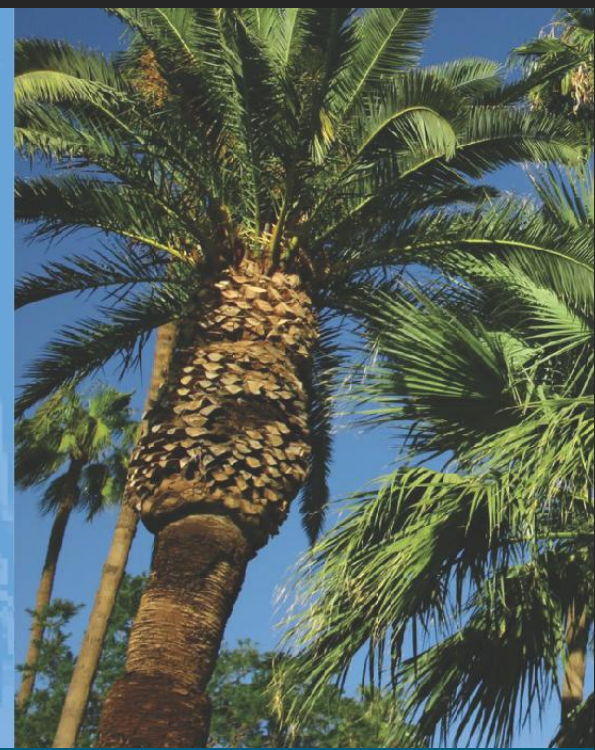


Los Angeles Gateway Region
Integrated Water Management Joint Powers Authority



Development of the Integrated Regional Water Management Plan

May 1, 2013





Public Meeting Agenda

1. Introductions
2. What is an IRWMP?
3. Stakeholders and Participants
4. Community Outreach Plan
5. Plan Development Overview
6. IRWMP Goals and Objectives
7. Projects Solicitation/Ranking
8. On Line Data Base: Map Viewer
9. Public Review Draft IRWMP
10. Next Steps
11. Questions



What is a IRWMP?

- Integrated Regional Water Management (IRWM) is a **collaborative effort to manage** all aspects of **water resources in a region**. IRWM crosses jurisdictional, watershed, and political boundaries; involves multiple agencies, stakeholders, individuals, and groups; and attempts to **address the issues** and differing perspectives of all the entities involved **through mutually beneficial solutions**.
- A plan for future water management in a region that includes a list of integrated projects



What is a IRWMP?

It's a significant document that :

- **Describes the region** and its water management
- **Reviews water issues**
- Puts forward **strategies** to deal with those issues
- **Suggests actions and projects** that carry out those strategies
- **Prioritizes and integrates** those projects
- Provides a **path to carry out those projects**
- **Monitors the progress** of its actions



Integration











Projects and planning effort:

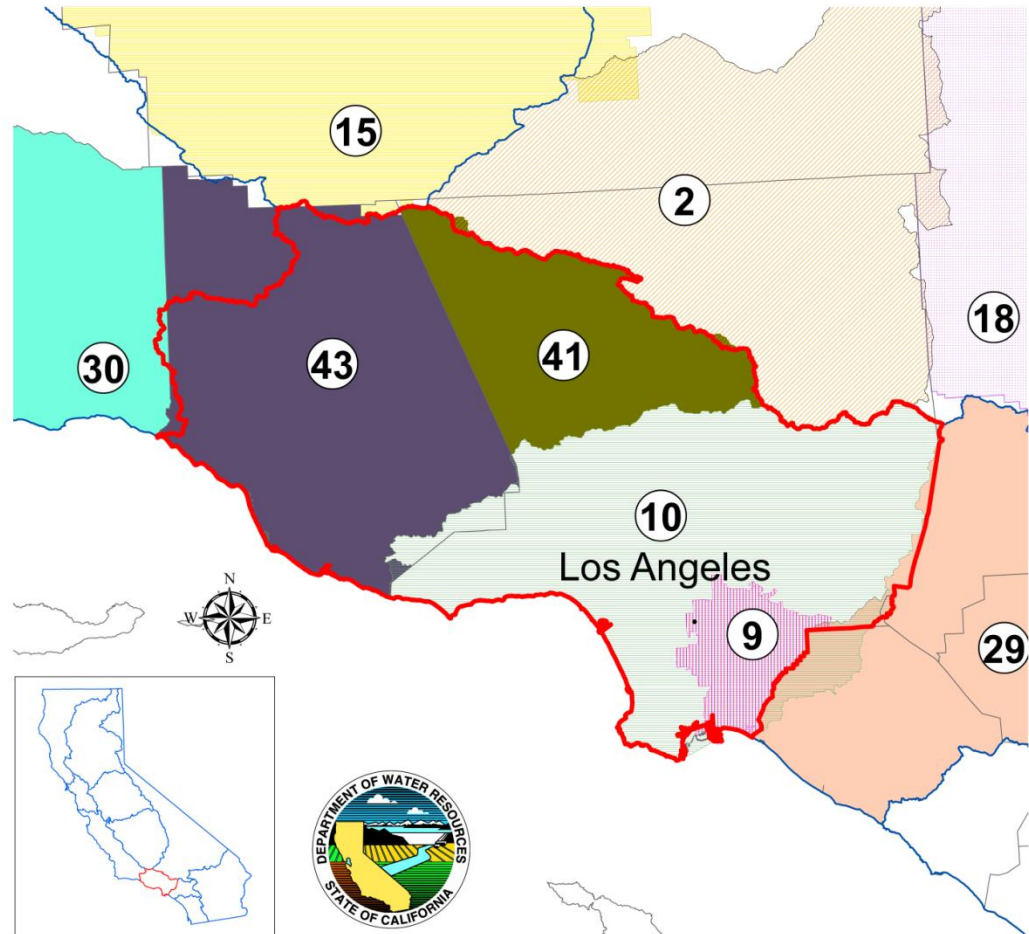
- Compatible
- Complementary
- Multiple and increased benefits for projects

Integration with Neighbors

PROPOSITION 84
Integrated Regional Water Management Program
IRWM Regions
Los Angeles Sub-Region Funding Area

Legend

	Los Angeles Sub-Region Funding Area		(15) Kern County
	Prop 84 Funding Area Regions		(18) Mojave
	County Boundaries		(29) Santa Ana Watershed Project Authority
	(2) Antelope Valley		(30) Santa Barbara Countywide
	(9) Gateway Region		(41) Upper Santa Clara River
	(10) Greater Los Angeles County		(43) Watersheds Coalition of Ventura County



Notes:

- 1) Numbers shown are for reference purposes only and correspond to internal DWR RAP submittal identifications.
 - 2) Region boundaries shown are those submitted by each applicant as part of the RAP submittal.
- RAP 2009 = ID No's 1 - 48
- RAP 2011 = ID No's 47 - 49

0 10 20 Miles



DWR Requirements

- Guidelines
 - General Items an IRWMP needs to address
 - Climate change
 - Flood and storm water management
 - Outreach to Disadvantaged Communities
 - Integration with Land Use planning
 - Governance of IRWMP



Why an IRWMP?

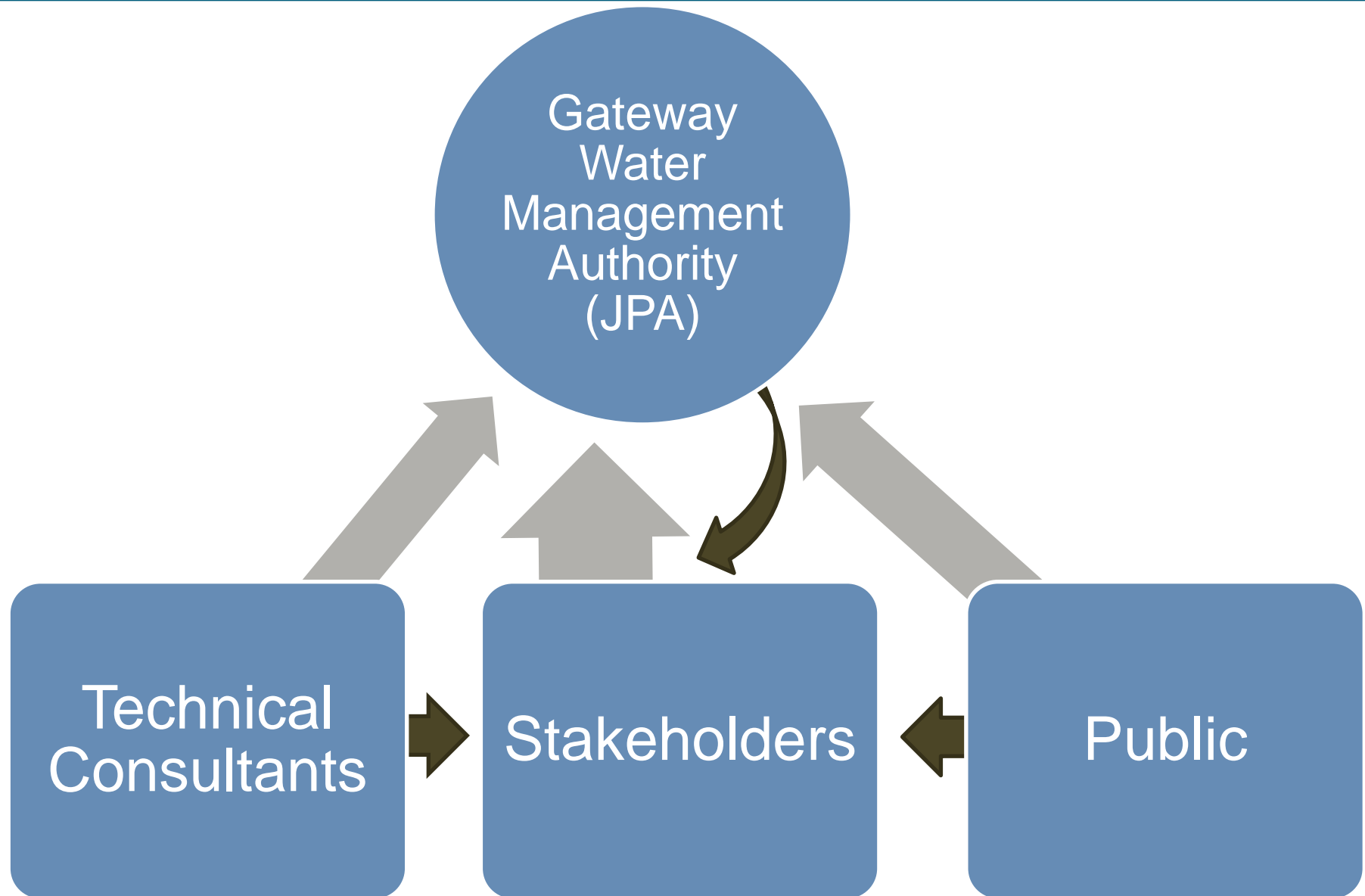
- “Good” Regional planning
- Consolidated and inclusive water planning effort
- Eligible for
 - Planning Grants
 - Implementation Grants
 - Other State funding in the future

Proposition 50 – Nov 2002 - \$500 million

Proposition 84 – Nov 2006 – \$1 billion

Proposition 1E – Nov 2006 - \$300 million

Information Flow and Decision Making






Schedule

Started 1/2012

Finish with adopted plan 6/2013

Month #	Kickoff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Mo/Yr	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	
1 - Continued Formulation of JPA																			
Continue Formulation of JPA																			
2 - Public Involvement Process and Meetings																			
Initial Public Meeting																			
Develop Stakeholder List and Involvement Plan																			
Public Meeting on Draft IRWMP																			
Monthly and Special JPA Meetings																			
3 - Solicit and Hire Consultant																			
Solicit Consultant to Prepare IRWMP																			
Select Consultant to Prepare and Complete IRWMP																			
4 - Consultant Prepares Draft IRWMP																			
Refine and Enhance Planning Objectives for IRWMP																			
Develop Water Budget																			
Compile and Analyze Storm Water Runoff Information																			
Compile Existing Water Quality Information																			
Develop Integrated Management Strategies for Region																			
Develop Projects to Address Strategies																			
Project Feasibility and Other Factors Review																			
Integration Review																			
Environmental Justice review																			
Climate Change Vulnerability and Mitigation Review																			
DAC Issues Review																			
Conduct Project Prioritization and Review Process																			
Develop IRWMP Implementation Component and Financial Plan																			
Determine Impacts and Benefits																			
Review Groundwater Monitoring Program																			
Develop Data Management Methods																			
Develop Plan Monitoring																			
5 - Draft IRWMP for JPA																			
Prepare Administrative Draft IRWMP																			
Review of Administrative Draft by Participating Agencies - JPA																			
JPA Review and Approval of Administrative Draft IRWMP																			
Approval by JPA for Public Release of IRWMP																			
6 - Draft IRWMP for Public Review																			
Prepare Public Draft of IRWMP																			
Public review period for Draft IRWMP																			
Review and Incorporate Public Comments into IRWMP																			
7 - Prepare Final IRWMP																			
Consultant Prepare Final IRWMP																			
Adoption of IRWMP by Participating Agencies Governing Boards																			
Final IRWMP submitted to DWR																			
Prepare hard and soft copies of IRWMP																			
8 - Project Administration and Management																			
Contract Administration																			
Project Management																			
Project Reporting (Progress reports and Final Report)																			

M Meeting	P-D Public Draft	 - Extended Task Duration as of 8/12	 - Change in schedule
P Progress Report	A Adopted	 - Changed Task schedule or duration as of 3/13	
A-D Administrative Draft	F Final		



Stakeholders and Stakeholder Outreach

- **Cities**
- **Water Companies:**
 - Golden State Water Company
 - San Gabriel Water Company
 - California Domestic Water Company
 - Suburban Water System
 - Park Water Company
 - Bellflower-Somerset Mutual Water Company
 - Maywood Mutual #1, #2, #3
 - Pico Water District
 - Orchard Dale Water District
- **Water Wholesalers:**
 - Metropolitan Water District of Southern California (MWD)
 - Water Replenishment District of Southern California (WRD)
 - Central Basin Municipal Water District (CBMWD) (on JPA)



Stakeholders and Stakeholder Outreach

- **Environmental advocates:**
 - Amigos de Los Rios
 - Heal the Bay
 - Sierra Club
 - Friends of the Los Angeles River
 - Friends of the San Gabriel River

- **Watershed organizations:**
 - National Water Resources Association
 - Council for Watershed Health *
 - Urban Water Institute
 - Southern California Water Committee
 - Center for Watershed Protection



Stakeholders and Stakeholder Outreach

- **Watershed organizations (cont.):**
 - Southern California Association of Governments [SCAG],
 - Los Angeles County Flood Control District
 - Los Angeles County Sanitation Districts *
 - Santa Fe Springs Community Development Commission
 - Port of Long Beach
 - County of Los Angeles
 - Southern California Edison (SCE)
 - Industry Council



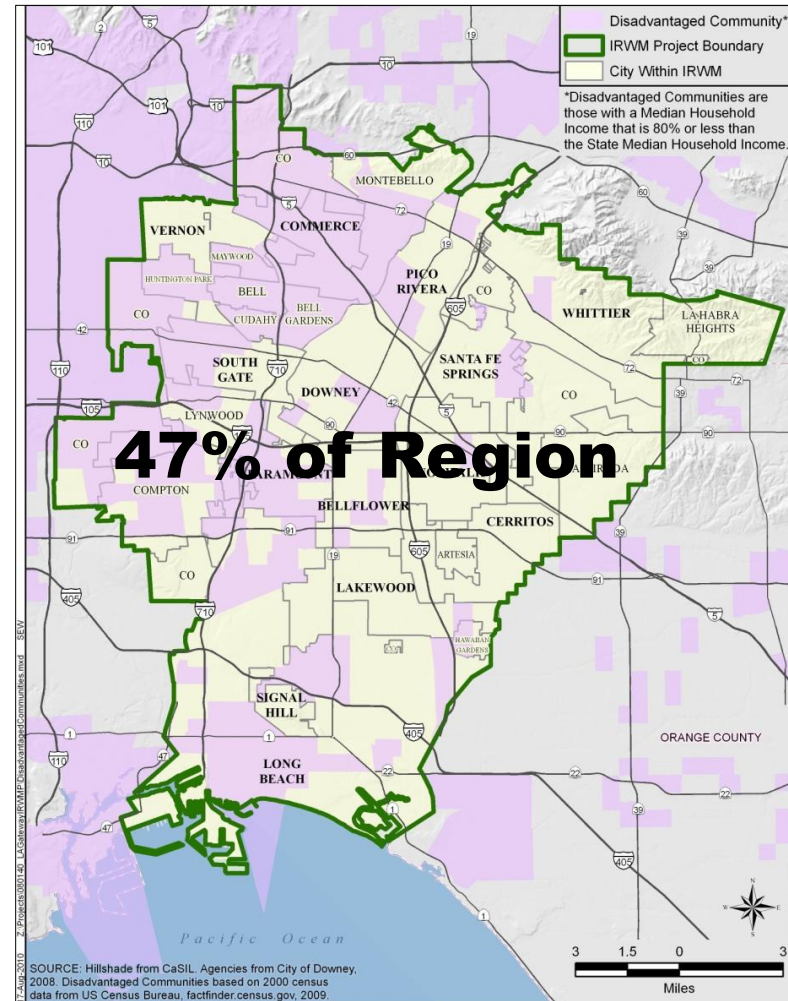
Stakeholders and Stakeholder Outreach

- **Tribal Organizations:**
 - Gabrieleno/Tongva Tribe

- **State and Federal Stakeholders:**
 - California Department of Water Resources (DWR)
 - Los Angeles Regional Water Quality Control Board (LARWQCB)
 - San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy (RMC)
 - California Department of Fish and Game (DFG)
 - California Department of Transportation - CalTrans
 - U.S. Fish and Wildlife Service (USFWS)
 - U.S. Army Corps of Engineers (USACE)
 - U.S. Bureau of Reclamation (USBR)

Disadvantaged Community Outreach

- Involve the diverse community of the region
- Engage stakeholders in the communities



Community Outreach Plan

- Completed by SGA
- Adopted by GWMA

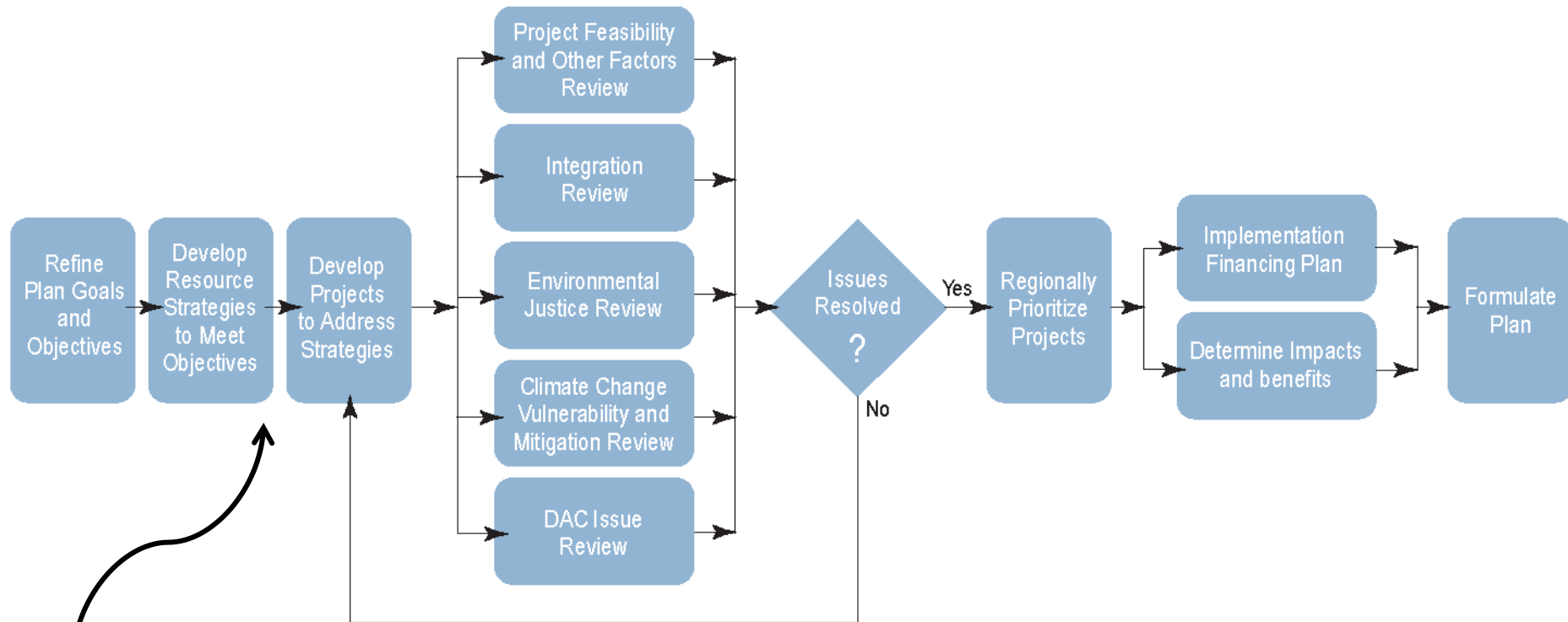


Public Meetings

- **Initial public meeting** (2/29/12)
 - IRWMP process
 - How to participate
 - Initial look at issues
- **Stakeholder meetings**
 - Open to the public
 - Coordinated with Gateway Authority meetings
 - Time for public comments
- **Public Draft meeting**
 - Present Draft Report
 - Collect comments



IRWMP Development Process:

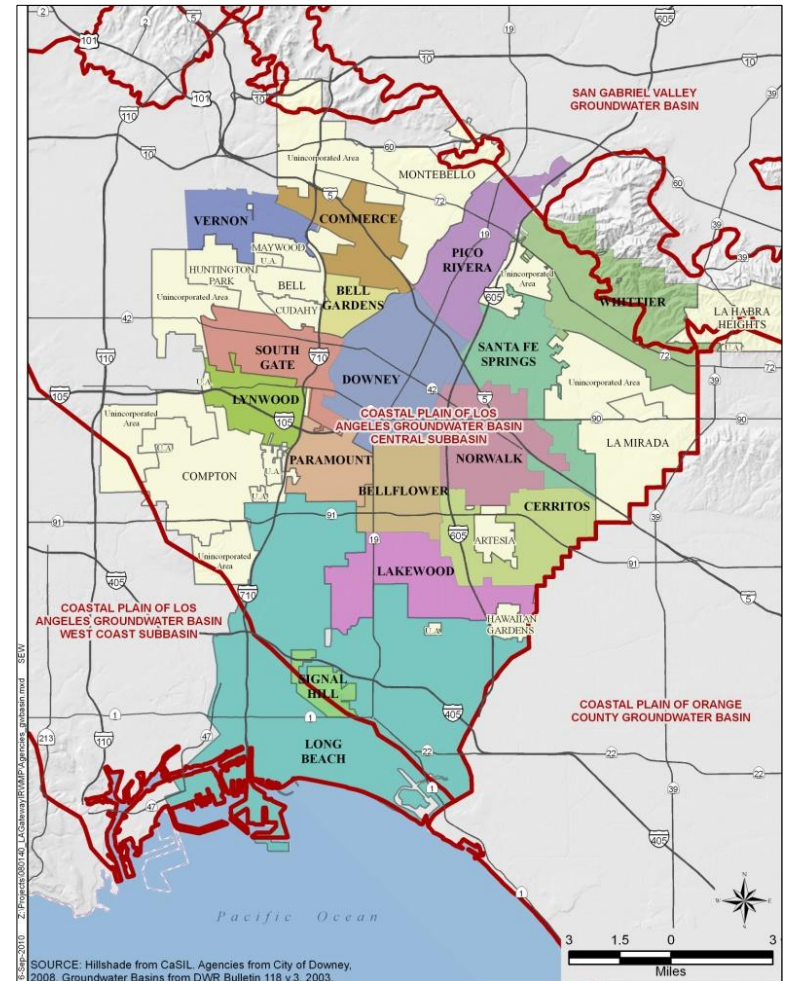


Data Gathering:

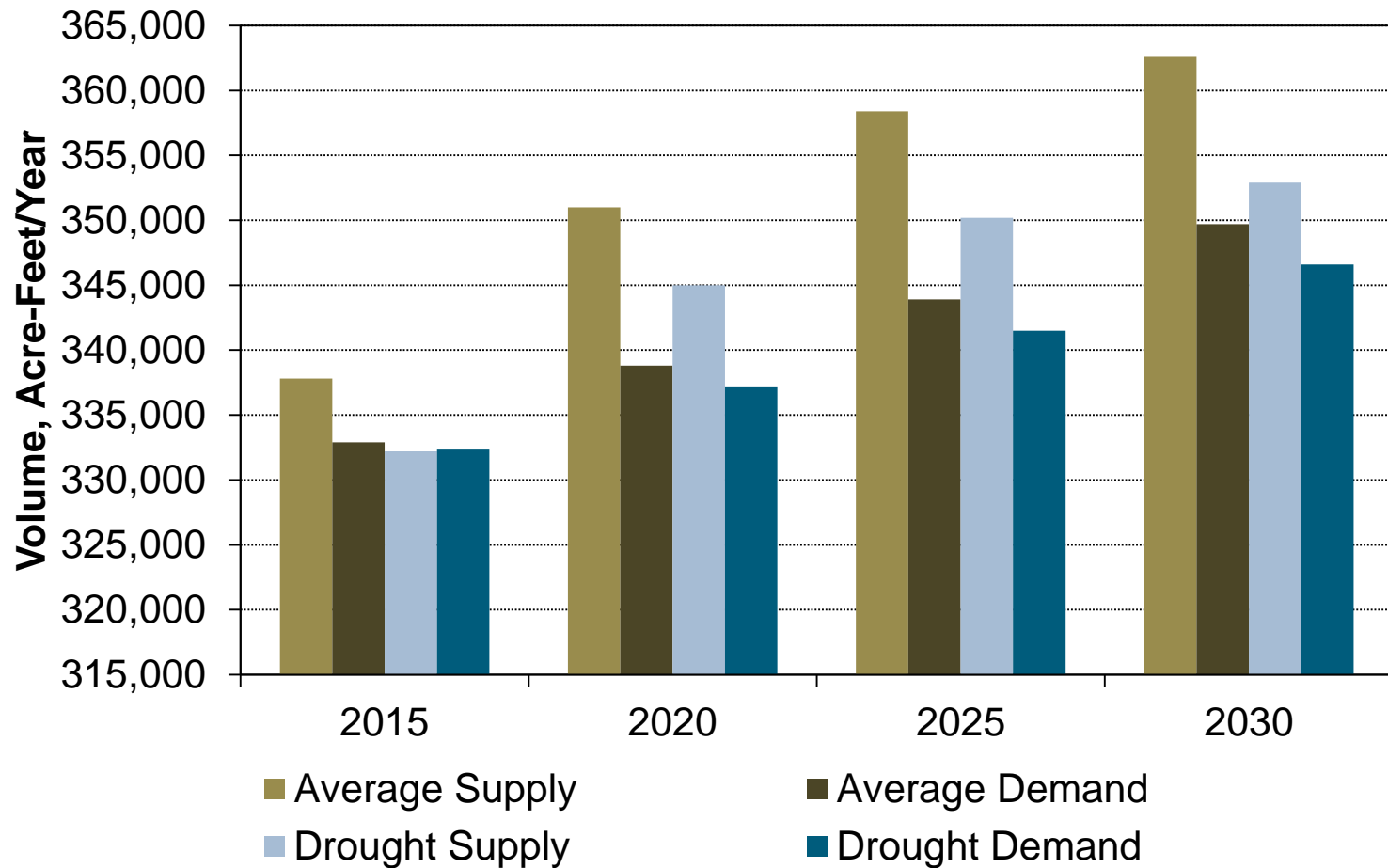
- Water Supply/Demand
- Storm water Issues
- Water quality data
- Review groundwater monitoring

IRWMP Development Process: Data Collection

- Water supply and demand
- Stormwater and flooding
- Water quality
- Review groundwater monitoring program



Water Balance: Supply/Demand – Average/Drought



Storm Water : Flooding Priority Areas

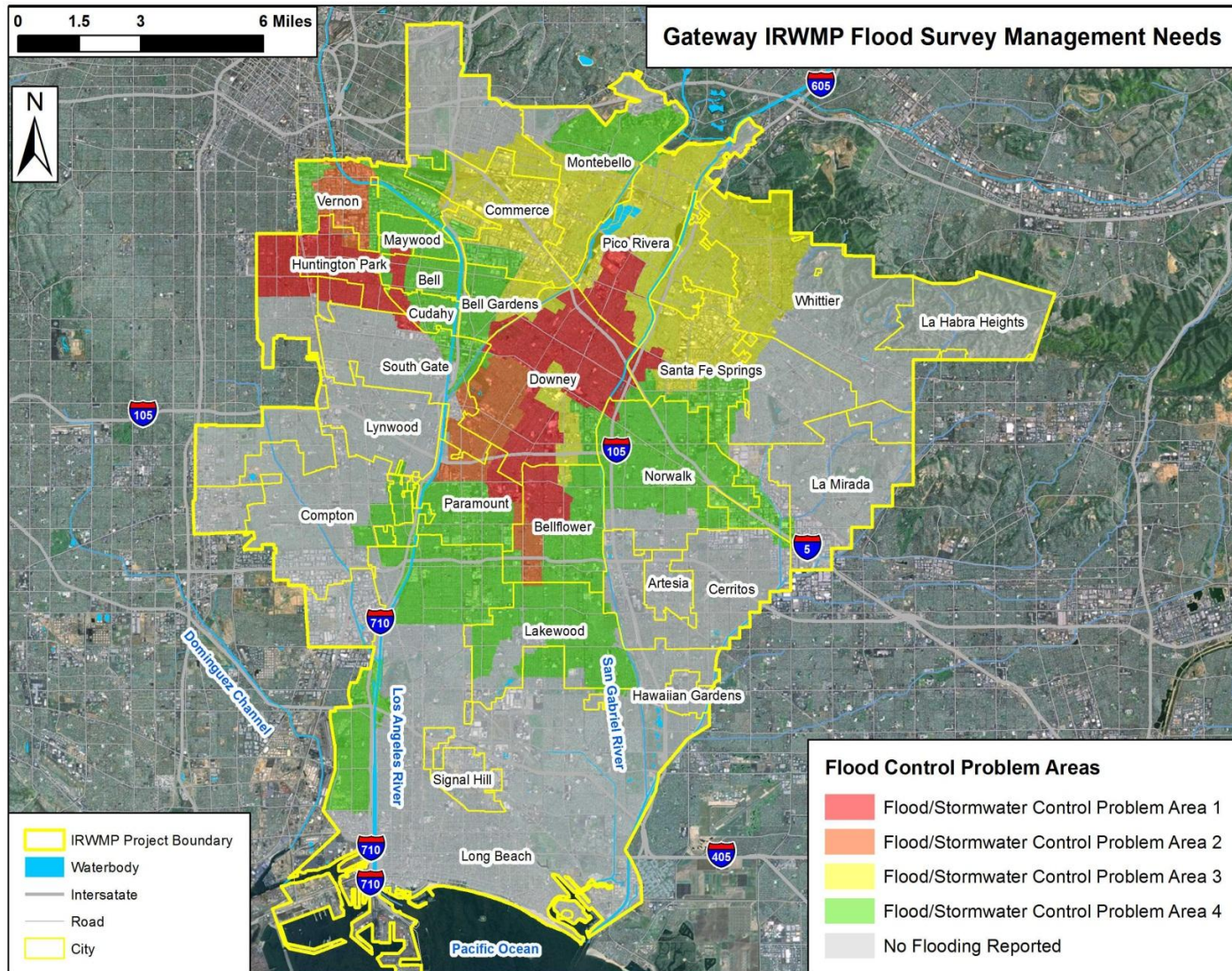
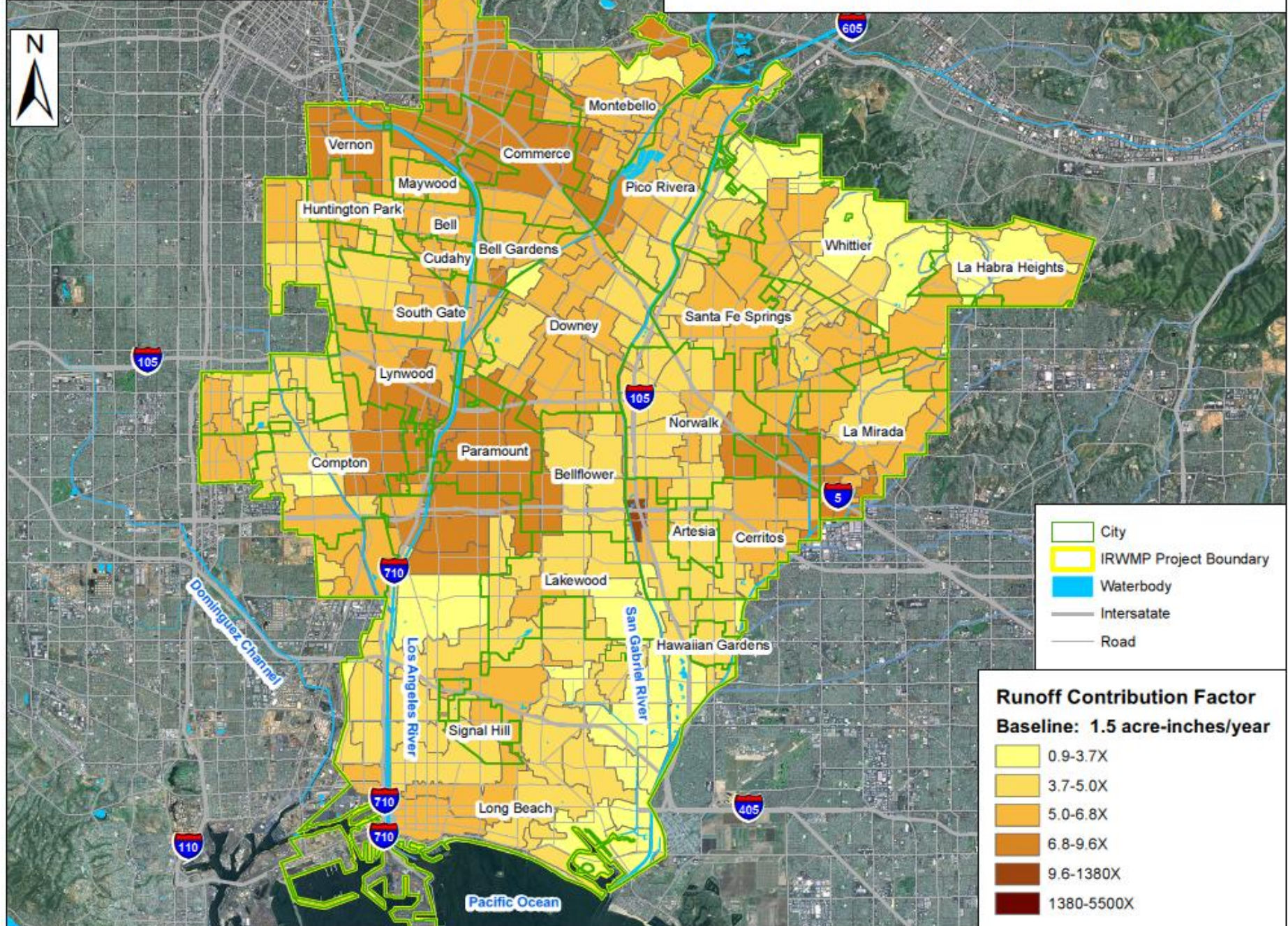
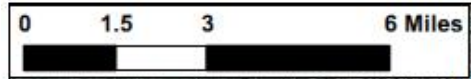


Figure 4-1 Prioritized Problem Areas for Flood Mitigation Measures

Gateway IRWMP Water Quality Analysis: Runoff



- City
- IRWMP Project Boundary
- Waterbody
- Interstate
- Road

Runoff Contribution Factor
Baseline: 1.5 acre-inches/year

- 0.9-3.7X
- 3.7-5.0X
- 5.0-6.8X
- 6.8-9.6X
- 9.6-1380X
- 1380-5500X

Storm Water: BMP's

Centralized BMPs (draining/treating larger areas)

Dry Extended Detention

- These devices store stormwater runoff and reduce stormwater peak flow rates. Stormwater enters the device through an inlet, which may be a grass-lined channel or stormwater pipe. An embankment detains stormwater, and an outlet riser controls the downstream release rate of the impounded water. Stormwater is detained for a longer period of time than in conventional dry detention ponds; the longer detention time allows for more removal of Total Suspended Solids (TSS) and nutrients from the stormwater.

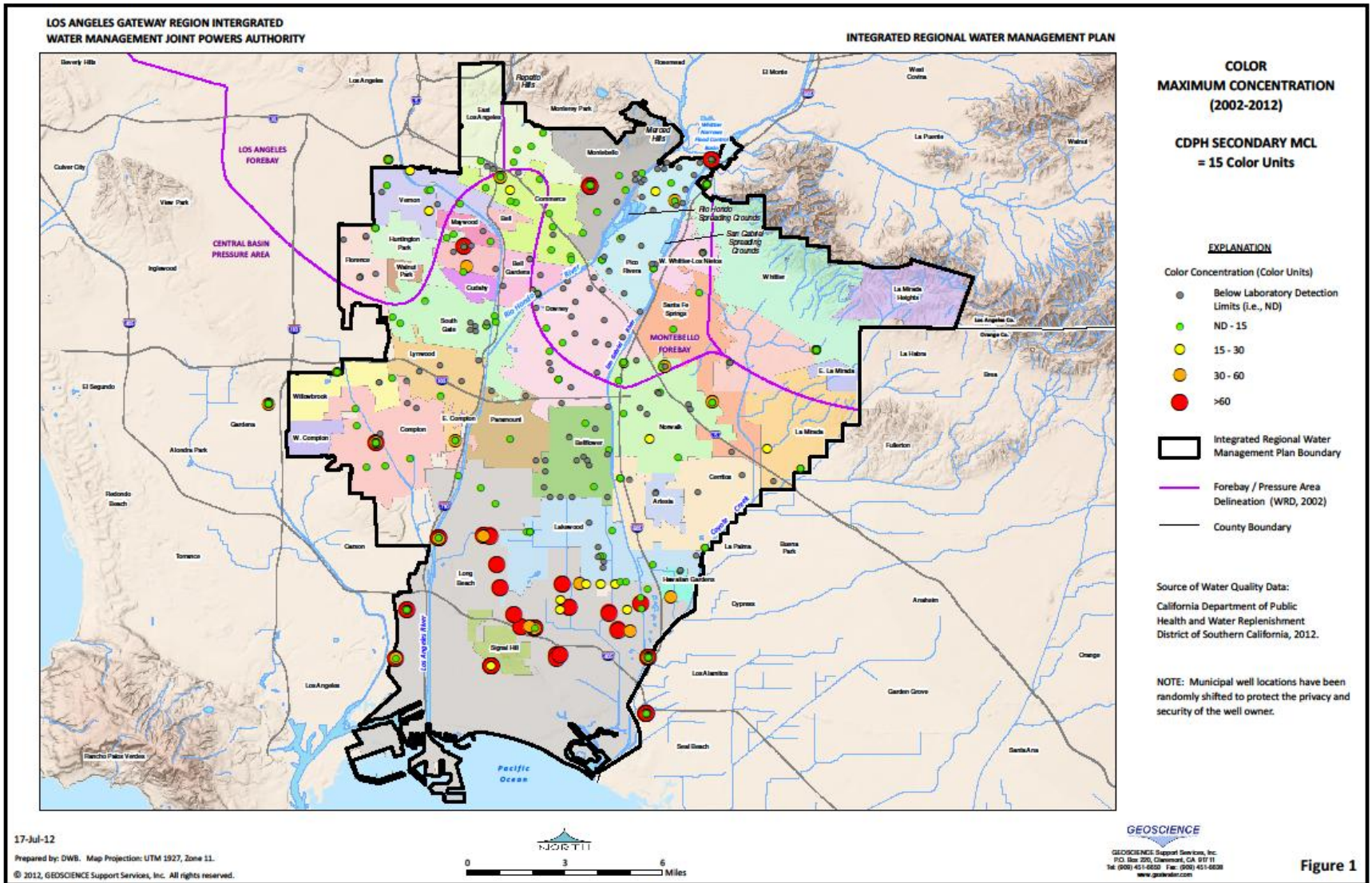


Water quality (wet) ponds

- A wet pond maintains a permanent pool of water. This device stores stormwater runoff and reduces stormwater flow. The ponding of stormwater allows excess sediment to settle out of the water and encourages bacteria to use excess nutrients. Portions of other pollutants may also be removed. Stormwater first enters a forebay, which is a small depression lined with rocks that slows the incoming stormwater flow and settles out larger particles. The outlet structure and emergency spillway control the rate of water draining out of the pond.



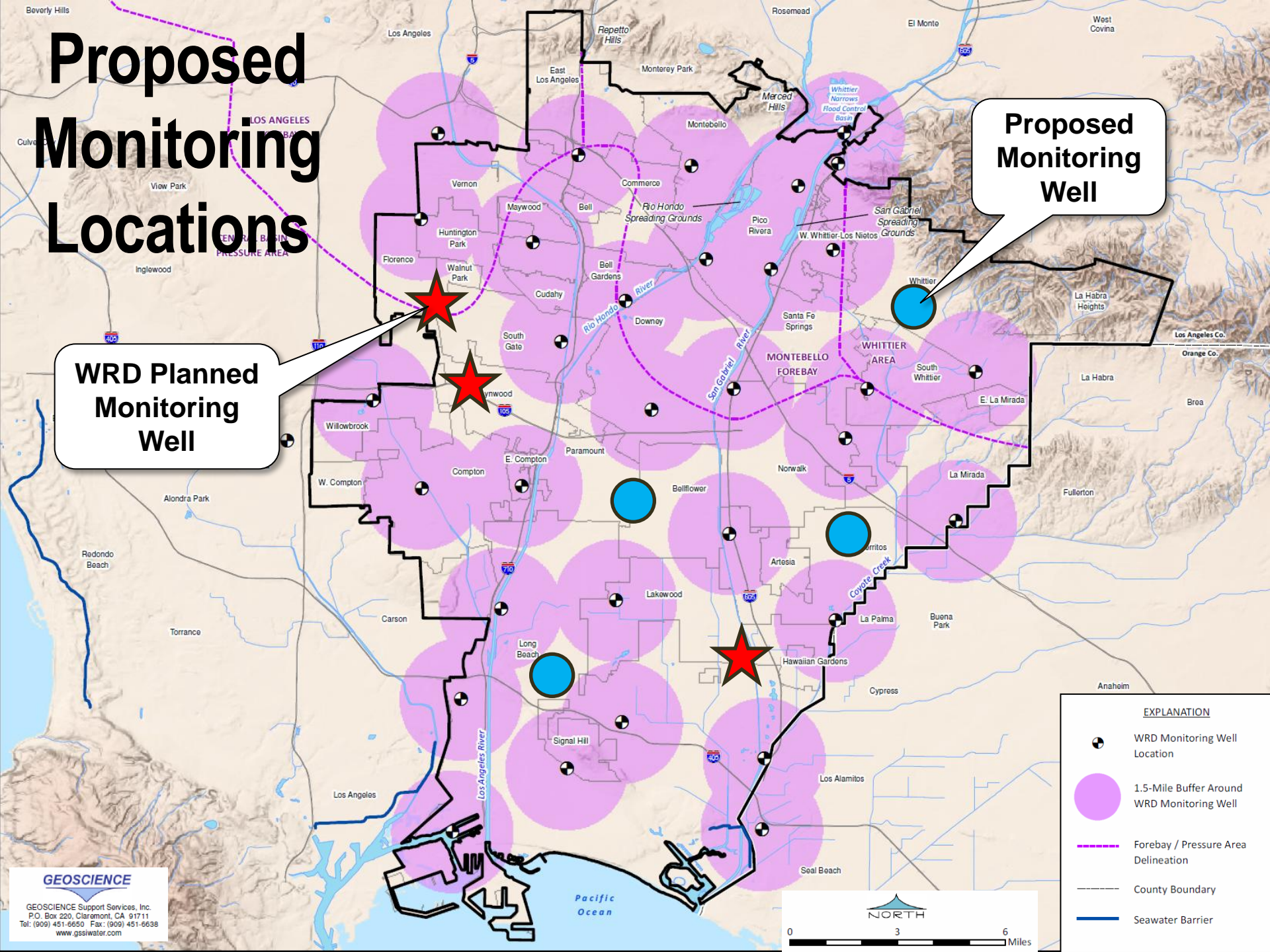
Water Quality and Groundwater - MAPS



Proposed Monitoring Locations

Proposed Monitoring Well

WRD Planned Monitoring Well



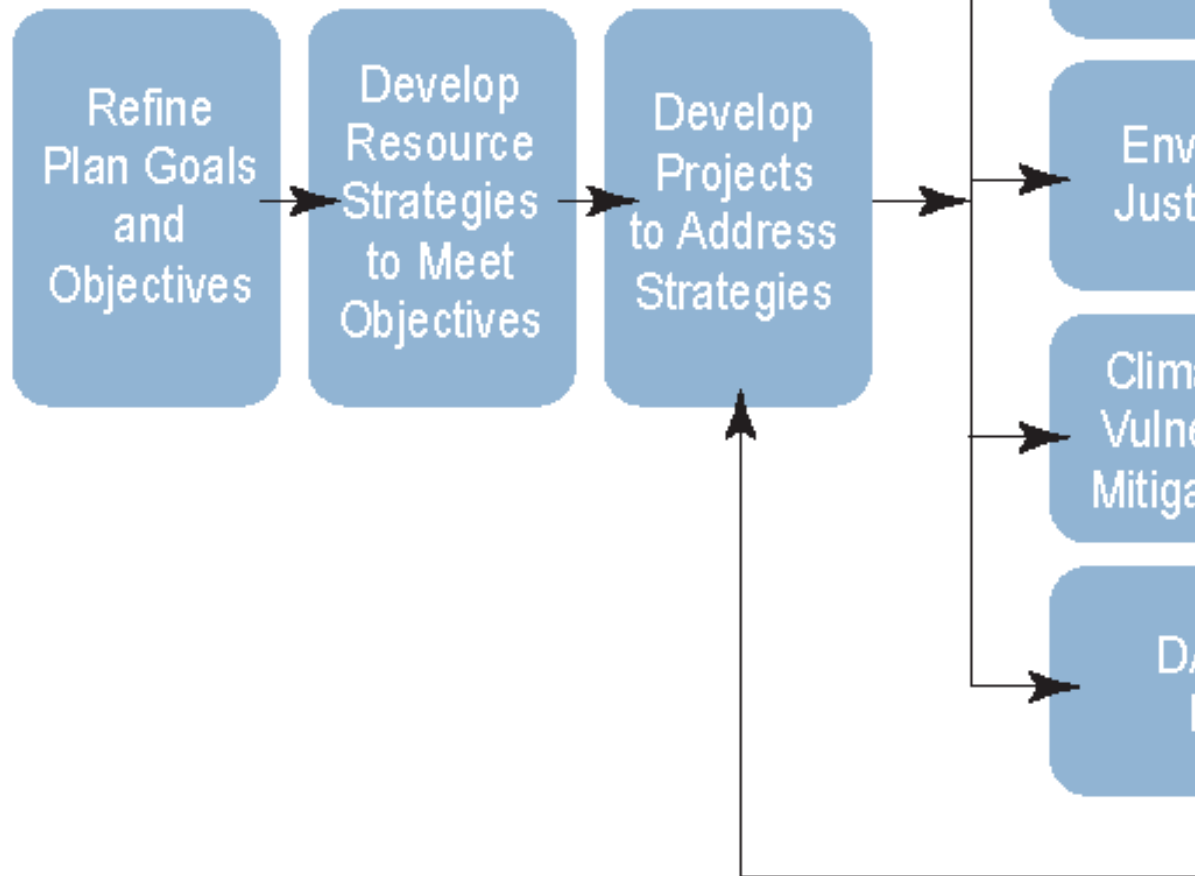
EXPLANATION	
	WRD Monitoring Well Location
	1.5-Mile Buffer Around WRD Monitoring Well
	Forebay / Pressure Area Delineation
	County Boundary
	Seawater Barrier



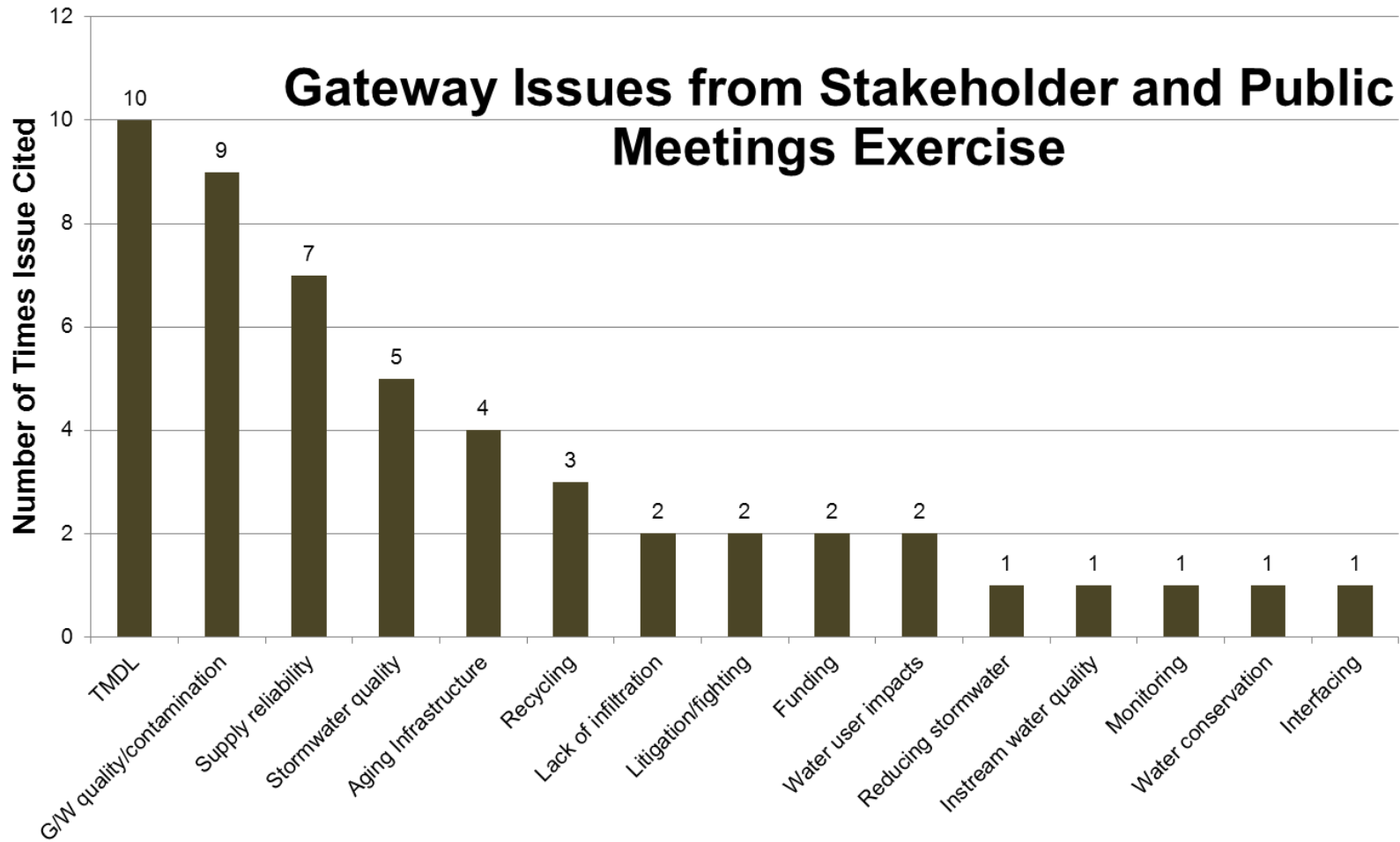
Climate Change Considerations

1. Overview of Climate Change Study
2. Methodology for Climate Change Analysis
3. Predictions for Gateway Region Climate Change
4. Predictions for Sea-Level Rise and Water Imports
5. Methodology for GreenHouse Gas (GHG) Analysis
6. Methodology for Evaluating Adaptation Projects

Tasks



Water Management Issues





Gateway Region IRWM Plan Goals and Objectives:

- Identify and address the water dependent natural resources needs of the Gateway Region Watersheds.
- Protect and enhance water quality.
 - *Objective:* Attain required TMDL levels in accordance with their individual schedules.
 - *Objective:* Effectively reduce major sources of pollutants and environmental stressors in the region.
- Optimize and ensure water supply reliability.
 - *Objective:* Continue and enhance water use efficiency measures to meet 20X2020 per capita water use targets.
 - *Objective:* Expand regional water recycling facilities and recycled water distribution to help provide reliable water sources.
 - *Objective:* Systematically upgrade aging water infrastructure in the Region.
- Coordinate and integrate water resource management.



Gateway Region IRWM Plan Goals and Objectives:

- Provide stewardship of the Region's water dependent natural resources through enhancement of amenities and infrastructure.
 - *Objective:* Create habitat, open space, and water-based recreational opportunities in the Region
- Manage flood and storm waters to reduce flood risk and water quality impacts.
 - *Objective:* Install or optimize water monitoring to effectively manage storm water in the Region. Obtain, manage, and assess water resources data and information.

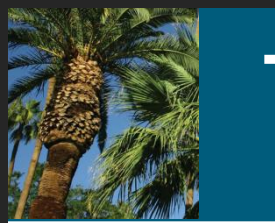


Water Management Strategies:

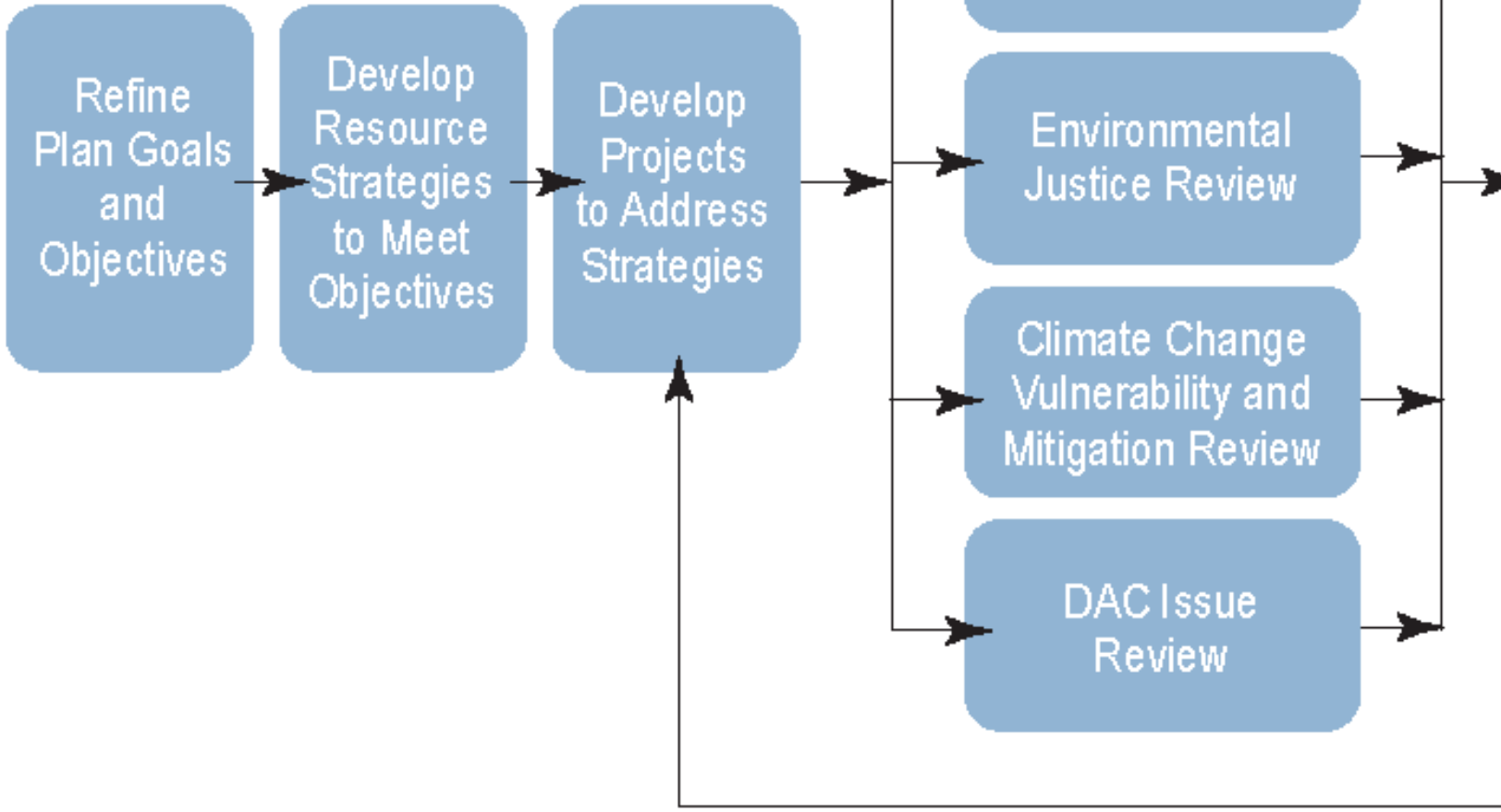
- Ecosystem restoration
- Environmental and habitat protection and improvement
- Groundwater management
- Storm water capture and management
- Water quality protection and improvement
- Conjunctive use
- Land use planning
- Watershed planning
- Economic Incentives (Grants, Loans, Pricing)
- Conveyance
- Water supply reliability
- Flood management
- Recreation and public access
- Water conservation
- Water recycling
- Imported water
- Storage
- Water and wastewater treatment
- Treatment methodologies
- Water transfers
- Desalination
- Recharge area protection
- System re-operation

Goals and Water Management Strategies

Water Management Strategy	Goals of the IRWMP						
	Identify and address the water dependent natural resources needs of the Gateway Region Watersheds.	Protect and enhance water quality	Optimize and ensure water supply reliability	Coordinate and integrate water resource management	Provide stewardship of the Region's water dependent natural resources through enhancement of amenities and infrastructure	Manage flood and storm waters to reduce flood risk and water quality impacts	
Flood management		X				X	2
Conjunctive use			X	X			2
Conveyance			X			X	2
Desalination		X	X				2
Economic Incentives (Grants, Loans, Pricing)			X				1
Ecosystem restoration	X	X			X		3
Environmental and habitat protection & Imp	X				X		2
Groundwater management		X	X	X			3
Imported water			X				1
Land use planning	X		X	X	X	X	5
Recharge area protection	X	X			X		3
Recreation and public access					X		1
Storage			X				1
Storm water capture and management		X	X			X	3
System re-operation						X	1
Treatment methodologies		X					1
Water and wastewater treatment			X				1
Water conservation	X		X				2
Water quality protection and improvement		X	X				2
Water recycling			X	X			2
Water supply reliability			X				1
Water transfers			X				1
Watershed planning	X	X	X	X		X	5
	6	9	16	5	5	6	
X - suggested by Stakeholder Exercise							
X - Added by Bill							



Water Management Issues.....



Project Information Form



Los Angeles Gateway Region Integrated Regional Water Management Joint Powers Authority
Integrated Regional Water Management Plan

Project Information Form

<http://www.gatewayirwmp.org/>

PURPOSE

The Project Information Form is to be used by project sponsors to submit proposed projects to the Los Angeles Gateway Region Integrated Water Management Joint Powers Authority (GWMA) to be considered for inclusion in the Gateway Region Integrated Regional Water Management Plan (IRWMP). Submitted Projects should help the Region meet the IRWMP goals and objectives. Projects that may seek funding from Proposition 84, Proposition 1E, or other State sources must be included in the Gateway Region IRWMP to qualify for grant funding.

INTRODUCTION

To submit a project for inclusion into the Gateway IRWMP, please complete this form and submit (button on top of this page) or send it as an e-mail attachment to GatewayIRWMP@qeiconsultants.com. It is recommended that you print a copy of this form for reference as you complete the document. Project sponsors may find it helpful to first prepare the responses using word processing software, then cut and paste final responses into this form. Please note, anyone with the free Adobe Reader (located at: <http://get.adobe.com/reader/>) or Adobe Acrobat Version 8.1 or later can fill out, save, and submit this form.

1. Each proposed project requires a separate form.
2. If the fields of the form are not highlighted, please click on the "Highlight Fields" button on the upper right hand corner of the form. This will highlight all fields to be filled out. *Please note, fields outlined in red must be completed to submit the form.* You can either click on the field to enter data or use the Tab button to tab through the form.
3. To fill out a text field (i.e., a paragraph descriptor or address information), click the cursor in the field and type the necessary information. Some text is highlighted in **red**; these indicate questions that have further instruction. Place the cursor over the question and a box will pop up with that instruction. Help information is also listed at the back of this form.



Project Submittal Types

Project Type	No. of Projects Submitted
Infrastructure	6
Conservation	7
Water Quality	22
Recycling	6
Wells	9
Flood/Storm Drains	13
Interties	4
Parks	3
Storage	3



Proposed Projects

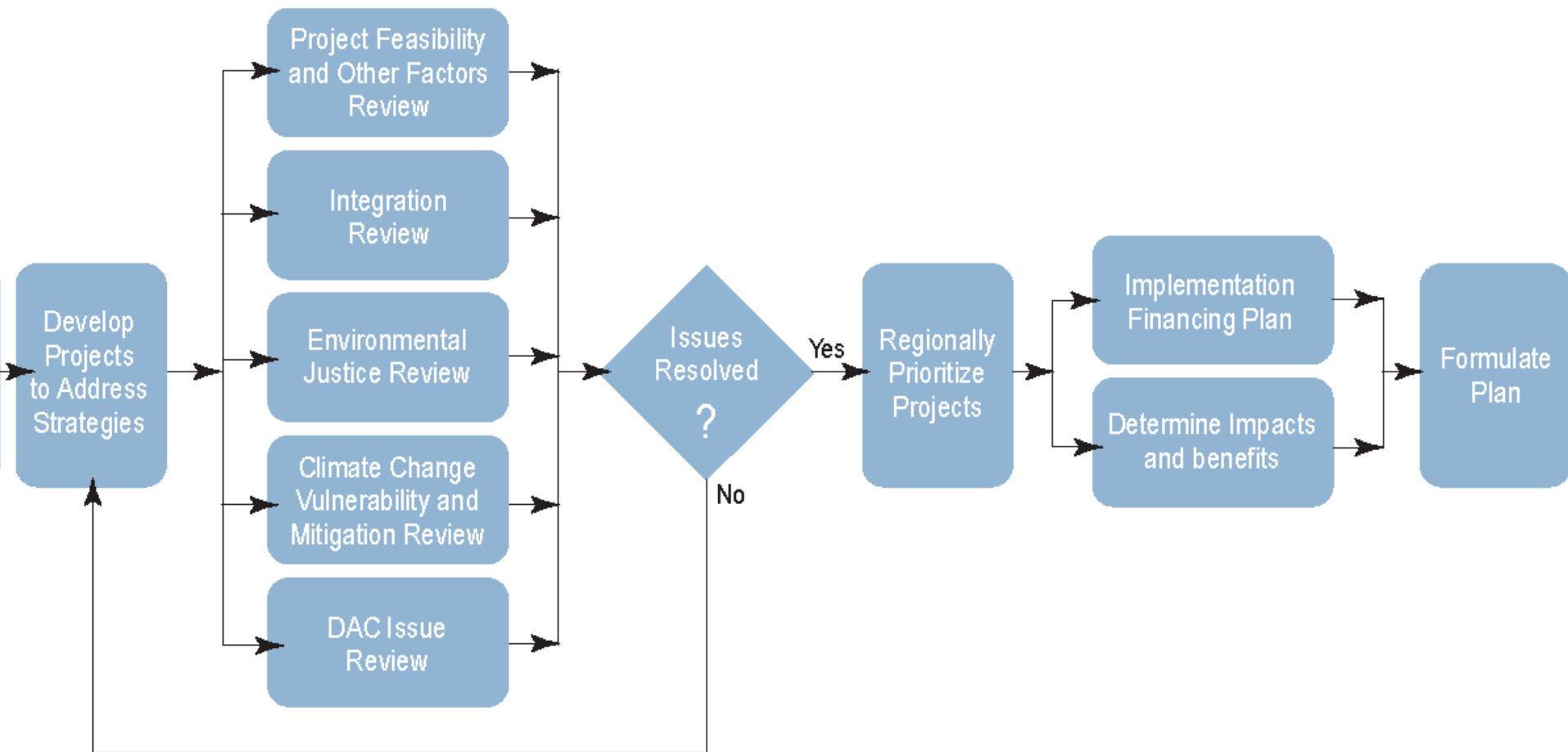
City/Agency	No. of Projects
Central Basin Municipal Water District	2
City of Bellflower	1
City of Bellflower Municipal Water System	1
City of Downey	5
City of La Mirada	1
City of Lakewood	1
City of Long Beach	14
City of Lynwood	1
City of Norwalk	7
City of Paramount	9
City of Pico Rivera	3
City of Signal Hill	7
City of South Gate	8
City of Vernon	7
Long Beach Water Department	1
Consultant Team	5
Total:	73

Project Submittals (Index)

Gateway Region IRWMP Project Index January 9, 2013

ID	Project Title	Participating Agencies	Submitting Agencies	Project Summary
1	Pico Rivera Emergency Intertie	Pico Water District	City of Pico Rivera	Construct interties between the City of Pico Rivera, Central Basin MWD, and Pico Water District to transfer water among agencies when there is a need and continue fully utilize the groundwater remediation wells to protect water quality of the region. CBMWD is in the process of decommissioning its Water Quality Protection Plan (WQPP) primarily due to lack of funding and the City plans on modifying the existing wells, piping, and pumping facilities to integrate them into the City water system. Majority of the City's production wells are over 50 years old and lost their well yield. This project will integrate an existing well of the CBMWD that was constructed less than 10 years ago to the City of Pico Rivera water system and continue pump groundwater as part of the cleanup process. Once completed, project will continue to provide ground water remediation, improve reliability of the City water system adding storage capacity, and provide assistance to neighboring agencies in emergency demand needs through inter-ties.
2	Advance Groundwater Wellhead Treatment Facility		City of Signal Hill	The Newport-Inglewood Fault runs directly through the City of Signal Hill. This unique geology essentially divides the City on a northwest axis, as well as provides a natural southern boundary for the Central Basin Groundwater Aquifer, preventing seawater intrusion from the south. However, the portion of the Central Basin Groundwater Aquifer that lies underneath the city limits, directly north of the earthquake fault has a high concentration of "organic color" within the groundwater. This project will construct an advance water treatment wellhead facility that will remove the organic color and treat this "new water source" for use as potable water supplies within the City
3	Furman Park/Rio Hondo Elementary School Recycled Water Main Extension and Irrigation System Improvement Project		City of Downey	The project consists of the design and construction of an 8-inch recycled water main and associated facilities from the Rio Hondo Golf Course, east to Furman Park and the Rio Hondo Elementary School for landscape irrigation purposes. The total length of new pipeline will be 2,100 feet. In addition, the irrigation system at the 14-acre Furman Park will be replaced to eliminate an inefficient system that is over 20 years old and uses excessive amounts of potable water. An estimated recycled water demand of 56 acre-feet per year is projected from the two sites.
4	Groundwater Well Supple Reliability Project		City of Signal Hill	This project rehabilitates two existing City groundwater supply wells located in the vicinity of Orange Ave. and Cherry Ave. Intersection and constructs a new groundwater supple well in the vicinity of Cherry Avenue and South Street. The City's two existing water supply wells both were constructed in the 1980's and are slowly losing groundwater production capabilities as they age. The rehabilitation/lining of these two existing wells will ensure the longest possible useable life of these facilities. The construction of a new water supply well will offset the loss of projection capacity from the two existing wells over time.
5	Hermosillo Park Well - Well No. 9 and water mains	City of Norwalk	City of Norwalk	Potable water well to serve the southern portion of the City's Municipal Water System
6	Installation of Catch Basin - Screening Devices (ARS/CPS)	City of Norwalk	City of Norwalk	Installation of CPS and ARS trash screening devices on 250 City and County owned catch basins located in Norwalk.
7	Los Angeles River Estuary Bacteria TMDL - Southeast Area Low Flow Diversion		City of Signal Hill	This project will construct a system that will divert low stormwater flows from an existing storm drain outfall that services approximately 50% the Los Angeles River watershed located within the City's boundaries directly into the Sanitary collection main for eventual treatment by the Los Angeles County Sanitation District. This project will prevent summer non-stormwater flows and "first flush" storm low flows from ultimately being emptied into the Hamilton Bowl Stormwater Retention facility and ultimately pumped into the lower Los Angeles River Estuary.
8	Los Angeles River Estuary Bacteria TMDL - Southwest Area Low Flow Diversion		City of Signal Hill	This project will construct a system that will divert low stormwater flows from an existing storm drain outfall that services approximately 40% the Los Angeles River watershed located within the City's boundaries directly into the Alamitos Sanitary Sewer Lift Station for eventual treatment by the Los Angeles County Sanitation District. This project will prevent summer non-stormwater flows and "first flush" storm flows from ultimately being emptied into the Hamilton Bowl Stormwater Retention facility and ultimately pumped into the lower Los Angeles River Estuary.

Tasks





Prioritizing Projects..??

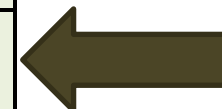
- Required to be included in IRWMP's
- Helps with prioritizing for grants
- But this ranking is not directly for grants.
 - Proposed grant projects must be in the plan, but projects do not need to be on the top of the list
 - Grant opportunities will depend on readiness of individual projects
 - Separate process for each grant solicitation

Technical Project Review Team: Project Ranking

	Criteria	How Well Does the Project Meet the Criteria?	Factor Weight	Total Points	Reviewers
		0-5	1-3		
Regional Goals	Identify and address the water dependent natural resources needs of the Gateway Region Watersheds.		3	0	Bill, Matt, Aaron, Ginger
	Protect and enhance water quality. <i>Objectives: Attain required TMDL levels in accordance with their individual schedules; Effectively reduce major sources of pollutants and environmental stressors in the region.</i>			0	Bill, Matt, Aaron, Ginger
	Optimize and ensure water supply reliability. <i>Objectives: Continue and enhance water use efficiency measures to meet 20X2020 per capita water use targets; Expand regional water recycling facilities and recycled water distribution to help provide reliable water sources; Systematically upgrade aging water infrastructure in the Region.</i>			0	Bill, Matt, Aaron, Ginger
	Coordinate and integrate water resource management.			0	Bill, Matt, Aaron, Ginger
	Provide stewardship of the Region's water dependent natural resources through enhancement of amenities and infrastructure. <i>Objective: Create habitat, open space, and water-based recreational opportunities in the Region.</i>			0	Bill, Matt, Aaron, Ginger
	Manage flood and storm waters to reduce flood risk and water quality impacts. <i>Objective: Install or optimize water monitoring to effectively manage storm water in the Region. Obtain, manage, and assess water resources data and</i>			0	Bill, Matt, Aaron, Ginger

Technical Review Team Project Ranking

Factors	Relation to Resource Management Strategies <i>(How well does the project contribute to the diversification of the water management portfolio?)</i>		2	0	Bill, Matt, Aaron, Ginger
	Benefits to DAC Water Issues <i>(How well does the project help address critical water related needs of DACs within the IRWM region?)</i>		2	0	Lorena, Gina, Dan
	Cost Effectiveness and Economic Feasibility		2.5	0	Bill, Matt, Aaron, Ginger
	Timeliness - Project Status <i>(Is the project ready to proceed?)</i> 0 = No expected start date provided. 1 = Expected to start greater than 6 years from now 2 = Expected to start 3-6 years from now 3 = Expected to start 1-3 years from now 4 = Expected to start within 1 year from now 5 = Already Started		2.5	0	Bill, Matt, Aaron, Ginger
	Technical Feasibility of Project <i>(In examining the methods, materials, or equipment used in the project, are there sufficient data to indicate the project will result in a successful outcome?)</i>		3	0	Bill, Matt, Aaron, Ginger
	Permitting <i>(Status of Permitting)</i>		2	0	Bill, Matt, Aaron, Ginger
	Project Costs and Funding <i>(Are project costs developed and reasonable? Is there a funding plan?)</i>		2.5	0	Bill, Matt, Aaron, Ginger
	Provides multiple benefits		2	0	Bill, Matt, Aaron, Ginger
	Integration with local land use planning		2	0	Bill, Matt, Aaron, Ginger
	Provides regional benefits		2.5	0	Bill, Matt, Aaron, Ginger



Technical Review Team Project Ranking

	Criteria	How Well Does the Project Meet the Criteria?	Factor Weight	Total Points	Reviewers
		0-5	1-3		
Requirements	Environmental Justice <i>(How well does the project redress inequitable distribution of environmental burdens (and access to environmental goods?))</i>		2	0	Bill, Matt, Loraine ←
	State Program Preferences <i>(How well does the project meet State Program Preferences DWR Guidelines Section F?)</i>		2	0	Bill, Matt, Aaron, Ginger
	Statewide Priorities <i>Def: How well does the project meet listed statewide priorities (DWR Guidelines Table 1).</i>		2.5	0	Bill, Matt, Aaron, Ginger
	Climate Change Adaptation <i>(How well does the project adapt to climate change?)</i>		2	0	Kwabena ←
	Greenhouse Gas Emissions Contribution- Project <i>(How well does the project assist in reducing GHG emission?)</i>		2	0	Kwabena ←
	Greenhouse Gas Emissions -Support to Renewable Energy <i>(How well does the project support renewable energy for the purposes of reducing GHG emissions?)</i>		2	0	Kwabena ←
TOTAL PROJECT SCORE				0	
Can this project be integrated with other projects? If so, which project(s)?		→			Bill, Matt

Ranked Project List - Handout




Rank	ID	Project Title	Submitting Agency	Score
1	39	Fernwood Water Improvement Park	City of Lynwood	186
2	32	West San Gabriel River Parkway Phase 3 Development	City of Lakewood	161
3	17	Outfall Monitoring	City of Downey	144
4	24	Bellflower NPDES Permit and TMDL Compliance Stormwater Improvements	City of Bellflower	139
5	21	Shallow Wells Abandonment	City of Downey	133
6	33	Catch Basin Trash Inserts and Face Plate Screens	City of Downey	132
7	51	Cesar Chavez Park Recycled Water irrigation Project	City of South Gate	127
8	37	Disadvantaged Communities Schools Retrofit Program	Central Basin Municipal Water District	126
9	44	Optimization of Strategies to Reduce Stormwater Impacts on Surface Water Quality based on Cost-Effectiveness	Gateway	121
10	7	Los Angeles River Estuary Bacteria TMDL - Southeast Area Low Flow Diversion	City of Signal Hill	118
10	9	Los Cerritos Channel Metals TMDL - Low Flow Diversion	City of Signal Hill	118
12	22	Small System Infrastructure Rehabilitation Project	Central Basin Municipal Water District	118
13	15	Norwalk Park Reservoir and Booster Pump Station	City of Norwalk	118
14	8	Los Angeles River Estuary Bacteria TMDL - Southwest Area Low Flow Diversion	City of Signal Hill	117
15	3	Furman Park/Rio Hondo Elementary School Recycled Water Main Extension and Irrigation System Improvement Project	City of Downey	116
16	61	Pico Rivera 1.5 Million Gallons Reservoir	City of Pico Rivera	113
17	18	Pilot Plant for Treatment of Los Angeles River Water	Long Beach Water Department	112
18	11	New Groundwater Well	City of Downey	111
		Potable Water Interconnections- Bloomfield x Hayford and		



Observations

- Projects That Ranked High:
 - Multiple Benefits
 - Regional or Multiple Agencies
 - Water Quality/Storm Water (multiple goals)
- Projects Not Scoring As Well
 - Single Purpose
 - One City
 - No Cost Estimates or Environmental work done
 - No Details

Program (Project) Alternatives

No.	Program Alternative	Description	Projects Included
A1	Systems Interties	Create partnerships that connect drinking water systems, provide operational flexibility, coordinate responses to catastrophic supply interruption, drought preparedness, adaption to climate change and meet the water supply and quality needs of the DAC.	1, 10, 19, 38, 61 
A2	Well Rehabilitation and Replacement	Increase supply reliability, preserve and protect the groundwater supply and optimize the available supply through conjunctive use, consistent with the groundwater management plan and adjudication.	4, 5, 11, 12, 14, 31, 49, 55
A3	Recycling	Reduce the need for imported water, Stretch the groundwater supplies, Reliably meet current and future non-potable water demands Provide water to support habitat/open space and ecosystem needs	3, 18, 24, 32, 51, 53
A4	Outfall Monitoring	Includes program elements to manage water quality, flood, and storm waters; help attain the required TMDL levels	17, 50 
A5	Installation of Catch Basin Screening	Modifying existing catch basin drains to capture trash to meet Trash TMDL requirements for the region	6, 24, 33, 48 
A6	Improve storm/flood infrastructure	Improves flood issue: Bundle 2 or more.	25, 26, 27 28, 29, 30, 45, 46, 47, 56
A7	Upgrade Aging Infrastructure	Upgrade aging urban infrastructure, including drinking water distribution systems, wastewater collection and treatment, support DACs. Develop regional Program	13, 15, 16, 20, 22, 40, 57, 58,
A8	Groundwater Treatment Projects	Projects that protect and treat groundwater contamination and help prevent the general spreading of the contaminated water; Bundle 2 or more.	40,41,42,43
A9	Collect and treat low flow urban drainage	Projects that deal with runoff and TMDL requirements. Bundle 2 or more.	7, 8, 9, 54, 60

Greater LA Projects – Region Integration

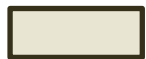
GLAC IRWM: LSGLAR Subregion
10/16/12 Workshop - Project Ranking

Project ID	Project Title	Implementing Organization	Project Description	Rank
14830	San Jose Creek Water Reclamation Plant East Process Optimization Project	County Sanitation Districts of Los Angeles County	<p>This project includes the following: construction of flow equalization and chlorine contact tanks (CCTs), replacement of process air compressors (PACs), and optimization of aeration system controls. These improvements would improve the secondary treatment process and allow the plant to consistently meet effluent and Title 22 requirements at plant design capacity.</p> <p>Flow equalization tanks would reduce flow variability thereby improving operation of downstream processes. CCTs would provide additional contact time, costs less than Title 22 compliance at design capacity. Replace PACs which are the plant's largest power demand with significantly lower power consumption. Optimization of aeration system controls would improve secondary treatment and use process air more efficiently, thereby further lowering power demand.</p>	1
14790	Dominguez Gap Spreading Grounds West Basin Percolation Enhancement	Los Angeles County Flood Control District	<p>The proposed project will increase the percolation within the spreading grounds facility in order to increase ground water recharge. The preliminary scope includes removing between 5 to 10-feet of clay sediment or installing vertical trenches/drains through the poorly draining strata in the facility's west basin. Preliminary studies have been conducted including boring samples which will be used to further develop conceptual plans and estimate project benefits.</p>	2
14806	Graywater Standard Implementation	City of Long Beach	<p>The City of Long Beach has undertaken a pilot program to implement graywater strategies at up to 36 homes. To date, 21 homes have received graywater installations.</p> <p>This planning project would:</p> <ol style="list-style-type: none"> (1) Expand the Laundry to Landscape program into 99 additional homes in Long Beach disadvantaged communities. Augment existing program to allow for landscape improvements for which the pilot project demonstrated a need. (2) Conduct 9 demonstration projects to study graywater solutions scaled for larger, multi-unit residences, residences with less open space, other uses for water from the Laundry to Landscape Program, and other graywater sources. (3) Monitor existing 36 pilot program installations and fix issues as needed. <p>A total of 108 properties will be retrofit and will save approximately 1.9 AFY of potable water.</p>	3

- No conflicts evident with Gateway Projects
- Generally supportive of most, based on criteria
- Stormwater Gateway projects
- Stormwater Gateway project in line with some

Table 2 - Projects Potentially Ready and Competitive for Proposition 84 Round 2 Implementation Grant Funding

ID#	Prog Alt	Rev Rank	Name	Total Cost	Local	Unfunded	Local Match %
33	A5	6	Catch Basin Trash Inserts and Face Plate Screens	\$ 340,000	\$ -	\$ 340,000	0%
37	A10	8	Disadvantaged Communities Schools Retrofit Program	\$ 1,310,000	\$ 655,000	\$ 655,000	50%
18	A3	17	Pilot Plant for Treatment of Los Angeles River Water	\$ 1,400,000	\$ 350,000	\$ 700,000	25%
19	A1	18	Potable Water Interconnections- Bloomfield x Hayford and Pioneer x Lakeland	\$ 500,000	\$ -	\$ 500,000	0%
6	A5	25	Installation of Catch Basin - Screening Leaves (ARS/CPS)	\$ 200,000	\$ -	\$ 200,000	0%
11	A2	18	New Groundwater Well	\$ 3,500,000	\$ -	\$ 3,500,000	0%
2	A8	26	Advanced Groundwater Wellhead Treatment Facility	\$ 8,000,000	\$ 3,000,000	\$ 5,000,000	38%
31	A2	27	Well 21 Conversion Project	\$ 1,000,000	\$ 500,000	\$ 500,000	50%
63	A9	TBD	Willow Springs Habitat Enhancement, Trail Improvement and Water Quality Improvements	\$ 4,175,000	\$ -	\$ 4,175,000	0%
62	A9	TBD	Long Beach Graywater Program	\$ 400,000	\$ -	\$ 400,000	0%
Subtotal				\$ 20,825,000	\$ 4,505,000	\$ 15,970,000	22%
Top Five Projects (33, 37, 18, 19, 6)				\$ 3,750,000	\$ 1,005,000	\$ 2,395,000	27%



DAC



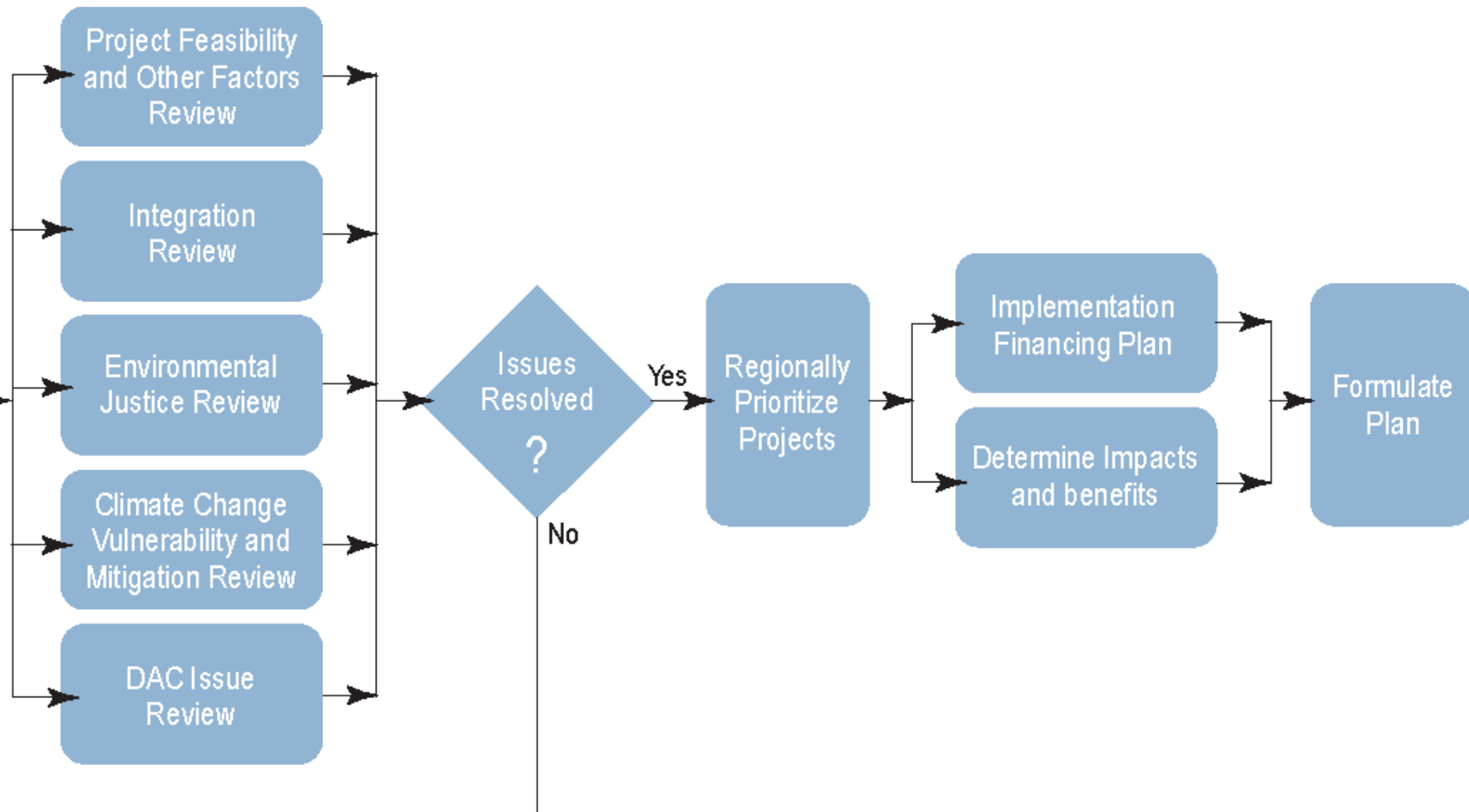
Need to Confirm if DAC

Recommended Projects to Stakeholders for Implementation Grant

Grant Project List: Stakeholder Recommendation

ID	Name	Grant Needed	Notes
A5	Catch Basin Trash Inserts and Face Plate Screens	\$5,400,000	Added Norwalk; removed Long Beach
37	Disadvantaged Communities Schools Retrofit Program	\$655,000	
A1	Interties, Phase 1 (Regional): 1. Potable Water Interconnections- Bloomfield /Hayford and Pioneer /Lakeland 2. Pico Rivera Emergency Intertie	1,168,000	Adjusted
39	Fernwood Water Improvement Park	3,877,066	
2	Advance Groundwater Wellhead Treatment Facility	4,750,000	Adjusted
63	Willow Springs Habitat Enhancement, Trail Improvement and Water Quality Improvements	2,250,000	Adjusted
62	Long Beach Graywater Program	400,000	
59	Chittick Field	2,250,000	Added, adjusted, and reconfigured
Total		\$20,750,066	

Tasks



Funding Options - Handout

Grant Funding Matrix *Examples of Previous and Current Programs*

Program	Brief Description	Key Points	Key Application Dates	Contact Info
Federal Stimulus (American Recovery & Reinstatement Act) in California				
CDPH, Safe Drinking Water State Revolving Funds	Projects that assist in achieving or maintaining compliance with the Safe Drinking Water Act (SDWA). Includes source water protection projects	<p>\$160M available plus regular annual allocation of - \$80M</p> <p>Planning, design & construction projects; \$20M max/yr/project, 20 yr payback; \$30M max/yr/entity, 20 yr payback</p> <p>Planning only: \$100k max/project, 5 yr payback; Current interest rate: 2.3%; principal forgiveness or negative interest loans may be available</p>	<p>The Universal Pre-application is now open. On-going program</p> <p>Process includes an Invitations to submit a full application, then applicant has 60 days to complete application and 60 days later must begin construction.</p>	<p>www.cdph.ca.gov/services/funding/Pages/SRF.aspx</p> <p>916-449-5600 sdwsrf@cdph.ca.gov</p>
SWRCB, Clean Water State Revolving Fund	<p>Eligible applicants; POTW (local public agencies) & NPS (local public agencies, non-profit organizations, and private parties)</p> <p>Eligible Projects:</p> <ul style="list-style-type: none"> - Publicly owned treatment facilities such as: wastewater treatment, including installation and major rehabilitation of sewer lines, and storm water prevention/reduction - Water recycling projects - Nonpoint source and estuary enhancements projects (expanded use) 	<p>No state matching required.</p> <p>Program funding: \$284.6M</p> <p>No upper limit for project; however maximum annual funding cap of \$50M per agency per year.</p>	<p>Applications under Economic Stimulus Package due March 24 through FAAST.</p>	<p>http://www.waterboards.ca.gov/water_issues/programs/grants_loans/CleanWaterSRF@waterboards.ca.gov</p> <p>Christine White 916-341-5795 cwhite@waterboards.ca.gov</p>
USBR CALFED Bay Delta		\$50M as stated in ARRA		
USBR Title XVI	Recycled water feasibility investigations, preliminary engineering studies and research projects. Brackish water desalination is also considered.	\$126M as stated in ARRA		



IRWMP Development Process: Other Steps

- Monitoring the plan
 - Process
 - Protocol
 - Metrics to monitor progress
- Data Management
- Administrative Draft
- Public Review Draft
- Final Gateway Integrated Water Management Plan
- Plan Adoption

Gateway Interactive Map Viewer

Gateway Interactive Map Viewer - Windows Internet Explorer

http://arcgis02.geiconsultants.com/gateway2/gis/

File Edit View Favorites Tools Help

Convert Select

Favorites Free Hotmail Suggested Sites Web Slice Gallery

Gateway Interactive Map Viewer

Los Angeles Gateway Region Integrated Regional Water Management Joint Powers Authority
Integrated Regional Water Management Plan

Gateway


Information Select Query Graphics Tools

Base Map Layer Legend Print Save Refresh Share

Search for enter keywords here... Search

Gateway Information

Right click on the layer name to have more options.
Click on the layer to set it active.
Click the layer name, hold and drag to order the layers.



0 5 10mi Current Tool: Identify Active Layer: Lat/Long:34.01878274084071,-118.66087550014667

Trusted sites | Protected Mode: Off 125%

Detailed description: This is a screenshot of a web browser displaying an interactive GIS map. The browser window title is 'Gateway Interactive Map Viewer - Windows Internet Explorer'. The address bar shows the URL 'http://arcgis02.geiconsultants.com/gateway2/gis/'. The browser's menu bar includes 'File', 'Edit', 'View', 'Favorites', 'Tools', and 'Help'. Below the menu bar are search and navigation icons, including 'Convert', 'Select', 'Favorites', 'Free Hotmail', 'Suggested Sites', and 'Web Slice Gallery'. The main content area features a dark blue header with the text 'Los Angeles Gateway Region Integrated Regional Water Management Joint Powers Authority Integrated Regional Water Management Plan'. Below the header is a map interface. On the left, there is a 'Gateway' sidebar with a search box and instructions: 'Right click on the layer name to have more options. Click on the layer to set it active. Click the layer name, hold and drag to order the layers.' The map itself shows a detailed view of the Los Angeles area, including cities like Burbank, Glendale, Pasadena, Los Angeles, Inglewood, Downey, Norwalk, Fullerton, and Orange. Major highways (101, 405, 10, 60, 5, 105, 710, 110) and parks (Griffith Park, Topanga State Park, etc.) are clearly marked. The map interface includes a toolbar with 'Information', 'Select', 'Query', 'Graphics', and 'Tools'. At the top right of the map area are icons for 'Base Map', 'Layer', 'Legend', 'Print', 'Save', 'Refresh', and 'Share'. At the bottom of the map, there is a scale bar (0 to 10 miles) and a status bar showing 'Current Tool: Identify', 'Active Layer:', and 'Lat/Long:34.01878274084071,-118.66087550014667'. The browser's status bar at the very bottom indicates 'Trusted sites | Protected Mode: Off' and a zoom level of '125%'.

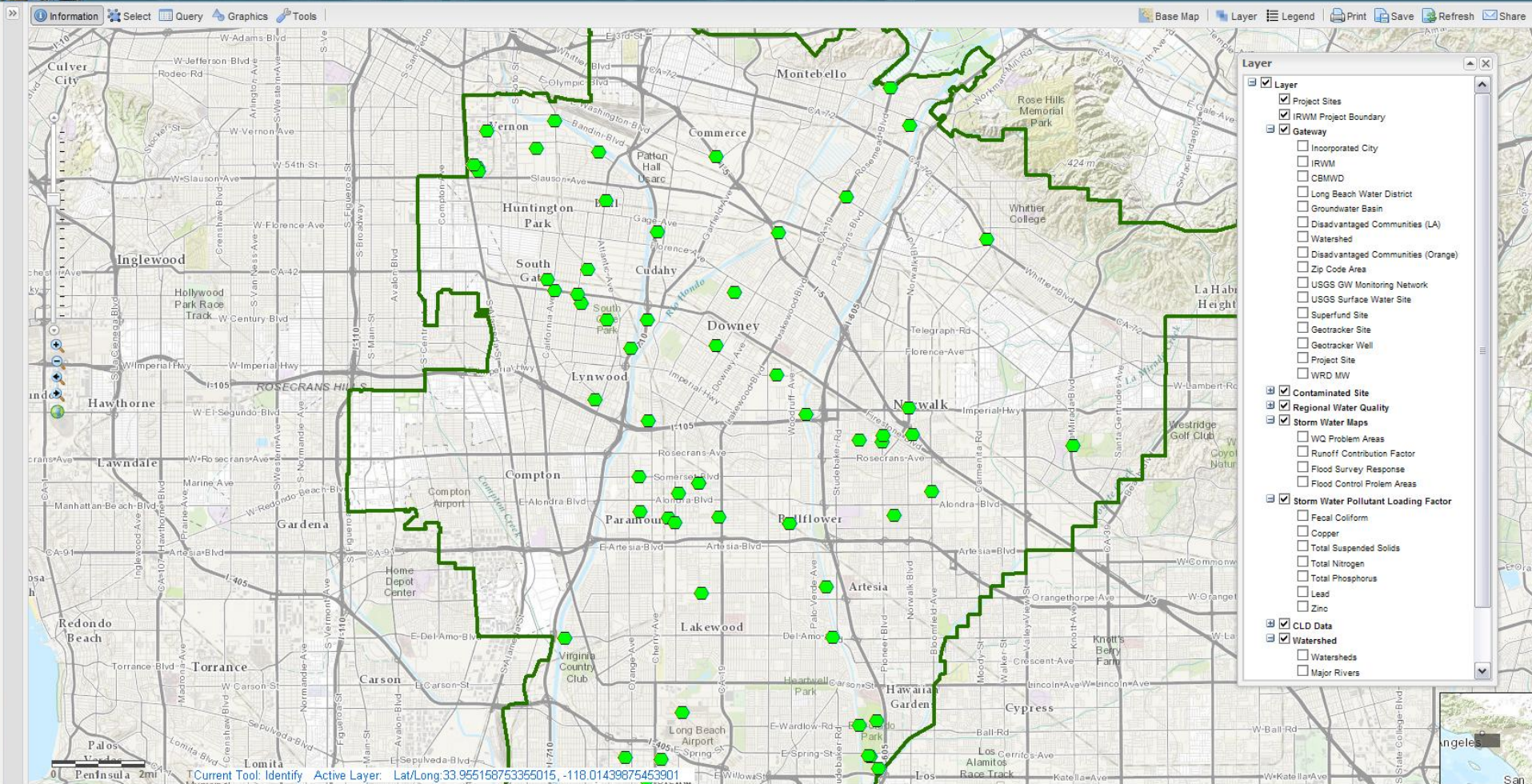
Project Information, groundwater data, storm water, etc.

Gateway Interactive Map Viewer - Windows Internet Explorer

http://arccgis02.geiconsultants.com/gateway2/gis/

Gateway Interactive Map Viewer

Los Angeles Gateway Region Integrated Regional Water Management Joint Powers Authority Integrated Regional Water Management Plan



Project Information

Gateway Interactive Map Viewer - Windows Internet Explorer

http://arcgis02.geiconsultants.com/gateway2/gis/

Gateway Interactive Map Viewer

Los Angeles Gateway Region Integrated Regional Water Management Joint Powers Authority Integrated Regional Water Management Plan

Information Select Query Graphics Tools Base Map Layer Legend Print Save Refresh Share

Extent Free Polygon Point In Feature Line Free Line Polyline Polygon Arrow Triangle Circle Ellipse Clear Select Add Buffer Close

Results

Project Sites

1 features returned in Project Sites [Export CSV](#) [Export XML](#) [Export KML](#)

OBJECTID	Project	AgencyList	SubAgency	Longitude	Latitude	PrjSummary
1	Pico Rivera Emergency Intertie	Pico Water District	City of Pico Rivera	-118.0958	33.9831	Construct interties between the City of Pico Rivera, Central Basin MWD, and Pico Water District to transfer water among agencies when there is a need and continue fully utilize the groundwater remediation wells to protect water quality of the region. CBMWD is in the process of decommissioning its Water Quality Protection Plan (WQPP) primarily due to lack of funding and the City plans on modifying the existing wells, piping, and pumping facilities to integrate them into the City water system. Majority of the City's production wells are over 50 years old and lost their well yield. This project will integrate an existing well of the CBMWD that was constructed less than 10 years ago to the City of Pico Rivera water system and continue pump groundwater as part of the cleanup process. Once completed, project will continue to provide ground water remediation, improve reliability of the City water system adding storage capacity, and provide assistance to neighboring agencies in emergency

Layer

- Layer
- Project Sites
- IRWM Project Boundary
- Gateway
 - Incorporated City
 - IRWM
 - CBMWD
 - Long Beach Water District
 - Groundwater Basin
 - Disadvantaged Communities (LA)
 - Watershed
 - Disadvantaged Communities (Orange)
 - Zip Code Area
 - USGS GW Monitoring Network
 - USGS Surface Water Site
 - Superfund Site
 - Geotracker Site
 - Geotracker Well
 - Project Site
 - WRD MW
- Contaminated Site
- Regional Water Quality
- Storm Water Maps
 - WQ Problem Areas
 - Runoff Contribution Factor
 - Flood Survey Response
 - Flood Control Problem Areas
- Storm Water Pollutant Loading Factor
 - Fecal Coliform
 - Copper
 - Total Suspended Solids
 - Total Nitrogen
 - Total Phosphorus
 - Lead
 - Zinc
- CLD Data
- Watershed
 - Watersheds
 - Major Rivers

Current Tool: Query Active Layer: Lat/Long: 33.9705353554763, -118.30553644985114

Gateway IRWMP Public Review Draft



At Public Libraries in the
Gateway Region

<http://www.gatewayirwmp.org/>



PUBLIC REVIEW DRAFT

Gateway Integrated Regional Water Management Plan

Executive Summary

Gateway Water Management Authority Members

- City of Artesia
- City of Bell
- City of Bell Gardens
- City of Bellflower
- Central Basin Municipal Water District
- City of Cerritos
- City of Commerce
- City of Downey
- City of Huntington Park
- City of La Mirada
- City of Lakewood
- City of Long Beach
- Long Beach Water Department
- City of Lynwood
- City of Norwalk
- City of Paramount
- City of Pico Rivera
- City of Santa Fe Springs
- City of Signal Hill
- City of South Gate
- City of Vernon
- City of Whittier
- Ex-Officio Participant:
City of Hawaiian Gardens

The cities of the Los Angeles Gateway Region (Gateway Region), regional water agencies, and interested parties are developing an integrated regional water management plan (IRWMP). These cities share water resources; have common water quality, water supply, and storm runoff problems and issues, and are demographically similar. These common traits provide a unique opportunity to jointly find common, integrated, and coordinated solutions for the region's water-related issues through the IRWMP process. The Gateway Region formed an official joint powers authority (JPA) under California law to steer their planning efforts and provide solid governance for plan development and implementation.

There are currently 23 signatories to the JPA, and they are actively engaging in both stakeholder and public outreach programs and expanding JPA membership. The map on page 8 shows the boundary of the Region and the current cities that are participating in the JPA. The JPA is now officially known as the Gateway Water Management Authority (GWMA).

This Plan is being produced and sponsored by GWMA, funded in part through a Proposition 84 IRWMP Planning Grant from the California Department of Water Resources (DWR). The development program is being administered by GWMA Executive Officer, Grace Kast. The Plan Consultant Team is led by GEI Consultants, Inc.

Additional information and a full copy of the Public Review Draft Gateway IRWMP are available at www.gatewayirwmp.org.

Los Angeles Gateway Region Integrated Regional Water Management Authority

Gateway IRWMP Executive Summary 1

<http://www.gatewayirwmp.org/>



IRWMP Contents

Gateway IRWMP Chapter Outline	
Chapter Number	Chapters
1	Executive Summary
2	Introduction
3	Region Description
4	Governance and Coordination
5	Outreach: Public and Stakeholder Involvement Processes
6	IRWMP Goals and Objectives
7	Groundwater and Water Quality Issues
8	Storm Water and Flooding Issues
9	Water Supply and Demand: Today and in the Future
10	Water Management Strategies
11	Climate Change
12	Project Solicitation and Prioritization
13	Project Integration – Project Alternatives
14	Other Planning Coordination
15	Plan Impacts and Benefits
16	Financing Strategies
17	Data Management
18	Plan Performance and Monitoring
19	Plan Amendments
20	Conclusions and Recommendations
21	Appendices



Schedule – Dates for Next Steps

- Release Public Review Draft IRWMP – April 15
- Public Meeting – May 1
- Public Comment Period Closes – May 15
- Final IRWMP available ~ June 3
- GWMA adopts Final IRWMP – June 13



Questions??

Comments:

- *E-mail: **GatewayIRWMP@geiconsultants.com***
- *Accept Comments **tonight** (cards)*
- *Information at: **<http://www.gatewayirwmp.org/>***