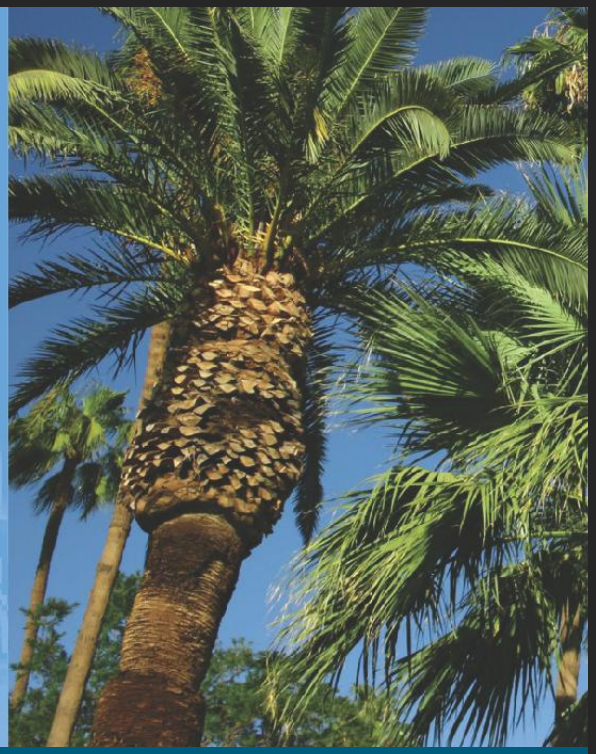


Los Angeles Gateway Region
Integrated Water Management Joint Powers Authority

Development of the
Integrated Regional Water Management Plan

December 2012

GEI Consultants

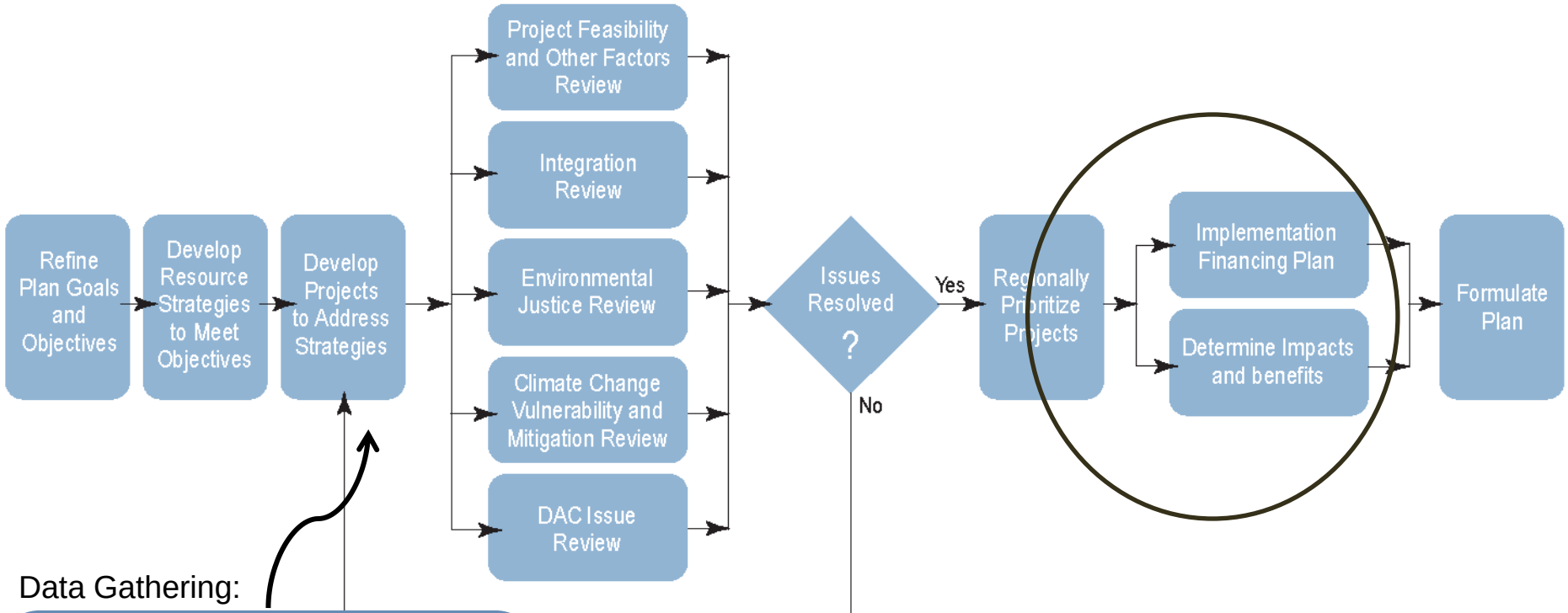
Stakeholder Meeting Agenda

1. Introductions
2. Review of Project Review and Ranking
3. Look at Greater LA Sub-region Projects
4. Future Plan and Project List Updating Process
5. In-Kind Work Accounting
6. Next Steps
7. Questions

Introductions

- Name
- Organization
- Best Holiday Present

IRWMP Development Process:



Data Gathering:

Water balance
Storm water Issues
Water quality data
Review groundwater monitoring

Status of Project Submittals

- 62 Projects were submitted

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	3
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

Project Types

- Submitted Projects
  - Infrastructure 6
  - Conservation 5
  - Water Quality 18
  - Recycling 4
  - Wells 9
  - Flood/storm drains 10
  - Interties 4
  - Parks 3
  - Storage 3

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
  - Implementation grant applications coming

Gateway Project Review Considerations

- 1. Is there a critical need for further clarification for the project, given its status and general information??

- 2. What are the next steps for the project?? If it isn't ready to fund and build, what steps can be funded or planned now?
    - a. Reconnaissance Report
    - b. Feasibility Study
    - c. Funding Plan/commitment
    - d. Design
    - e. Environmental Documentation
    - f. Construction
    - g. Implementation

Project Review Considerations (Cont.)

- 3. Do partners know they are included?
- 4. Integration:
  - a. Are there other projects that can be bundled?
  - b. Are there other locals/agencies that could join in this project?
  - c. Are there similar projects in adjacent regions?
  - d. Is the project going to interfere with other proposed projects?
  - e. Is the project going to use water from other projects or dedicated to other projects?
  - f. Can the project be operated cooperatively with other projects for a better outcome?

Project Score Sheet - Handout

Project Title _____ Project ID _____

Reviewer _____

	Criteria	How Well Does the Project Meet the Criteria? *0-5*	Factor Weight *1-3*	Total Points	Reviewer Comments
Regional Goals	Identify and address the water dependent natural resources needs of the Gateway Region Watersheds.			0	
	Protect and enhance water quality. *Objectives: Attain required TMDL levels in accordance with their individual schedules; Effectively reduce major sources of pollutants and environmental stressors in the region.*			0	
	Optimize and ensure water supply reliability. *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.*		3	0	
	Coordinate and integrate water resource management.			0	
	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.*			0	
	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.*			0	
Factors	Relation to Resource Management Strategies *(How well does the project contribute to the diversification of the water management portfolio?)*		2	0	
	Benefits to DAC Water Issues *(How well does the project help address critical water related needs of DACs within the IRWM region?)*		2	0	
	Cost Effectiveness and Economic Feasibility *(Is the project cost effective? How economically feasible is the project? http://www.water.ca.gov/economics/downloads/Guidebook_June_08/EconGuidebook.pdf)*		2.5	0	
	Timeliness - Project Status *(Is the project ready to proceed?) 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	

IRWMP Goals

Factors

Requirements

Project Ranking – Review Team

Review Subject Areas		Reviewer								
	Task	Matt Zidar	Aaron McWilliams	Bill Bennett	Lorena Ospina	Kwabena Asante	Ginger Gillan	Gina Nila	Dan Ojeda	Loraine White
Project Feasibility	4.7	☒	☒	☒			☒			
Integration	4.8	☒	☒	☒			☒			
Environmental Justice	4.9	☒		☒						☒
Climate Change	4.10					☒				
DAC Issues	4.11				☒			☒	☒	
Land Use	4.7	☒		☒						
Questions to Answer		**All but Climate and DAC**	**All but Climate, DAC, and Env.Justice**	**All but Climate and DAC**	**DAC Only**	**Climate Only**	**All but Climate, DAC, and Env.Justice**	**DAC Only**	**DAC Only**	**Env.Justice Only**

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. *Objectives: Attain required TMDL levels in accordance with their individual schedules; Effectively reduce major sources of pollutants and environmental stressors in the region.*			0	***Bill, Matt, Aaron, Ginger***
	Optimize and ensure water supply reliability. *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.*			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. *Objective: Create habitat, open space, and water-based recreational opportunities in the Region.*			0	***Bill, Matt, Aaron, Ginger***
	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*			0	***Bill, Matt, Aaron, Ginger***

Review Team Project Ranking

Factors	Relation to Resource Management Strategies (*How well does the project contribute to the diversification of the water management portfolio?)*		2	0	***Bill, Matt, Aaron, Ginger***
	Benefits to **DAC Water Issues** (*How well does the project help address critical water related needs of DACs within the IRWM region?)*		2	0	***Lorena, Gina, Dan***
	Cost Effectiveness and Economic Feasibility		2.5	0	***Bill, Matt, Aaron, Ginger***
	Timeliness - Project Status *(Is the project ready to proceed?)* *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 *(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?)*		3	0	***Bill, Matt, Aaron, Ginger***
	Permitting *(Status of Permitting)*		2	0	***Bill, Matt, Aaron, Ginger***
	Project **Costs** and Funding *(Are project costs developed and reasonable? Is there a funding plan?)*		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***

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** *(How well does the project redress inequitable distribution of environmental burdens (and access to environmental goods?)*		2	0	***Bill, Matt, Loraine***
	State Program Preferences *(How well does the project meet State Program Preferences DWR Guidelines Section F?)*		2	0	***Bill, Matt, Aaron, Ginger***
	Statewide Priorities *Def: How well does the project meet listed statewide priorities (DWR Guidelines Table 1).*		2.5	0	***Bill, Matt, Aaron, Ginger***
	Climate Change Adaptation *(How well does the project adapt to climate change?)*		2	0	***Kwabena***
	Greenhouse Gas Emissions Contribution- Project *(How well does the project assist in reducing GHG emission?)*		2	0	***Kwabena***
	Greenhouse Gas Emissions -Support to **Renewable Energy** *(How well does the project support renewable energy for the purposes of reducing GHG emissions?)*		2	0	***Kwabena***
	TOTAL PROJECT SCORE			0	

Can this project be integrated with other projects? If so, which project(s)?		***Bill, Matt***

Observations

- Projects That Scored Well:
  - 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

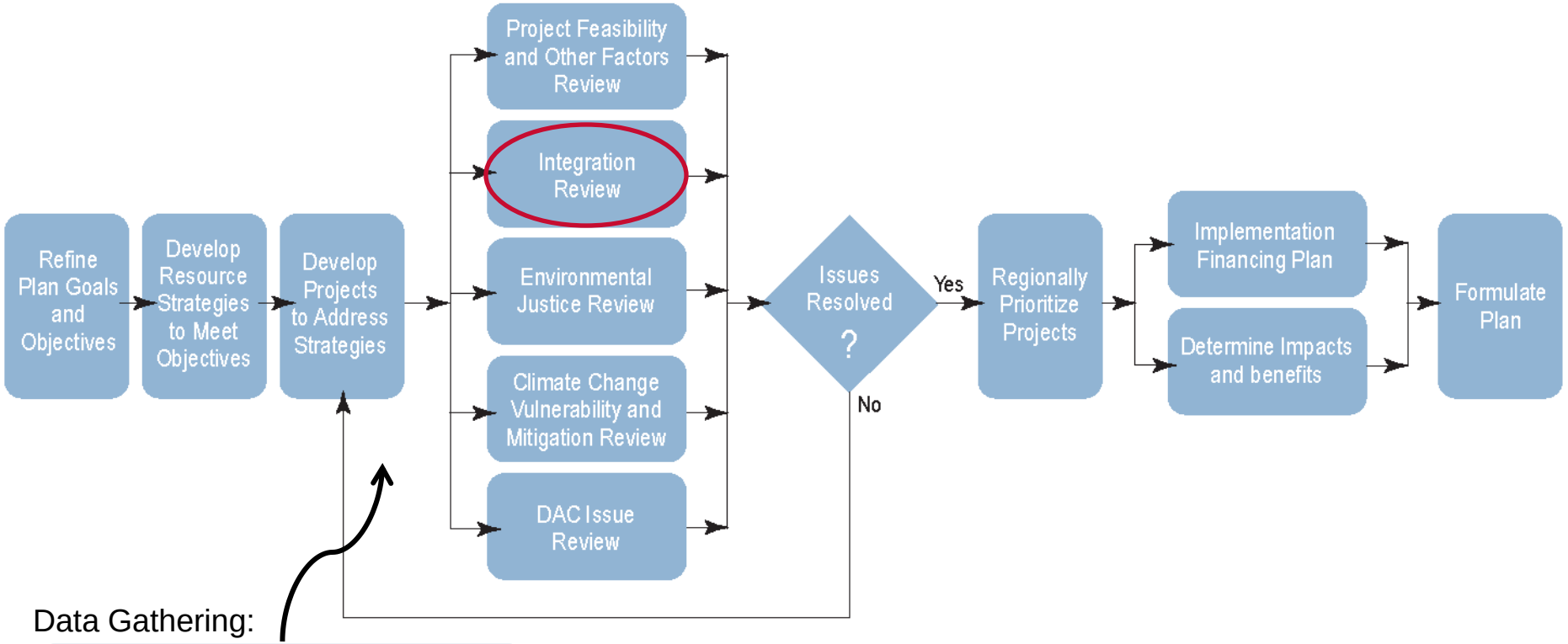
Observations

- Some Projects needed more information; not ready
  - Need *Feasibility Study* or *Design* first
  - Probably should modify project
- Some stretching of benefits…
- Couple projects increased water demand…

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		

IRWMP Development Process:



Data Gathering:

Water balance
Storm water Issues
Water quality data
Review groundwater monitoring

Integration

- This coordination is to make sure that:
  - Projects do not **adversely impact** one another, or current water management systems
  - Projects **complement** each other and improve the benefits beyond those developed from individual project
  - Single benefit and similar projects are appropriately **bundle**d into more comprehensive and collective regional program alternatives to save effort and cost in administration, permitting, planning, and design-construction and generally make them ready for funding opportunities
  - The plan considers **merging** or adding parts or **components** of projects that would further increase additional benefits

Integration Opportunities - Handout

Project Integration Opportunities

ID	Project Title	Bennett	Zidar
1	Pico Rivera Emergency Intertie	Suggest splitting interties from well takeover and retrofit since they are so different; Might be better to collect other intertie projects and make that a regional effort. (projects 10, 38)	
2	Advance Groundwater Wellhead Treatment Facility		Anything groundwater related that supports Central Basin GW Mgmt. Possible to integrate with other water quality treatment and improvement projects, especially if they are DACs.
3	Furman Park/Rio Hondo Elementary School Recycled Water Main Extension and Irrigation System Improvement Project	Unknown at this time	Integrate with other recycled water use and development and/or other conservation efforts to meet 20X2020 goal.
4	Groundwater Well Supple Reliability Project	Consider all well work as one regional project? See projects 4,5,11,12,14,31,49,55	Could be linked with infrastructure upgrade efforts for DACs if this is a DAC. Integrate with other projects that reduce reliance on imported water and/or support DACs. Relate to overall groundwater development, recharge and management activities in context of IRWMP.
5	Hermosillo Park Well - Well No. 9 and water mains	Consider all well work as one regional project? New wells could be bundled into a regional program. See projects 4,5,11,12,14,31,49,55	Integrate with other projects that reduce reliance on imported water and/or support DACs. Relate to overall groundwater development, recharge and management activities in context of IRWMP.
6	Installation of Catch Basin - Screening Devices (ARS/CPS)	Consider a regional program for this and other TMDL catch basin problems (proj 33)	
7	Los Angeles River Estuary Bacteria TMDL - Southeast Area Low Flow Diversion		Other TMDL projects in the watershed.

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

Questions?

Greater LA IRWMP

- Reviewing Projects Now
- LSGLAR Subregion
  - Ranked 6 Projects, advancing some to Leadership Group
  - Wastewater Treatment Project
  - 3 G/W Recharge Basin Improvement Projects
  - Graywater Retrofit Project (Long Beach)
  - Neighborhood Storm Water Greenway Project

Greater LA Projects - Handout

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	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. Flow equalization tanks would reduce flow variability thereby improving operation of downstream processes. CCTs would provide additional contact time to ensure Title 22 compliance at design capacity. Replacing PACs, which are the plant's largest power demand, would significantly lower power consumption. Optimization of aeration system controls would improve secondary treatment and use process air more efficiently, thereby further lowering power demand.	1
14790	Dominguez Gap Spreading Grounds West Basin Percolation Enhancement	Los Angeles County Flood Control District	The proposed project will increase the percolation within the spreading grounds facility in order to increase groundwater 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.	2
14806	Graywater Standard Implementation	City of Long Beach	The City of Long Beach has undertaken a pilot program to implement graywater strategies at up to 36 homes. To date, 20 homes have received graywater installations. This planning project would: (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. A total of of 108 properties will be retrofit and will save approximately 1.9 AFY of potable water.	3

Greater LA IRWMP Projects - Observations

- No conflicts evident with Gateway Projects
- Generally supportive of most, based on criteria
- Stormwater Greenway Project in line with some Gateway projects
- Graywater Retrofit Project may not be cost effective

Questions?

IRWM Plan and Project Update

	Update/Amend IRWMP

What	• Formal/Major changes
	  ○ Goals, Objectives
	  ○ Governance/Decision process
	  ○ Funding

When	• Plan review every five years
Why	• Changes to DWR/Legislative requirements • Changing water management conditions
How	• JPA authorizes update or amendment
Who	• JPA and members readopt

IRWM Plan and Project Update

- Plan Updates
  - Adaptive management for new or changing needs or priorities
  - Periodic Updates (i.e. Five Year Updates) as required by State
  - DWR Updates for changing Bond Laws/Requirements
  - Changes Goals/Policies/Components of the Plan
  - Generally longer, Stakeholder-driven process

- Proposal:

Plan Updates authorized by majority vote of the GWMA.

IRWM Plan and Project Update

	Maintain Project List
What	• Informal/Interim/Minor changes
Why	• Respond to funding opportunities • Changing water management conditions
When	• Flexible, as needed
How	• Call for projects
Who	• JPA approves

IRWM Plan and Project Update

- Project List Maintenance
  - New ideas
  - Project funding criteria for grants and loans changed
  - Make projects more competitive for funding
  - Not changing plan, just adding potential projects to the list

- Proposal:

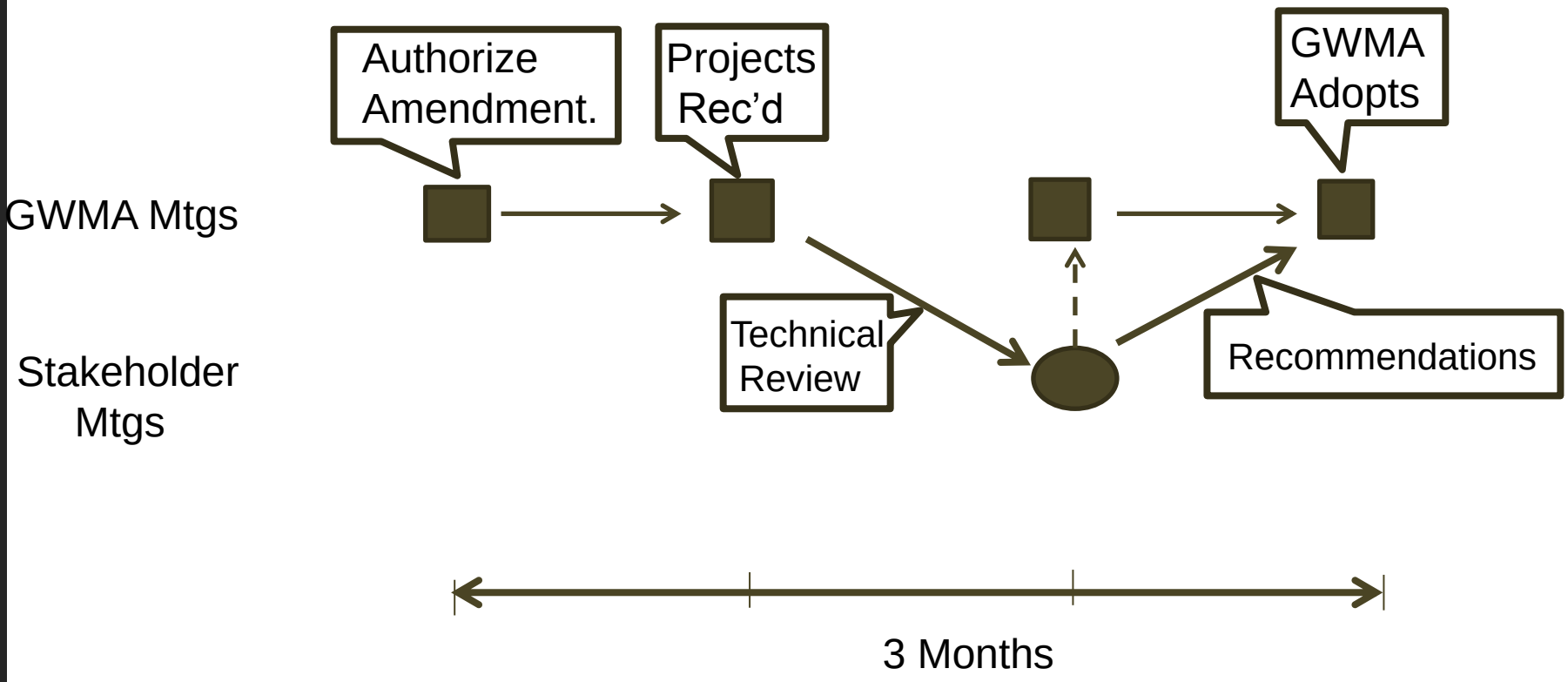
  Project List Maintenance Process

IRWM Plan and Project Update

Project List Mintenance Process:

1. *Request to GWMA Board from Member or Stakeholder*
2. *GWMA authorizes Project List Amendment by vote and sets solicitation period (~30 day)*
3. *Members/stakeholders submit projects through submittal form*
4. *GWMA selects Technical Review Committee*
5. *Technical Review Committee reviews submittals and screens and ranks projects using previously developed ranking criteria (~30 d)*
6. *Technical Review Committee presents to Stakeholders*
7. *Stakeholders recommend Amended List to GWMA for adoption*
8. *GWMA adopts list*

IRWM Plan and Project Update



*Typical Amendment timetable - can be shortened as needed

Questions?

In-kind Work Accounting

GWMA In-Kind Expense Rate Certification

Date: _____

Name: _____

Title: _____

Organization: _____

Address: _____

Phone: _____

Email: _____

I hereby certify that I am a paid employee of _____
actively represent that organization in the Gateway IRWMP pr
participation for that organization would constitute In-Kind expe
development.

My hourly charge rate for that organization, including related o
_____

My electronic signature is _____

Signature:_____ Date:_____

Gateway IRWMP In-Kind Timesheet

Name:_____

Organization:_____

Period:_____

Date mm/dd/yy	Hours*	Task	Description of Work**
TOTAL IN-KIND HOURS	0		

*nearest 1/2 hour
**if meeting, give purpose

I certify this accounting as true and correct,

_____
Signature

Note: Electronic signature must be on file

Next Steps

- Adopt Project List
- Financing Options
- Write-up Draft Plan
- Follow-up on In-Kind Timesheets

- **Next Stakeholders Meeting January 10**