

GREATER LOS ANGELES COUNTY INTEGRATED REGIONAL WATER MANAGEMENT PLAN REPORT ON PLANNING NEEDS

1. INTRODUCTION

1.1 Purpose

The purpose of this report is to describe potential planning needs that could inform a future update of the Integrated Regional Water Management (IRWM) plan for Greater Los Angeles County.

1.2 Background

The Integrated Regional Water Management Act of 2002 (SB 1672, Costa) amended the California Water Code (CWC) to add §10530 to encourage local agencies to work cooperatively to manage local and imported water supplies to improve the quality, quantity, and reliability of those supplies. While this act provided for IRWM plans and gave some guidance on the contents of a plan, the act gave little guidance or incentive for IRWM planning or plan implementation.

In November 2002, California voters passed Proposition 50, the *Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002*, which provided \$500,000,000 (CWC §79560-79565) to fund competitive grants for projects consistent with an adopted IRWM plan. The grant program was run as a joint effort between the Department of Water Resources (DWR) and the State Water Quality Control Board to provide both planning and implementation grants to IRWM efforts. In accord with this Act, the Leadership Committee of the Greater Los Angeles County Region prepared an IRWMP, which was adopted on December 13, 2006.

In November 2006, California voters passed Proposition 84, the *Safe Drinking Water, Water Quality, and Supply, Flood Control, River and Coastal Protection Bond Act of 2006* (Public Resources Code (PRC) §75001 – 75090) Proposition 84 provides \$1,000,000,000 (PRC §75026 (a)) for IRWM planning and implementation.

In October, 2008, the legislature approved SBX2 1, which includes the *Integrated Regional Water Management Planning Act* which clarifies the scope and content of IRWM plans and provided funding for both planning and implementation. SBX2 1 specifies that IRWM plans must include the following:

- (1) *Consideration of all of the resource management strategies identified in the California Water Plan, as updated by department Bulletin No. 160-2005 and future updates.*
- (2) *Consideration of objectives in the appropriate basin plan or plans and strategies to meet applicable water quality standards.*
- (3) *Description of the major water-related objectives and conflicts within a region.*
- (4) *Measurable regional objectives and criteria for developing regional project priorities.*
- (5) *An integrated, collaborative, multi-benefit approach to selection and design of projects and programs.*
- (6) *Identification and consideration of the water-related needs of disadvantaged communities in the area within the boundaries of the plan.*
- (7) *Performance measures and monitoring to demonstrate progress toward meeting regional objectives.*
- (8) *A plan for implementation and financing of identified projects and programs.*
- (9) *Consideration of greenhouse gas emissions of identified programs and projects.*

- (10) *Evaluation of the adaptability to climate change of water management systems in the region.*
- (11) *Documentation of data and technical analyses used in the development of the plan.*
- (12) *A process to disseminate data and information related to the development and implementation of the plan.*
- (13) *A process to coordinate water management projects and activities of participating local agencies and local stakeholders to avoid conflicts and take advantage of efficiencies.*
- (14) *Any other matters identified by the department [of water resources].*

2. POTENTIAL PLANNING NEEDS

2.1 Previously Identified Planning Needs

The Greater Los Angeles County Integrated Regional Water Management Plan, adopted December 13, 2006, identified a series of next steps and specific planning needs. The relevant section of the plan (Section 7.10) is attached as Appendix A of this report. The table of “Next Steps” (7-11) identifies various recommendations that would result in progress on plan elements. Some of these recommendations could require additional analysis and coordination, and could therefore be considered as planning needs.

The adopted plan also identifies three specific needs for additional planning, as described below.

2.1.1 Watershed Plans

Substantial portions of the Region are covered by existing or in-progress watershed plans. Preparation of additional watershed plans was suggested for those watersheds not currently covered by a plan, including: Burbank (east and west) Wash, Verdugo Wash, the mainstem of both the Los Angeles and San Gabriel Rivers (although the respective river Master Plans cover the river corridors and some adjacent lands), the Upper Los Angeles River (not covered by the Tujunga Plan and the Headwaters Plan), Los Cerritos Channel, and numerous smaller watersheds that drain directly to Santa Monica Bay and San Pedro Bay. For the watershed plans that have already been completed, implementation is the next step, along with assessment of the impacts and realized benefits. Regular updates of the plans should be undertaken to account for these assessments, as well as changes in local conditions and modifications to the IRWMP regional objectives.

2.1.2 Refinement of Planning Tools

Section 5 (Regional Project Concepts) of the Plan identifies three conceptual Regional Planning Tools (or approaches) which combine various project concepts to meet the established planning targets. Additional planning could refine the Regional Planning Tools into more specific solutions for each Subregion and thereby identify definitive projects which complement the stakeholder-identified projects, respond to local conditions and priorities, and fill the gap in benefits between those generated by the stakeholder-identified projects and the planning targets. As these projects are identified, they could be merged with, or where appropriate, replace some of the projects included in the project database to create a comprehensive project list which would achieve the objectives and planning targets.

2.1.3 Habitat Planning

Habitat issues have traditionally been addressed at different levels, with jurisdictions planning their own boundaries and resource management agencies planning at levels larger than the Region. Although some habitat planning is ongoing, much of this is limited to specific areas (e.g., coastal wetlands or the National Forest), and has yet to address the difficult questions of conservation and preservation of habitat around and within the urbanized portions of the Region. Although some long-term goals have been suggested (e.g., more naturalized stream channels), little work has been done to articulate the precise elements of that vision, or to

define incremental steps that would contribute to that long-term version. To ensure that habitat issues are addressed, the following steps could be taken:

- Develop a long term habitat/open space vision, with a clear scientific basis, and identify steps necessary to proceed with long-term regional planning;
- Define costs/benefits of, and establish targets for, achieving these goals;
- Identify additional studies to fill in gaps needed to complete the regional vision;
- Include assessment of on-going studies to help identify the goals (e.g., Green Visions Plan species mapping report);
- Define functional habitats; and
- Identify targets that help achieve the vision (e.g., removal of fish passage barriers).

2.2 Suggestions from Steering Committees

In recent months, the Steering Committees have considered the issue of planning needs and provided recommendations for additional planning needs that were not included in the adopted plan, or clarify some of the suggestions in the plan. Summaries of those discussions, which are listed below, are included in Appendix B to this report.

2.2.1 North Santa Monica Bay

- Integration of all of the planning needs from each of the existing plans
- BMP benefit analysis
- Trifuno District looking at potential regional cross county recycling programs
- Regional recycled water optimization plan
- Cross-county (LA and Ventura) water supply program
- Riparian protection plan
- Nutrient and salt management program development
- Groundwater water quality assessment
- Water use efficiency program
- Run-off capture and reuse program
- Integrated Water Supply Program, which would include:
 - Local capture of run-off for local reuse that will serve as both a water quality and conservation of supply benefit;
 - Cross-county recycled water use;
 - Regional banking and exchanges;
 - Develop local supply development options; and
 - Examination of the Malibu Creek Watershed Action Plan reviewed to identify additional planning needs

2.2.2 Upper Los Angeles Watersheds

- Public Information
 - Consider expanding activities to engage local planners to coordinate IRWMP planning goals with local plans. This could include meeting with city planners.
- Database Development and Management

- There is a clear need for a more robust and functional project database. Specific needs include development of additional data layers and tools to integrate projects. The database/GIS system should be available through the internet.
 - Specific needed improvements include modifying the database such that the “generic search” printout displays project numbers, project title, sub-region, agency, contact last name, ready for bid, project number.
 - The “ready for bid” field of the database should be modified to include “done” and “in process” and options on the drop-down menu.
 - The database should be modified to include a “sub-watershed” field.
 - The database does not currently require the user to input landowner. Knowledge of this information could be useful in some cases.
 - Project proponents should be able to include linkages to their own projects in the database.
- Mapping
 - Additional mapping, including maps of sub-watersheds within each sub-region, would be beneficial for planning purposes.

2.2.3 Upper San Gabriel and Rio Hondo Watersheds

Immediate Term

- Improved coordination with related programs and planning efforts, which would include:
 - Invite planners from cities and Parks and Recreation staff to participate in the IRWMP process
 - Identify dates for other plans, including General Plans, recycled water system master plans, water quality improvement plans, and open space/habitat plans, and coordinate with these other planning efforts.
 - Improve coordination with two other programs: Statewide Watershed Program and Prop 84 Sustainable Cities Program.
- Refine the online project database to include a mechanism for tracking progress towards plan objectives.
- Improve stakeholder outreach in order to increase participation by local private conservancies, businesses, environmental organizations, agricultural entities, COGs, city managers, engineers, and planners, retail water purveyors, and DACs.

Near Term

- Institutionalize IRWMP goals and objectives into planning department policies throughout the Region. Revisit project integration in order to develop new or revised projects that maximize the achievement of multiple benefits.
- Improve the institutional structure of the IRWMP by forming an industrial advisory committee of businesses in the Region to provide input in the planning process. Determine a long-term structure for the IRWMP, such as a JPA for policy and project prioritization and a nonprofit foundation for fundraising that would allow the Region to apply for and receive tax-deductible contributions and provide grants for projects.
- Work with the State on legislation that would enable an overarching structure for integrated planning on the local level and require coordination between sustainable community plans and IRWMPs. Factor in State direction and mandates for GHG emission reductions into project planning.
- Survey of parks and open space in each sub-region and for characterization of the sub-regional water supply resources and gaps.

- Consider grant application writing opportunities to assist DACs. This region needs a better understanding of the needs of the DACs and how best to meet those needs through the IRWMP.

Long Term

- One or more legal entities should be considered as a structure for continuance of the IRWMP.
- Establishing a region-wide foundation for receiving and granting project funds.

2.2.4 Lower San Gabriel and Los Angeles Watersheds

Coordination with Local Planning Efforts. Need to continue to identify general plans, master plans, water quality improvement plans, etc. Noted it was not necessary to know all plans, but to keep up-to-date and identify missing relevant plans. Look in the short term to identify local and regional plans that are easily coordinated. In the long term look to coordinating CIP plans from cities into the integration process. Also considered what it meant to coordinate plans, whether it was to just make the plans aware of each other or to bring the projects together; there may be a need to develop a matrix to coordinate the existing plans. There also is a need to make sure all the projects in the plans are entered into the database so a project matrix can be accurately developed.

Project Prioritization. Prop 84 project prioritization based on Prop 84 guidelines. The criteria for projects could be to rank the best projects for the region, then the best projects for Prop 84/1E funding. There also needs to be clarity on the separation of implementation and planning funding. Identify local sponsors not eligible for Prop 84 and identify potential integration opportunities.

Additional Planning. Need to focus on major issues that still need to be studied, specifically on fine tuning the plan, what we didn't study, and what do we have to fine tune.

Immediate Term Goals

- Identify other funding sources
- Update IRWMP (not just for Prop 84)
- Partner organization to get other funds (i.e. Annenberg Foundation or an "IRWMP Foundation") that is a private/non-profit to fundraise, establish financial security and fund more projects. Provide an institutional financing structure for long-term implementation.
- Project timelines / schedules
- Data management – analyze existing data
- Total monetary need for region
- Stakeholder outreach to business

2.2.5 South Bay Watersheds

- Water Supply
 - Water supply reliability needs and cost figures for entire South Bay sub-region outside what West Basin has for its service area
 - Water use efficiency program
 - Regional recycled water optimization
 - Model ordinance development for stormwater and gray water reuse - also conservation
- Water Quality
 - Better cost estimate for watershed water quality needs
 - Water quality data for effectiveness monitoring

- Model ordinance development for Low Impact Design (LID)
- Program on how to assist cities in meeting TMDL goal
- Habitat and Recreation Planning
 - Sediment Management Planning for regional water bodies
 - Identification of DAC recreation facilities that need greening improvements
- Flood Protection
 - Determine what will fix local flooding – if there is a common thread
 - Plan to identify replacing existing infrastructure for multiple benefit projects
- Integrated Planning Needs
 - Culling existing plans for needs
 - Integration of existing plans to identify needs for TMDL compliance
 - Scenario Development
- Other Planning Needs
 - Stakeholder Outreach
 - DAC Outreach
 - Implementation
 - IRWM Plan Update

2.3 Planning Needs from New IRWM Requirements

To be consistent with the provisions of SBX2 1, four specific topics will need to be addressed in a future update of the plan and therefore should be considered as future planning needs:

2.3.1 New Resource Management Strategies

The adopted plan was prepared using the list of strategies in Proposition 50, which are generally similar to the resource management strategies identified in the California Water Plan, including the in-progress Update 2009. However, the Pre-Admin Draft of Update 2009 includes several new strategies that would need to be included in the Greater LA Plan, and their applicability to the Greater LA Region described, including:

- Agricultural Lands Stewardship
- Agricultural Water Use Efficiency
- Economic Incentives
- Flood Impact Reduction
- Floodflow Management
- Forest Management
- Matching [Water] Quality to Use
- Precipitation Enhancement
- Salt Management
- System Reoperation

2.3.2 Basin Plan Water Quality Objectives

Although the adopted plan describes water quality concerns and acknowledges (then) current TMDLs, it does not specifically address the water quality objectives in the Basin Plan (prepared by the Los Angeles Regional

Water Quality Control Board). The various strategies to improve water quality currently identified in the plan are already intended to meet applicable water quality standards.

2.3.3 Greenhouse Gas Emissions

The new plan standards require consideration of greenhouse gas emissions of identified programs and projects, although DWR has yet to identify what specifically would be required to address this topic.

2.3.4 Adaptability to Climate Change

The new plan standards require an evaluation of the adaptability of water management systems in the region to the affects of climate change. Although the specific affects of climate change that need to be considered are not specified, changes in the amount, timing, and intensity of precipitation, increases in the frequency and severity of droughts, and a rise in sea level are likely topics. Thus climate change could increase the variability of water supplies, both from local and distant sources, and increase the potential for flooding, both along existing channels and the coastline.

2.4 Other Possible Planning Needs

The Pre-Admin Draft of Update 2009 of the California Water Plan includes draft objectives for various water management initiatives and describes “related action” that are suggestions to implement the draft objectives. The text of Objective #1 (for IRWM planning) is included as Appendix C to this report. The related actions describe several potential planning needs, of which two are described below.

2.4.1 Integrated Flood Management

Integrated flood management is a new theme in Update 2009 of the California Water Plan and SBX2 1 acknowledges the need to improve the integration of flood protection into water resource management planning. The water plan describes integrated flood management as:

“...a process that promotes a comprehensive approach to flood management that considers land and water resources at a watershed scale within the context of Integrated Regional Water Management, which aims to maximize the benefits of floodplains and minimize the loss of life and damage to property from flooding.”

Although DWR has yet to identify specific standards for the improved integration of flood management into IRWM plans, it is anticipated that the pending release of Draft Guidelines for a planning grant will address this concept. DWR previously announced an intention to make planning funds available for the specific purpose of enhancing the flood management component of IRWM plans, but it is currently unclear whether it will make such funds available at this time.

2.4.2 Drought Contingency Planning

The related actions (for Objective #1 of the Water Plan) suggest that in the future, IWRM plans should include a drought contingency plan that: (1) describes how entities within a region can share supplies and infrastructure during droughts and emergencies, and (2) assumes a 20% increase in the frequency and duration of future dry conditions, until more accurate information is available.

3. NEXT STEPS

3.1 Identify High Priority Planning Needs

As noted above, SBX2 1 allocates funds for planning grants and DWR has indicated an intention to expedite the grant application process, although in signing the bill, the Governor noted that the funds won't be

available until March, 2009. In anticipation of the release of grant guidelines, it is suggested that the Leadership Committee identify the highest priorities for future planning needs, which could include:

- Planning Needs identified in the adopted plan:
 - Habitat Planning
 - Refinement of Planning Tools
- Suggestions from the Steering Committees. Although considerable variation has been identified by the Steering Committees, several common themes have emerged:
 - Refinement of Project Database
 - Enhanced coordination with local planning
 - Expanded outreach efforts
- New plan requirements per SBX2 1:
 - Add new Resource Management Strategies
 - Address the Water Quality Objectives in the Basin Plan
 - Consider Greenhouse Gas Emissions
 - Enhance the adaptability of IRMWP proposals to Climate Change
- Additional topics identified in Update 2009 of the California Water Plan;
 - Enhance Flood Management elements
 - Develop a drought contingency plan

The list of high-priority planning needs will be used to initiate development of a planning grant application, which will need to consider the (as-yet) unreleased planning grant guidelines. The consultant team will more fully develop a description of each potential planning need and estimate the costs for each effort. This information would inform development of a draft planning grant application, which would result in adoption of an updated plan.

APPENDIX A

IRWMP Plan Next Steps

Table 7-11 . Summary of Potential IRWMP Next Steps				
Implementation Element	Implementation Objectives	Suggested Implementation Phase		
		Immediate Term	Mid Term	Long Term
Coordination with Local Plans and Programs	<ul style="list-style-type: none"> • Demonstrate a high degree of coordination with local planning efforts. • Be consistent with locally expressed goals. • Utilize the results of local planning where possible. 	<ul style="list-style-type: none"> • Identify additional future planning efforts and when results are expected. • Determine dates for General Plan updates. • Increase interagency communication and coordination where plans, studies and implementation projects overlap jurisdictions. 	<ul style="list-style-type: none"> • Establish coordination and communication procedures with ongoing local planning efforts. • Establish quantifiable Subregional goals/targets. • Create project “clearing house” to allow rapid identification of planned projects throughout the Region to avoid duplication and create opportunities for partnering. 	<ul style="list-style-type: none"> • Integrate IRWMP into General Plan and UWMP updates. • Update IRWMP with updated Subregional goals. • Consider ordinances that require water savings devices or penalize water waste generation. • Expand incentives for conservation. • Consider assessing fines for runoff and providing public recognition for water conservation. • Evaluate changing the Covenants, Conditions and Restrictions (CCR) in many homeowners associations that restrict the ability to utilize native or water friendly landscaping. • Reassess grey water reuse opportunities.
Institutional Structure	<ul style="list-style-type: none"> • Achieve representation of all agencies and organizations necessary to ensure successful IRWMP execution. • Identify agency(ies) responsible for project implementation. 	<ul style="list-style-type: none"> • Agree on structure and mechanism for future IRWMP governance. • Representation, roles and responsibilities. • Decision making procedure. 	<ul style="list-style-type: none"> • Form JPAs where appropriate. • Form partnerships for combined development and implementation of projects with mutual benefits. • Examine current LC Structure. 	<ul style="list-style-type: none"> • Utilize adaptive management to determine appropriate institutional structures on a project or issue specific basis.

Table 7-11 . Summary of Potential IRWMP Next Steps				
Implementation Element	Implementation Objectives	Suggested Implementation Phase		
		Immediate Term	Mid Term	Long Term
Coordination with State and Federal Agencies	<ul style="list-style-type: none"> • Achieve coordination with appropriate state and federal agencies. • Identify areas where state or federal agencies may be able to assist in communication or cooperation or funding. • Determine where state or federal agencies can assist in implementation of plan activities, components or processes. 	<ul style="list-style-type: none"> • Identify further opportunities for coordination with state and federal agencies. 	<ul style="list-style-type: none"> • Develop future projects with state and federal partners where mutually beneficial. • Pursue funding available through state and federal programs. 	<ul style="list-style-type: none"> • Determine how state and federal agencies will influence long term project concepts. • Identify need for state or federal approval or assistance on existing projects.
Schedule	<ul style="list-style-type: none"> • Determine timelines for active or planned projects. • Ensure that IRWMP implementation schedule is coordinated with schedules for other water management activities in the Region and in the Subregions. 	<ul style="list-style-type: none"> • Identify additional Regional or Subregional schedules or deadlines. • Determine periodic IRWMP “reopener” periods that will allow for comprehensive updates of stakeholders, projects and implementation plans. • Establish Subregional funding priorities. 	<ul style="list-style-type: none"> • Select projects that will help meet upcoming regulatory deadlines. • Select projects that are ready to proceed and are high priority. 	<ul style="list-style-type: none"> • Determine the optimal combination of projects to meet long range deadlines. • Monitor/update project schedules and continue to identify needs and opportunities.
Financing	<ul style="list-style-type: none"> • Identify funding for plan implementation. • Determine opportunities for ongoing financing for O&M and maintenance of projects. 	<ul style="list-style-type: none"> • Provide information on local potential funding measures (fees, assessments etc.). • Compile list of current grants being pursued. 	<ul style="list-style-type: none"> • Develop detailed estimates of capital and O&M costs for existing projects. • Track all potential funding opportunities. • Develop innovative, multi-benefit projects to maximize opportunities for competitive funding. • Pursue special earmarks for specific projects. 	<ul style="list-style-type: none"> • Determine the most cost effective combination of projects that can achieve Subregional objectives.

Table 7-11 . Summary of Potential IRWMP Next Steps				
Implementation Element	Implementation Objectives	Suggested Implementation Phase		
		Immediate Term	Mid Term	Long Term
Data Management	<ul style="list-style-type: none"> Identify methods for efficient collection and dissemination of data. Identify data gaps. Determine how data collection will support statewide data needs. Identify obstacles to sharing data between agencies and determine methods to remove them. 	<ul style="list-style-type: none"> Document known gaps in data. Identify data overlaps. Suggest opportunities for improved data sets. Develop a data management collection and dissemination system for the Subregion. Identify lead entity or entities to collect and manage data 	<ul style="list-style-type: none"> Utilize data to guide development of existing and future projects. Develop project monitoring plans that can also fill data gaps, if possible. 	<ul style="list-style-type: none"> Identify long term trends for the Region and Subregion Maintain data and continue to collect information.
Performance Measures	<ul style="list-style-type: none"> Determine the appropriate measures to monitor for Regional and Subregional performance. Provide mechanisms for adapting project operation in response to performance data. Discuss results in an integrated fashion. 	<ul style="list-style-type: none"> Determine what performance measures are important for targets. Determine what performance measures are appropriate for existing projects. Identify potential project modifications in response to collected data. 	<ul style="list-style-type: none"> Measure performance of all benefits of multi-objective projects. 	<ul style="list-style-type: none"> Develop Regional and Subregional monitoring system. Identify opportunities for coordinated Subregional responses to performance data.
Stakeholder Outreach	<ul style="list-style-type: none"> Maintain contact and increase coordination with current participants. Expand participation and increase project submission all cities and unincorporated areas. Increase participation of Disadvantaged Communities. 	<ul style="list-style-type: none"> Continue outreach to all identified stakeholders on plan finalization and adoption. 	<ul style="list-style-type: none"> Create compelling case statement of benefits of participating in ongoing IRWMP process. Continue outreach and briefings to key stakeholders that are not participating. Intensify outreach to Councils of Government, watershed stakeholder groups, and other groups involved in area planning efforts. 	<ul style="list-style-type: none"> Continue to address barriers to participation including lack of resources; lack of information on how to engage, and language barriers.

APPENDIX B

Planning Needs Identified by Steering Committees

Memorandum



Greater Los Angeles County IRWMP

Subject: Planning Needs for North Santa Monica Bay and South Bay (Revised)
Prepared For: Mark Horne, PBS&J
Prepared by: Persephene St. Charles, RMC Water and Environment
Date: October 9, 2008

The purpose of this memorandum is to provide a listing of planning needs developed to date based on Steering Committee discussions held with the North Santa Monica Bay and South Bay sub-regions in August and September 2008 as well as any additional comments received by South Bay Steering Committee attendees at their October 7, 2008 meeting.

4. SOUTH BAY SUB-REGION

The South Bay Steering Committee discussed the following regarding planning needs at the September 9, 2008 meeting:

- The goals in the IRWMP should be looked at to determine what has been accomplished and see how much work each sub-region needs in each area.
- Projects in the IRWMP database should be examined to determine whether they will bring the sub-region towards its goals.
- Planning documents relevant to the sub-region should be looked at to find goals which have not been met. The lead entity of each planning document should be contacted for current needs. Examples of these documents include:
 - City of Los Angeles IRP & Water Quality Compliance Master Plan
 - LA Water Quality Compliance Master Plan
 - Santa Monica Bay Restoration Commission Plan Update
 - Dominguez Watershed Master Plan
 - Ballona Creek Master Plan

Potential planning needs include for the South Bay Sub-region include:

Planning Need	IRWM Plan Update Solution
<u>Water Supply</u>	
Water supply reliability needs and cost figures for entire South Bay sub-region outside what West Basin has for its service area	Develop subregional Water Supply targets and roll up to revise regional target
Water use efficiency program	Develop Regional WUE Program
Regional recycled water optimization	Develop Regional RW Water Supply and Demand Database

Planning Need	IRWM Plan Update Solution
Model ordinance development for stormwater and gray water reuse - also conservation	Will aid cities in meeting targets outlined in plan
<u>Water Quality</u>	
Better cost estimate for watershed water quality needs	Develop cost estimating process for watershed water quality programs – compare green solutions to estimates
Water quality data for effectiveness monitoring	Regional water quality monitoring program
Model ordinance development for Low Impact Design (LID)	Helping agencies with planning to meet targets as opposed to implementation
Program on how to assist cities in meeting TMDL goal	Helping to find ways to meet targets and supplement project database
<u>Habitat and Recreation Planning</u>	
Sediment Management Planning for regional water bodies	Determine where projects are needed to meet targets
Identification of DAC recreation facilities that need greening improvements	RW facilities plan for DAC recreation areas
<u>Flood Protection</u>	
Determine what will fix local flooding – if there is a common thread	DAC and Local agency flood planning program to identify flood control objectives for plan
Plan to identify replacing existing infrastructure for multiple benefit projects	Will allow integrated solutions to flood control to be identified
<u>Integrated Planning Needs</u>	
Culling existing plans for needs	Develop and maintain an inventory and database of existing plan and needs
Integration of existing plans to identify needs for TMDL compliance	Develop sub-committee to look at database to determine potential planning integration opportunities
Scenario Development	Develop regional reliability plan based on climate and socioeconomic potentials
<u>Other Planning Needs</u>	
Stakeholder Outreach	Keep plan updated and progress monitored by continuing regular SC and LC meetings
DAC Outreach	Implement year 2 of DAC outreach plan
Implementation	Create and maintain database that quantifies accomplishments under each target
IRWM Plan Update	5 year cycle with interim annual updates

5. NORTH SANTA MONICA BAY SUB-REGION

The North Santa Monica Bay Steering Committee discussed the following planning needs at the September 16, 2008 meeting:

- Integration of all of the planning needs from each of the existing plans
- BMP benefit analysis
- Trifuno District looking at potential regional cross county recycling programs
- Regional recycled water optimization plan
- Cross-county (LA and Ventura) water supply program
- Riparian protection plan
- Nutrient and salt management program development
- Groundwater water quality assessment
- Water use efficiency program
- Run-off capture and reuse program
- The group then discussed how many of the planning needs above are interrelated and proposed the need for a larger umbrella planning program that could be called “Integrated Water Supply Program” - the main tenant being to offset imported supplies and increase water quality through better utilization of local resources. Elements of this program would involve the following:
 - Local capture of run-off for local reuse that will serve as both a water quality and conservation of supply benefit
 - Cross-county recycled water use
 - Regional banking and exchanges
 - Develop local supply development options
 - Examination of the Malibu Creek Watershed Action Plan reviewed to identify additional planning needs



Date: October 6, 2008
To: Mark Horne
Copy:
From: Ed Means
Re: Upper Los Angeles River Steering Committee Planning Needs

The Upper Los Angeles River Steering Committee (SC) has identified the following planning needs for possible inclusion in a planning grant application:

Public Information

The ULARA Steering Committee has identified a near term planning grant need associated with public information. Under a public information planning grant, the Region would consider expanding activities to engage local planners to coordinate IRWMP planning goals with local plans. This could include meeting with city planners.

Database development and management

- There is a clear need for a more robust and functional project database. Specific needs include development of additional data layers and tools to integrate projects. The database/GIS system should be available through the internet.
- Specific needed improvements include modifying the database such that the “generic search” printout displays project numbers, project title, sub-region, agency, contact last name, ready for bid, project number.
- The “ready for bid” field of the database should be modified to include “done” and “in process” and options on the drop-down menu.
- The database should be modified to include a “sub-watershed” field.
- The database does not currently require the user to input landowner. Knowledge of this information could be useful in some cases.
- Project proponents should be able to include linkages to their own projects in the database.

Mapping

The Steering Committee concluded that additional mapping, including maps of sub-watersheds within each sub-region, would be beneficial for planning purposes.



Date: October 6, 2008
To: Mark Horne
Copy:
From: Ed Means
Re: Upper San Gabriel River and Rio Hondo Steering Committee Planning Needs

The USGR&RH Steering Committee (SC) has identified the following planning needs for possible inclusion in a planning grant application:

Immediate Term

In the immediate term, the SC would like improved coordination with related programs and planning efforts. Specific activities that were identified to achieve this goal include:

- Invite planners from cities and Parks and Recreation staff to participate in the IRWMP process
- Identify dates for other plans, including General Plans, recycled water system master plans, water quality improvement plans, and open space/habitat plans, and coordinate with these other planning efforts.
- Improve coordination with two other programs: Statewide Watershed Program and Prop 84 Sustainable Cities Program.

The SC would also like the online project database to be refined to include a mechanism for tracking progress towards plan objectives.

Additionally, the SC would like to improve stakeholder outreach in order to increase participation by local private conservancies, businesses, environmental organizations, agricultural entities, COGs, city managers/engineers/planners, retail water purveyors, and DACs.

Near Term

In the near term, the SC would like IRWMP goals and objectives to be institutionalized into planning department policies throughout the Region. The SC would also like to revisit project integration in order to develop new or revised projects that maximize the achievement of multiple benefits.

The SC would like to improve the institutional structure of the IRWMP by forming an industrial advisory committee of businesses in the Region to provide input in the planning process. The SC would also like to determine a long-term structure for the IRWMP, such as a JPA for policy and

project prioritization and a nonprofit foundation for fundraising that would allow the Region to apply for and receive tax-deductible contributions and provide grants for projects.

The SC would like to work with the State on legislation that would enable an overarching structure for integrated planning on the local level and require coordination between sustainable community plans and IRWMPs. The SC would also like to factor State direction and mandates for GHG emission reductions into project planning.

The SC also sees a near-term need for a survey of parks and open space in each sub-region and for characterization of the sub-regional water supply resources and gaps.

For DACs, the SC would like to consider grant application writing opportunities to assist DACs. This region needs a better understanding of the needs of the DACs and how best to meet those needs through the IRWMP.

Long Term

The SC would like one or more legal entities considered as a structure for continuance of the IRWMP. The SC also envisions establishing a region-wide foundation for receiving and granting project funds.

Lower San Gabriel and Los Angeles Rivers Steering Committee Planning Grant Needs

Coordination with Local Planning Efforts

Need to continue to identify general plans, master plans, water quality improvement plans, etc. Noted it was not necessary to know all plans, but to keep up-to-date and identify missing relevant plans. Look in the short term to identify local and regional plans that are easily coordinated. In the long term look to coordinating CIP plans from cities into the integration process. Also considered what it meant to coordinate plans, whether it was to just make the plans aware of each other or to bring the projects together; there may be a need to develop a matrix to coordinate the existing plans. There also is a need to make sure all the projects in the plans are entered into the database so a project matrix can be accurately developed.

Project Prioritization

Prop 84 project prioritization based on Prop 84 guidelines. The criteria for projects could be to rank the best projects for the region, then the best projects for Prop 84/1E funding. There also needs to be clarity on the separation of implementation and planning funding. Identify local sponsors not eligible for Prop 84 and identify potential integration opportunities.

Additional Planning

Need to focus on major issues that still need to be studied, specifically on fine tuning the plan, what we didn't study, and what do we have to fine tune.

Immediate Term Goals

- Identify other funding sources
- Update IRWMP (not just for Prop 84)
- Partner organization to get other funds (i.e. Annenberg Foundation or an "IRWMP Foundation") that is a private/non-profit to fundraise, establish financial security and fund more projects. Provide an institutional financing structure for long-term implementation.
- Project timelines / schedules
- Data management – analyze existing data
- Total monetary need for region
- Stakeholder outreach to business

APPENDIX C

California Water Plan Update 2009
Volume 1 Strategic Plan

Pre-Administrative Draft

Ch 7 Implementation Plan

Objective 1 - Promote, improve, and expand Integrated Regional Water Management to build regional partnerships that have a central role in California water resources planning, sustainable watershed and floodplain management, and increasing regional self-sufficiency.

Integrated Regional Water Management (IRWM) planning offers a framework for water managers to address the myriad water-related challenges and provide for future needs. Over the past decade, California has improved its understanding of the value of regional planning and made significant steps in implementing IRWM. IRWM is a portfolio approach for determining the appropriate mix of water demand and supply management options and water quality actions. The goal is to provide long-term, reliable water supplies for all users at lowest reasonable cost and with highest possible benefits for economic development, environmental quality, and other societal objectives. Moreover, if appropriately developed and implemented, IRWM plans—in combination with other regional and watershed planning efforts for land use and transportation—can serve as the basis for broader community and regional plans for adapting to climate change impacts and increasing regional self-sufficiency.

California lies within multiple climate zones, therefore each region of the state will experience unique impacts from climate change. For some regions, improving watershed health will be the chief concern. Other areas will be affected by saltwater intrusion. In particular, regions that depend heavily upon water imports will need strategies to cope with greater uncertainty in supply. Because economic and environmental effects depend on location, adaptation strategies need to be regionally appropriate and preferably at a watershed scale.

Related Actions:

1. State government should encourage—through both financial and technical assistance—IRWM planning and implementation throughout California with greater emphasis on adapting to a changing climate and drought and flood contingency planning.
 - State government should promote and provide incentives to regional partnerships to move towards water and flood planning at a watershed-scale and to prepare their IRWM plans using watershed and groundwater basin boundaries.
 - State government should closely coordinate the IRWM Program and State Watershed Program to prevent duplication, leverage resources, and provide clear and consistent guidance to stakeholders.
2. IRWM plans must include strategies for meeting the following objectives and issues and the plan elements listed in the box below:
 - 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 the relevant basin plan.
 - Identification of significant threats to groundwater resources and feasible strategies to avoid and reverse 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 the water-related needs of disadvantaged communities in the area within the boundaries of the plan.
 - Description of major water-related goals, objectives, challenges, and conflicts in a region.
 - Measurable regional objectives and criteria for developing regional project priorities.
 - Consideration of objectives in the appropriate basin plan or plans and strategies to meet applicable water quality standards.
 - Evaluation of vulnerability and adaptability of water management systems in the region to climate change.
 - A *facilitation plan* describing an integrated, collaborative, multi-benefit approach and public process for the identification, selection, and design of projects and programs.
 - Consideration of all resource management strategies identified in the California Water Plan, as described in Update 2005 (Bulletin 160-2005) and future updates.
 - Consideration of greenhouse gas emissions of identified programs and projects.
 - A *communication plan* with strategies to disseminate data and information about the development and implementation of the plan.
 - An *implementation and financing plan* for identified projects and programs including a process to coordinate water management projects and activities of participating local agencies and local stakeholders to avoid conflicts and take advantage of efficiencies.
 - A *monitoring plan* with performance measures to demonstrate progress toward meeting regional objectives.
 - Publicly-accessible documentation of data, methods, and technical analyses used in developing the IRWM plan.
3. By 2011, all IRWM plans should include the following elements to help the region adapt to a changing climate:
- An assessment of the region's vulnerability to the long-term increased risk and uncertainty associated with climate change.
 - Strategies for substantial water conservation and higher use efficiency (see Objective 2).
 - Conjunctive water management strategies (see Objective 3)
 - An *integrated flood management plan* (see Objective 6).
 - A *drought contingency plan* that: (1) describes how entities within a region can share supplies and infrastructure during droughts and emergencies, and (2) assumes a 20% increase in the frequency and duration of future dry conditions, until more accurate information is available (see Objective 8).
 - Strategies for improving coordination with land use policies and planning that:
 - Help restore natural processes in watersheds to increase infiltration, slow runoff, improve water quality, and augment the natural storage of water (see Objectives 5);
 - Encourage Low Impact Development that reduces water demand and increases water supply reliability (see Objective 2).

Note: the complete document is available at:

[http://www.waterplan.water.ca.gov/docs/cwpu2009/0908pre-admin/vol1/1-7_Implement_PreAdmin_\(09-13-08\)%20CLEAN.doc](http://www.waterplan.water.ca.gov/docs/cwpu2009/0908pre-admin/vol1/1-7_Implement_PreAdmin_(09-13-08)%20CLEAN.doc)