJ) considerations
  - Project costs and financing
  - Economic feasibility, including water quality and water supply benefits and other expected benefits and costs
  - Project status
  - Strategic considerations for IRWM Plan implementation
  - Contribution of the project in adapting to the effects of climate change in the region
  - Contribution of the project in reducing GHG emissions as compared to project alternatives
  - Whether the project proponent has adopted or will adopt the IRWM Plan
  - For IRWM regions that receive water supplied from the Sacramento-San Joaquin Delta, how the project or program will help reduce dependence on the Sacramento-San Joaquin Delta for water supply
- Procedures for displaying the list(s) of selected projects

Review factors must be evaluated for each project and compared for all projects in a systematic manner. The results should be used to promote and prioritize projects in the selection process, while keeping in consideration the unique goals and objectives of the IRWM Region.

7. Impact and Benefit

The IRWM Plan must contain a discussion of potential impacts and benefits of Plan implementation. This discussion must include both impacts and benefits within the IRWM Region, between regions, and those directly affecting DAC, EJ related concerns, and Native American Tribal communities.

8. Plan Performance and Monitoring

The IRWM Plan shall contain performance measures and monitoring methods to ensure the objectives of the Plan are met. Therefore, the IRWM Plan must describe a method for evaluating and monitoring the RWMG's ability to meet the objectives and implement the projects in the IRWM Plan.

9. Data Management

The IRWM Plan must describe the process of data collection, storage, and dissemination to IRWM participants, stakeholders, the public, and the State. Data in this standard may include, but is not limited to technical information such as designs, feasibility studies, reports, and information gathered for a specific project in any phase of development including the planning, design, construction, operation, and monitoring of a project.

10. Finance

The IRWM Plan must include a plan for implementation and financing of identified projects and programs (CWC §10541.(e)(8)). The IRWM Plan must also identify and explain potential financing for implementation of the IRWM Plan. The financing discussion must, at a minimum, include the following items:

- List known, as well as, possible funding sources, programs, and grant opportunities for the development and ongoing funding of the IRWM Plan.
- List the funding mechanisms, including water enterprise funds, rate structures, and private financing options, for projects that implement the IRWM Plan.
- An explanation of the certainty and longevity of known or potential funding for the IRWM Plan and projects that implement the Plan.
- An explanation of how operation and maintenance (O&M) costs for projects that implement the IRWM Plan would be covered and the certainty of operation and maintenance funding.

11. Technical Analysis

The IRWM Plan must document the data and technical analyses that were used in the development of the Plan.

12. Relation to Local Water Planning

The IRWM Plan must document the local water planning documents on which it is based including:

- A list of local water plans used in the IRWM Plan.
- A discussion of how the IRWM Plan relates to planning documents and programs established by local agencies.
- A description of the dynamics between the IRWM Plan and local planning documents.

13. Relation to Local Land Use Planning

IRWM Plans must contain processes that foster communication between land use managers and RWMGs with the intent of effectively integrating water management and land use planning. IRWM Plans must document:

- Current relationship between local land use planning, regional water issues, and water management objectives.
- Future plans to further a collaborative, proactive relationship between land use planners and water managers.

14. *Native American Tribes and Stakeholder Involvement*

The IRWM Plan must contain the following items:

- A public process that provides outreach and an opportunity to participate in IRWM Plan development and implementation to the appropriate local agencies and stakeholders, as applicable to the region, including the following:
  - Native American tribes – It should be noted that tribes are sovereign nations, and as such coordination with tribes is on a government-to-government basis.
  - Wholesale and retail water purveyors
  - Wastewater agencies
  - Flood control agencies (including those agencies who submit applications for Proposition 1E funded SWFM Grants)
  - Municipal and county governments and special districts
  - Electrical corporations
  - Self-supplied water users
  - Environmental stewardship organizations
  - Community organizations
  - Industry organizations
  - State, federal, and regional agencies or universities
  - DAC members
  - Any other interested group appropriate to the region
- The process used to identify, inform, invite, and involve stakeholder groups in the IRWM process, including mechanisms and processes that have been or will be used to facilitate stakeholder involvement and communication during development and implementation of the IRWM Plan.
- A discussion on how the RWMG will endeavor to involve DACs and Native American Tribal communities in the IRWM planning effort.
- A description of the decision making process including IRWM committees, roles, or positions that stakeholders can occupy and how a stakeholder goes about participating in those committees, roles, or positions regardless of their ability to contribute financially to the Plan.
- A discussion regarding how stakeholders are necessary to address the objectives and resource management strategies of the IRWM Plan and are involved or are being invited to be involved in Plan activities.
- A discussion of how collaborative processes will engage a balance of the interest groups listed above in the IRWM process regardless of their ability to contribute financially to the IRWM Plan's development or implementation.

15. *Coordination*

The IRWM Plan must include:

- Identification of a process to coordinate water management projects and activities of participating local agencies and local stakeholders to avoid conflicts and take advantage of efficiencies (CWC §10541.(e)(13)).
- Identification of other neighboring IRWM efforts and the way cooperation or coordination with these other efforts will be accomplished and a discussion of any ongoing water management conflicts with adjacent IRWM efforts.
- Identification of areas where a State agency or other agencies may be able to assist in communication, cooperation, or implementation of IRWM Plan components, processes, and projects, or where State or federal regulatory decisions are required before implementing the projects.

16. *Climate Change*

The IRWM Plan must address both adaptation to the effects of climate change and mitigation of GHG emissions. The IRWM Plan must include the following items:

- A discussion of the potential effect of climate change on the IRWM region, including an evaluation of the IRWM region's vulnerabilities to the effects of climate change and potential adaptation responses to those vulnerabilities. The evaluation of vulnerabilities must, at a minimum, be equivalent to the vulnerability assessment contained in the Climate Change Handbook for Regional Water Planning (December, 2011) (http://www.water.ca.gov/climatechange/CCHandbook.cfm).
- A process that considers GHG emissions when choosing between project alternatives.
- The IRWM Plan must include a list of prioritized vulnerabilities based on the vulnerability assessment and the IRWM's decision making process.
- The IRWM Plan must contain a plan, program, or methodology for further data gathering and analysis of the prioritized vulnerabilities.

B. Conflict of Interest

All participants are subject to State and federal conflict of interest laws. Failure to comply with these laws, including business and financial disclosure provisions, will result in the application being rejected and any subsequent grant agreement being declared void. Other legal action may also be taken. Before submitting an application, applicants are urged to seek legal counsel regarding conflict of interest requirements. Applicable statues include, but are not limited to, California Government Code §1090 and PRC §10410 and §10411.

C. Confidentiality

Once the Proposal has been submitted to DWR, any privacy rights, as well as other confidentiality protections afforded by law with respect to the application package will be waived.

D. Labor Code Compliance

PRC §75075 requires the body awarding a contract for a public works project financed in any part with funds made available by Proposition 84 to adopt and enforce a labor compliance program pursuant to California Labor Code §1771.5(b). Compliance with applicable laws, including California Labor Code provisions, will become an obligation of the grant recipient and sub-recipients (i.e., individual project proponents that will receive grant funds) under the terms of the grant agreement between the grant recipient and the granting agency. California Labor Code §1771.8 states that the grant recipient's Labor Compliance Program must be in place at the time of awarding of a contract for a public works project by the grant recipient. Tribal governments and federal agencies may have other labor compliance requirements or obligations; tribes and federal agencies are encouraged to

consult their legal counsel and the California Department of Industrial Relations to determine their specific labor compliance obligations.

Before submitting an application, applicants are urged to seek legal counsel regarding California Labor Code compliance.

E. CEQA Compliance

Activities funded under the IRWM Grant program regardless of funding source must be in compliance with the CEQA (PRC §21000 *et seq*.). See Appendix A for web links to CEQA information and the State Clearinghouse Handbook (CWC §79506).

Applicants should note that PRC §75102 requires lead agencies to notify tribal entities prior to adoption of Negative Declarations or Environmental Impact Reports (EIRs) if traditional tribal lands are within the area of the proposed project. Also, AB 52, which takes effect July 1, 2015, requires the CEQA lead agency to consider project effects on tribal cultural resources and to conduct consultation with California Native American tribes. Appendix D contains additional information on tribal notification.

F. Monitoring Requirements

Projects that affect surface water quality shall include a monitoring component that allows the integration of data into the California Environmental Data Exchange Network (CEDEN). See Appendix A for web links to CEDEN.

CWC §10927 requires various entities, including local agencies that are managing all or part of a groundwater basin pursuant to CWC §10750, to assume responsibilities for groundwater elevation monitoring and reporting, as required by CWC §10920 *et seq*. See Appendix A for web links to DWR's CASGEM program for guidance.

V. Proposal Selection

A. Solicitation Notice

DWR will solicit grant Proposals with the release of a final PSP. DWR shall develop a new PSP for each funding cycle for each grant type (PRC §75100(a)) and will only consider those applications received as part of the solicitation for each funding cycle. PSPs provide detailed instructions on the mechanics of submitting Proposals and specific information on submittal requirements. PSPs will be made available on the DWR website listed in the Foreword. A solicitation notice will be e-mailed to all interested parties on the IRWM Grant Program mailing list and posted on the website listed in the Foreword. Applicants will be required to submit a new application for each funding cycle and DWR will not consider applications previously submitted, when making its funding decisions.

B. Applicant Assistance Workshops

Informational workshops will be conducted to address applicant questions and to provide general assistance to applicants preparing grant applications. The date and locations of the workshops are provided via the IRWM website, e-mail distribution list, and news release. In addition to these informational workshops, applicants are encouraged to seek assistance from DWR staff in understanding IRWM Grant Program requirements and completing grant applications.

C. Proposal Submittal

Grant application processes will utilize electronic submittals when possible. Submission of applications will be through DWR's Grant Review and Tracking System (GRanTS). The PSP for any given solicitation will contain specific instructions and links to the GRanTS system.

D. Completeness Review

All information requested in the PSP must be provided. Each application will first be evaluated in accordance with the PSP for completeness. **Applications not containing all required information will not be reviewed or considered for funding.**

E. Eligibility Review

Complete applications will be evaluated for compliance with the Eligibility Criteria, Section III.B. **Applications that are determined to be ineligible will not be reviewed or considered for funding.**

F. IRWM Plan Review

DWR has developed a standardized process to evaluate IRWM plans to ensure they are consistent with plan standards for Implementation grant solicitations. The Plan Review Process (PRP) was appended to the 2012 Guidelines in December 2013, and DWR began reviewing plans in January 2014. The PRP is Appendix H of these guidelines and is applicable to the 2015 IRWM Grant Solicitation. The PRP will continue to review plans during the 2015 IRWM Grant Solicitation; however, applicants must refer to the PSP to ensure they comply with the required adopted plan dates for that solicitation.

G. Review Process

All complete and eligible Proposals will be evaluated and scored by technical reviewers. At least two technical reviewers will be assigned to each eligible Proposal. The group of technical reviewers for each Proposal will include representatives from DWR. DWR is coordinating with SWRCB on the 2015 IRWM Grant Solicitation and may request technical reviewers from other agencies, such as the SWRCB, the appropriate RWQCB and assign reviews based on technical elements of the Proposals.

The technical reviewers will individually score Proposals in accordance with scoring criteria documented in PSP. Each funding cycle may have slight variations in scoring criteria; so, applicants should be sure to review the specific criteria during each funding cycle.

Following completion of the review of all eligible Proposals, DWR will convene a Selection Panel to review the technical scores and comments. The Selection Panel will generate a preliminary ranking list, by hydrologic or funding area, of the Proposals and make the initial funding recommendations. When developing the ranking list, the Selection Panel will consider the following items:

- Amount of funds available
- Proposal review and score
- Program Preferences (Section II.F)
- Distribution of funding within a funding area

The Selection Panel may recommend reducing grant amounts from that requested in order to meet current, and any potential future funding targets (Section II.B) and available funding limitations.

H. Applicant Notification and Public Meeting

A list of Proposals recommended for funding and the recommended funding amounts will be posted on the DWR website and the applicants will be notified.

The recommended funding list will be presented at a public meeting held by DWR to solicit public comments on the proposed funding recommendations. Interested parties will be notified of the public meeting by e-mail and

news release informing the public of the date, time, and location of the meeting and by a notice placed on the DWR website listed in the Foreword.

I. Funding Awards

Based on the individual Proposal evaluations, and the recommendation of the selection panel, DWR's Director will approve a final funding list and the associated funding commitments. Following approval by the Director, the selected grant recipients will receive a commitment letter officially notifying them of their selection, the grant amount, and funding source(s).

J. Grant Agreement

Following funding commitment, DWR will execute a grant agreement with the grant recipient. Grant agreements are not executed until signed by the authorized representative of the grant recipient and DWR. Grant agreements for Proposition 84 funds will be executed with one grant recipient (the grant applicant) for the IRWM region, which will then provide funding to its project proponents that are responsible for implementation of the component projects.

Both the financial statement and CEQA statement of conditions must be met **for at least one project** contained in the Proposal prior to execution of a grant agreement. For each remaining project(s), both conditions must be met prior to disbursement of grant funds. The following provides additional details of these conditions:

- Financial Statements: The Grantee must submit copies of the most recent three years of audited financial statements, for each agency or organization proposed to receive grant funding for a selected Proposal. The submittal must also include: (1) balance sheets, statements of sources of income and uses of funds, a summary description of existing debts including bonds, and the most recent annual budget; (2) separate details for the water enterprise fund, if applicable to an agency or organization; (3) a list of all cash reserves, restricted and unrestricted, and any planned uses of those reserves; and (4) any loans required for project funding and a description of the repayment method of any such loans. Equivalent documentation may be considered at DWR's discretion.
- CEQA/NEPA: The Grantee must demonstrate that it has a plan to comply with all applicable requirements of CEQA and the National Environmental Policy Act (NEPA) and a schedule that outlines when the appropriate environmental documents will be completed. DWR staff will review the CEQA documentation available at the time of the grant agreement execution for each project contained within the proposal. Each project with work subject to CEQA shall not proceed until documents that satisfy the CEQA process are received by DWR and DWR has completed its CEQA compliance review. Work that is subject to a CEQA document shall not proceed until and unless approved by DWR. Such approval is fully discretionary and shall constitute a condition precedent to any work for which it is required. Once CEQA documentation has been completed, DWR will consider the environmental documents and decide whether to continue to fund the project or to require changes, alterations, or other mitigation.

As part of the grant agreement, grant recipients and associated project proponents will be required to provide information regarding their projects for Bond Accountability reporting.

Applicants are encouraged to review existing agreement templates for an understanding of responsibilities for the grant recipient and project proponents. The agreement templates can be found at the website listed in the Foreword. Appendix E provides applicants with a summary of the minimum materials that will need to be maintained for State auditing purposes.

K. Funding Match Waiver

The requirement for funding match for Proposition 84 funded projects may be waived for projects that address the need(s) of a DAC. Refer to each funding cycle's PSP for more information regarding funding match waivers.

L. Eligible Costs

For costs to be eligible for reimbursement, the costs must be consistent with the "reimbursable costs" definition contained in Appendix B and must be incurred after the effective date listed in the PSP and prior to termination of the grant agreement.

For costs to be eligible for consideration as funding match, the costs must be consistent with the "funding match" definition in Appendix B and incurred after the funding match eligibility date specified in the PSP.

Travel costs incurred on IRWM Implementation grants are not eligible as funding match or for reimbursement.

Advance funds will not be provided.

APPENDIX A
USEFUL WEB LINKS

DWR

Homepage:	www.water.ca.gov/
IRWM Grant Program:	http://www.water.ca.gov/irwm/grants/
FloodSAFE California:	www.floodsafe.water.ca.gov/
California Water Plan:	www.waterplan.water.ca.gov
DAC Mapping Tool and Data:	http://www.water.ca.gov/irwm/grants/resources_dac.cfm
Grants & Loans:	http://www.water.ca.gov/funding/
Office of Water Use Efficiency:	http://www.water.ca.gov/wateruseefficiency/
Bulletin 118 California's Groundwater:	http://www.water.ca.gov/groundwater/bulletin118/update2003.cfm
Groundwater Information Center:	http://www.water.ca.gov/groundwater/
Desalination Task Force:	http://www.water.ca.gov/desalination/
Recycling Task Force:	http://www.water.ca.gov/recycling/
Economic Analysis Guidebook:	www.water.ca.gov/economics/guidance.cfm
CASGEM Program:	http://www.water.ca.gov/groundwater/casgem/

Regional Water Quality Control Plans (Basin Plans)

Region 1:	www.waterboards.ca.gov/northcoast/water_issues/programs/basin_plan/basin_plan.shtml
Region 2:	www.waterboards.ca.gov/sanfranciscobay/basin_planning.shtml#2004basinplan
Region 3:	www.waterboards.ca.gov/centralcoast/publications_forms/publications/basin_plan/index.shtml
Region 4:	www.waterboards.ca.gov/losangeles/water_issues/programs/basin_plan/
Region 5:	www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/
Region 6:	www.waterboards.ca.gov/lahontan/water_issues/programs/basin_plan/references.shtml
Region 7:	www.waterboards.ca.gov/coloradoriver/publications_forms/publications/docs/basinplan_2006.pdf
Region 8:	www.waterboards.ca.gov/santaana/water_issues/programs/basin_plan/index.shtml
Region 9:	www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/index.shtml
Bay-Delta:	www.waterboards.ca.gov/ water_issues/programs/bay_delta/wq_control_plans/index.shtml

State Water Board Information and Programs

Homepage:	www.waterboards.ca.gov
California Environmental Data Exchange Network:	http://www.ceden.org/

Impaired Water Bodies: http://www.waterboards.ca.gov/water_issues/programs/tmdl/303d_lists2006_epa.shtml

CEQA Information

Environmental Information:	ceres.ca.gov/index.html
California State Clearinghouse Handbook:	http://opr.ca.gov/docs/SCH_Handbook_2012.pdf

Climate Change Information

IRWM Climate Change Clearinghouse:	water.ca.gov/climatechange/IRWMClimateChangeClearinghouse.pdf
Climate Change Handbook:	http://www.water.ca.gov/climatechange/CCHandbook.cfm
Climate Change Scoping Plan:	arb.ca.gov/cc/scopingplan/document/scopingplandocument.htm

Managing an Uncertain Future:	water.ca.gov/climatechange/docs/ClimateChangeWhitePaper.pdf
2009 California Climate Adaptation Strategy:	climatechange.ca.gov/adaptation/index.html

Department of Industrial Relations

Labor Compliance Programs:	www.dir.ca.gov/lcp.asp
Compliances Monitoring Unit (CMU):	http://www.dir.ca.gov/dlse/cmu/cmu.html

California Native American Heritage Commission

Homepage:	http://www.nahc.ca.gov/

U.S. Census Bureau

Homepage:	www.census.gov
American Community Survey:	http://www.census.gov/acs

APPENDIX B
DEFINITIONS

Adopted IRWM Plan – an IRWM Plan that has been formally accepted, as evidenced by a resolution or other written documentation by the governing bodies of each agency that is part of the RWMG responsible for the development of the Plan and have responsibility for implementation of the Plan. Adoption of an IRWM Plan must follow the notification process in CWC §10543. Each project proponent named in an IRWM Grant application must also adopt the IRWM Plan.

Agricultural Water Supplier – a water supplier, either publicly or privately owned, provided water to 10,000 or more irrigated acres, excluding the acreage that received recycled water; also include a supplier or contractor for water regardless of the basis of right that distributes or sells water for ultimate resale to customers (CWC §10608.12.(a)).

Applicant – the entity that is formally submitting a grant application. This is the same entity that would enter into an agreement with the State should the grant application be funded. The grant applicant must be a local agency or non-profit organization.

Application – the electronic or hard copy submission to DWR that requests grant funding for a Proposal that the applicant intends to implement.

Basin Plan – also referred to as Regional Water Quality Control Plan, identifies: 1) beneficial uses to be protected; 2) water quality objectives for their reasonable protection of beneficial uses; and 3) a program of implementation for achieving the water quality objectives as established by the RWQCBs or SWRCB.

Beneficial Uses – the uses of streams, lakes, rivers, and other water bodies to humans and other life. Beneficial uses are outlined in a Regional Water Quality Control Plan (Basin Plan).

California Native American Tribe – all Indigenous Communities of California, which are on the contact list maintained by the Native American Heritage Commission, including those that are federally non-recognized and federally recognized, and those with allotment lands, regardless of whether they own those lands. Additionally, because some water bodies and Tribal boundaries cross State borders, this term may include Indigenous Communities in Oregon, Nevada, and Arizona that are impacted by water in California.

Cost Share – non-grant fund portion of the total project cost.

Disadvantaged Community – a community with an annual median household income that is less than 80 percent of the Statewide annual median household income (PRC §75005 (g)).

Environmental Justice – the fair treatment of people of all races, cultures, and incomes with respect to the development, adoption, implementation, and enforcement of environmental laws, regulations, and policies (California Government Code §65040.12(e)).

Funding Match – non-State fund portion of Cost Share made available by the applicant to assist in financing a project which can include in-kind-services directly related to the scope of work presented in the grant proposal. Funding match expenses must meet reimbursable cost requirements (defined below) and be incurred after the funding match eligibility date specified in the PSP. Funding match may also include expenses, including in-kind services, incurred by a State agency, as long as the expenses are not otherwise funded by a State grant or Loan.

Grantee – a grant recipient.

Incidental Costs – reasonable administrative expenses that may be included as project costs and will depend on the complexity of the project preparation, planning, coordination, construction, acquisitions, implementation and maintenance. Such costs are the necessary costs incidentally but directly related to the project that are regularly assigned to all such projects in accordance with the standard accounting practices of the grantees.

Impaired Water Body – any water body of the United States that does not attain water quality standards (as defined in 40 Code of Federal Regulations (CFR) part 131) due to an individual pollutant, multiple pollutants, pollution, or an unknown cause of impairment, where a water body receives a thermal discharge from one or more point sources, impaired means that the water body does not have or maintain a balanced indigenous population of shellfish, fish, and wildlife.

In-Kind Services – work performed by the grantee that furthers the scope of the grant, the cost of which is considered funding match in-lieu of actual funds from the grantee.

IRWM Plan – a comprehensive plan for a defined geographic area, the specific development, content, and adoption of which shall satisfy requirements developed pursuant to this part. At a minimum, an Integrated Regional Water Management Plan describes the major water-related objectives and conflicts within a region, considers a broad variety of resource management strategies, identifies the appropriate mix of water demand and supply management alternatives, water quality protections, and environmental stewardship actions to provide long-term, reliable, and high-quality water supply and protect the environment, and identifies disadvantaged communities in the region and takes the water-related needs of those communities into consideration. (CWC §10530 *et seq*., in particular CWC §10534)

Local Public Agency – any city, county, city and county, special district, joint powers authority, or other political subdivision of the State, a public utility as defined in Sections 216 of the Public Utilities Code, or a mutual water company as defined in §2725 of the Public Utilities Code (CWC §10535).

Low Impact Development – a stormwater management strategy aimed at maintaining or restoring the natural hydrologic functions of a site or project to achieve natural resource protection objectives and fulfill environmental regulatory requirements; LID employs a variety of natural and built features that reduce the rate of runoff, filter pollutants out of runoff, and facilitate the infiltration of water into the ground and/or on-site storage of water for re-use.

Non-point Source Pollution – a diffuse discharge of pollutants throughout the natural environment.

Non-profit organization – any non-profit corporation qualified to do business in California and qualified under § 501(c)(3) of the Internal Revenue Code.

Physical Benefits – measures of project accomplishments such as amount of water supply, change in water quality, area, and types of properties protected by flood control features, habitat measured in acreage or flow, energy production or savings, recreation facilities, etc.

Program Preferences – components of a Proposal that will be given preference, as defined in PRC §75026.(b) and CWC §10544.

Proposition 84 – "Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006" passed by California voters on November 7, 2006, and as set forth in Division 43 of the PRC.

Region – also known as IRWM Region, means a geographic area. The physical area, efficacy, and benefits derived from a regional plan are impacted by many variables (physical, political, environmental, societal, and economic); therefore, no physical size or dimension will be prescribed for this term. Rather the RWMG

must define its region and explain why the geographic area encompassed is appropriate and yields effective, synergistic, efficient water management planning.

Regional Project or Program – projects or programs identified in an IRWM Plan that accomplish any of the following (CWC §10537):

a. Reduce water demand through agricultural and urban water use efficiency.

b. Increase water supplies for any beneficial use through the use of any of the following or other means:

   1. Groundwater storage and conjunctive water management
   2. Desalination
   3. Precipitation enhancement
   4. Water recycling
   5. Regional and local surface storage
   6. Water-use efficiency
   7. Stormwater management

c. Improve operational efficiency and water supply reliability, including conveyance facilities, system reoperation, and water transfers.

d. Improve water quality, including drinking water treatment and distribution, groundwater and aquifer remediation, matching water quality to water use, wastewater treatment, water pollution prevention, and management of urban and agricultural runoff.

e. Improve resource stewardship, including agricultural lands stewardship, ecosystem restoration, flood plain management, recharge area protection, urban land use management, groundwater management, water-dependent recreation, fishery restoration, including fish passage improvement, and watershed management.

f. Improve flood management through structural and nonstructural means, or by any other means.

Regional Water Management Group – or RWMG means a group in which three or more local agencies, at least two of which have a statutory authority over water supply or water management, as well as those persons who may be necessary for the development and implementation of an IRWM Plan that meets the requirements in CWC §10540 and §10541.

Reimbursable Costs – costs that may be repaid by state grant funds, in particular Proposition 84 IRWM funding. Reimbursable costs must be incurred after the effective date listed for the specific solicitation in the PSP, and may include the reasonable costs of engineering, design, land and easement, legal fees, preparation of environmental documentation, environmental mitigation, and project implementation including administrative costs and incidental costs. The only costs that are considered reimbursable occurring prior to the reimbursable effective date stated in the PSP are reasonable costs directly associated with grant application preparation, which may include the costs of conducting income surveys for the purpose of establishing disadvantaged community status.

Costs that are <u>not reimbursable</u> with grant funding include, but are not limited to:

a. Costs for preparing and filing a grant application belonging to another solicitation

b. O&M costs, including post construction project performance and monitoring costs

c. Purchase of equipment not an integral part of the project

d. Establishing a reserve fund

e. Purchase of water supplies

f. Replacement of existing funding sources for ongoing programs

g. Support of existing punitive regulatory agency requirements and/or mandates in response to negligent behavior

h. Purchase of land in excess of the minimum required acreage necessary to operate as an integral part of the project, as set forth and detailed by engineering and feasibility studies

i. Payment of principal or interest of existing indebtedness or any interest payments unless the debt is incurred after effective date of a grant award with the State, the granting agency agrees in writing to the eligibility of the costs for reimbursement before the debt is incurred, and the purposes for which the debt is incurred are otherwise reimbursable project costs

j. Overhead not directly related to project costs

k. Meals, food items, or refreshments

l. Costs associated with travel

Scoring Criteria – set of requirements used by DWR to evaluate a proposal for a given program or for funding.

Selection Panel – group of DWR representatives at the supervisory or management level assembled to review and consider proposal evaluations and scores developed by the Technical Reviewers and to make initial funding recommendations. Other agencies, such as the SWRCB or RWQCB, representatives at the supervisory or management level may also be invited to participate on the Selection Panel.

Small Disadvantaged Community – a community using a drinking water system of 200 connections or less (inclusive of state small and local small water systems) with median household incomes less than 80% of the statewide MHI. This term is to be used specifically in conjunction with high-risk nitrate areas.

Stakeholder – an individual, group, coalition, agency, or others who are involved in, affected by, or have an interest in the implementation of a specific program or project.

Technical Reviewers – a group of agency representatives assembled to evaluate the technical competence of a proposed project and the feasibility of the project being successful if implemented. Other agencies, such as SWRCB or RWQCB, representatives may also be invited to participate as technical reviewers.

303(d) List – refers to Section 303(d) of the Clean Water Act that requires each state to periodically submit to the U.S. Environmental Protection Agency a list of impaired waters.

Urban Water Supplier – supplier, either publicly or privately owned, that provides water for municipal purposes, either directly or indirectly, to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually (CWC §10617).

APPENDIX C
GUIDANCE FOR IRWM PLAN STANDARDS

This appendix contains additional information on each of the IRWM Plan Standards. For each standard the intent of the standard is stated as well as applicable background information, legislation, examples, and references.

Governance

Governance plays an important role in determining how many organizations function. A definition of governance is the processes, structures and organizational traditions that determine how power is exercised, how stakeholders have their say, how decisions are taken and how decision-makers are held to account.

The intent of the Governance Standard is to ensure that an IRWM Plan has the structures and procedures that maximize functionality, participation in the Plan, and plan longevity.

DWR is not advocating any one governance structure or mechanism; rather it is up to the RWMG to determine what governance structure is best for the region. Existing IRWM Plans have used various governance forms, such as Joint Powers Authorities (JPA), MOU, Resolutions, and Consensus. Some governance structures are housed within a local government agency, which fulfills the coordinating role, while others are driven by committees that are comprised of individuals from multiple agencies or interests. Regardless of the governance structure configuration, participation in IRWM planning does not affect any powers granted to a local agency by any other law (IRWM Planning Act – CWC §10548). Access to contacts for IRWM Plans to examine a variety of governance models can be found at:

http://www.water.ca.gov/irwm/grants/fundingarea.cfm

Clicking on a funding area label will call up a funding area map with contact information including web addresses on specific IRWM planning efforts.

Regardless of form, governance should be effective in updating and implementing the IRWM Plan, while safe guarding and supporting collaboration among stakeholders.

- Group responsible for development of Plan: The IRWM Plan must include a description of the RWMG responsible for the development and implementation of the Plan. RWMGs can include, but are not limited to, local public agencies, non-profit organizations, privately owned water utilities regulated by the Public Utilities Commission, tribal governments, and other stakeholders that are necessary to develop and implement the IRWM Plan. The description must include a listing of all entities responsible for development of the Plan and discuss their relationship to water management issues in the IRWM Region; in particular, the membership of the RWMG must be listed and those with statutory authority for water management (i.e. water use, water delivery, natural waters, water supply, water quality, flood waters, etc.) identified.
- Public Notice Requirements: A RWMG proposing to prepare or update an IRWM Plan shall publish a notice of intent to prepare the Plan in accordance with §6066 of the Government Code. Upon the completion of the IRWM Plan, the RWMG shall publish a notice of intention to adopt the Plan in accordance with §6066 of the Government Code and shall adopt the Plan in a public meeting of the RWMG governing board. (CWC §10543)
- Plan Adoption: The governing bodies of each agency that is part of the RWMG responsible for the development of the IRWM Plan and have responsibility for implementation of the Plan must formally adopt the IRWM Plan. Each project proponent named in an IRWM Grant application must also adopt the IRWM Plan. Project proponents are permitted to adopt the Plan after it has been adopted by the RWMG, until the

submittal of an IRWM Grant application. Proof of adoption is a resolution (or other written documentation) with signatory blocks for each governing body adopting the Plan.

- Types of Plans: While not part of the Governance Standard, the type of IRWM Plan written is the purview of the RWMG. Typically, RWMGs either write a new IRWM Plan that is based on multiple existing local plans or choose to produce a functionally equivalent plan (FEP). A FEP is a compilation of existing local water management and related plans that contain the components of an IRWM Plan and when used in a coordinated manner, operate as an integrated plan. FEPs are recognized in Proposition 84 (PRC §75026 (a)). Both types of plans are held to the same standards. FEPs should take particular care to clearly document and communicate how the separate, single purpose plans fit together and how entities abide by each of the existing plans. For example, governance of the FEP will not typically exist in the individual plans that make up the FEP. Therefore, the governance of an FEP must be clearly documented and communicated in some manner, not only to DWR, but to stakeholders in the region. Similarly, existing plans written by a specific entity often do not address areas outside that entity's jurisdiction; yet, when applied to a FEP, the provisions of that specific plan may very well apply to another entity's jurisdiction. Such overlaps of FEP component plans need to be documented and agreed upon.

- Description of chosen governance structure: Because each RWMG decides on its own specific governance structure, the IRWM Plan needs to contain a description of that structure. The description needs to be detailed enough so that any stakeholder in the region understands how to communicate with the RWMG and participate in the Plan. While the mechanism of governance may be formalized in an MOU or JPA, there's more to the governance structure than formal documents. The description needs to include not only a discussion of the mechanism of relationship between entities (JPA, MOU, consensus, etc.), but also how the governance structure performs basic activities (see activities section below). This discussion should include listing of committees or groups that have focused activities within the RWMG and the description of how these groups support plan development and implementation. Additionally, describe how the group gathers the information and how the group communicates with other groups or committees. Also necessary is other participatory information, such as how does a person serve on a group or committee and for what duration, or how does the public or stakeholders talk to or interface with a specific group or committee. Regardless of form, governance should be effective in updating and implementing the IRWM Plan, while safe guarding and supporting collaboration among stakeholders, and the description of the governance structure should be used to demonstrate how that is accomplished.

- Description of how governance addresses and ensures various activities: A description of how the chosen governance structure addresses the following activities can be incorporated in the description of the chosen governance structure. There also may be additional activities specific to individual IRWM governance structures and IRWM plans are encouraged to include descriptions of those activities in their IRWM plans. The guidance in this section is provided to better explain DWR's concerns about each of the activities contained in the Governance Standard and are described below.

  - Public Involvement Processes – The development and implementation of an IRWM Plan needs to include a public involvement process that outreaches to the public and provides an opportunity for the public to participate in Plan development and implementation. Public involvement processes should be direct to local agencies and stakeholders, as applicable to the region, including all of the following:

    1. Wholesale and retail water purveyors, including a local agency, mutual water company, or a water corporation as defined in Section 241 of the Public Utilities Code
    2. Wastewater agencies
    3. Flood control agencies
    4. Municipal and county governments and special districts
    5. Electrical corporations, as defined in Section 218 of the Public Utilities Code

6. Native American tribes that have lands within the region
7. Self-supplied water users, including agricultural, industrial, residential, park districts, school districts, colleges and universities, and others
8. Environmental stewardship organizations, including watershed groups, fishing groups, land conservancies, and environmental groups
9. Community organizations, including landowner organizations, taxpayer groups, and recreational interests
10. Industry organizations representing agriculture, developers, and other industries appropriate to the region
11. State, federal, and regional agencies or universities, with specific responsibilities or knowledge within the region
12. DAC members and representatives, including EJ organizations, neighborhood councils, and social justice organizations
13. Any other interested groups appropriate to the region

- Effective decision making: Decision making occurs at different levels. The description of the governance structure should describe how decisions are made at the regional level and how decisions are made within the RWMG. In describing decision making, consider how information is collected and processed within the governance structure and how a decision is vetted with stakeholders in the RWMG.
- Balanced access and opportunity for participation: Regional planning efforts involve a diverse group of people with differing expertise, perspectives, and authority of various aspects of water management. The IRWM Plan should describe the manner in which the governance structure ensures a balance of interested persons or entities representing different sectors and interests (see Public Involvement Processes, Nos. 1-13, above), and provides them the opportunity to participate, regardless of their ability to contribute financially to the IRWM Plan. Depending on the type of governance structure or mechanism in place, it is possible that a RWMG may need more than one governance type in order to be inclusive of all interested stakeholders. For instance, decision making within a JPA might function at the exclusion of non-local agencies. Therefore, it might be necessary to include additional mechanisms, such as MOU's, to reasonably accommodate other entities, such as non-profit organizations, in the decision making of the IRWM processes. In addition, the IRWM Plan should address:
  - Equal distribution of power and voice among stakeholders – what structures or procedures are in place that ensure there is an equal playing field for all stakeholders involved in the plan development and implementation?
  - Equal opportunity and representation of stakeholders in multiple roles (leadership, advisory) regardless of economic and power status within the RWMG – what roles are there in the governance structure and how does someone occupy that role? How does the governance structure invite participation in the workings of the RWMG?
  - Terms of service for positions within the structure – what kind of time commitment do these positions require and how often do they turn over.
- Effective communication – both internal and external to the IRWM Region: Essential and inherent in any human organization is the need to communicate. In many collaborative efforts, great importance may be placed on being heard and valued in the process. Some communication efforts, such as websites, e-mails, or other distributed materials, may be one-way and not necessarily require an interactive discussion. However, some portion of the communication must be two-way. How does the governance structure foster communication with the different functional groups within the RWMG, with project proponents, with general stakeholders, with neighboring RWMGs, government agencies, and the general public? Each of

those groups may require different intensities or types of communication. What mechanisms are available to accommodate adequate two-way communication?

- Long-term implementation of IRWM Plan: IRWM Plans are long-term planning documents. The description of region standard refers to a 20-year planning horizon. How does the governance structure help ensure implementation of the plan in the long-term?
- Coordination with neighboring IRWM efforts, State agencies, and federal agencies: How does the governance structure ensure coordination with neighboring RWMGs, State agencies, and federal agencies? Does the governance structure contain appropriate region-wide roles for such entities? Do the appropriate regulatory and resource agencies have advisory roles?
- The collaborative process used to establish Plan objectives: Does the governance structure show that a collaborative process was used for the development of IRWM Plan objectives? The groups that were involved in the process? And how the final decision was made and accepted by the RWMG?
- Interim changes and formal changes to the Plan: IRWM Plans need to include adaptive management processes for updating the Plan in response to changing conditions. This may include informal changes that reflect minor process, organizational, or water management changes that occur relatively frequently and do not necessitate a decision by the governing bodies of the RWMG. Formal changes may include those which reflect significant changes to processes, organizational structure, water management conditions, or routine periodic programmatic updates of the IRWM Plan. How does the governance structure ensure the Plan is formally updated periodically and how are changes to the Plan identified and made interim to the formal update period?
- Updating or amending the IRWM Plan: Does the IRWM Plan indicate the process used to informally and formally update or amend the Plan? What changes to the Plan would require it to be readopted? What is the frequency to formally amend and readopt the Plan? DWR encourages use of adaptive management processes to ensure that the IRWM Plan and associated objectives are current. Formal updates to the Plan may be resource and time intensive processes, but are necessary to ensure that the IRWM Plan is not a static document and that the Plan continues to be accepted by the RWMG and those entities necessary to implement the Plan. Therefore, DWR encourages IRWM planning efforts to formally review, revise, and adopt the IRWM Plan, at a frequency of no less than every five years. In the Governance section, indicate if this information is contained in another part of the Plan, such as in the Project Performance section.

Region Description

The intent of the Region Description Standard is to document that the IRWM planning region is defined by the combination of the water systems being managed; common water issues; and that there is sufficient variety of interested parties included in the planning region. The region description contained in the IRWM Plan should closely follow the information required in the RAP whereby DWR accepts IRWM regions into the grant program.

IRWM regions vary widely in physical size for a variety of reasons. As a result, there is no single physical size definition that can be imposed on an IRWM region. However, CWC §10541(f) and PRC §75026.(b)(1)define a region as follows:

> "At a minimum, a region shall be a contiguous geographic area encompassing the service areas of multiple local agencies, and shall be defined to maximize opportunities for integration of water management activities: and effectively integrates water management programs and projects within a hydrologic region defined in the California Water Plan, the Regional Water Quality Control Board region, or subdivision or other region specifically identified by DWR."

Each RWMG has the responsibility of defining its own IRWM region. IRWM Plans are a form of resource planning so describing the region focuses on the resource being managed. CWP Update 2009 (http://www.waterplan.water.ca.gov/cwpu2009/index.cfm) emphasized the importance of describing the major water-related objectives and conflicts within an IRWM planning region. DWR released CWP Update 2013 in

October 2014; information on CWP Update 2013 can be found at the following location: http://www.waterplan.water.ca.gov/cwpu2013/index.cfm.

The region description items described in the aforementioned list of standards have been arranged and are discussed below in order to assist RWMGs at the beginning of the IRWM development process to define their regional boundaries after considering these factors.

- Description of Watersheds/Water System: Consideration of watershed areas should be taken to describe all aspects of the system that are being managed including a description of natural and anthropogenic components of the region's water system.

  Watersheds are often at the level suitable for regional planning efforts. Some RWMGs manage multiple watersheds based on the similarity of water management issues. Conversely, some RWMGs separate the lower and upper watersheds (each belonging to a different IRWM region) because water management issues in each area are different. Another advantage of using a watershed as a possible management unit is that there are often existing watershed planning efforts that can provide information or data on the watershed and that have existing relationships with important stakeholder groups operating in the watershed.

  In describing the watersheds in the region, explain the characteristics of the watershed, including hydrology, groundwater, vegetation, fisheries, species and habitats of special concern, and management issues like invasive species. IRWM regions may want to utilize existing local plans that already have these characteristics described comprehensively. IRWM regions also should describe effects climate change may have on their watersheds, in addition to water supply and demand. The following link is to the California Watershed Portal where you may find additional resources: http://www.conservation.ca.gov/dlrp/watershedportal/Pages/Index.aspx.

  Sometimes, water is moved and used outside watersheds' natural courses. There are many areas of the state that import water or have other infrastructure in addition to the natural watershed(s) in their regions. These systems are also part of the water system to be managed and need to be described in IRWM plans.

  There are multiple types of water systems. The RWMG should consider more than just the water supply entry point to the IRWM region and the water supply system. The description should include water system infrastructure and diversions. In addition to water supply systems, there also may be wastewater, reclaimed water, desalination, floodwater, and natural water systems (surface water and groundwater). All these separate systems should be looked at collectively as part of the water system being managed as they often are interconnected.

- Description of Internal Boundaries: Describe and show on a map all the internal boundaries within the region. These internal boundaries should include the boundaries of municipalities; service areas of individual water, wastewater, flood control districts, and land use agencies; groundwater basins; watersheds; and county or other political boundaries. For land use agencies, make sure to include their boundaries even if they are not part of the RWMG, as it is important to know the agencies in the IRWM boundary that develop land use plans.

- Water Supply and Demand: Describe the water supply and demand projections for at least a 20-year planning horizon. Demand projections should include effects on demand by projected growth, projected land use changes, and environmental need for water. In estimating the water supply for the planning horizon, consider how that supply might change with factors, such as climate change. Typically, a water supply projection might be based on past water years. Using climate change as a factor, it may no longer be adequate to simply rely on historical water years when projecting future supply. For this reason, describe what the prevailing climate change impact means to the future water supply and demand within the region. The Climate Change Standard has a detailed discussion on this matter and provides DWR's guidance on this topic.

To the extent possible, supply and demand projections should be expressed quantitatively. However, there is value in qualitative aspects of supply and demand projections so if available tools are not adequate to quantify all the future effects on supply and demand, quantify what can be, and also include qualitative descriptions for aspects that cannot be quantified.

- Water Quality: Describe the current and future (or proposed) water quality conditions in the region. Describe any protection and improvement of water quality within the area of the IRWM Plan. For current conditions include a discussion on the quality of the following water sources: groundwater, surface water, imported water, and water from storage facilities, both within and outside the region. Describe any Basin Plans, Watershed Management Initiatives, and the water quality goals and objectives for watersheds in the region. See Appendix A for links to the RWQCB websites. Describe any projects or examples within your region of matching water quality to water use.
- Description of Major Water-Related Objectives and Conflicts: The description of region must include the major water management objectives and conflicts within the region (CWC §10541. (e)(3)). These items should be based on the parts of the description that have been previously mentioned. The focus of the collaborative integrated regional planning and management effort should be a shared vision of regional goals and objectives, rather than being driven by existing projects.
- Explanation of Regional IRWM Boundary: The IRWM Plan must include a description of the regional boundary, how it was determined, and why the chosen region is appropriate as an IRWM region. As stated previously, there are no size criteria that are mandated for an IRWM region. With the information determined from the aforementioned guidance items topics, the RWMG should generate enough information to formulate the regional boundaries focused more on water system, management of that system, and on common water management issues rather than using a political jurisdiction boundary.
- Identification of Neighboring or Overlapping IRWM Regions: Knowledge of and coordination with neighboring IRWM regions can help RWMGs define their region. Understanding these adjacent or overlapping regions may help confirm regional boundaries, indicate that multiple separate regions can function as one region instead of independently, and help identify inter-regional opportunities. Or, it may point to water management issues not yet considered. The description should explain the cooperation and coordination that occurs to foster a working relationship evidenced by establishing a reasonable and effective governance structure for developing and implementing its IRWM Plan.

Objectives

The intent of the Objectives Standard is to ensure IRWM regions establish the intent of their IRWM Plan. Clear objectives will demonstrate to the public which regional conflicts and water management issues the IRWM Plan is designed to address.

Determining Objectives

Determining IRWM Plan objectives is the foundation of the planning process. Based on the Plan objectives, applicable RMS and implementation projects will be determined. Solid, regionally relevant objectives give focus to the IRWM Plan and are essential for successful plan implementation. Objectives may be determined once the character of the IRWM region (geography, stakeholder makeup, water management issues, conflicts, etc.) is identified. Objectives must be focused on addressing the water management issues, including flood management of the region. Keep in mind that all objectives should be precise enough to be measurable.

In developing IRWM Plan objectives, RWMGs must consider overarching goals that apply to their area. These include:

- Basin Plan Objectives
- 20x2020 water efficiency goals
- Requirements of CWC §10540(c)

RWMGs must ensure that Plan objectives are consistent with such overarching goals as they apply to specific regions. RWMGs must consider the objectives in the appropriate basin plan or plans and strategies to meet applicable water quality standards, CWC §10541.(e)(2). California set a goal of a 20% reduction in per capita water use by the year 2020 (20x2020). CWC §10608 *et seq.* presents the provisions to improve agricultural water use efficiency.

CWC §10540(c) states that, at a minimum, all IRWM Plans shall address all of the following:

- Protection and improvement of water supply reliability, including identification of feasible agricultural and urban water use efficiency strategies.
- Identification and consideration of the drinking water quality of communities within the area of the Plan.
- Protection and improvement of water quality within the area of the Plan consistent with relevant basin plan.
- Identification of any significant threats to groundwater resources from overdrafting.
- Protection, restoration, and improvement of stewardship of aquatic, riparian, and watershed resources within the region.
- Protection of groundwater resources from contamination.
- Identification and consideration of water-related needs of disadvantaged communities in the area within the boundaries of the Plan.

Although these items do not necessarily have to be included in the objectives, IRWM planning efforts should consider these points as they modify or develop Plan objectives.

Describing the Process

It is important to illustrate the collaborative process and tools used to establish objectives. This reinforces the regional relevance of the IRWM Plan and will prevent readers of the Plan from concluding the objectives were arbitrarily assigned. The discussion does not have to be lengthy and may be as simple as referring to relevant sections of the governance text, if applicable. The text should give the reader a clear understanding of:

- How the objectives were developed
- What information was considered (i.e., water management or local land use plans, etc.)
- What groups were involved in the process
- How the final decision was made and accepted by the IRWM effort

Measuring Objectives

The Objectives Standard requires that objectives must be measurable. A measurable objective means there must be some metric the IRWM region can use to determine if the objective is being met as the IRWM Plan is implemented. Remember that IRWM Plans are implemented through projects, relevant to measuring objectives; it implies that metrics must apply to projects which in turn relate back to Plan objectives. Objectives can be measured quantitatively or qualitatively.

Neither quantitative nor qualitative metrics are considered inherently better. What is vital is the chosen metric be the most appropriate for the given objective. For example, an IRWM effort may have a general objective of restoring ecological function to a local wetland. Depending on the region's available resources for measuring this objective, it may be easier to express the objective quantitatively or qualitatively:

Example 1

Objective	Qualitative Measurement	Quantitative Measurement
Restore ecologic function to a local wetland	Presence/absence of key wetland species	Number of acres restored to wetland conditions

In this case meeting the objective can be expressed either qualitatively, with the presence of wetland species indicating restored ecologic function; or quantitatively, with ecological function measured as acres restored. Both measurements could be appropriate. For some objectives, only one method may be appropriate.

Example 2

Objective	Qualitative Measurement	Quantitative Measurement
Meet TMDL requirements for nitrates in a local creek	N/A	Nitrate concentration

In Example 2, a qualitative measurement will not provide the detail required to confirm that TMDL requirements have been met. A quantitative measurement is the most appropriate.

Example 3

Objective	Qualitative Measurement	Quantitative Measurement
Improve communication between groundwater management agencies and private well owners	Positive participation at public meetings; increased correspondence	N/A

In Example 3, a qualitative assessment is the most appropriate. Quantifying "improved communication" may not be practical for determining if the objective has been met.

A quantitative measurement could be constructed, such as counting the number of positive and negative comments at public meetings, or sending surveys to stakeholders to collect data, but these methods will not give much more insight than the qualitative expression. They will, however, require more effort and time from the RWMG to measure them.

Prioritizing Plan Objectives

The IRWM Plan must contain an explanation of how objectives are prioritized or why objectives are not prioritized. Objectives, RMS selection, and Implementation Projects are all linked. To meet plan objectives, certain RMS may be used and specific projects may be implemented. Therefore, prioritizing objectives may help with prioritizing RMS and project implementation.

There is no required framework for prioritizing objectives. It is not necessary to establish a specific numerical priority. A RWMG may use the prioritization tools they perceive to best meet their planning needs such as the following:

- Tiered or grouped together as one priority for implementation
- Grouped as short-term and long-term priorities for implementation
- Grouped as spatial or temporal priorities for implementation, for example:
  - Reducing upstream erosion may be more important to address before addressing downstream sedimentation
  - Conducting surveys during appropriate seasons

Flexible priorities are fundamental to any adaptive management plan, such as an IRWM Plan. Priorities may change depending on a change in regulations, shift in regional water uses, or the fulfillment of a plan objective. Prioritizing the objectives can help guide the course of adaptive management. However, if a RWMG chooses not to prioritize plan objectives, the basis for this decision should be clearly stated in the IRWM Plan.

Objectives, Goals, and the Planning Hierarchy

The terms "goals" and "objectives" may have been used by some RWMGs interchangeably. RWMGs may choose to use goals as an additional layer for organizing and prioritizing objectives, or they may choose to not use the term at all. It may be reasonable for some RWMGs to organize numerous objectives under one larger, more general objective or goal. Alternatively, the complexity of water management issues in some regions may require sub-objectives for better organization.

Whichever nomenclature a RWMG uses for describing objectives, the organization and the significance of the terms must be **clearly explained** and **remain consistent** throughout the Plan.

Resource Management Strategies

The intent of the RMS Standard is to encourage diversification of water management approaches as a way to mitigate for uncertain future circumstances and comply with PRC §75026.(a) and CWC §10541(e)(1). An RMS, as defined in the CWP Update 2009, is a project, program, or policy that helps local agencies and governments manage their water, and related resources. An IRWM Plan must consider each RMS in the CWP Update 2009 which is listed below in Table 3.

Table 3 – CA Water Plan Update 2009 Resource Management Strategies	
• Agricultural Water Use Efficiency • Urban Water Use Efficiency • Crop Idling for Water Transfers • Irrigated Land Retirement • Conveyance – Delta • Conveyance – Regional/local • System Reoperation • Water Transfers • Flood Risk Management • Agricultural Lands Stewardship • Economic Incentives (Loans, Grants and Water Pricing) • Ecosystem Restoration • Forest Management • Recharge Area Protection	• Conjunctive Management & Groundwater Storage • Desalination • Precipitation Enhancement • Recycled Municipal Water • Surface Storage – CALFED • Surface Storage – Regional/local • Drinking Water Treatment and Distribution • Groundwater Remediation/Aquifer Remediation • Land Use Planning and Management • Matching Quality to Use • Pollution Prevention • Salt and Salinity Management • Urban Runoff Management • Water-Dependent Recreation • Watershed Management

The discussion in this section focuses on RMS as separate topics. In reality, the various RMS are often connected to one another, as well as to other activities such as land use planning. The operating assumption in this section is to intentionally find ways to diversify a water management portfolio. Also, considering differing RMS individually is helpful. Other IRWM Plan standards, such as Integration, address the relationships and synergies that can be gained by combining RMS. The CWP Update 2009 also provides a detailed discussion of each individual RMS, so RWMGs may wish to use the CWP as an information source to assist them in evaluating the various RMS. See Appendix A for a link to the CWP. At the link, RWMGs will also be able to find information on CWP Update 2013.

Documenting the Process

In light of the water issues described in the IRWM Plan Regional Description Section and considering the IRWM Plan Objectives, the RWMG must consider RMS that will help achieve those objectives. Considering RMS should be

done from the perspective of maximizing the diversity of strategies versus relying on a single strategy. "Considering a RMS" means to review a strategy and to decide how applicable it is in meeting the IRWM Plan objectives. The review and decision processes should be performed according to the RWMG's chosen governance. For each strategy considered, the IRWM Plan should document the reasoning behind the decision. This can be stated briefly, for example, if the IRWM region does not have brackish or saline waters then desalination as a strategy for increasing water supply is not applicable. From the IRWM Plan perspective what is important is:

- The IRWM Plan documents the process used to consider RMS
- What RMS were considered which must, at a minimum, include all of the RMS listed in Table 1-1
- Which RMS of those considered will be implemented to achieve the objectives of the IRWM Plan

Whatever process (i.e. technical advisory input, stakeholder input, etc.) is used to consider RMS, the value is in creating an intentional opportunity to diversify the RWMG's water management portfolio.

RWMGs should note that in an IRWM Plan the Regional Description, Plan Objectives, and Governance Sections should support and be consistent with the decisions being made in the RMS section.

Integration

The intent of the Integration Standard is to ensure that RWMGs intentionally create a system where integration can occur. IRWM plans will likely not have a separate integration section. The standard and guidance are meant to draw particular attention to this aspect of IRWM planning. In general terms, integration is combining separate pieces into an efficiently functioning unit. Integration may occur on many levels. Here we discuss three types of integration – stakeholder/institutional, resource, and project implementation. The processes, structures, and procedures that foster integration will show up in other plan sections (i.e. governance, stakeholder outreach, data management, project review or selection). The development and implementation of the IRWM Plan should demonstrate the RWMG is forming, coordinating, and integrating separate efforts in order to function as a unified effort.

Stakeholder/Institutional Integration

IRWM Plans must contain governance structures and processes that enable diverse groups of stakeholders to participate in all levels of an IRWM planning effort. CWC §10541(h)(2) refers to ensuring that IRWM plans are developed collaboratively in a manner which balances interests and engages a variety of stakeholders regardless of their ability to contribute financially. Structures and processes that can be used to strike such a balance must be found in the governance, cooperation, and stakeholder involvement portions of the IRWM Plan. CWC §10541(g) provides examples of the breadth of stakeholders than can be included in an IRWM planning effort.

Resource Integration

Resource integration can have multiple meanings. It can refer to the combining of multiple participant/agency resources to aid the regional planning effort. This can include how data are shared, common protocols to ensure data compatibility, sharing of differing expertise or technical capacity to aid the IRWM planning effort. Therefore processes and procedures that foster combining information, expertise, knowledge or help leverage other resources of the stakeholders involved in the IRWM planning effort must be contained in the IRWM Plan. These may be documented in the governance structure; may be part of internal agreements between participants; may be found in data collection protocols or the data management section of the IRWM Plan. Resource integration can also mean considering the man-made and natural water resource infrastructure in the IRWM planning region; and how both aid in water management in the region. This may mean that watershed health as well as drinking water distribution systems are components of the water system being managed in the IRWM planning effort. IRWM regions must consider how water enters and leaves their IRWM region when defining IRWM boundaries and identifying stakeholders.

Project Implementation Integration

IRWM planning decisions can lead to existing or "off the shelf" projects being combined or replaced by new and/or different projects. Part of the advantage of regional planning is addressing similar objectives of local interests with a regional project. Resources of personnel, finance, and equipment to implement multiple smaller efforts may benefit from economy of scale when similar local interests can be met with a regional project. IRWM plans must contain provisions for reviewing project objectives and considering new, expanded, or even different solutions that meet multiple local needs. The planning decisions made in the IRWM Plan must consider integrating the needs of the region and not just the needs of specific entities in the RWMG.

Project Review Process

The intent of the Project Review Process Standard is to ensure the process used for submitting, reviewing, and selecting projects is documented and understandable for regional stakeholders and the public. The standard is intended to produce a list of prioritized implementation projects sufficiently developed and demonstrating appropriate need that can be funded through the IRWM Grant program (PRC §75028 (a)) or other funding opportunities.

While the specific review process is up to each RWMG to develop and document in their IRWM Plan, the process must include three components:

(1) Procedures for submitting a project to be included in the IRWM Plan

(2) Procedures for review of projects to implement the IRWM Plan

(3) Procedure for communicating the list(s) of selected projects

The review process may be a collection of different processes or a single procedure, whichever fits the IRWM region best. Additionally, the review process must include multiple factors. How each factor is applied in the process is up to each RWMG to decide.

It is essential to demonstrate a well thought-out process in the IRWM Plan for decision making and data management roles within the RWMG. Will a subcommittee be responsible for approving the project list? Will each of the projects be reviewed individually for accuracy if they are sorted automatically in a database? Through what mechanism will stakeholders provide input during the submittal, review, selection process to develop the project list? How and when is the list updated and does it require re-adoption of the Plan? The IRWM Plan must clearly document the project review process and demonstrate that the process meets this standard. The projects included in the IRWM Plan are the projects that will implement the Plan and achieve the Plan objectives. The projects should represent priorities of the planning effort and represent a wise investment for State grant funding. Hence, the process should not be designed to only select based on readiness to proceed.

Process Components

(1) Procedures for submitting a project for inclusion in the IRWM Plan

The process described in the IRWM Plan must include procedures for submitting projects to be considered for inclusion into the IRWM Plan. Documenting these procedures in the IRWM Plan will allow the RWMG and stakeholders to understand and use the process. Some RWMGs continually accept projects for consideration while others may have specific periods of project submission. Project submittal procedures typically require standardized information so each project submits the necessary information for the review process.

Submittal processes must balance efficiency with accessibility. It is acceptable to use web based submittal tools to aid submission and management of information; however, if there are project proponents that do not have access to such tools, projects of value may be excluded. In such cases, having an alternate submittal process may provide needed access.

Submittal processes must also specify what information is required to be submitted. Typically, we talk about projects as pieces that implement a plan. Should only projects at a certain stage be submitted? Are concepts, ideas, or needs for projects or programs allowed for submission? Remember that the product of the process is actions that will implement the IRWM Plan. Therefore, it may be wise to accept project concepts or ideas, as long as there is a process in place to take these concepts and ideas to fully developed implementation projects.

(2) Procedures for review of projects considered for inclusion into the IRWM Plan

The standard requires that certain review factors be used in the project review process. The review factors listed in this standard speak to important points to consider in the project review process. Review factors are further explained in text below. RWMGs can use the factors in any part of the process they create and they may add various weights to factors within their process to tailor the process to their specific regional needs. **RWMGs are not limited to these review factors but they should use, at a minimum, the factors listed in this standard.**

In developing a project review process, RWMGs are cautioned that the project review process contained in the IRWM Plan **should not** contain any specific grant program related selection criteria. The purpose of identifying projects in the IRWM Plan is to understand the needed action to meet the IRWM Plan objective. Projects should not be prioritized based on any specific grant program. It can be helpful to think of the project selection process as having, at least, two phases:

- Identify projects that will be necessary to implement the IRWM Plan and
- Identify projects that may qualify for a specific funding source.

The RWMG **may apply grant criteria** when moving from the overall list of projects in the IRWM Plan to a specific grant proposal.

(3) Procedure for communicating the list(s) of selected projects

The IRWM Plan must also contain the product of the project selection process, the project list(s). The project lists may be quite extensive or change over time. In such cases, it is acceptable for an IRWM Plan to contain a hyperlink or URL to where the list(s) can be viewed. At a minimum, the IRWM Plan needs to demonstrate that the selection process has been conducted and there are identified projects that will implement the IRWM Plan.

REVIEW FACTORS

The following is a discussion of the factors that a project review process should employ when considering projects for inclusion in the IRWM Plan:

A. How the project contributes to the IRWM Plan objectives

This factor asks RWMG to consider how a project relates to achieving plan objectives. As discussed in the plan standard on objectives, it is important to be able to measure how an objective is being met through projects.

B. How the project is related to resource management strategies

The IRWM Plan identifies RMS selected for use in the Plan with the goal of diversifying the water management portfolio used to meet plan objectives. Does the proposed project contribute to the diversification of the water management portfolio? If so how? If it does, that should be seen as a positive aspect of the project. If not, the project may still aid in obtaining the plan objectives; however, depending on specific circumstances of the region, a project that contributes to the diversification of the water management portfolio may be more valuable than one that does not.

C. Technical feasibility of the project

The RWMG needs to consider the technical feasibility of the projects. Technical feasibility is related to the knowledge of the project location; knowledge of the water system at the project location; or with the material,

methods, or processes proposed to be employed in the project. Is there enough known about the geologic conditions, hydrology, ecology, or other aspect of the system where the project is located? Are there data gaps that require additional studies to develop the project? In examining the methods, materials, or equipment used in the project, are there sufficient technical data to indicate the methods and systems employed in the project will result in a successful outcome? Success of a project is the realization of claimed benefit. For example, if a project is claiming a certain amount of recharge to the aquifer, is there enough known about the hydrogeologic characteristics to support the project claim of the quantity of recharge, and is the proposed method of recharge supported by technical data that indicate those methods will be successful?

D. Specific benefits to critical DAC water issues

The project review process must consider if the project helps to address critical water supply and water quality needs of DACs within the IRWM region. CWC §10540.(c)(7) states that identification and consideration of water-related needs of DACs in the area within the boundaries of a region is among the basic items an IRWM Plan must address. DAC projects may include work that leads to a formal project such as a needs assessment, initial engineering work (design or study) to define a project, or feasibility studies that may lead to a project. Projects that specifically address such needs should be promoted in the project selection process. See Appendix G for additional information regarding DACs.

E. Specific benefits to critical water issues for Native American tribal communities

The project review process must consider if the project helps to address critical water supply and water quality needs of Native American tribal communities within the IRWM region. Such projects may include work that leads to a formal project such as a needs assessment, initial engineering work (design or study) to define a project, or feasibility studies that may lead to a project. Projects that specifically address such needs should be promoted in the project selection process.

F. Environmental Justice Considerations

As IRWM plans contain multiple projects that will affect stakeholders in the region, the project review process needs to include consideration of EJ concerns. EJ seeks to redress inequitable distribution of environmental burdens (i.e. pollution, industrial facilities) and access to environmental goods (i.e. clean water and air, parks, recreation, nutritious foods, etc.). EJ relies on willing awareness of impacts by project proponents and participation in decision making by affected stakeholders. In terms of an IRWM effort, the engagement and participation of stakeholders including DACs in the decision making process can be a proactive step in understanding project impacts that can become EJ concerns. In the project review process, a project that has not been examined for EJ concerns, or a project that is discovered to have EJ concerns, should not be instantly dismissed from consideration. However, addressing the lack of EJ assessment or modifying the project to mitigate EJ concerns may allow the project to move forward.

G. Project Costs and Financing

Project costs need to be considered during the project review process. The basis for the project costs needs to be documented in the IRWM Plan. For example, a sewage treatment plant upgrade is based on a conceptual idea, feasibility study, partial design, etc. If a cost estimate has been prepared for the project, a link to that estimate needs to be included in the IRWM Plan. Discuss the funding sources for the project. Is it with a State grant funded program, through regional assessments, or another funding method?

H. Economic Feasibility

As part of the project review process, the economic feasibility of a project should be considered. DWR's "Draft Economic Analysis Guidebook" (Guidebook), published in January 2008, outlines methods for economic analysis for water resources planning and can be downloaded from the link found in Appendix A.

A preliminary economic analysis must be included as part of the criteria in the project selection process based upon an original assessment of the proposed project or studies conducted within the past five years and updated to most current data available. Either a cost-effectiveness or benefit-cost analysis may be used for the preliminary assessment depending on the nature of the project. Both of these methods are outlined in Chapter 3 of the Guidebook. For example, a cost-effectiveness analysis may be preferable for habitat restoration projects for which it is difficult to assign monetary benefits. The chosen method of analysis must include the types of benefits and types of costs including capital costs, O&M costs, and potential adverse effects to others from the project, described in the Guidebook (See Guidebook pages 14 and 22).

I. Project Status

In reviewing projects for prioritization in the IRWM Plan, the RWMG should consider the status of the project. Project status is equivalent to readiness to proceed. Readiness to proceed or project status is not necessarily a reason for project exclusion from an IRWM Plan. As the planning horizon for an IRWM Plan is 20-years or more, even a conceptual project should be considered as it may be projected to have benefits that would be worth realizing by developing the project or by leading towards an alternate, integrated, or modified project.

Project status may have to be reconsidered as implementation projects are matched with sources of funding. Funding sources may want projects completed within certain time limits. However, it is also true that some funding sources may cover some developmental phase of a project. RWMGs are encouraged to understand conditions of the specific funding sources they use so they can select programs, projects, or project components most appropriate for a specific funding source.

J. Strategic considerations for IRWM Plan implementation

One of the advantages of IRWM planning is to use the regional perspective to leverage any efficiency that might be gained by combining or modifying local projects into regional projects. In reviewing projects for inclusion in the IRWM Plan, the RWMG must consider a project's merit in light of strategic aspects of plan implementation such as:

- Purposefully restructuring or integrating projects
- Purposefully implementing a project as is
- Purposefully meeting project goals with an alternative project/modified project
- Plan objective priorities
- Purposefully implementing regional projects
- Purposefully implementing projects with multi-benefits

Often times, an IRWM Plan in early development stages may focus on just getting project solicitations implemented and producing a project list. RWMGs are encouraged to go further and take a look at strategic considerations as there may be benefit for multiple stakeholders. This factor acknowledges that there may be benefit in integrating local projects or project goals in developing regional projects. There is also value in examining projects for potential integration efforts and then deciding that a project is best implemented as submitted to achieve plan implementation. DWR expects RWMGs to take advantage of regional planning and integrating projects where possible, and explaining when a single purpose project needs to be implemented in order to best implement an IRWM Plan.

K. Contribution of the project in adapting to the effects of climate change

In developing the picture of water management issues over the planning horizon, RWMGs must include potential effects of climate change on their region and consider if adaptations to their water management system are necessary. The standard on climate change contains more specific instructions assessing effects of climate change and adaptation to that change.

L. Contribution of the project in reducing GHG emissions as compared to project alternatives

The IRWM Plan must span at least a 20-year planning horizon. In the State's effort to adapt to climate change and reduce GHG emissions, the RWMG needs to consider a project's ability to help the IRWM region reduce GHG emissions as new projects are implemented. Considerations include energy efficiency and reduction of GHG emissions when choosing between project alternatives. See the guidance on Climate Change below, for more discussion on this topic.

Impacts and Benefits

The intent of this standard is to document potential impacts and benefits of implementation of the IRWM Plan and to clearly communicate those impacts and benefits to stakeholders. The IRWM Plan must contain a screening level discussion of the potential impacts and benefits of plan implementation. The screening level analysis should help any reader of the IRWM Plan begin to understand the potential impacts and benefits of implementing the IRWM Plan. This means the benefit/impact analysis does not have to be extensive or exhaustive.

In the development of an IRWM Plan, it is likely that participants understand the potential benefits to be gained by implementing a regional plan and some of the impacts that may occur. One assumption regarding this standard is that extensive impact and benefit analyses usually occur closer to project implementation than plan development. The list of implementation projects may change as the IRWM planning effort matures; consequently, it may be difficult if not impractical to provide an extensive analysis of impacts and benefits within the IRWM Plan.

The impact and benefit analysis in the IRWM Plan should also serve as a benchmark as the Plan is implemented and Plan performance is evaluated; that is, have the potential benefits been realized or have unanticipated impacts occurred? Since a simplified impact and benefit analysis is included in the IRWM Plan, the Plan must clearly state when more detailed project-specific impact and benefit analyses will occur and that the more detailed analysis will occur prior to any implementation activity.

Many IRWM Plans present and discuss tables of the potential impacts and benefits of Plan implementation. Often times the building blocks of this information are the potential impacts and benefits anticipated from implementing projects. RWMGs may want to organize potential impacts and benefits to emphasize different aspects of their Plan, such as regional benefits, local benefits, by resource management strategy, or objective.

In presenting impacts and benefits information in an IRWM Plan, RWMGs should consider using tables to convey the potential impacts and benefits in an organized, understandable fashion. An example of a table, which shows impacts and benefits specific to the IRWM Plan, is shown below:

Table 4 – Impacts and Benefits Example

	Within IRWM Region		Inter-regional	
Program	Potential Impacts	Potential Benefits	Potential Impacts	Potential Benefits
Water Supply Enhancement				
Water Quality Improvement				
Groundwater Improvements				
Water Conservation and Reuse				
Watershed Rehabilitation				
Habitat Improvement				
Flood Management				

NOTE: Level of impacts or benefits can be discussed as primary and secondary, by qualitative indicators, using monetary values, or other methods to show relative degree of impact or benefit. Impacts and benefits to DAC and EJ concerns must be discussed.

In the example above, RMS, project types, objectives, or other similar categories that are named in the IRWM Plan could be used to replace "Program". IRWM Plans have various approaches on how to discuss impacts and benefits. As a plan is implemented and Plan Performance data are gathered, the Impacts and Benefits section of the IRWM Plan must be reviewed and updated as part of the normal plan management activities (see Plan Performance). These updates should reflect changes to the Impacts and Benefits section from any data gathered, and any changes to the implementation projects listed in the IRWM Plan.

The following text provides examples of impacts and benefits for the programs used in the example table above.

WATER SUPPLY ENHANCEMENT

A program to increase water supply may include projects, such as:

- Rehabilitation of diversion structures
- Water supply pipelines and water systems
- Additional water system tie-ins/interconnections
- Construction of groundwater treatment and extraction facilities
- Conjunctive water management
- Aquifer storage and recovery
- New or upgrades to existing reservoirs
- Water storage facilities
- Production well construction

Possible impacts may include reduced in-stream flow, water quality degradation, habitat removal, species removal, flooding, loss of farmland, and construction related impacts. Some of the proposed projects may have impacts on communities, including DACs. If so, these impacts need to be discussed. If there are any EJ impacts, they should be addressed as well. Water supply benefits may be characterized as increased water supply or range in water supply (i.e. acre-feet per year). Other anticipated benefits, such as improved water quality, increased recreational opportunities, decreased reliance on imported water, reduced groundwater overdraft, creation of wetlands and riparian habitat, and decreased operational costs.

WATER QUALITY IMPROVEMENT

A program to improve water quality may include projects, such as:

- Building or upgrading wastewater treatment plants/technology
- Conversion of septic tanks to a sewer system
- Construction of new and updating collection, sewer, and interceptor sewer facilities
- Capture and treatment of stormwater/urban runoff, including the construction of rain gardens
- Construction of wetlands for water quality treatment
- Contaminant removal
- Salinity management

Possible impacts may include construction related impacts including short-term, site-specific impacts related to site grading and construction, and long-term impacts associated with project operation. Construction-related

impacts may include: traffic, noise, biological resources, water quality, public services and utilities, cultural resources, and aesthetics. Other impacts may include surface water and ocean habitat loss from new outflow locations, and waste discharge issues associated with brine management and brine disposal. Possible benefits from improved water quality projects may include increased water supply, improved aquatic and wetland species habitat and populations, increased cropland production, creation of wetlands and riparian habitat, improved recreation opportunities, and decreased treatment costs.

Groundwater Improvements

Groundwater improvement programs may include projects to:

- Enhance conjunctive management and groundwater storage
- Capture and recharge Stormwater/Urban Runoff
- Install groundwater recovery wells
- Construct new and/or rehabilitate surface water recharge spreading grounds
- Perform aquifer storage and recovery
- Improve groundwater monitoring
- Conduct hydrogeologic investigations
- Model groundwater

Possible impacts may include construction related effects, changes in water quality, increased contaminant transport, increased pumping, and in-stream flow reduction. Possible benefits may include improved flood protection, decreased reliance on imported water, reduced surface water use, reduced pumping costs, and decreased or prevention of groundwater overdraft.

Water Conservation and Reuse

Water conservation and reuse programs may include projects to:

- Upgrade wastewater treatment facilities to recycle water
- Landowner and homeowner incentive programs, such as rebate programs
- Improve agricultural drainage water reuse or management
- Construct recycled water systems and pipelines
- Improve urban landscape water use efficiency

Possible impacts may include construction related effects, loss of drainage flow to downstream water users, in-stream flow loss, groundwater and surface water quality effects associated with recycled water use, and reduced groundwater recharge. Benefits could be increased water saving, efficient reuse of wastewater, costs savings from reduced purchases of imported water, and saving construction of water storage facilities, and increased nutrient levels for plant and crop use from use of reclaimed wastewater.

Watershed Rehabilitation

A watershed rehabilitation program may include projects to:

- Decommission abandoned roads
- Enhance unimproved and county road systems for erosion control
- Restore sloughs and/or wetlands
- Manage Stormwater/Urban Runoff

- Conduct channel and riparian restoration and upland source control
- Conduct stream stabilization and other sediment load reduction projects
- Implement BMPs, including forestry BMPs
- Reduce non-point source pollution

Possible impacts could be introduction of non-native plants for erosion control and temporary increased turbidity in streams due to construction or related activities, including revegetation and forest regeneration activities and prescribed fires (to reduce undesirable trees and vegetation, etc.). Benefits may include long-term sediment reduction and temperature improvements, reduced surface water nutrient and bacteria concentrations (improved water supply quality), improved fish and wildlife habitat and passage, and enhanced public safety and recreational opportunities.

HABITAT IMPROVEMENT

A habitat improvement program may include projects to:

- Augment stream flows
- Preserve existing habitat
- Remove invasive, non-native species
- Restore wetlands and upland habitat
- Protect ecological reserves

Possible impacts could include short-term, site-specific impacts related to site grading and construction, loss of agricultural land protection and urban uses and associate local revenue. Benefits may be reduced surface water nutrient and bacteria concentrations (improved water supply quality), enhanced fish habitat, increased opportunities for recreational hunting and viewing, increased numbers of native species, reduced flood risks, and education opportunities.

FLOOD MANAGEMENT

Flood management programs may include projects to:

- Improve levee systems (i.e. floodwalls, raising levee heights, setback levees, etc)
- Preserve floodplains
- Development drainage master plans
- Remove invasive species from stream channels to improve surface flow
- Improve stormwater collection, diversion, or capture
- Improve infrastructure, including weir upgrades

Impacts may include short-term, site-specific impacts related to construction, land use restrictions, development moratoriums (with potential economic effects), and loss of riparian and/or wetland acreage. Benefits could include increased aquifer recharge, runoff reduction, improved surface water quality, natural resources preservation and restoration, reduced risk to life and property, and decreased flood insurance costs.

Plan Performance and Monitoring

The intent of the Plan Performance and Monitoring Standard is to ensure:

- The RWMG is efficiently making progress towards meeting the objectives in the IRWM Plan.

- The RWMG is implementing projects listed in the IRWM Plan.
- Each project in the IRWM Plan is monitored to comply with all applicable rules, laws, and permit requirements.

This standard is consistent with PRC §75026.(a), which states that IRWM Plans "shall include performance measures and monitoring to document progress toward meeting plan objectives."

Monitoring performance should be closely related to the implementation of projects. This discussion is written assuming the details of projects will be identified during planning, design, plans and specifications stages of development. Details related to implementation of specific projects in the IRWM Plan are not necessary. Rather, the IRWM Plan needs to contain the criteria that will be used to evaluate the progress to meet plan objectives and the process that will link project completion to IRWM Plan implementation.

To guide the RWMG in implementing IRWM projects, the IRWM Plan needs to:

- Contain an explanation of whom or what group within the RWMG will be responsible for IRWM implementation evaluation.
- List the frequency of evaluating the RWMG's performance at implementing projects in the IRWM Plan (monthly, semi-annual, yearly, etc).
- Explain how IRWM implementation will be tracked with a Data Management System (DMS), and who will be responsible for maintaining the DMS.
- Discuss how findings or "lessons learned" from project-specific monitoring efforts will be used to improve the RWMG's ability to implement future projects in the IRWM Plan. For example, after review of the RWMG performance measures, the RWMG may need to amend the RMS or the actual IRWM objectives to account for new scientific data, and regional changes in conditions that can alter baseline assumptions or understanding of water management issues discussed in the IRWM Plan. Any amendments to the RMS or objectives will need to adequately identify water demand, water supply, water quality protections, and environmental stewardship actions that provide long-term, reliable, and high-quality water supply; including water supply to DACs. The standards and guidance for amendments to the IRWM Plan are contained in Governance Standard.
- Identify who has the primary responsibility for development of the project-specific monitoring plans and who is responsible for project-specific monitoring activities.
- Specify the stage of project development that a project-specific monitoring plan will be prepared
- Provide an explanation of typically required contents of a project-specific monitoring plan including, but not limited to, the following:
    1) Clearly and concisely (in a table format) describe what is being monitored for each project. Examples include monitoring for water quality, water depth, flood frequency, and effects the project may have on habitat or particular species (before and after construction).
    2) Measures to remedy or react to problems encountered during monitoring. An example would be to coordinate with the Department of Fish and Game if a species or its habitat is adversely impacted during construction or after implementation of a project.
    3) Location of monitoring
    4) Monitoring frequency
    5) Monitoring protocols/methodologies, including who will perform the monitoring
    6) DMS or procedures to keep track of what is monitored. Each project's monitoring plan will also need to address how the data collected will be or can be incorporated into statewide databases. Note that standards and guidance related to the integration of data into statewide databases is included in the Data Management Standard.

7) Procedures to ensure the monitoring schedule is maintained and that adequate resources (including funding) are available to maintain monitoring of the project throughout the scheduled monitoring timeframe.

Data Management

The intent of the Data Management Standard is to ensure efficient use of available data, stakeholder access to data, and to ensure the data generated by IRWM implementation activities can be integrated into existing State databases.

As specified in the Integration Standard, IRWM Plans should contain common protocols that gather data in a consistent manner, and processes for data and information sharing that assist all IRWM stakeholders in their local efforts, as well as regional efforts. Data integration is best achieved through the use of common and compatible methods for data gathering, analysis, monitoring, and reporting systems used by members of the RWMG. The data management description in the IRWM Plan should be of sufficient detail so that it is clear to stakeholders how data are collected, validated, and shared in the region. At a minimum, the data management description in the IRWM Plan should include the following:

- A brief overview of the data needs within the IRWM region
- A description of typical data collection techniques
- A description of how stakeholders contribute data to a DMS
- The entity responsible for maintaining data in the DMS
- A description of the validation or quality assurance/quality control measures that will be implemented by the RWMG for data generated and submitted for inclusion into the DMS
- An explanation of how data collected for IRWM project implementation will be transferred or shared between members of the RWMG and other interested parties throughout the IRWM region, including local, State, and federal agencies
- An explanation of how the DMS supports the RWMG's efforts to share collected data
- An outline of how the data saved in the DMS will be distributed and remain compatible with State databases including CEDEN, Water Data Library (WDL), CASGEM, California Environmental Information Catalog (CEIC), and the California Environmental Resources Evaluation System (CERES).

The following section provides specific guidance on a variety DMSs maintained by the State. These materials are not exhaustive, but are intended to provide RWMGs with general direction and useful web links for finding additional information on the subject of integrating data into State databases. In general, State databases have specific requirements for data submittal (format and procedural) that will need to be followed. RWMGs need to consider what State databases they may be contributing data to, because the legislation supporting a given grant program may specify a State database for data submittal.

For geospatial data collected by RWMG members, data maintained by the region should be accompanied by applicable metadata that describes each data set (including projection and datum information, dataset description, data lineage, etc.).

California Environmental Data Exchange Network – CEDEN is a system designed to facilitate integration and sharing of data collected by many different participants. The CEDEN data templates are available on the CEDEN website: http://www.ceden.org.

Water Data Library – DWR maintains the State's WDL which stores data from various monitoring stations, including groundwater level wells, water quality stations, surface water stage and flow sites, rainfall/climate observers, and well logs. Information regarding the WDL can be found at: http://wdl.water.ca.gov/.

California Statewide Groundwater Elevation Monitoring Program – CWC §10920 *et seq*. establishes a groundwater monitoring program designed to monitor and report groundwater elevations in all or part of a basin or sub-basin. These requirements also limit counties and various entities (CWC §10927.(a)-(d), inclusive) ability to receive State grants or loans in the event that DWR is required to perform ground monitoring functions pursuant to CWC §10933.5. Requirements of the CASGEM Program can be found at the following link: http://www.water.ca.gov/groundwater/casgem/.

Surface Water Ambient Monitoring Program –The SWRCB has developed required standards for SWAMP. Any group collecting or monitoring surface water quality data, using funds from Propositions 13, 40, 50, and 84 must provide such data to SWAMP. More information on SWAMP is available at the following link: http://www.swrcb.ca.gov/water_issues/programs/swamp.

Groundwater Ambient Monitoring and Assessment program – GAMA provides a comprehensive assessment of water quality in water wells throughout the State. GAMA has two main components, the California Aquifer Susceptibility (CAS) assessment and the Voluntary Domestic Well Assessment Project. The CAS combines age dating of water and sampling for low-level volatile organic compounds to assess the relative susceptibility of public supply wells throughout the State. The Voluntary Domestic Well Assessment Project provides sampling of water quality in domestic wells, which will assist in assessing the relative susceptibility of California's groundwater to contaminants. Because water quality in individual domestic wells is unregulated, the program is voluntary and will focus, as resources permit, on specific areas of the State. Constituents to be analyzed include nitrate, total and fecal coliform bacteria, methyl tert-butyl ether, and minerals. Additional information on the GAMA program is available at: http://www.swrcb.ca.gov/gama.

California Environmental Information Clearinghouse – The California Natural Resources Agency (CNRA) maintains the CEIC, which is a statewide metadata clearinghouse for geospatial data. The CEIC is accessible at: http://ceic.resources.ca.gov/. The online directory is used for reporting and discovery of information resources for California. Participants include cities, counties, utilities, State and federal agencies, private businesses, and academic institutions that have spatial and other types of data resources.

Integrated Water Resources Information System – DWR maintains IWRIS, which is a data management tool for water resources data and not a database. IWRIS is a web based GIS application that allows entities to access, integrate, query, and visualize multiple sets of data simultaneously. Information on IWRIS is available at: http://www.water.ca.gov/iwris/

California Environmental Resources Evaluation System – CERES is an information system developed by CNRA to facilitate access to a variety of electronic data describing California's rich and diverse environments. The goal of CERES is to improve environmental analysis and planning by integrating natural and cultural resource information from multiple contributors and by making it available and useful to a wide variety of users.

Finance

The intent of the Finance Standard is to ensure that financing of the IRWM Plan has been considered at a programmatic level by the RWMG; and that a snapshot of financing is documented for stakeholders. Most of the cost of developing, maintaining, and implementing an IRWM Plan must be borne by local entities with State grant funding providing a necessary, but relatively small, supplement in funds. With potentially multiple sources of funding being accessed to formulate, maintain, and implement an IRWM Plan, documentation of how the funding pieces fit together is necessary for the RWMG and its stakeholders to understand how the plan will be implemented.

Sources of Funding

The IRWM Plan must contain the following items:

- A program-level description of the sources of funding, which will be utilized for the development and ongoing funding of the IRWM Plan.

- The potential funding sources for projects and programs that implement the IRWM Plan.

In addition to demonstrating potential funding for project construction, the IRWM Plan should also contain a discussion of the potential sources of funding for project O&M.

It may be useful for the IRWM Plan to present financing options in a tabular format. The table(s) should list sources of funding that the RWMG has obtained or may pursue to finance the IRWM Plan, the associated implementation projects, and O&M costs. Sources of funding may include, but are not limited to:

- Ratepayers
- Operating funds
- Water Enterprise funds
- Special taxes, assessments, and fees
- State or federal grants and loans
- Private loans
- Local bonds

Certainty of Funding

The table should also include an indication of the certainty and longevity of the funding sources. For example, if the RWMG indicates that it is targeting a State grant program to fund an implementation project, the RWMG should discuss the following items:

- Whether the funding has been secured via grant award with the State and the status of associated grant agreement.
- Whether an application for funding has or will be submitted at a future date.

Table 5 below is one option for presenting information regarding IRWM Plan financing.

Table 5 – IRWM Plan Financing Example

Activity Description	Approx Total Cost	Funding Source & % of Total Cost	Funding: Certainty/Longevity	O&M Finance Source	O&M Finance Certainty
IRWM planning efforts	$850,000	Local Partners – MOU, 100%	Contingent on continued success in grant programs. Secure through fall, 2011.	NA	NA
Implementation Project #1	$10M	XY water agency, 50%	Secure, part of XY agency current capital improvement budget.	XY water agency budget	Secure- 2011 O&M budget.
		Grant-Prop 84, 30%	Application will be submitted FY 11/12	NA	NA
		Federal Grant, 20%	Tentative award, contingent on State funding.	NA	NA
Implementation Project #2	$250,000	State Grant, DAC assistance, DWR, 100%	Application submitted, in review.	Agency YY, operational budget	Secure, rate increase covers O&M costs

The RWMGs may condense or expand activity descriptions as they see fit. As an example, it may be helpful for an RWMG to break the costs of the functional effort into categories if those categories have separate funding sources, or present only the priority projects that are well defined.

Although a table listing the information described may satisfy the standard, the RWMGs should include any additional explanatory text that would help a stakeholder understand how the IRWM Plan would be financed.

The list described in the table above should also contain information on how project O&M costs will be paid and the certainty of O&M funding. O&M costs are not eligible costs for grant reimbursement by the IRWM grant programs and most other State financial assistance programs.

The purpose of this standard is not to document that all funding has been fully secured. DWR wants to see that the RWMG has thought through financing of the Plan and implementation projects and programs even though substantial uncertainty regarding funding may exist. It is recommended that RWMGs do not overly rely on grant awards, but look at other forms of consistent, secure, long-term sources of funding, such as general funds or rate-based funds.

Technical Analysis

The intent of this standard is to document that the IRWM Plan is based on sound technical information, analyses, and methods. The IRWM planning horizon is for a minimum of 20 years. The objectives, RMS, and implementation projects contained in the IRWM Plan are based on the water management needs forecasted within that planning horizon. The Technical Analysis Standard requires a discussion in the IRWM Plan that explains the technical information, methods, and analyses used by the RWMG to understand the water management needs over the planning horizon.

TECHNICAL INFORMATION

Provide a brief description of the technical information sources and/or data sets used to develop the water management needs in the IRWM Plan. Explain why this technical information is representative or adequate for developing the IRWM Plan. For example, how the technical information represents the current conditions, the scope of historic highs and lows, or the best forecast for future years, etc.

Data sets may be from studies, historical records, monitoring activities, or investigations. It is not necessary to include the technical information and literature reviewed in the IRWM Plan development, but the Plan should provide references and brief descriptions.

The IRWM Plan should identify data gaps where additional monitoring or studies are needed, and should also describe how the Plan will help bridge these data gaps.

TECHNICAL ANALYSES AND METHODS

Provide a description of studies, models, or other technical methodologies used to analyze the technical information and data sets. Explain how such studies, models, or technical methodologies aid the RWMG's and stakeholders' understanding of the water management picture for the period of the planning horizon.

In describing technical analyses and studies, it is not necessary to have an exhaustive discussion of each type of analysis and study performed, nor all copies of raw input and output files, nor inclusion of every study used. Provide summary information, such as what the particular technical analysis does; what are the outcomes; what is the certainty or uncertainty involved in the analysis; or how the outcomes are applied to the planning horizon.

Examples of possible studies/data sets are shown in Table 6. The listed items in the table are examples only. For a specific IRWM Plan, there are likely to be more items to document. Any referenced data should be made available to the public upon request.

Table 6 – Possible Studies/Data Sets				
Data or Study	Analysis Method	Results/Derived Information	Use in IRWM Plan	Reference or Source
Population Growth Study	Statistical Analysis	Future Population	Used to calculate future water demand.	Census Bureau
Surface Storage Capacity Study	HEC-ResSim	Current Reservoir Capacity	Used to calculate current surface capacity.	Army Corps of Engineers
Floodplain Analysis	HEC-RAS, HEC-FDA	Identify flood areas and potential damage	Used to prioritize levee repairs.	Army Corps of Engineers
Water Use Study	Review of existing records	Current water use	Used to evaluate current water supply system and as basis for future water supply needs.	Local Water Purveyor
Additional studies to be added as necessary:				

Relation to Local Water Planning

The intent of the Relation to Local Water Planning Standard is to ensure the IRWM Plan is congruent with local plans, and that the Plan includes current, relevant elements of local water planning and water management issues common to multiple local entities in the Region. Regional planning does not replace or supersede local planning, rather regional planning should appropriately incorporate local planning elements. Per CWC §10540(b), the IRWM Plan must describe how the RWMG has or will coordinate its water management planning activities to address or incorporate all or part of the following actions of its members:

- Groundwater Management
- Urban Water Management
- Water Supply Assessments
- Agricultural Water Management
- City and County General Planning
- Other resource management planning including:
  - Flood Protection
  - Watershed Management
  - Multipurpose Program Planning

Other resource planning efforts should also be considered including:

- LID
- Stormwater Management
- Salt and Salinity Management
- Emergency Response, Disaster Plans

When describing how the local plan relates to the IRWM Plan and the dynamics of that relationship include the following:

- Jurisdiction of local plans and how they apply or not to the IRWM Plan
- When the local plan is updated and how/when any updates will be considered in the IRWM Plan
- How regional planning efforts may feedback to local planning efforts
- If inconsistencies between local and regional plans are identified, how those might be resolved

For example, a local GWMP may set extraction limits for a specific groundwater basin. The IRWM Plan should be consistent with those limits. Are there other groundwater basins in the region with or without GWMPs? If so, how does the IRWM Plan coordinate with those plans or lack of plans, and what does that mean to those adopting and implementing the IRWM Plan?

Therefore, the relationship between local plans and the IRWM Plan must consider and incorporate:

- Consistency and coordination regarding local plan content and the IRWM Plan content
- Relevant, accurate, and current local plan information and references upon which the IRWM Plan is based
- Water management issues and climate change adaptation and mitigation strategies from local plans into the IRWM Plan
- Limits, levels, management tools or criteria relevant to water management in local plans that are applicable to the IRWM Plan

Effective, integrated, and consistent water planning and management is imperative both now and in the future, as California faces increasing challenges in managing its water supply due to climate change, increasing water demand as California's population increases, and uncertainty regarding the availability of water from the Sacramento-San Joaquin Delta and other sources.

Relation to Local Land Use Planning

The intent of the Relation to Land Use Planning Standard is to require an exchange of knowledge and expertise between land use and water resource managers; examine how RWMGs and land use planning agencies currently communicate; and identify how to improve planning efforts between the RWMGs and land use planning agencies.

A goal of CWP Update 2009 is to ensure water managers and land use planners make informed, collaborative water management decisions on a statewide basis. For land use planners and water managers, meeting this goal will require improved, effective coordination among all parties at the federal, State, and local levels with attention on the RMS identified in CWP Update 2009.

Every city and county in California must adopt a comprehensive long-term General Plan in accordance with Section 65300 of the California Government Code. There are seven required elements of a General Plan including Land Use, Circulation, Housing, Conservation, Open Space, Noise, and Safety, which provide a broad overview of the issues within a jurisdiction. Water-related supply and treatment issues are included in the Conservation element. Policies that must be addressed in the Conservation element include the following:

- SB 221 (Bus. and Prof. Code, §11010 as amended; Gov. Code, §65867.5 as amended; Gov. Code, §66455.3 and 66473.7) prohibits approval of subdivisions consisting of more than 500 dwelling units unless there is verification of sufficient water supplies for the project from the applicable water supplier(s). This requirement also applies to increases of 10 percent or more of service connections for public water systems with less than 500 service connections.
- SB 610 (CWC §10631, 10656, 10910, 10911, 10912, and 10915 as amended; PRC §21151.9 as amended) and AB 901 (CWC §10610.2 and 10631 as amended; CWC §10634) make changes to the Urban Water Management Planning Act to require additional information in UWMPs if groundwater is identified as a source available to the supplier. A key provision in SB 610 requires that any project subject to the CEQA and supplied with water from a public water system be provided a water supply assessment, except as specified in the law.
- State of California General Plan Guidelines (Governor's Office of Planning and Research (OPR) 2003) recommends facilitating SB 610 by having strong water elements in local general plans that incorporate coordination between the land use agency and the water supply agency.

Even with such advances in policy, efforts to link land use decisions and water management decisions remains an area of challenge. Land use decisions and water management decisions are often under the purview of different agencies, yet the resources each agency manages are inextricably linked. Often, the relationship among these agencies is characterized as reactive in that one agency must act to accommodate a decision the other agency has made. Early communication is vital in changing the relationship from reactive to proactive.

IRWM and the Link between Water Management and Land-Use Planning

IRWM plans seek to solve regional water management issues through diversified water management portfolios and early water management input into and coordination with those responsible for making land use decisions and implementing land use changes. This relationship can significantly influence how both water management decisions and land use decisions are made.

Consider the opportunities RWMGs may provide to land use planners for input. Some instances where this may occur could be:

- Floodplain management
- Flood control planning
- Groundwater recharge and conjunctive water use
- Treatment and conveyance facilities
- Stormwater and runoff management
- Water conservation efforts
- Watershed management and restoration

Alternately, consider opportunities land use planners may utilize to provide input to RWMGs, such as:

- Municipal landscaping programs
- Public access and recreational area management
- Changes in land use that affect water resources
- General plan updates and long-term planning
- Planning review
- Development review
- Water supply for public safety and emergency planning purposes
- Habitat management

These are merely a few, general examples where coordination among land use and RWMGs could result in more efficient IRWM planning and implementation. Since the IRWM planning effort often encompasses large regions and has an increased probability of including larger more costly projects, the importance of open lines of communication between land use planners and RWMGs is imperative to a successful IRWM effort.

Describing the current relationship between local land use planning entities and water management entities

The IRWM Plan must contain a description of how water management input is considered in land use decisions, and vice-versa, in the Region. When describing the relationship, include the following considerations:

- How land use planning entities and RWMGs interact. Describe any existing forums, policies, projects, etc. that illustrate this relationship. These interactions do not have to be specifically related to the IRWM, but in the description, clearly explain if the meetings or forums are part of IRWM meetings or part of other

planning (land use) efforts within the Region. For example, do water managers and land use planners interact in a forum, such as planning commission meetings?

- Do water managers provide input at county supervisor or city council meetings regarding project or land use decisions that may impact water supply or water quality?
- Are land-use planners a part of the IRWM governance structure or are they included on the RWMG's project selection committee? Do both groups openly exchange information pertinent to the other?

Characterizing the current land use-water use planning relationship in the IRWM Region will help illustrate the context in which IRWM activities are planned and implemented and where communication and coordination can be extended or improved.

DESCRIBING FUTURE EFFORTS IN THE PROCESS OF ESTABLISHING A PROACTIVE RELATIONSHIP BETWEEN LAND USE PLANNING AND WATER MANAGEMENT

With the current relationship identified, determine what opportunities exist in the future for a better working relationship between water managers and land use decision makers. Consider how the IRWM Plan could facilitate improvements to the relationship described in the section above. Some points to consider are:

- Internal planning and coordination changes that would need to occur within RWMGs.
- Improvements which could be made to the mechanisms for interacting with the land use planning community.
- Possible avenues for the RWMG to facilitate internal changes within the land use planning community.
- Future forums, policies, and projects that could improve water management efforts in IRWM Regions. For example, regular RWMG meetings between water managers and land use planners to discuss regional water issues and concerns.
- Water management projects that meet various water supply and water quality objectives while still being compatible with existing and planned future land use designations, and providing the type of projects the IRWM Program desires.
- The Ahwahnee Principles for Resource Efficient Land Use, developed by water resource policy and management experts, advocate a more proactive relationship between land use and water management. The first implementation principal of the Ahwahnee Principles is early consultation with water managers on land use decisions (http://www.lgc.org/ahwahnee/h2o_principles.html).
- How improved interaction between water managers and land use planners can advance the implementation of the IRWM Plan.
- Utilizing current land use and water issues and identify planning strategies which may be implemented or explored in the future through the IRWM process.

Focusing on and acting in a purposeful, collaborative, and informed manner regarding regional land use planning and water management will assist California in successfully managing multiple water demands throughout the State, as described in CWP Update 2009, adapting water management systems in regions to climate change, and potentially offsetting climate change impacts to water supply in California.

Stakeholder Involvement

The intent of the Stakeholder Involvement Standard is to ensure the RWMGs give the opportunity to all stakeholders to actively participate in the IRWM decision making process on an on-going basis.

Changes to the CWC have expanded the definition of a RWMG. CWC §10539 defines a RWMG as:

> "a group in which three or more local agencies, at least two of which have statutory authority over water supply or water management, as well as those other persons who may be necessary for development and implementation of a [IRWM] Plan…"

This section of the CWC recognizes the collaborative nature of IRWM planning. IRWM Plans rely on stakeholder involvement to gather regional information and make regional decisions. It is important for RWMGs to pursue stakeholder involvement and use processes that support stakeholder inclusion and active participation.

The opportunity for a stakeholder to become involved is not limited to the beginning stages of plan development. A stakeholder may become involved later as their awareness of IRWM increases or new issues or concerns develop. Stakeholders cannot be forced to participate, but the IRWM Plan must contain and the RWMG must implement protocols to continually invite and involve stakeholders in the process. "Continually invite" does not mean that the RWMG must engage in a continuous, intense stakeholder solicitation campaign. DWR's intent is that "continually invite" means that an RWMG adopts an open-door stance and has the processes in place so that any person can contact the RWMG and the RWMG will orient them to the various IRWM processes, encourage them to access information about the RWMG and its IRWM Plan, and inform them how they can participate.

Stakeholders Composition

The IRWM Plan should contain a listing of the stakeholders participating in the planning effort as documentation that the RWMG is a collaborative effort with participation from varied stakeholders. The stakeholder group should reflect a broad cross-section of stakeholders. CWC §10541(g) identifies the following as potential stakeholders in a region:

- Wholesale and retail water purveyors
- Wastewater agencies
- Flood control agencies
- Municipal and county governments and special districts
- Electrical corporations
- Native American tribes
- Self-supplied water users
- Environmental stewardship organizations
- Community organizations
- Industry organizations
- State, federal, and regional agencies or universities
- DAC members
- Any other interested group appropriate to the region

Process used to identify stakeholders

The IRWM Plan must contain processes that provide outreach and an opportunity to participate in plan development and implementation. In order to meet this criterion, the IRWM Plan must have a means to identify potential stakeholders; share information; and invite and involve stakeholders in the IRWM process. While the processes used likely perform a combination of those functions in a single process, we discuss each function separately in these guidelines. Processes may be contained in a variety of sections in an IRWM Plan and do not have to exist in a single separate section of the Plan. These processes can exist in a separate stakeholder outreach plan (outside of the IRWM Plan), but the IRWM Plan should contain a reference to the location of that plan.

There are no DWR supplied protocols as each IRWM region will have differing relationships among the various stakeholders. However, the following guidance is provided in developing protocols specific to your IRWM region. When developing processes for identifying stakeholders, consideration must be given to not only the easily identified stakeholder, but also the less obvious stakeholder. Often, an initial list of stakeholders may unintentionally omit important segments of the IRWM region. These include stakeholder groups who are not usually well represented in the process of planning or project development. Multiple avenues of identifying stakeholders are needed in any IRWM Plan. Examples of processes used to identify stakeholders include, but should not be limited to the following items:

- Open announcements of IRWM meetings that invite new stakeholders (self-identification)
- Recommendation of additional stakeholders from those already involved in the IRWM Plan
- Identification of stakeholders through water management issues in the region
- Targeted outreach to underrepresented groups

Disadvantaged Communities

Multiple definitions of a DAC exist in California statutes. For the purposes of Proposition 84 funding, PRC §75005.(g) defines a DAC as "a community with a median household income less than 80% of the Statewide average." There is a financial opportunity for most RWMGs to seek out DACs in their region, as most State grants either give special consideration or preferences for projects that serve DACs, or have funding percentages set-aside for projects that help meet the needs of DACs. There may be some regions, where there will be very few, if any, communities that meet the statutory definition of a DAC. However, even in such regions there will be communities that are well below the median household income (MHI) for the region, and they should be specifically invited to participate in the IRWM planning and implementation process. The IRWM Plan should discuss how DACs in the region have been identified and what efforts have been/will be taken to include them in the RWMG or the IRWM planning effort.

Technology and Information Access

The processes that invite, inform, and seek to involve stakeholders in IRWM activities, must account for barriers to identified stakeholder participation. In this age of technology and information accessibility, we often unintentionally believe that all segments of our society have uniform access to all modern conveniences. When communication methods such as e-mail or web postings are used, we often assume everyone has received and understood the invitation or the transfer of information. Particularly, when a RWMG has identified an often commonly overlooked group of stakeholders, extra efforts may be required to invite, inform, and involve stakeholders who may have different needs and perspectives than the majority. Those extra efforts may consist of special considerations such as access to public transportation when determining meeting places; shifting times of meetings so certain stakeholder groups can attend; or translation services, including telecommunications device for the deaf (TDD/TTY) services. Such outreach techniques should be part of the IRWM Plan's written stakeholder involvement processes. Processes that invite, inform, and involve stakeholders should also consider that not all stakeholders will participate in the development of the IRWM Plan. Processes should include ways to orient and involve stakeholders whenever they approach the RWMG. This may be as simple as an available phone number and contact person that people new to the IRWM process can call.

Decision Making Process

Part of involving stakeholders in the IRWM process is making clear how someone can participate. As such, the IRWM Plan must contain clear description of the following:

- Decision making processes
- The groups or committees involved
- The constitution of those groups

- The opportunities to contribute to those groups or the decision making process

From reading the IRWM Plan sections regarding decision processes, a stakeholder should understand the decision process, know how they can give input to the process, and know if they can serve on committees or groups, and know who they should contact should they have questions about the process or involvement in the process. The IRWM Plan can include diagrams or graphics as necessary to illustrate the process. For more information regarding the decision making process to be included in an IRWM Plan, refer to the Governance Standard.

Involving Stakeholders

The IRWM Plan must contain a discussion regarding how the stakeholders necessary to meet Plan objectives are either involved in Plan activities or are being invited to participate in Plan activities. This discussion is meant to inform readers of how input from a broad spectrum of stakeholders is necessary for effective plan implementation. There may be stakeholders that are not currently active in the planning effort, but whose input would increase the effectiveness of the IRWM Plan in meeting its objectives. Discuss what mechanisms the IRWM Plan includes that describe how stakeholders not currently involved in the IRWM Plan will be invited to participate. This discussion would likely be inserted in the section of the IRWM Plan pertaining to objectives or stakeholder outreach. DWR is interested in seeing that RWMGs utilize a broad perspective and that they are aware of stakeholders who are not currently active, but whose input would benefit attainment of IRWM Plan goals. Access to participate or be involved in the IRWM effort is not to be based on an individual's or group's ability to pay.

For more information on stakeholder involvement, refer to the following links:

dhs.wi.gov/managedLTC/grantees/pdf/info1stakeholder.pdf

http://coastalsmartgrowth.noaa.gov/elements/encourage.html

Coordination

The intent of the Coordination Standard is to ensure the following items:

- That a RWMG coordinates its activities with local agencies and stakeholders to avoid conflict within the region and to best utilize resources.
- That RWMGs are aware of adjacent planning efforts and are coordinating with adjacent RWMGs
- That the RWMGs are aware of State, federal and local agency resources and roles in the implementation of their plans and projects.

The IRWM Plan must identify a process for coordination of projects and activities and with local participants and stakeholders. The IRWM Plan must also discuss the various agencies and adjacent IRWM efforts identified for coordination. Through coordination among local agencies and between IRWM regions, IRWM efforts may reduce redundant actions; identify opportunities for cooperative projects; or discover that adjustments are needed in IRWM boundaries. Although the degree of coordination may vary among various RWMGs, DWR does expect that each RWMG have an understanding of the neighboring IRWM efforts and the way their management issues are similar or different. DWR also expects that the RWMG and project proponent's relationships be well enough established to take advantage of any cooperative project opportunities.

Coordination of Activities within an IRWM Region

The IRWM Plan must discuss the process by which a RWMG's local project proponents and stakeholders can coordinate their IRWM related activities and efforts. This process could include mechanisms such as the posting of proposed projects and stakeholder meetings on a website, a portion of every stakeholder meeting held by the RWMG set aside to discuss upcoming proposed projects and activities of interest to stakeholders, or the development of a team within the RWMG who would be responsible for bringing together local agencies and

stakeholders groups in a setting where their projects and activities could be discussed. In doing so, opportunities for combining activities or eliminating redundant or overlapping efforts could be realized.

Identification and Coordination with Neighboring IRWM Regions

The IRWM Plan must identify neighboring IRWM efforts and describe the coordination between the various planning efforts. Although adjacent RWMGs may function independently, coordination is still essential. If there are no adjacent IRWM regions bordering the IRWM region, then the IRWM Plan should indicate such. In the IRWM Plan, submit a map showing the IRWM region and any adjacent IRWM regions. Describe how the adjacent IRWM regions have similar and different water management issues from your own. Describe how your RWMG coordinates with adjacent RWMGs. Additionally, discuss any joint project opportunities and/or conflicts. If water management issues are similar to an adjacent IRWM region, explain if any discussions have taken place or are planned to consider consolidating into a single, larger, more regional IRWM region.

Coordination with Agencies

The IRWM Plan must contain a discussion of State, federal, and local agencies important to the development of the IRWM Plan and implementation of projects. Coordination with State, federal, or local agencies for implementation of projects may include, but is not limited to the following:

- State agencies, such as California Environmental Protection Agency (CalEPA), DWR, Department of Fish and Wildlife, SWRCB, RWQCBs, California Coastal Commission, and the Department of Public Health.
- Federal agencies, such as U.S. Army Corps of Engineers (USACE), U.S. Fish and Wildlife Service, U.S. Bureau of Reclamation, and the U.S. Environmental Protection Agency (USEPA).
- Local agencies, such as county flood control districts, public works departments, and environmental health departments.

Climate Change

California is already seeing the effects of climate change on hydrology (snowpack, river flows, storm intensity, temperature, winds, and sea levels). Planning for and adapting to these changes, particularly their impacts on public safety, ecosystems, and long-term water supply reliability, will be among the most significant challenges facing water and flood managers this century.

By design, IRWM planning efforts are collaborative and include many entities dealing with water management. These aspects make IRWM a good platform for addressing broad-based concerns like climate change where multiple facets of water management are affected.

The intent of the Climate Change Standard is to ensure that IRWM Plans, through existing plan standards, describe, consider, and address the effects of climate change on their regions and disclose, consider, and reduce when possible GHG emissions when developing and implementing projects. Climate change is a complex issue, however this guidance is meant to help RWMGs integrate climate change considerations into their IRWM planning process.

On December 1, 2011 USEPA, DWR, USACE, and the Resource Legacy Fund released the Climate Change Handbook for Regional Water Planning. This handbook is intended to assist IRWM regions incorporate climate change analysis and methodologies into their planning efforts.

The handbook can be found at http://www.water.ca.gov/climatechange/CCHandbook.cfm.

Legislative and Policy Context

While there are numerous pieces of policy and legislation dealing with climate change, the following pieces are important regarding the State's response to climate change, including how IRWM planning efforts analyze climate change on a project level.

- EO S-3-05 and the California Global Warming Solutions Act of 2006 (AB 32; amending California Health and Safety Code Division 25.5, §38500, *et seq*.) lay the foundation for California's response to climate change.
- SB 97, signed by the Governor on August 24, 2007 initiated formal changes to the CEQA Guidelines that provides guidance for the way climate change is analyzed in CEQA documents by adding PRC § 21083.05.
- EO S-13-08, signed by the Governor on November 14, 2008, directed the preparation of a sea level rise impact study, a transportation systems vulnerability assessment, and preparation of the California Climate Adaptation Strategy.
- California Ocean Protection Council (OPC) Resolution, adopted on March 11, 2011, requires the vulnerabilities associated with Sea-Level Rise (SLR) to be considered for all projects or programs receiving funding from the State.

EO S-3-05

EO S-3-05 made California the first state to formally establish GHG emissions reduction goals. EO S-3-05 includes the following GHG emissions reduction targets for California:

- By 2010, reduce GHG emissions to 2000 levels
- By 2020, reduce GHG emissions to 1990 levels
- By 2050, reduce GHG emissions to 80 percent below 1990 levels

The final emission target of 80 percent below 1990 levels would put the State's emissions in line with estimates of the required worldwide reductions needed to bring about long-term climate stabilization and avoidance of the most severe impacts of climate change (Intergovernmental Panel on Climate Change (IPCC), 2007).

EO S-3-05 dictates that the Secretary of CalEPA coordinate oversight of efforts to meet these targets with the Secretaries of the Business, Transportation and Housing Agency, Department of Food and Agriculture, and CNRA; the Chairpersons of the Air Resources Board (CARB) and Energy Commission; and the President of the Public Utilities Commission. This group was subsequently named the Climate Action Team (CAT). As laid out in the EO, the CAT has submitted biannual reports to the governor and State legislature describing progress made toward reaching the targets.

AB 32

AB 32 further details and codifies the mid-term GHG reduction target established in EO S-3-05 (Reduce GHG emissions to 1990 levels by 2020). AB 32 also identifies CARB as the State agency responsible for the design and implementation of emissions limits, regulations, and other measures to meet the target.

- The statute lays out the schedule for each step of the regulatory development and implementation. By June 30, 2007, CARB had to publish a list of early-action GHG emission reduction measures.
- Prior to January 1, 2008, CARB had to: identify the current level of GHG emissions by requiring statewide reporting and verification of GHG emissions from emitters and identify the 1990 levels of California GHG emissions.
- By January 1, 2010, CARB, had to adopt regulations to implement those early-action measures.

In December 2007, CARB approved the 2020 emission limit (1990 level) of 427 million metric tons of CO_2 equivalents (CO_2e) of GHG. The 2020 target requires the reduction of 169 million metric tons of CO_2e, or approximately 30 percent below the State's projected 2020 emissions of 596 million metric tons of CO_2e on a business as usual (BAU) scenario. Also in December 2007, CARB adopted mandatory reporting and verification regulations pursuant to AB 32. The regulations became effective January 1, 2009, with the first reports covering 2008 emissions. The mandatory reporting regulations require reporting for major facilities, those that generate more than 25,000 metric tons/year of CO_2e.

In December 2008, CARB adopted the Climate Change Scoping Plan which outlines the State's strategy to achieve the 2020 GHG emissions limit. The Climate Change Scoping Plan also included 39 measures that were developed to reduce GHG emissions from key sources and activities while improving public health, promoting a cleaner environment, preserving natural resources, and ensuring that the impacts of the reductions are equitable and do not disproportionately impact low-income and minority communities. In 2011 CARB updated the initial AB 32 Scoping Plan and recalculated the projected GHG emission in 2020 because of the economic downturn starting in 2008. The updated numbers are 507 MMTCO2e (BAU), targeted GHG reduction needed (80 MMTCO2e) with a nearly 16% reduction from the BAU value in 2020.

SB 97

SB 97 directed the Governor's OPR to develop CEQA Guideline amendments for the analysis of climate change in CEQA documents for the approval by CNRA. On December 31, 2009, CNRA adopted amendments to the CEQA Guidelines (Guideline amendments) for GHGs and sent them to the California Office of Administrative Law for approval and filing with the Secretary of State. http://www.ceres.ca.gov/ceqa/guidelines/. The CEQA GHG Guideline amendments became effective March 18, 2010. The Guideline amendments for GHG emissions fit within the existing CEQA framework for environmental analysis, which calls for lead agencies to determine baseline conditions and levels of significance, and to evaluate mitigation measures. The Guideline amendments do not identify a threshold of significance for GHG emissions nor do they prescribe assessment methodologies or specific mitigation measures. The Guidelines amendments encourage lead agencies to consider many factors in performing a CEQA analysis, but preserve the discretion that CEQA grants lead agencies to make their own determinations based on substantial evidence.

EO S-13-08

On November 14, 2008, the Governor issued EO S-13-08, which directs the CNRA, DWR, OPR, California Energy Commission (CEC), SWRCB, State Parks, and California's coastal management agencies to participate in a number of planning and research activities to advance California's ability to adapt to the impacts of climate change. The order specifically directs agencies to work with the National Academy of Sciences to initiate the first California SLR Assessment and to review and update the assessment every two years after completion; immediately assess the vulnerability of the California transportation system to SLR; and to develop a multi-sector California Climate Change Adaptation Strategy, which was finalized in December 2009.

California Ocean Protection Council Resolution

On March 11, 2011, the OPC adopted a resolution on SLR. This resolution applies to entities implementing projects or programs funded by the State and requires that SLR vulnerabilities be considered when developing the project or program. OPC resolution and SLR guidance can be found at the following link: http://www.opc.ca.gov/council-documents/.

Assess Vulnerabilities and Effects of Climate Change

While there are many sources of information on Climate Change, IRWM planning regions must keep four documents in mind as they assess the vulnerabilities and effects of Climate Change on their regions; consider adaptations to those effects; and seek to mitigate GHG emissions:

- The *Climate Change Scoping Plan* that was adopted by CARB in 2008 discusses different business sectors including water management and recommends specific strategies that may help reduce GHG emissions.
- DWR published a white paper, *Managing an Uncertain Future: Climate Change Adaptation Strategies for California's Water (2008)*, that urges a new approach to managing California's water and other natural resources in the face of climate change. The recommendations from the White Paper are incorporated into Volume 1 Chapter 7 of CWP Update 2009.
- On December 2, 2009 CNRA posted a first iteration of a report entitled *2009 California Climate Adaptation Strategy* that discusses Statewide and sector specific vulnerability assessments.

- On December 1, 2011 USEPA, DWR, USACE, and the Resource Legacy Fund released the Climate Change Handbook for Regional Water Planning to assist IRWM regions incorporate climate change analysis and methodologies into their planning efforts.

The Climate Change Plan Standard in the 2010 IRWM Program Guidelines required IRWM plans to include a preliminary analysis of the effects on the region due to climate change, with the intent that a more refined analysis be required as additional guidance was made available. Additional guidance was provided on December 1, 2011 with the release of the Climate Change Handbook for Regional Water Planning. Therefore, the Climate Change Standard was modified slightly between the 2010 IRWM Program Guidelines and the 2012 Guidelines. The Climate Change Standard now requires a more detailed vulnerability assessment on the effects of climate change.

As IRWM plans document how the IRWM region has considered RMS, consideration of the effects of Climate Change needs to be part of that discussion. Likewise, as projects are developed and selected to implement an IRWM Plan, consideration of adapting to the effects of Climate Change must be part of that process and should be explicitly stated in an IRWM Plan's project review process.

Identify Climate Change Impacts and Developing Adaptation Strategies

The IRWM Planning Act, CWC §10541(e)(10), states that IRWM plans must include an evaluation of the adaptability to Climate Change of water management systems in the region. The next few paragraphs and Table 7 provide direction as to the steps IRWM groups should take to address Climate Change adaptation within existing plan standards.

Chapter 3 of the *2009 California Climate Adaptation Strategy* discusses comprehensive State adaptation strategies, six in all, that would help coordinate adaptation efforts to increase cost and implementation efficiencies Statewide. Strategy 5 is to develop statewide, as well as by sector, a specific California Climate Vulnerability Assessment. Implementation of Strategy 5 will help unify the Climate Change scenarios that will influence the risk determined for specific Climate Change effects in specific IRWM regions. Another benefit of implementation of this strategy will be the development of tools to help local agencies determine specific risks in their IRWM planning regions. Once the vulnerability assessment and tools are available, RWMGs should use them to identify adaptations relevant to their IRWM regions.

Given the currently predicted effects of Climate Change on California's water resources, IRWM Plans should address adapting to changes in the amount, intensity, timing, quality and variability of runoff and recharge. Areas of the State that receive water imported from the Sacramento-San Joaquin River Delta, the area within the Delta, and areas served by coastal aquifers will also need to consider the effects of SLR on water supply conditions and identify suitable adaptation measures. The previously referenced OPC Policy on SLR provides useful guidance on this topic.

Decisions about adapting water management systems, as well as, mitigating Climate Change through reductions in GHG emissions, should take into account the risks if the region took no action.

A key factor in assessing the effects of Climate Change and adapting to those changes is the use of adaptive management. Two new tools have been recently released by the State that will help local agencies assess region-specific risks. The California Climate Adaptation Planning Guide (APG), developed by the California Emergency Management Agency and CNRA, was released in July 2012 by to assist the public with incorporating climate change adaptation into existing local and regional planning processes. The APG consists of an overview document that covers a step-by-step process for local and regional climate vulnerability assessments and adaptation strategy development, and three companion documents which focus more in-depth on specific parts of the process. The Cal-Adapt website is an interactive tool which provides locally-scaled climate data that allows the user to visualize what climate change impacts are anticipated for their region and community under a number of different future scenarios.

Table 7 – Addressing Climate Change Within Existing IRWM Plan Standards	
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.
Plan Objectives	*Adapting to Climate Change:* In developing plan objectives, IRWM regions must consider the following: • 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. *Reducing Emissions* • 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.
Resource Management Strategies	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. • 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 to enhance and sustain ecosystems.
Project Review Process	The Project Review Process must include the following factors: • *Contribution of the project to adapting to Climate Change*: RWMGs must include potential effects of Climate Change on their region and consider if adaptations to the water management system are necessary. • *Contribution of the project in reducing GHG emissions as compared to project alternatives*: 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. *CEQA project-level analyses:* 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.
Relation to Local Water Planning	IRWM Plans must consider and incorporate water management issues and Climate Change adaptation and mitigation strategies from local plans into the IRWM Plan.
Relation to Local Land Use Planning	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.
Plan Performance and Monitoring	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.
Coordination	• 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/.

CLIMATE CHANGE MITIGATION/GHG REDUCTION

In addition to responding to the effects of Climate Change, IRWM plans can also help mitigate Climate Change by reducing energy consumption, especially the energy embedded in water use, and ultimately reducing GHG emissions. Water management results in the consumption of significant amounts of energy in California and the accompanying production of GHG emissions, especially where water must be pumped from long distances; from the ground; or over significant elevations. According to California Energy Commission November, *2005 CEC-700-2005-011 California's Water – Energy Relationship Final Staff Report*, 19% of the electricity and 30% of the non-power plant natural gas of the State's energy consumption are spent on water-related activities, primarily related to end-uses of water (i.e. what the customer does with the water). The close connection between water resource management and energy is an important consideration for helping the State meet its GHG emission reduction goals. All aspects of water resources management have an impact on GHG emissions, including the development and use of water for habitat management and recreation; domestic, municipal, industrial, and agricultural supply; hydroelectric power production; and flood control.

Mitigation of Climate Change is a factor to consider in an IRWM region's project review process, but only as a secondary criterion. Although energy consumption and GHG emissions are an important consideration for water projects for helping the State meet its GHG emission reduction goals, the primary objective of IRWM planning is to meet regional water management objectives. 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, found at: http://www.arb.ca.gov/cc/scopingplan/document/adopted_scoping_plan.pdf. In addition to offsetting emissions, RWMGs may also consider options for carbon sequestration where such options are integrally tied to supporting IRWM Plan objectives.

Agencies that are part of an IRWM effort may consider joining the Climate Registry, http://www.theclimateregistry.org/. The Climate Registry is a private non-profit organization that serves as a voluntary GHG emissions registry for North America Participation in these voluntary GHG registries, allows access to tools and consistent reporting formats which may aid RWMGs in understanding their GHG emissions and ways to promote early actions to reduce GHG emissions.

CEQA project level analyses in the area of Climate Change may assist RWMGs with a means of disclosing and evaluating GHG emissions of project alternatives. DWR is *not* suggesting that a full project CEQA analysis need be performed before a grant application is submitted; rather, an analysis of GHG emissions on a project – performed so that it not only serves to evaluate that aspect of a project for the purposes of IRWM project selection, but also satisfies the requirements of CEQA – may be a useful analysis that satisfies multiple purposes. Projects incorporated into IRWM Plans are wide ranging. Project proponents should seek their own legal counsel in determining the appropriate level of analysis for their particular project.

DWR will usually act as a responsible agency for projects successful in obtaining grant funding. The guidance that follows is general guidance that may help project proponents understand how DWR will behave in that capacity specifically in the area of Climate Change analysis.

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 the adaptation to effects of Climate Change. Section 3 of the Climate Change Handbook provides guidance on how to evaluate GHG emissions.

In most cases, a GHG emissions analysis for a project should be quantitative. Emission sources that are commonly applicable to projects include:

- Operation of construction equipment
- Passenger vehicle trips during construction and operation
- Transportation of construction materials and equipment
- Transportation of material inputs for O&M

- Transportation of material outputs or production
- Generation of electricity used for operation of projects
- Waste generation and disposal of materials during construction and operation

Some projects or components of projects cannot be quantified such as carbon sequestration ability of a restored habitat. Addressing such components should include such items as the current state of scientific understanding, ongoing research, and potential ranges of emissions or sequestration. Project analysis should also consider all known applicable BMPs or other mitigation measures to reduce GHG emissions. In considering the appropriate level of analysis for a specific project, proponents may want to utilize the OPR Technical Advisory on CEQA and Climate Change, the California Air Pollution Control Officers Association White Paper, CARB's early action measures, and the six key elements and the 39 measures for GHG reduction from Climate Scoping Plan; the California Attorney General's Office website, and other relevant studies and resources, such as the website links that are listed below in the Additional Resources and References section.

For project level GHG emissions assessments, a useful emissions reporting protocol has been developed by the World Resources Institute (WRI) in cooperation with the World Business Council for Sustainable Development (WBCSD). This protocol was used as the basis for the Climate Registry. The WRI and Climate Registry emissions reporting protocols establish guidelines for voluntary accounting of GHG emissions and provide a peer reviewed and widely accepted methodology for calculating GHG emissions. WRI has also published several calculation tools to simplify and document the procedure, which may be found at the following link: http://www.ghgprotocol.org/calculation-tools/all-tools. In general, the protocols outline how to estimate emissions from mobile combustion sources, electricity consumption, and industrial processes. Both the State and the federal government require reporting of emissions for regulated entities that emit 25,000 metric tons of CO_2e or more per year.

Once the emissions from a proposed project have been determined, the CEQA lead agency must assess the impacts of these emissions and make a determination of significance. A threshold of significance is used to gauge project effects. It may be a quantitative, qualitative, or performance level of a particular environmental effect above which impacts will normally be considered significant. The basic strategies have been outlined in the technical guidance documents published to date are: (1) establish a significance threshold of net-zero; (2) establish a non-zero significance threshold based on compliance with AB 32; or (3) utilize other established GHG reduction strategies. If a project proponent is considering a non-zero threshold, the following may be of assistance:

1) Does the project implement or fund its fair share of a mitigation strategy designed to alleviate Climate Change? This might be achieved through consistency with AB 32 and the early implementation strategies proposed by CARB.
2) How and in what ways does the project move California toward a lower carbon future?
3) How closely does the project's overall GHG emissions balance approach zero? Considerations here would include whether the emissions are under the reporting requirement for 25,000 metric tons of CO_2e or more per year
4) Are there process improvements or efficiencies gained by implementing the project?

Additional Resources and References

DWR IRWM Climate Change Document Clearinghouse*: http://www.water.ca.gov/climatechange/docs/IRWM-ClimateChangeClearinghouse.pdf

**Contains brief summaries of 40 documents potentially relevant for IRWM practitioners*

DWR's Climate Change Website: http://www.water.ca.gov/climatechange

Climate Change Handbook: http://www.water.ca.gov/climatechange/CCHandbook.cfm

State of California Climate Change Portal: http://www.climatechange.ca.gov

CARB website: http://www.arb.ca.gov/cc/cc.htm

The California CAT website: http://climatechange.ca.gov/climate_action_team/index.html

CEQA Greenhouse Gas Analysis Guidance for DWR Grantees: http://www.water.ca.gov/climatechange/docs/Guidance%20For%20Grantees-%20Calculating%20GHGs%20for%20CEQA2011.pdf

Association of Environmental Professionals. 2007. *Alternative Approaches to Analyzing Greenhouse Gas Emissions and Global Climate Change in CEQA Documents*. http://www.counties.org/images/public/Advocacy/ag_natres/AEP_Global_Climate_Change_June_29_Final%5B1%5D.pdf

California Climate Action Registry. (2009). *General Reporting Protocol Version 3.1.* http://www.climateregistry.org/resources/docs/protocols/grp/GRP_3.1_January2009.pdf

California Climate Adaptation Planning Guide: http://resources.ca.gov/climate_adaptation/local_government/adaptation_policy_guide.html

Center for Biological Diversity. 2007. The California Environmental Quality Act on the Front Lines of California's Fight Against Global Warming. http://www.biologicaldiversity.org/publications/papers/CBD-CEQA-white-paper.pdf

U.S. EPA. 2009. Inventory of U.S. Greenhouse Gas Emissions and Sinks 1990-2007. http://www.epa.gov/climatechange/ghgemissions/usinventoryreport.html

World Resources Institute and World Business Council for Sustainable Development. N.d. *The Greenhouse Gas Protocol for Project Accounting.* http://www.wri.org/publication/greenhouse-gas-protocol-ghg-protocol-project-accounting

APPENDIX D
NATIVE AMERICAN TRIBE NOTIFICATION

PRC §75102 mandates a California Native American Tribe Notification requirement for projects funded with Proposition 84 funds. PRC §75102 states:

> *"Before the adoption of a negative declaration or environmental impact report required under Section 75070, the lead agency shall notify the proposed action to a California Native American tribe, which is on the contact list maintained by the Native American Heritage Commission, if that tribe has traditional lands located within the area of the proposed project."*

Native American Tribe Notification will be part of DWR's CEQA review for projects requesting funding under Proposition 84. While IRWM planning efforts may have tribal involvement, formal notification required by PRC §75102 ensures that tribes have an opportunity to consult with lead agencies regarding impacts to cultural resources prior to the closing of the CEQA process. This requirement does not relieve the responsibilities of a lead agency of other cultural resource notification and preservation obligations. DWR recommends using the OPR's procedures for tribal consultation for General Plans and Specific Plans as guidance to meeting the Native American Tribe Notification requirement. The notification process an RWMG uses may include the following steps:

- Determine if the proposed project is a project under CEQA.
- If the project will use a negative declaration or an EIR to comply with CEQA and the CEQA document was not adopted by March 1, 2009, tribal notification is required prior to adoption of the CEQA document.
- To determine which tribes may have traditional lands located within the project area, send a request to the Native American Heritage Commission (NAHC) using the NAHC request form which can be found at the following link: http://www.nahc.ca.gov/consult_request.html. Expect a reply within 30 days.
- Once tribal information from NAHC is received, notify tribes of the project nature and project location.
- Allow tribes 90 days to reply to the notification.
- Solicit input from tribes that respond to the notification.
- Consider tribal input to the project prior to adoption of a negative declaration or EIR.

The above notification process follows OPR's procedures for tribal consultation for General Plans and Specific Plans. While an IRWM Plan is not a general or specific plan, the methods and considerations for consultation with tribes, may be helpful. Further information on tribal consultation can be found at the following link: http://www.opr.ca.gov/s_localandtribalintergovernmentalconsultation.php

Contact information for the NAHC is as follows:

Tribal Advisor
Office of Governor Edmund G. Brown Jr.
Executive Secretary, Native American Heritage Commission
1550 Harbor Blvd. Suite 100
West Sacramento, California 95691
(916) 373-3710
(916) 373-5471
nahc@nahc.ca.gov
http://www.nahc.ca.gov/

APPENDIX E
GUIDELINES FOR GRANTEES

The lists below details the documents/records that State Auditors would need to review in the event of a grant being audited. Grantees should ensure that such records are maintained for each funded project for a minimum of three years after termination of the grant agreement.

- Internal Controls
  1) Organization chart (e.g. Agency's overall organization chart and organization chart for the grant funded Program/Project)
  2) Written internal procedures and flowcharts for the following:
     a) Receipts, deposits, and disbursements
     b) State reimbursement requests
     c) Grant expenditure tracking
     d) Guidelines, policy, and procedures on grant funded Program/Project
  3) Audit reports of the Agency's internal control structure and/or financial statements within the last three years
  4) Prior audit reports on grant funded Program/Project

- Grants
  1) Original grant agreement, any amendment(s) and budget modification documents
  2) A listing of all bond-funded grants received from the State
  3) A listing of all other funding sources for each Program/Project

- Contracts
  1) All subcontractor and consultant contracts and related or partners documents, if applicable
  2) Contracts between the Agency and member agencies as related to the grant funded Program/Project

- Invoices
  1) Invoices from vendors and subcontractors for expenditures submitted to the State for payments under the grant
  2) Documentation linking subcontractor invoices to State reimbursement, requests and related grant budget line items
  3) Reimbursement requests submitted to the State for the grant

- Cash Documents
  1) Receipts (copies of warrants) showing payments received from the State
  2) Deposit slips (or bank statements) showing deposit of the payments received from the State
  3) Cancelled checks or disbursement documents showing payments made to vendors, subcontractors, consultants, and/or agents under the grant
  4) Bank statements showing the deposit of the receipts

- Accounting Records
  1) Ledgers showing entries for grant receipts and cash disbursements
  2) Ledgers showing receipts and cash disbursement entries of other funding sources
  3) Bridging documents that tie the general ledger to requests for grant reimbursement

- Administration Costs
  1) Supporting documents showing the calculation of administration costs

- Personnel
  1) List of all contractors and Agency staff that worked on the grant funded Program/Project
  2) Payroll records including timesheets for contractor staff and the Agency personnel who provided services charged to the program

- Project Files
  1) All supporting documentation maintained in the project files
  2) All grant related correspondence

APPENDIX F
REGION ACCEPTANCE PROCESS

Purpose

This appendix constitutes the Region Acceptance Process used by DWR to evaluate and accept an IRWM region into the IRWM Grant Program, pursuant to CWC §10541(f). Acceptance of the IRWM region into the IRWM Grant Program via the RAP is required before the region can submit an application for funding. The RAP procedures are applicable to new regions wishing to apply for acceptance into the IRWM grant program, or to existing regions that received conditional approval previously or have made significant modifications to the region that necessitate reevaluation of the region by DWR. DWR will conduct RAP evaluations on an as needed/on request basis in order to provide an opportunity to those regions that have not been accepted into the IRWM Grant Program or that have addressed any prior conditional approval requirements to be evaluated for acceptance into the IRWM Grant Program.

Events that may cause a region to have their previously approved region acceptance status suspended by DWR include but are not limited to: changes in the regional boundary, loss or addition of signatory agencies of the RWMG, continued and prolonged inactivity, and inability to self-sustain IRWM efforts, changes in statutory requirements, or changes in state water management policy. DWR will evaluate any above-listed changes on a case-by-case-basis and will make a suitable determination of the region acceptance status. In the event that DWR suspends a region's acceptance status, DWR will provide the RWMG with written notice of their suspension and the basis for that suspension.

The RWMG may also use the RAP process to formally document more ministerial actions, such as changes to the region name or minor alterations to the regional boundary.

Acceptance of a region through the RAP process is necessary for IRWM regions that anticipate applying for DWR's IRWM grant funding component programs which include:

- Proposition 84 IRWM Planning or Implementation funds
- Proposition 1E Stormwater Flood Management funds
- Other IRWM funds that may be available in the future

Integrated Regional Water Management

An IRWM region is not based solely on geographic considerations or characteristics. It is also defined by water management issues, its stakeholders, and water-related conflicts. An IRWM region must be designed or configured to diversify and strengthen the regional water management portfolio.

While there is no quantitative definition of a region (such as a minimum number of acres), it is possible to define the region too narrowly in terms of geography, participants, water resources, water management strategies, and water management objectives. A narrowly defined region would limit opportunities to integrate water management strategies or diversify a region's water management portfolio.

The RWMG must consider the broad variety of the water systems being managed in the planning area, and consider issues related to:

- Water supply
- Water quality
- Environmental stewardship
- Flood management
- Drought preparedness

- Wastewater treatment
- Watershed management
- Recycled water
- Groundwater management
- Land use
- Natural habitat and conservation
- Conjunctive use
- Reduced dependence on imported water

Important to the formation of a functional and successful region is membership composed of numerous, diverse stakeholders that manage, direct, or influence regional water management.

Desirable Characteristics of an IRWM Region

The following are some of the characteristics considered by DWR to be compatible with IRWM goals:

- The IRWM region is the largest defined contiguous geographic area encompassing the service areas of multiple local agencies, and it is defined to maximize opportunities to integrate water management activities related to natural and man-made water system(s), including water supply reliability, water quality, environmental stewardship, and flood management.
- The IRWM region is inclusive and utilizes a collaborative, multi-stakeholder process that provides mechanisms to assist DACs; addresses water management issues; and promotes integrated, multi-benefit, regional solutions that incorporate environmental stewardship toward the development and implementation of the IRWM plan.
- The IRWM region encompasses water management system(s) containing natural and manmade components, considers watersheds, and identifies and prioritizes regional water-related projects through collaborative efforts to meet multiple water resource needs.
- The IRWM region should demonstrate a reasonable and effective governance structure for developing and implementing its IRWM Plan.

Undesirable Characteristics of an IRWM Region

The following are some of the characteristics considered by DWR to be incompatible with IRWM goals:

- Multiple IRWM regions in the same geographic area that are all planning to manage the same water system.
- The region is solely defined by a jurisdictional boundary, county line, other geopolitical boundary, and does not account for watershed delineations.
- The region is formed for the sole purpose of seeking short-term grant funds rather than to sustain a long-term regional planning effort to ensure water supply reliability, water quality, environmental stewardship, and flood management.
- The region is project driven where existing projects are the primary focus and collaborative, integrated regional planning and management is secondary.
- The region boundaries tend to exclude rather than include other water management entities and stakeholders.

When to Submit?

An IRWM region seeking acceptance into the IRWM Grant Program may submit a complete RAP application to DWR at any time.

Who Should Submit?

An entity representing an IRWM region that meets one of the following conditions should submit RAP materials on behalf of the proposed IRWM region:

- Has not already been granted region acceptance
- Is currently conditionally accepted and seeking full acceptance status
- Has made significant modifications to the region's characteristics that necessitate reevaluation of the region

The entity submitting RAP materials on behalf of the RWMG must have been granted specific consent by the RWMG.

What to Submit

The RWMG shall submit RAP materials in the form of written text, maps, figures, and tables that demonstrate that the IRWM region is the most comprehensive, contiguous area defined by common water management issues related to the water system(s), both natural and man-made, including water supply, water quality, environmental stewardship, and flood management.

DWR understands that some regions may be in the initial developmental process and other regions may have more fully developed IRWM planning efforts. A developing IRWM region and an established region may have differing abilities to provide information about their IRWM region. In such cases as appropriate, the developing region may only be able to provide a conceptual discussion and limited supporting information regarding the composition of the IRWM region. The RAP materials must provide the information necessary to justify and support the proposed region boundary. The RAP materials should thoroughly support the basis for the proposed region boundary. The information submitted should be clear and succinctly written. Please do not submit non-essential information. Table 8 describes the specific information a RWMG must submit for the RAP. Corresponding evaluation criteria is provided to clarify how the submitted material will be assessed. If the IRWM region was conditionally accepted in a previous RAP and is submitting information in a subsequent RAP to remove the condition, the entity submitting RAP materials should contact DWR before preparing the RAP submittal. In such cases a full RAP submittal may not be necessary.

In the case of minor alterations to a previously approved IRWM region, the RWMG may submit a letter report documenting the proposed change(s). DWR will review the letter and either make a decision based on the letter or request additional information if deemed necessary.

Table 8 – Submittal Materials and Reviewer Information

WHAT TO SUBMIT	EVALUATION CRITERIA
Submitting Entity: 1. Contact information (name, address, phone, fax, and e-mail) of the person with whom DWR should coordinate. 2. Information on the submitting entity including why the RWMG has selected the entity to submit the RAP materials.	Ensure that contact information was provided. Is it clear that the submitting agency has been given permission to submit on behalf of the RWMG?
RWMG Composition: 3. A description of the composition of the RWMG. Identify RWMG members, including their statutory authority over water supply or water management, their role in the IRWM effort, regional water management responsibilities, and the level of IRWM participation. For each entity, state whether they have adopted, plan to adopt, or will not adopt the IRWM Plan. For the purposes of this document "statutory authority over water supply or water management" may include, but is not limited to,	• Have all the RWMG members indicated that they have adopted or plan to adopt the completed IRWM plan? • Does the RWMG consist of at least 3 agencies with at least 2 local agencies within the regional boundary having statutory authority over water supply, water quality, water management, or flood protection? • Is there diversity in the water management responsibilities of the RWMG members? • For entities that are not currently participating in the IRWM effort, are any of these not adequately represented

Table 8 – Submittal Materials and Reviewer Information	
WHAT TO SUBMIT	**EVALUATION CRITERIA**
water supply, water quality management, wastewater treatment, flood management/control, or storm water management. 4. A description of the difference between RWMG members and stakeholders in terms of development, participation, decision making, and adoption of the IRWM Plan.	by other RWMG members or stakeholders holding similar water management interests?
<u>Stakeholder Inclusiveness:</u> 5. A listing of the stakeholders participating in the IRWM Plan including each stakeholder's tie to water management within the IRWM region. 6. Describe the procedures, processes, or structures that promote access to information and collaboration among people or agencies, including DACs and Native American Tribes, with diverse water management views within the region. 7. A listing of agencies or entities that are not currently participating in the IRWM efforts but could possibly in the future. Also list each of these agencies' or entities' ties to water management within the IRWM region.	• Does the submitted material demonstrate a diverse range of stakeholders including DACs and Native American Tribes and other interests in water management and use? • Are stakeholders, including Native American Tribes and DACs, given an opportunity to participate? • Does it appear that the IRWM region is inclusive and utilizes a collaborative, multi-stakeholder process that provides mechanisms to assist and involve DACs in addressing water management issues? • Do the RWMG members and stakeholders have access to and exchange information on water management issues? • Are processes and procedures in place that outreach to and allow participation by those entities currently not participating?
<u>Public Involvement:</u> 8. A description of the process being used that makes the public both aware of and part of IRWM efforts. 9. Discuss ways for the public to gain access to the RWMG and IRWM Plan for information and how the public is allowed to provide input. 10. Discuss how the RWMG evaluates and responds to public input.	• Does the RWMG allow the public to participate in regular meetings? • Is there an established method of making meeting agendas, notices, and minutes accessible? • Are the items above posted with sufficient lead time for the public to participate in meetings? • Is it clear who the public should contact within the RWMG if they have questions regarding regional water management efforts or IRWM planning and implementation in the region? • Are there public meetings held to solicit public comments ahead of major decisions to be made by the RWMG? • What is the process for the public to provide input to the RWMG on regional water management and on the IRWM Plan? • What is the process being used by the RWMG to evaluate and respond to public input?
<u>Governance:</u> 11. Describe the RWMG governance structure and how it will facilitate the sustained development of regional water management and the IRWM process, both now and beyond the state grant IRWM funding programs. 12. Describe how decisions are made. Identify the steps by which the RWMG arrives at decisions and how RWMG members and stakeholders participate in the decision-making process. Examples of RWMG decisions to consider in the discussion include: a. Establishing IRWM Plan goals and objectives b. Prioritizing projects c. Financing RWMG and IRWM Plan activities d. Implementing plan activities e. Making future revisions to the IRWM Plan 13. Describe how the RWMG will incorporate new members into the governance structure. Explain the manner in which a balance of interested persons or entities	• Is it clear how decisions are made, including establishing plan goals and objectives, prioritizing projects, financing RWMG activities, implementing plan activities, and making future revisions to the IRWM Plan? • Who participates in the decision making process? • Are all of the RWMG members involved or are there designated committees? • Does the governance structure allow only certain RWMG members to vote on decisions? • Does the decision making process allow for the participation of stakeholders and smaller entities? • Can stakeholders influence RWMG decisions? • Do members have to contribute financially to the RWMG to be allowed a voice? • Can the RWMG governance structure facilitate the sustained development of the IRWM region now and beyond the current IRWM funding programs?

Table 8 – Submittal Materials and Reviewer Information	
WHAT TO SUBMIT	**EVALUATION CRITERIA**
representing different sectors and interests have been or will be engaged in the process, regardless of their ability to contribute financially to the plan. 14. Describe any conflict resolution processes and any known existing conflicts regarding water management in the region. 15. Explain how the governance structure results in an IRWM planning effort that is inclusive and utilizes a collaborative, multi-stakeholder process that provides mechanisms to assist DACs; addresses water management issues; and promotes integrated, multi-benefit, regional solutions that incorporate environmental stewardship toward the development and implementation of the IRWM Plan.	• Do conflict resolution processes exist in the governance structure? • Will the processes and procedures as described result in the promotion of integrated, multi-benefit, regional solutions that incorporate environmental stewardship toward development and implementation of the IRWM Plan? • Did the RWMG demonstrate a reasonable and effective governance structure for development and implementation of the IRWM Plan?
<u>Region:</u> 16. Present the features that dictate and describe how the IRWM regional boundary was determined, such as: a. Political/jurisdictional boundaries b. Groundwater basins as defined in DWR Bulletin 118, Update 2003 – California's Groundwater c. Watersheds d. RWQCB boundaries e. Physical, topographical, geographical, and biological features f. Surface water bodies g. Major water-related infrastructure 17. Explain how the IRWM region encompasses the service areas of multiple local agencies and will maximize opportunities to integrate water management activities related to natural and manmade water systems, including water supply reliability, water quality, environmental stewardship, and flood management. 18. Please include a map of the IRWM boundary. 19. Please include a GIS shapefile on CD showing the IRWM region boundary. The GIS file must be NAD83, UTM 10 or UTM11.	• Does it appear that the IRWM region boundary was based solely on jurisdictional boundaries? • Is the basis and rationale clear for the IRWM region boundary? • Does the region make sense for long-term water management? How? • Does the IRWM region boundary consider multiple water management boundaries such as watersheds and groundwater basins? • Does the IRWM region encompass the service areas of multiple local agencies? • Does it appear that the IRWM region is structured: o To maximize opportunities to integrate water management activities related to natural and man-made water systems, including water supply reliability, water quality, environmental stewardship, and flood management? o Such that the water management portfolio in the region is strengthened and diversified?
<u>Water Management History:</u> 20. Describe the history of IRWM efforts in the region. 21. Describe the regional water management issues and any water-related conflicts in the region. Include a discussion of any progress towards resolution of any water–related conflicts. Issues and conflicts may relate to water supply, water rights, water quality, flood management, environmental stewardship, imported water, waste water, conjunctive use, etc.	• Is the history of the IRWM efforts in the region discussed? • Are the water management issues and water-related conflicts presented clearly? • If applicable, how has water conflict been managed in the region? • Does the region boundary appear appropriate given the context of the region's unique water management issues? • Do the listed stakeholders (See Stakeholder Inclusiveness, above) provide a balanced representation of the water issues in the region?

Table 8 – Submittal Materials and Reviewer Information	
WHAT TO SUBMIT	**EVALUATION CRITERIA**
Inter-regional Coordination: 22. A description of the IRWM region's relationship and coordination with adjacent IRWM regions. 23. Identify any overlapping areas and explain the basis for the overlap. Discuss whether there is a clear relationship and acknowledgement by both regions that the overlap is acceptable. 24. Describe any areas within the IRWM region boundary that are excluded or create a void area with adjacent IRWM regions and explain why this is reasonable and appropriate. 25. Describe any distinct water management differences between adjacent or overlapping IRWM regions that support being separate IRWM regions.	• Has the RWMG successfully managed overlaps or gaps within and outside of the region boundary? • If there are overlapping IRWM regions, is there a clearly defined relationship between the IRWM planning efforts? • Are there indications that the overlapping regions have discussed and will continue to discuss their water management issues and coordinate on activities occurring in overlapping areas? • If there are inter-regional water management issues across adjacent IRWM regions, is there a clearly defined relationship between the IRWM planning efforts? • Are there indications that the adjacent regions have committed to a process to address their inter-regional water management issues and coordinate on interrelated water management activities? • Does the submittal describe any areas within the region that are excluded or create a void area, and if so, explain why this is reasonable and appropriate? • Has the boundary been drawn such that the region leaves uncovered areas immediately outside the boundary? • Based on the justification for the region boundary, the water management issues, and coordination with adjacent areas, does the proposed region represent the largest defined contiguous geographic area that maximizes opportunities to integrate water management activities related to natural and man-made water systems?

IRWM RAP Review Steps

Step 1 – Submission of RAP material

RWMG submits materials to DWR, as described in "What to Submit" column of Table 8.

Step 2 – DWR reviews RAP material

DWR reviews the RAP material using evaluation criteria from Table 8, and makes one of the following determinations:

1. Application not accepted. The information presented does not support the concepts and basis for the proposed IRWM region, including the region boundary and governance structure of the RWMG. The RWMGs in this category will not be invited to the RAP interview. Following this review, DWR will identify for the applicant the reasons why the application does not support the basis for the IRWM region.

2. Application potentially accepted. DWR will schedule an initial applicant interview with the RWMG. DWR will prepare a list of questions or discussion points to clarify the questionnaire responses. An e-mail with the questions/discussion points will be sent to the point-of-contact indicated in the RAP materials submitted by the RWMG (Table 8). The e-mail will also provide the date, time, and location of the interview.

Step 3 – Interviews

The RWMG will have an opportunity to discuss the RAP material (including questions or discussion points, described in Step 2) with DWR representatives during a scheduled interview. The RWMG may wish to prepare a presentation in response to the questions and discussion points sent previously by DWR. DWR will have an opportunity to ask questions and seek clarification. The purpose of the interview is to provide DWR with answers to questions raised during the review process. Representatives of the SWRCB, the appropriate RWQCB, or other interested state agencies may participate in the interviews. The applicant will be informed of the number of

representatives to participate in the RAP interview. RWMGs will be expected to limit their presentation to approximately one hour.

During the interview, the RWMG may be requested to submit additional information to DWR. This additional information may be considered by DWR before making draft region acceptance status recommendations for a region. At the time of the interview, the RWMG will be instructed to submit any additional information to DWR by a specified date.

Step 4 – Decision Process

DWR will consider the RAP materials and information discussed during the interview process. DWR will post draft region acceptance status recommendations for the regions evaluated during the RAP. The draft recommendations will be posted on the website listed below. An e-mail announcement will be issued via IRWM's e-mail distribution list. If a RWMG representative is not already on the IRWM contact list and wishes to subscribe, the representative may request to be added by sending an e-mail with contact information to: DWR_IRWM@water.ca.gov.

Before making a final decision, DWR will provide a public comment period. Based on the draft region acceptance recommendations, public comments received, and consultation with reviewers, DWR's Director will make one of the following determinations:

1. Region Not Accepted. The information provided in the RAP materials and the interview does not reasonably support the concepts and basis for one or more of the following: the IRWM region boundary, governance structure, or inclusion of stakeholders.
2. Region Accepted. The information provided in the RAP materials and the interview reasonably supports the IRWM region boundary, governance structure, and inclusion of stakeholders.
3. Region Conditionally Accepted. In some regions where information on the exact region boundaries is not complete (or accepted by DWR), and/or where the governance structure and stakeholder involvement functions of a region are not well understood, DWR may issue conditional region acceptance.
4. Other Action. DWR may make other recommendations as necessary to address specific concerns with an individual IRWM region or a group of IRWM regions.

DWR's final RAP decisions will be posted on the IRWM website, along with an updated map of IRWM regions, and e-mailed to the IRWM distribution list.

If the region is not accepted or conditionally accepted into the grant program, then DWR will notify the RWMG of the reason(s) for non-acceptance or the reason(s) for not granting full acceptance and the limitation to its participation in the grant program. The RWMG will need to work with its stakeholders and resubmit updated RAP materials that demonstrate that the RWMG has addressed the conditional acceptance items, if it wishes to participate in the grant program.

If the region is granted conditional acceptance, it will only need to submit those materials during the next RAP that address all of the reasons for the conditional acceptance; it will not be required to resubmit previously submitted materials that have otherwise not changed since the previous RAP. In this case, the applicant should provide affirmation that no other significant changes have occurred in the region and that the current application materials supplements the previous application.

How to Submit

Applicants may e-mail the complete RAP application to DWR at DWR_IRWM@water.ca.gov or may submit one (1) CD/DVD copy of the complete RAP application to DWR. Following are the addresses for mailing the RAP application by U.S. mail, overnight courier, or hand delivery. All application materials should be submitted to the attention of the Chief of the Financial Assistance Branch.

By U.S. Mail:

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

Or overnight courier to:

California Department of Water Resources
Division of Integrated Regional Water Management
Financial Assistance Branch
1416 9th Street
Sacramento, CA 95814

Or hand-deliver to:

901 P Street, Lobby
Sacramento, CA 95814

IRWM Grant Program Website

DWR will use the internet to notify interested parties of the status of this proposal process and to convey pertinent information. Information will be posted on DWR's IRWM homepage:

http://www.water.ca.gov/irwm/grants/

For questions about the RAP procedures, please contact DWR's Financial Assistance Branch as listed in the Foreword.

APPENDIX G
DISADVANTAGED COMMUNITIES

Determining the DAC Status

DACs are defined as communities with an annual MHI that is less than 80 percent of the Statewide annual median household income (PRC §75005 (g)). The American Community Survey (ACS) of the U. S. Census is now a source of estimates of MHI for use in determining if a community is a DAC. The most recent and most comprehensive data available is for the 5-year period of 2009-2013. The ACS data gives estimates of MHI for different census geographies, such as for states, counties, census places (incorporated cities and unincorporated towns), census tracts, and census block groups. Using the ACS data for the years 2009-2013, the Statewide MHI is $61,094 and 80% of the Statewide MHI is $48,875. For additional information on the ACS, visit: http://www.census.gov/acs.

DWR has developed a tool which utilizes 2009-2013 ACS data to show the location and boundaries of DACs in the State, at the census place, tract, and block group level. The tool allows users to view different geographies or combinations of geographies, using different base maps and to zoom in to various scales. Appendix A provides a link to the DAC tool. For individuals with GIS capabilities, also provided at this link are GIS files representing the ACS data (and DAC status) for the three census geographies.

The applicant may use ACS data at the census place, census tract, or census block group geography levels to show whether a project serves a DAC, based on what geography is the most representative for that community. The allowable alternative geographies are:

1. The project serves an area that is contained within a census place for which the MHI is less than $48,875
2. The project serves an area that is contained within one or more census tracts and the MHI of each census tract is less than $48,875
3. The project serves an area that is inscribed within one or more census block groups and the MHI of each block group is less than $48,875
4. The project serves an area that is inscribed in one or more census tracts or block groups and some (but not all) of the census tracts or block groups have an MHI of less than $48,875

In alternative 4 above, if a project serves a DAC and is divided among several contiguous census tracts or block groups, and some of the project area tracts or block groups do not meet the DAC criterion, the project will be considered a DAC project for the purpose of waiving cost share requirements in proportion to the population served that meets the DAC criterion. For some projects, it may be more appropriate to use the project cost or area served as the basis for proportioning the project into DAC and non-DAC segments, for instance, when there are differences in population density or in project costs to serve different segments of the project population.

In cases where the ACS 5-year survey data do not support a community as a DAC, DWR will consider use of other data that show the community is a DAC. For instance, use of third party survey data that supports the population served by the project has an MHI of less than $48,875. In these instances, please contact DWR for a determination of how alternate data may be used to determine whether a community is a DAC.

Providing a Direct Water-Related Benefit to a DAC

Projects that provide a direct water-related benefit to a DAC are eligible for a funding match waiver. For these types of projects, applicants are encouraged to demonstrate that a project area serving a DAC has a significant water-related need or project development activities will benefit a community's water-related needs. Refer to the PSP for more details on how to apply for the DAC funding match waiver.

Meeting a Critical Water Supply or Water Quality Need

In addressing the Critical Water Supply or Water Quality Need Program Preference, applicants are encouraged to demonstrate that a project area serving a DAC meets a "critical water supply or water quality need". Critical water supply need or critical water quality need means there is a severe threat to the health and safety of the DAC. Table 9 includes examples of projects that meet this Program Preference. Also, Table 9 lists project ranking criteria developed by SWRCB as part of its Safe Drinking Water State Revolving Fund (SRF) Program. If a proposed project falls within SRF categories A through G, it will be considered a project that meets this Program Preference.

Studies to identify a project that meets a Critical Water Supply or Water Quality need of a DAC

Because DACs may not have a developed project to put forward, the types of eligible projects to address critical water supply or water quality needs of a DAC may include studies designed to help identify a preferred project. Eligible projects in direct support of DACs include feasibility studies that may lead to a construction project to address DAC needs; engineering designs and specifications; or needs assessments where a critical water supply or quality issue is perceived but specific needs have not been determined.

Table 9 – Critical Water Supply or Water Quality Need Program Preference Project Examples

Examples of a critical water quality need include:	**Examples of water quality projects that, in general, do not meet a critical water quality need:**
• Wastewater treatment necessary to abate or prevent surface or groundwater contamination • Wastewater treatment required to protect beneficial uses or meet a discharge standard • Replacement or rehabilitation of wastewater collection systems necessary to abate or prevent surface or groundwater contamination • Management of flood flows that threaten the habitability of dwellings • Replacement of failing septic systems with a system that provides for the long term wastewater treatment needs of the community	• Water quality improvement for fish and wildlife habitat • Payment of fines for discharge violations • Projects designed to increase recreational opportunities • Projects to provide educational benefits

Table 9 – Critical Water Supply or Water Quality Need Program Preference Project Examples	
Examples of a critical water supply need include:	**Examples of water supply that, in general, do not meet a critical water supply need would include:**
• Modification of a public water supply system necessary for the system to meet primary drinking water standards • Infrastructure renovations to a public water supply system necessary to assure continued reliability of the minimum quality and quantity of water • Augmentation of inadequate water supply pressure in a public water supply system needed to prevent loss of system integrity and to maintain adequate fire protection flows • Replacement of water supply wells that have exceeded their useful life (older than 50 years) • SWRCB Safe Drinking Water SRF Priority List Ranking Criteria A through H A. Water systems with deficiencies that have resulted in documented waterborne disease outbreak illnesses that are attributable to the water systems, or water systems under a court order to correct Safe Drinking Water Act violations and/or water outage problems. B. Water systems that have repeatedly violated the total coliform rule (TCR) due to active sources contaminated with coliform bacteria (fecal, E. coli, or total coliform). C. Water systems that have a surface water supply; a groundwater under the direct influence of surface water (GWUDI) source, that is not filtered, or untreated; or non-GWUDI well sources that are contaminated with fecal coliform or E. coli. D. Water systems that have surface water or GWUDI sources with filtration treatment deficiencies that violate federal or state regulations concerning surface water treatment requirements; non-GWUDI wells that are contaminated with fecal coliform or E. coli and are inadequately treated; or uncovered distribution reservoirs. E. Water systems with water outages, significant water quantity problems caused by source water capacity, or water delivery capability that is insufficient to supply current demand. F. Water systems that distribute water containing nitrates/nitrites in excess of the maximum contaminant level (MCL); distribute water containing perchlorate in excess of the MCL; or are in violation of the Total Coliform Rule for reasons other than source contamination. G. Water systems that distribute water containing chemical or radiological contamination exceeding a State or Federal primary drinking water standard (other than nitrate/nitrite or perchlorate). H. Water systems with reservoirs with non-rigid (floating) covers that are in active use; or water systems that do not provide meters for the water delivered to customers.	• Irrigation supply water • Water supply to improve fish and wildlife habitat • Water metering, except when meters are critical to maintain water service, or otherwise needed to maintain minimum system reliability • SWRCB Safe Drinking Water SRF Priority List Ranking Criteria I through O I. Water systems that comply with surface water treatment requirements, but are not in conformance with the California Cryptosporidium Action Plan. J. Water systems that are in violation of portions of the Water Works Standards those could result in the entry of wastewater into the water supply or distribution system K. Water systems that operate disinfection facilities lacking needed reliability features, chlorine residual analyzers and alarms or have other disinfection deficiencies that violate the Water Works Standards. L. Water systems that distribute water in excess of the iron or manganese secondary standard and for which a compliance order has been issued; distribute water in excess of SWRCB published chemical Notification Level; distribute water which has exceeded a primary drinking water standard in one or more samples, but has not violated the standard (for a running average standard); or need treatment for a standby groundwater source that is contaminated in excess of a primary MCL. M. Water systems that do not meet the Water Works Standards (other than those components already covered by the above listed categories), or do not meet the Technical, Managerial, and Financial criteria but do not have a project in any of the above categories. N. Water systems that distribute water exceeding secondary standards. O. All water system deficiencies that are eligible and are not covered in any of the above categories.

APPENDIX H
PLAN REVIEW PROCESS

I. PURPOSE AND USE

This appendix constitutes the Plan Review Process (PRP) used by DWR to evaluate Integrated Regional Water Management (IRWM) plans against the plan standards contained in these Guidelines. DWR has provided planning grant funding for the development of IRWM Plans that meet the IRWM Plan Standards based on Proposition 84 and the IRWM Planning Act, California Water Code (CWC) §10530 *et seq*. DWR has also provided implementation grant funding to numerous IRWM Regional Water Management Groups (RWMGs) who are contractually obligated to update their IRWM plans to comply with Part 2.2 of Division 6 of the California Water Code, commencing with Section 10530.

DWR will use the PRP to review IRWM plan content. Additionally, one of the grant eligibility requirements for the 2015 IRWM Proposition 84 IRWM Implementation Grant funding is adoption of an IRWM Plan that is consistent with the IRWM Plan Standards contained in the 2012 IRWM Program Guidelines. The PRP will provide a standardized means to review IRWM Plans for consistency. The PRP is composed of four major elements – when to submit, what to submit, how to submit, and DWR's review efforts.

Please note that future grant eligibility, associated with the IRWM Plan Standards, may need to be reevaluated if the plan content or eligibility criteria are altered through future legislative actions, such as the appropriations process.

There are several reasons or combinations of reasons that a Regional Water Management Group (RWMG) may decide to submit an IRWM plan to the PRP. The RWMG submitting the IRWM Plan must be clear on reasons for submitting their plans. Potential reasons for submitting a plan for review include eligibility for future funding and compliance with the default clause contained in Implementation grant agreements from Rounds 1 and 2; or general IRWM plan review.

II. WHEN TO SUBMIT

DWR will notify IRWM regions via email and web posting that IRWM Plans can be submitted for review. DWR will generally review plans as they are received. For RWMGs seeking IRWM Plan review prior to a future Implementation Grant solicitation, DWR recommends that the IRWM Plan be submitted as early as possible prior to the application deadline. This will afford RWMG's time to address any deficiencies identified by DWR prior to any funding considerations or constraints. To ensure that IRWM Plan reviews can be completed in time, DWR will set a plan submittal deadline of 60 calendar days prior to the application due date for the last Proposition 84 Implementation grant solicitation. RWMGs, and respective project proponents, are encouraged to adopt their updated IRWM Plan after completing the relevant plan updates, so as to have proof of adoption of the most up-to-date IRWM Plan for eligibility purposes of upcoming grant solicitations.

For IRWM Plans being submitted as condition of an existing grant agreement, the review process does not extend any grant agreement deadline or provision. RWMGs/Grantees are responsible for submitting their IRWM Plans in a timely manner for review and any follow up actions as it relates to an existing grant agreement or any grant solicitation.

III. WHAT TO SUBMIT

The submittal package consists of three items, a transmittal letter, an electronic copy of the plan, and an optional "road map" that refers reviewers to specific pages for required plan elements.

1. ***Transmittal Letter/Email (Required)***. The transmittal letter or email must include the following items:
   - Name of the IRWM region and name of the organization submitting the IRWM Plan

- Name and contact information (email address, mailing address, and phone number) of one specific individual acting as contact for the plan. This individual will receive correspondence regarding results of the plan review.
- Status of the IRWM Plan at the time of submittal (i.e. final and not adopted or adopted).
- For non-adopted IRWM Plans, a list of any remaining steps that the RWMG must undertake prior to formal adoption by the RWMG and others, including the timeline to adoption.
- The reason for the IRWM Plan review (list all that apply):
  - 2015 IRWM Grant Solicitation
  - Future Implementation Grant Solicitation
  - Compliance with an existing implementation grant agreement clause
  - General IRWM Plan review

2. ***IRWM Plan (Required).*** The IRWM Plan must be complete, including all appendices. DWR will not review a plan in piecemeal fashion. The IRWM Plan must be at least a final non-adopted version.

   The plan may be submitted as a single file or as multiple files. If the IRWM plan is submitted in multiple files, each file should be unambiguously named as part of the entire document in order to ensure complete and timely review by DWR staff; for example Chapter 1, 2, 3, etc., or Appendix A, B, C, etc. Acceptable file formats are: PDF, MS Word, MS Excel, and MS Project.

3. ***Reference list to Required Standard Elements (Optional).*** A list or lookup table of Plan Standard guideline requirement locations in the IRWM Plan may be provided to DWR. This list will be used by DWR reviewers during the review to access specific locations in the plan that address specific standard requirements.

IV. How to Submit

The transmittal letter/email and IRWM Plan must be submitted electronically. Hard copies of the IRWM Plan will not be accepted. A single CD/DVD is preferred, but submittal via email is also acceptable.

Via CD/DVD – The CD/DVD can be sent to DWR via any of the following methods:

By U.S. Mail:

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

Overnight courier to:

California Department of Water Resources
Division of Integrated Regional Water Management
Financial Assistance Branch – Attn: Chief, Planning Section
1416 9th Street, Room 338
Sacramento, CA 95814

Or hand-deliver to:

901 P Street, Lobby
Sacramento, CA 95814
Chief, Planning Grant Section

VIA EMAIL

DWR can accept email files up to 50 megabytes inclusive of the email content plus any attachments. An IRWM plan with an overall file size exceeding this limit may be sent in multiple emails. The subject line of each email must include the name of the IRWM region. It must also include the email number and total number of emails being sent to submit the entire plan. For example the first of three emails from ABC IRWM region would have the subject line of: ABC IRWM region 1 of 3. Each file must be named per this multiple file naming convention. Send the email(s) to DWR_IRWM@water.ca.gov.

Once DWR has received the plan, the IRWM contact person will receive an email confirming the receipt of the plan and estimated completion date of the draft review (approximately 60 calendar days).

V. REVIEW PROCESS

DWR will review the submitted plans to evaluate whether the IRWM Plan meets each of the 16 IRWM Plan Standards. This review will be accomplished using the Plan Standards Review Tool. The Plan Standards Review Tool (Exhibit H-1) is an Excel workbook consisting of one worksheet for each of the 16 IRWM Plan Standards. Each worksheet is made up of a checklist of required components (between 1 and 14 components depending on the individual standard) for each standard and may contain narrative evaluations as appropriate. The Plan Standard Review Tool contains formulas within and between worksheets to aid in the review process.

The evaluation is pass/fail assessment; there is no numeric scoring or grading of individual IRWM Plans. A "yes" or "no" determination for each Standard is assigned based on the required component evaluation for each Standard. A summary of the sufficiency of each Standard is automatically calculated on the Standards Summary worksheet. A "no" evaluation indicates that a Standard was not met due to insufficient individual requirements which comprise the Standard. The evaluation for each Plan Standard with any associated insufficiencies is compiled on the Standards Summary page. Examples of Plan Standard Requirements which must be addressed include "Dependency on the Delta" where applicable (Region Description and Project Review Process Guidelines); DAC Involvement" (Region Description and Project Review Process Guidelines); and "Stakeholder Involvement Regardless of Ability to Pay" (Stakeholder Involvement Guideline).

For each IRWM Plan reviewed, a review team of 2 technical reviewers will be assigned. In general, one reviewer will be the Regional Service Representative assigned to the specific IRWM Region; the other technical reviewer will be from DWR Financial Assistance Branch (FAB) in Sacramento. Each reviewer will perform a review using the Plan Standards Review Tool. Once finished, the 2 technical reviewers will meet with FAB senior staff and create a consensus review. This consensus review, once approved by the FAB Planning Section Chief and Branch Chief, will be provided to the RWMG as a draft review. The RWMG will have an opportunity to comment, per Section VI below.

VI. DWR RESPONSE

DWR will send the draft review package to the RWMG contact via email which will include the following:

- Cover letter.
- IRWMP Draft Review – the review summary sheet and a single review form for each Plan Standard.
- Notification of any necessary follow-up.
- Request of confirmation that the DWR draft review was received.

Public Comment Period

DWR's draft IRWM Plan reviews will be posted on the IRWM grants website which can be found at the following link: http://www.water.ca.gov/irwm/grants/prp.cfm. The draft reviews will be batch posted on the first and 15th of the month. A 30-calendar day public comment period (starting on the day the review is posted on the website) will be in place for these reviews. DWR will share any public comments for a particular IRWM plan with the RWMG for that region and will determine whether the comments require being addressed in the plan. DWR will finalize a plan review after the public comment period has closed for the specific review and any related discussion with the applicable RWMG has occurred.

If the IRWM Plan is Consistent with the Plan Standards

If the IRWM Plan is consistent with the Plan Standards and no public comments were received by DWR that indicate inconsistency, the cover letter of the review will state that the plan is consistent with the IRWM Planning Act, as outlined in Section IV.A (General Program Requirements, IRWM Plan Standards) of these Guidelines. As applicable, DWR will also notify the RWMG whether the IRWM Plan satisfies the term of their grant agreement. Draft IRWM reviews will be finalized and deemed Plan Standard consistent. A final review will be sent to the RWMG and posted on the website listed above.

If Revisions are Necessary

If revisions are necessary based on DWR review or public comments, the RWMG will have an opportunity to follow-up with revisions to the IRWM Plan. DWR will contact the RWMG after the 30-day public comment period to determine the status of the RWMG's response. It is incumbent on the RWMG to respond in a timely manner with revisions as the PRP does not exempt IRWM regions from compliance with external deadlines and requirements, such as application due dates or provisions of existing grant agreements.

If revisions are adequate to meet Plan Standards, DWR will accept the revised text without a requirement of any immediate re-adoption of the IRWM Plan. DWR will defer to the processes and timelines that exist in the IRWM Plan for approval of changes to the plan. DWR will finalize the plan review stating actions the IRWM has taken and that the IRWM Plan is now consistent with the standards. The final review will be sent to the IRWM contact and posted on the web.

If revisions are not adequate to make the IRWM Plan consistent with standards, the reasons for the inadequacy will be included in the follow-up response email to the RWMG. Inadequate revisions may be addressed in subsequent follow up with DWR. For applicants seeking eligibility in future grant solicitations, DWR will allow needed revisions up to the date of draft award for an applicable solicitation. DWR's intent through the PRP is to hold any necessary revisions to as few iterations as possible. A final plan review will be sent to the IRWM contact and posted on the web.

EXHIBIT H-1
2012 IRWM PLAN STANDARDS REVIEW TOOL FORM

INTRODUCTION

IRWM planning regions must have an IRWM Plan that has been reviewed and deemed consistent with the 2012 IRWM Plan Standards by DWR for eligibility to receiving Proposition 84 IRWM Implementation Grant funding. This 2012 IRWM Plan Standards Review Form for DWR staff use provides a consistent means in determining whether the 2012 IRWM Guidelines are being addressed in the IRWM Plan. It is part of the Plan Review Process that will begin prior to upcoming implementation grant solicitations. The form is similar to a grant application review form in that there is a checklist for each of the 16 Plan Standards and narrative evaluations where required. However, the evaluation is pass/fail; there is no numeric scoring. Each Plan Standard is either sufficient or not based on its associated requirements. Each Standard consists of between one and fourteen requirements. A Yes or No is automatically calculated in each Plan Standard header based on the individual requirement evaluations. In general, a passing score of "C" (i.e. 70% of the requirements for a given Plan Standard) is required for a Standard to pass. Standards with only one or 2 requirements will need one or both of those requirements to pass. Standards with 3 requirements will need at least 2 of the requirements to pass. Standards with 4 or 5 requirements will need at least 3 to pass. Some plan elements are legislated requirements. Such plan elements must be met in order to be considered consistent with plan standards. A summary of the sufficiency of each Standard is automatically calculated on the Standards Summary worksheet. A "No" evaluation indicates that a Standard was not met due to insufficient requirements comprising the Standard. The evaluation for each Plan Standard and any associated insufficiencies is automatically compiled on the Standards Summary page. Additional reviewer comments may be added at the bottom of each standards work sheet.

Note: This review form is meant to be a tool used in conjunction with the relevant IRWM Grant Program Guidelines document to assist in the evaluation of IRWM plans. It is not designed to be a substitute for the guidelines document itself. Reviewers must use the relevant guidelines in determining plan consistency.

DEFINITION OF TABLE HEADINGS

IRWM Plan Standard:	As named in the November 2012 IRWM Program Guidelines.
Overall Standard Sufficient:	This field is either "YES" or "NO" and is automatically calculated based on the "Sufficient" column described below. If all fields are "y", the overall standard is deemed sufficient. Any entry other than a "y" in the Sufficient column (i.e. "n", ?, not sure, more detail needed, etc.) results in a NO.
Plan Standard Requirements Which Must Be Addressed	**Fields with an asterisk * are required by legislation to be included in an IRWM Plan.**

Requirement	Requirements are taken directly from the November 2012 Guidelines.
Included	Is the Guideline Requirement included in the IRWM Plan? The options are: y = yes, requirement is included in the IRWMP; or n = no, requirement is not included in the IRWMP. If only y or n then presence/absence of the requirement is sufficient for evaluation. If there is a "q" (qualitative) then add a brief narrative, similar to a Grant Application Review public evaluation or supporting information.
Plan Standard Source	
2012 IRWM Grant Program Guidelines/Source Page(s)	Page(s) in the Guidelines (November 2012) which pertain to the Requirement.
Legislative Support and/or Other Citations	The CWC or other regulations that pertain to the Requirement, **if applicable**. This is for reference purposes. The cell links to a weblink of the regulatory code.
Evidence of Sufficiency	
Location of Standard in Grantee IRWM Plan	The page(s) or sections in the IRWM Plan where information on the Requirement can be found. This can be specific paragraphs or entire chapters for more general requirements.
Brief Qualitative Evaluation Narrative	Supporting information for the Requirement if a "q" is in the Included column. This can be just a few sentences or a paragraph and can be taken directly from the IRWM Plan. Comments or supporting information may be entered regardless of whether required.
Sufficient	Is the Guidelines requirement sufficiently represented in the IRWM Plan (y/n).

IRWM Plan Standards Review Form

Regional Acceptance Process Planning
Region: Regional Water Management
Group:
IRWM
Plan Title:
DWR
Reviewer:

ONE OR MORE PLAN STANDARDS NOT SUFFICIENT

IRWM Plan Standard	Overall Standard Sufficient	Requirement(s) Insufficient
Governance	No	
Region Description	No	
Objectives	No	
Resource Management Strategies	No	
Integration *	No	
Project Review Process	No	
Impact and Benefit	No	
Plan Performance and Monitoring	No	
Data Management	No	
Finance	No	
Technical Analysis	No	
Relation to Local Water Planning	No	
Relation to Local Land Use Planning	No	
Stakeholder Involvement	No	
Coordination	No	
Climate Change	No	

* If not included as an individual section use Governance, Project Review Process, and Data Management Standards per the relevant IRWM Program Guidelines.

Additional Comments:

IRWM Plan Standard: Governance						Overall Standard	No
Requirement	**Included**		**Plan Standard Source**		**Evidence of Sufficiency**		**Sufficient**
From IRWM Guidelines	**y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.**		**2012 IRWM Grant Program Guidelines Source Page(s)**	**Regulatory and/or Other Citations**	**Location of Standard in Grantee IRWM Plan**	**Brief Evaluation Narrative**	**y/n**
Document a governance structure to ensure updates to the IRWM Plan							
The name of the RWMG responsible for implementation of the IRWMP	**y/n**		**18/35**	CWC §10539			
A description of the IRWM governance structure	**y/n**		**19/36**				
A description of how the chosen form of governance **addresses** and **ensures**:							
Public outreach and involvement processes	**y/n/q**		**19/36-37**	§10540, §10541			
Effective decision making	**y/n/q**		**19/37**				
Balanced access and opportunity for participation in the IRWM process	**y/n/q**		**19/37**				
Effective communication – both internal and external to the IRWM region	**y/n/q**		**19/37-38**				
Long term implementation of the IRWM Plan	**y/n/q**		**19/38**				
Coordination with neighboring IRWM efforts and State and federal agencies	**y/n/q**		**19/38**				
The collaborative process(es) used to establish plan objectives	**y/n/q**		**19/38**				
How interim changes and formal changes to the IRWM Plan will be performed	**y/n/q**		**19/38**				
Updating or amending the IRWM Plan	**y/n/q**		**19/38**				
Publish NOI to prepare/update the plan; adopt the plan in a public meeting	**y/n/q**		**35**	CWC §10543			

IRWM Plan Standard: Region Description						Overall Standard Sufficient	No
Requirement	**Included**		**Plan Standard Source**		**Evidence of Sufficiency**		**Sufficient**
From IRWM Guidelines	**y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.**		**2012 IRWM Grant Program Guidelines Source Page(s)**	**Legislative Support and/or Other Citations**	**Location of Standard in Grantee IRWM Plan**	**Brief Evaluation Narrative**	**y/n**
If applicable, describe and explain how the plan will help reduce dependence on the Delta supply regionally	**y/n**		**20**	-			
Describe watersheds and water systems	**y/n**		**19/39**	PRC §75026.(b)(1) and CWP Update 2009			
Describe internal boundaries	**y/n**		**19/39**	-			
Describe water supplies and demands for minimum 20 year planning horizon	**y/n**		**19/39**	-			
Describe water quality conditions	**y/n**		**19/40**	-			
Describe social and cultural makeup, including specific information on DACs and tribal communities in the region and their water challenges.	**y/n/q**		**19/40**	-			
Describe major water-related objectives and conflicts *	**y/n/q**		**19/40**	§10541. (e)(3)			
Explain how IRWM regional boundary was determined and why region is an appropriate area for IRWM planning.	**y/n/q**		**19/40**	-			
Describe neighboring and/or overlapping IRWM efforts	**y/n**		**19/40**	-			
Explain how opportunities are maximized (e.g. people at the table, natural features, infrastructure) for integration of water management activities	**y/n**		**38**	-			

* Requirement must be addressed.

IRWM Plan Standard: Objectives						Overall Standard Sufficient	No
Requirement	Included		Plan Standard Source		Evidence of Sufficiency		Sufficient
From IRWM Guidelines	**y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.**		**2012 IRWM Grant Program Guidelines Source Page(s)**	**Legislative Support and/or Other Citations**	**Location of Standard in Grantee IRWM Plan**	**Brief Evaluation Narrative**	**y/n**
Through the objectives or other areas of the plan, the 7 items on pg 41 of Guidelines are addressed.*	**y/n**		**20/40 - 41**	§10540.(c)			
Describe the collaborative process and tools used to establish objectives: - How the objectives were developed What information was considered (i.e., water management or local land use plans, etc.) - What groups were involved in the process How the final decision was made and accepted by the IRWM effort	**y/n**		**20/41**	--			
Identify quantitative or qualitative metrics and measureable objectives: Objectives must be measurable - there must be some metric the IRWM region can use to determine if the objective is being met as the IRWM Plan is implemented. Neither quantitative nor qualitative metrics are considered inherently better. *	**y/n/q**		**20/41 - 42**	10541.(e)			
Explain how objectives are prioritized or reason why the objectives are not prioritized	**y/n/q**		**20/42-43**	--			
Reference specific overall goals for the region: RWMGs may choose to use goals as an additional layer for organizing and prioritizing objectives, or they may choose to not use the term at all.	**y/n**		**43**	--			

* Requirement must be addressed.

IRWM Plan Standard: Resource Management Strategies (RMS)						Overall Standard Sufficient	No
Requirement	**Included**		**Plan Standard Source**		**Evidence of Sufficiency**		**Sufficient**
From IRWM Guidelines	**y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.**		**2012 IRWM Grant Program Guidelines Source Page(s)**	**Legislative Support and/or Other Citations**	**Location of Standard in Grantee IRWM Plan**	**Brief Evaluation Narrative**	**y/n**
Identify RMS incorporated in the IRWM Plan: Consider all California Water Plan (CWP) RMS criteria (29) listed in Table 3 from the CWP Update 2009 *	**y/n**		**20/43**	CWP Update 2009 Volume II; 10541(e)(1)			
Consideration of climate change effects on the IRWM region must be factored into RMS	**y/n**		**20/43**	--			
Address which RMS will be implemented in achieving IRWM Plan Objectives	**y/n**		**44**	--			

* Requirement must be addressed.

IRWM Plan Standard: Integration						Overall Standard	No
Requirement	**Included**		**Plan Standard Source**		**Evidence of Sufficiency**		**Sufficient**
From IRWM Guidelines	**y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.**		**2012 IRWM Grant Program Guidelines Source Page(s)**	**Legislative Support and/or Other Citations**	**Location of Standard in Grantee IRWM Plan**	**Brief Evaluation Narrative**	**y/n**
Contains structure and processes for developing and fostering integration [1]: - Stakeholder/institutional - Resource - Project implementation	**y/n/q**		**20/44 - 45**	§10540.(g); §10541.(h)(2)			

1. If not included as an individual section use Governance, Project Review Process, and Data Management Standards per relevant IRWM Program Guidelines.

IRWM Plan Standard: Project Review Process						Overall Standard Sufficient	No
Requirement	Included		Plan Standard Source		Evidence of Sufficiency		Sufficient
From IRWM Guidelines	y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.		2012 IRWM Grant Program Guidelines Source Page(s)	Regulatory and/or Other Citations	Location of Standard in Grantee IRWM Plan	Brief Evaluation Narrative	y/n
Process for projects included in IRWM plan must address 3 components: - procedures for submitting projects - procedures for reviewing projects - procedures for communicating lists of selected projects	y/n		20/45				
Does the project review process in the plan incorporate the following factors:							
How a project contributes to plan objectives	y/n		20				
How a project is related to Resource Management Strategies identified in the plan.	y/n		20				
The technical feasibility of a project.	y/n		20				
A projects specific benefits to a DAC water issue.	y/n		20				
Environmental Justice considerations.	y/n		20	§75028.(a)			
Project costs and financing	y/n		20				
Address economic feasibility	y/n		21				
Project status	y/n		21				
Strategic implementation of plan and project merit	y/n		21/48				
Project's contribution to climate change adaptation	y/n		21				
Contribution of project in reducing GHGs compared to project alternatives	y/n		21				
Status of the Project Proponent's IRWM plan adoption	y/n		21				
Project's contribution to reducing dependence on Delta supply (for IRWM regions receiving water from the Delta).	y/n		21				

IRWM Plan Standard: Impact and Benefit						Overall Standard Sufficient	No
Requirement	Included		Plan Standard Source		Evidence of Sufficiency		Sufficient
From IRWM Guidelines	y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.		2012 IRWM Grant Program Guidelines Source Page(s)	Legislative Support and/or Other Citations	Location of Standard in Grantee IRWM Plan	Brief Evaluation Narrative	y/n
Discuss potential impacts and benefits of plan implementation within IRWM region, between regions, with DAC/EJ concerns and Native American Tribal communities	y/n		21	--			
State when a more detailed project-specific impact and benefit analysis will occur (prior to any implementation activity)	y/n		49	--			
Review and update the impacts and benefits section of the plan as part of the normal plan management activities	y/n		50	--			

IRWM Plan Standard: Plan Performance and Monitoring						Overall Standard Sufficient	No
Requirement	Included		Plan Standard Source		Evidence of Sufficiency		Sufficient
From IRWM Guidelines	y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.		2012 IRWM Grant Program Guidelines Source Page(s)	Legislative Support and/or Other Citations	Location of Standard in Grantee IRWM Plan	Brief Evaluation Narrative	y/n
Contain performance measures and monitoring methods to ensure that IRWM objectives are met *	y/n		21/53	PRC §75026.(a)			
Contain a methodology that the RWMG will use to oversee and evaluate implementation of projects.	y/n		21/53				

* Requirement must be addressed.

IRWM Plan Standard: Data Management						Overall Standard Sufficient	No
Requirement	Included		Plan Standard Source		Evidence of Sufficiency		Sufficient
From IRWM Guidelines	y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.		2012 IRWM Grant Program Guidelines Source Page(s)	Regulatory and/or Other Citations	Location of Standard in Grantee IRWM Plan	Brief Evaluation Narrative	y/n
Describe data needs within the IRWM region	y/n		54	--			
Describe typical data collection techniques	y/n		54	--			
Describe stakeholder contributions of data to a data management system	y/n		54	--			
Describe the entity responsible for maintaining data in the data management system	y/n		54	--			
Describe the QA/QC measures for data	y/n		54	--			
Explain how data collected will be transferred or shared between members of the RWMG and other interested parties throughout the IRWM region, including local, State, and federal agencies*	y/n		54	--			
Explain how the Data Management System supports the RWMG's efforts to share collected data	y/n		54	--			
Outline how data saved in the data management system will be distributed and remain compatible with State databases including CEDEN, Water Data Library (WDL), CASGEM, California Environmental Information Catalog (CEIC), and the California Environmental Resources Evaluation System (CERES).	y/n		54	--			

* Requirement must be addressed.

IRWM Plan Standard: Finance						Overall Standard Sufficient	No
Requirement	Included		Plan Standard Source		Evidence of Sufficiency		Sufficient
From IRWM Guidelines	y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.		2012 IRWM Grant Program Guidelines Source Page(s)	Legislative Support and/or Other Citations	Location of Standard in Grantee IRWM Plan	Brief Evaluation Narrative	y/n
Include a programmatic level (i.e. general) plan for implementation and financing of identified projects and programs* including the following:	y/n		21	§10541.(e)(8)			
List known, as well as, possible funding sources, programs, and grant opportunities for the development and ongoing funding of the IRWM Plan.	y/n		21				
List the funding mechanisms, including water enterprise funds, rate structures, and private financing options, for projects that implement the IRWM Plan.	y/n		21				
An explanation of the certainty and longevity of known or potential funding for the IRWM Plan and projects that implement the Plan.	y/n		21				
An explanation of how operation and maintenance (O&M) costs for projects that implement the IRWM Plan would be covered and the certainty of operation and maintenance funding.	y/n		21				

* Requirement must be addressed.

IRWM Plan Standard: Technical Analysis						Overall Standard Sufficient	No
Requirement	Included		Plan Standard Source		Evidence of Sufficiency		Sufficient
From IRWM Guidelines	y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.		2012 IRWM Grant Program Guidelines Source Page(s)	Legislative Support and/or Other Citations	Location of Standard in Grantee IRWM Plan	Brief Evaluation Narrative	y/n
Document the data and technical analyses that were used in the development of the plan.*	y/n		22	--			

* Requirement must be addressed.

IRWM Plan Standard: Relation to Local Water Planning					Overall Standard Sufficient	No
Requirement	Included		Plan Standard Source		Evidence of Sufficiency	Sufficient
From IRWM Guidelines	y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.		2012 IRWM Grant Program Guidelines Source Page(s)	Legislative Support and/or Other Citations	Location of Standard in Grantee IRWM Plan	Brief Qualitative Evaluation Narrative	y/n
Identify a list of local water plans used in the IRWM plan	y/n		22	§10540.(b)			
Discuss how the plan relates to these other planning documents and programs	y/n		22				
Describe the dynamics between the IRWM plan and other planning documents	y/n		22				
Describe how the RWMG will coordinate its water management planning activities	y/n		58				

IRWM Plan Standard: Relation to Local Land Use Planning					Overall Standard Sufficient	No
Requirement	Included		Plan Standard Source		Evidence of Sufficiency	Sufficient
From IRWM Guidelines	y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.		2012 IRWM Grant Program Guidelines Source Page(s)	Legislative Support and/or Other Citations	Location of Standard in Grantee IRWM Plan	Brief Qualitative Evaluation Narrative	y/n
Document current relationship between local land use planning, regional water issues, and water management objectives	y/n		22/59 - 62	--			
Document future plans to further a collaborative, proactive relationship between land use planners and water managers	y/n		22/59 - 62	--			

IRWM Plan Standard: Stakeholder Involvement					Overall Standard Sufficient	No
Requirement	Included		Plan Standard Source		Evidence of Sufficiency	Sufficient
From IRWM Guidelines	y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.		2012 IRWM Grant Program Guidelines Source Page(s)	Legislative Support and/or Other Citations	Location of Standard in Grantee IRWM Plan	Qualitative Evaluation Narrative	y/n
Contain a public process that provides outreach and opportunity to participate in the IRWM plan *	y/n		22/63	§10541.(g)			
Identify process to involve and facilitate stakeholders during development and implementation of plan regardless of ability to pay; include barriers to involvement *	y/n		64	§10541.(h) (2)			
Discuss involvement of DACs and tribal communities	y/n		23	--			
Describe decision-making process and roles that stakeholders can occupy	y/n		23	--			
Discuss how stakeholders are necessary to address objectives and RMS	y/n		23	--			
Discuss how a collaborative process will engage a balance in interest groups	y/n		23	--			

* Requirement must be addressed.

IRWM Plan Standard: Coordination						Overall Standard Sufficient	No
Requirement	Included		Plan Standard Source		Evidence of Sufficiency		Sufficient
From IRWM Guidelines	y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.		2012 IRWM Grant Program Guidelines Source Page(s)	Legislative Support and/or Other Citations	Location of Standard in Grantee IRWM Plan	Qualitative Evaluation Narrative	y/n
Identify the process to coordinate water management projects and activities of participating local agencies and stakeholders to avoid conflicts and take advantage of efficiencies *	y/n		23/65	§10541.(e)(13)			
Identify neighboring IRWM efforts and ways to cooperate or coordinate, and a discussion of any ongoing water management conflicts with adjacent IRWM efforts	y/n		23/65	--			
Identify areas where a state agency or other agencies may be able to assist in communication or cooperation, or implementation of IRWM Plan components, processes, and projects, or where State or federal regulatory decisions are required before implementing the projects.	y/n		23	--			

* Requirement must be addressed.

IRWM Plan Standard: Climate Change						Overall Standard Sufficient	No
Requirement	Included		Plan Standard Source		Evidence of Sufficiency		Sufficient
From IRWM Guidelines	y/n - Present/Not Present in the IRWMP. If y/n/q qualitative evaluation needed.		2012 IRWM Grant Program Guidelines Source Page(s)	Legislative Support and/or Other Citations	Location of Standard in Grantee IRWM Plan	Qualitative Evaluation Narrative	y/n
Evaluate IRWM region's vulnerabilities to climate change and potential adaptation responses based on vulnerabilities assessment in the DWR Climate Change Handbook for Regional Water Planning *	y/n	y	23/66 - 73	Climate Change Handbook vulnerability assessment: http://www.water.ca.gov/climatechange/CCH andbook.cfm; November 2012Guidelines Legislative and Policy Context, p.66. Public Resources Code §10541.(e)(11)			
Provide a process that considers GHG emissions when choosing between project alternatives *	y/n	y	23/68				
Include a list of prioritized vulnerabilities based on the vulnerability assessment and the IRWM's decision making process.	y/n	y	23/66 - 73				
Contain a plan, program, or methodology for further data gathering and analysis of prioritized vulnerabilities	y/n	y	23/66 - 73				
Include climate change as part of the project review process	y/n	y	23/68				

* Requirement must be addressed.

Regulatory Citation	Link	Note
IRWM Prop 84 and 1E Guidelines	http://www.water.ca.gov/irwm/grants/docs/Archives/Prop84/Guidelines_PSPs/GL_2012_FINAL.pdf	DWR November 2012 Guidelines - Final
CWC §10539	http://leginfo.legislature.ca.gov/faces/codes_displaySection.xhtml?lawCode=WAT&sectionNum=10539.	
CWC §10540, §10541	http://leginfo.legislature.ca.gov/faces/codes_displaySection.xhtml?lawCode=WAT&sectionNum=10540. http://leginfo.legislature.ca.gov/faces/codes_displaySection.xhtml?lawCode=WAT&sectionNum=10541.	
CWC §10543	http://leginfo.legislature.ca.gov/faces/codes_displaySection.xhtml?lawCode=WAT&sectionNum=10543.	
PRC §75026, §75028, CWP Update 2009, and California Watershed Portal	http://leginfo.legislature.ca.gov/faces/codes_displayText.xhtml?lawCode=PRC&division=43.&title=&part=&chapter=2.&article=	DWR shall give preference to proposals that satisfy the criteria specified in PRC §75026.(b)(1) and §75028.(a) - DWR shall defer to approved local project selection, and review projects only for consistency with the purposes of Section 75026.
	http://www.waterplan.water.ca.gov/cwpu2009/index.cfm	2009 California Water Plan Volumes I and II
	http://www.conservation.ca.gov/dlrp/watershedportal/Pages/Index.aspx	California Watershed Portal
§10541. (e)(3)	http://leginfo.legislature.ca.gov/faces/codes_displaySection.xhtml?lawCode=WAT&sectionNum=10541.	

THE CALIFORNIA NATURAL RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
DIVISION OF INTEGRATED REGIONAL WATER MANAGEMENT