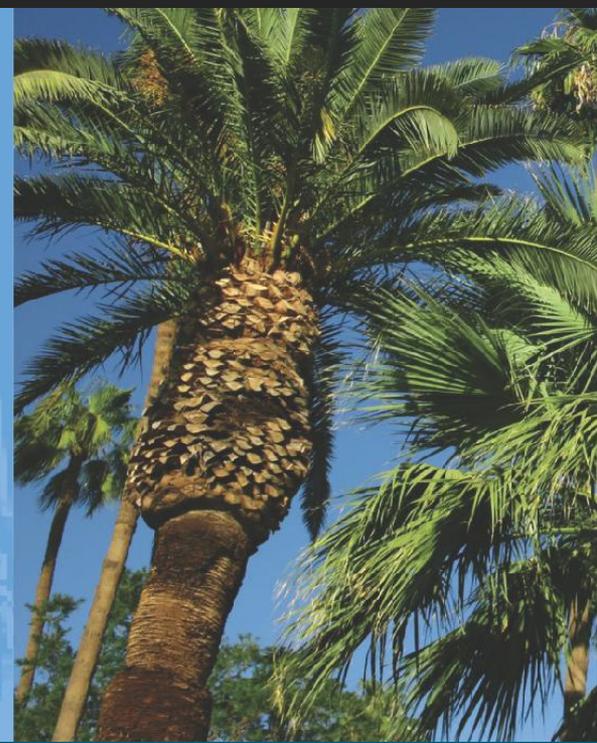


Los Angeles Gateway Region  
Integrated Water Management Joint Powers Authority



# Development of the Integrated Regional Water Management Plan

November 2012





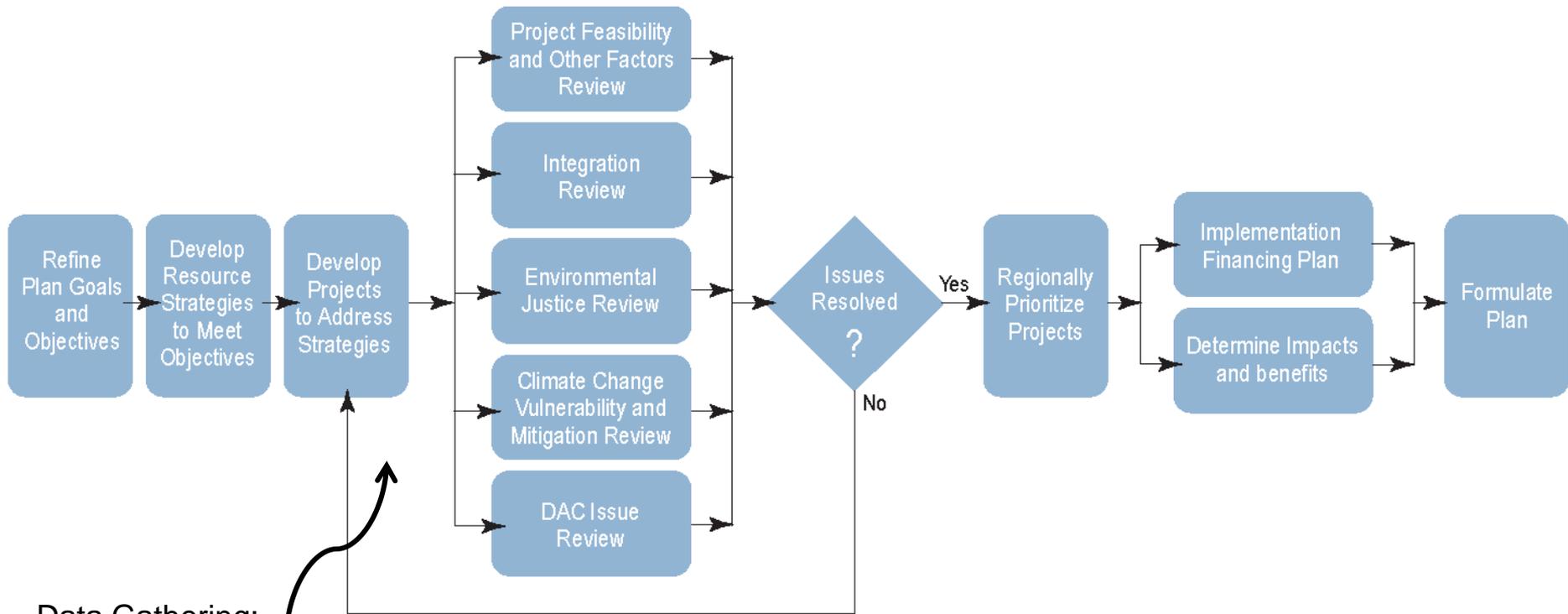
# Stakeholder Meeting Agenda

1. Introductions
2. Project Review and Ranking
3. Greater LA Sub-region Projects
4. In-Kind Work Accounting
5. Next Steps
6. Questions

# Introductions



# IRWMP Development Process:



Data Gathering:

Water balance  
Storm water Issues  
Water quality data  
Review groundwater  
monitoring



# Status of Project Submittals

- 61 Projects were submitted

<b>City/Agency</b>	<b>No. of Projects</b>
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	2
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 4
  - Water Quality 18
  - Recycling 4
  - Wells 9
  - Flood/storm drains 10
  - Interties 4
  - Parks 3
  - Storage 3



# Status of Project Submittals

- Total Estimated Costs
  - 18 Projects did not provide total cost estimates
    - Maximum Total Estimated Cost provided: \$15M
    - Minimum Total Estimated Cost provided: \$70K
    - Average Total Estimated Cost provided: \$3.0M
    - Total Estimated Cost: \$114,783,000
  - 50% of projects are estimated to cost less than \$4M



# 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	1		
Reviewer					
Criteria	How Well Does the Project Meet the Criteria?	Factor Weight	Total Points	Reviewer Comments	
	0-5	1-3			
Regional Goals	Identify and address the water dependent natural resources needs of the Gateway Region Watersheds.		3	0	IRWMP Goals
	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	
	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	
	Coordinate and integrate water resource management.			0	
	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	
	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 information.</i>			0	

← 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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
Integration	4.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
Environmental Justice	4.9	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>
Climate Change	4.10				<input checked="" type="checkbox"/>					
DAC Issues	4.11				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Land Use	4.7	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						

<b>Questions to Answer</b>		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
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# Reviewers

## Matt Zidar

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**Role/Responsibilities:**

IRWMP Advisor/Mr. Zidar will advise the team on the overall IRWMP approach, DAC involvement, and will review task products.

**Years of Experience:**

28

**Firm/Current/Proposed Location:**

GEI Consultants, Inc./Sacramento



## Kwabena Asante, PhD, PE

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**Role/Responsibilities:**

Climate/Dr. Asante will lead climate change vulnerability and mitigation analyses.

**Years of Experience:**

15

**Firm/Current/Proposed Location:**

GEI Consultants, Inc./Sacramento



# Reviewers

## Lorena Ospina

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### **Role/Responsibilities:**

As Lead Planner and Urban Water Conservation consultant, Ms. Ospina will lead the Water Conservation Element and Urban Demand Analysis with emphasis on evaluation of existing demand management and formulation of programs to help achieve urban conservation requirements. Ms. Ospina will oversee the analysis and development of water supply reliability and demand forecasting for the region. She will also assist in the coordination of stakeholder involvement and outreach to the DACs to assist in the development of projects.



### **Years of Experience:**

16

### **Firm/Current/Proposed Location:**

GEI Consultants, Inc./Glendale

# Reviewers

## Ginger Gillin

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**Role/Responsibilities:**

CEQA Environmental Documents Requirements, Fish Passage/Ms. Gillin will advise the IRWM team of the need for CEQA compliance for the IRWMP development and for projects that are integrated into the IRWMP.

**Years of Experience:**

29

**Firm/Current/Proposed Location:**

GEI Consultants, Inc./Portland



Also:

Aaron McWilliams, PE - GEI (20x2020)

Lorraine White, Planner



# Observations

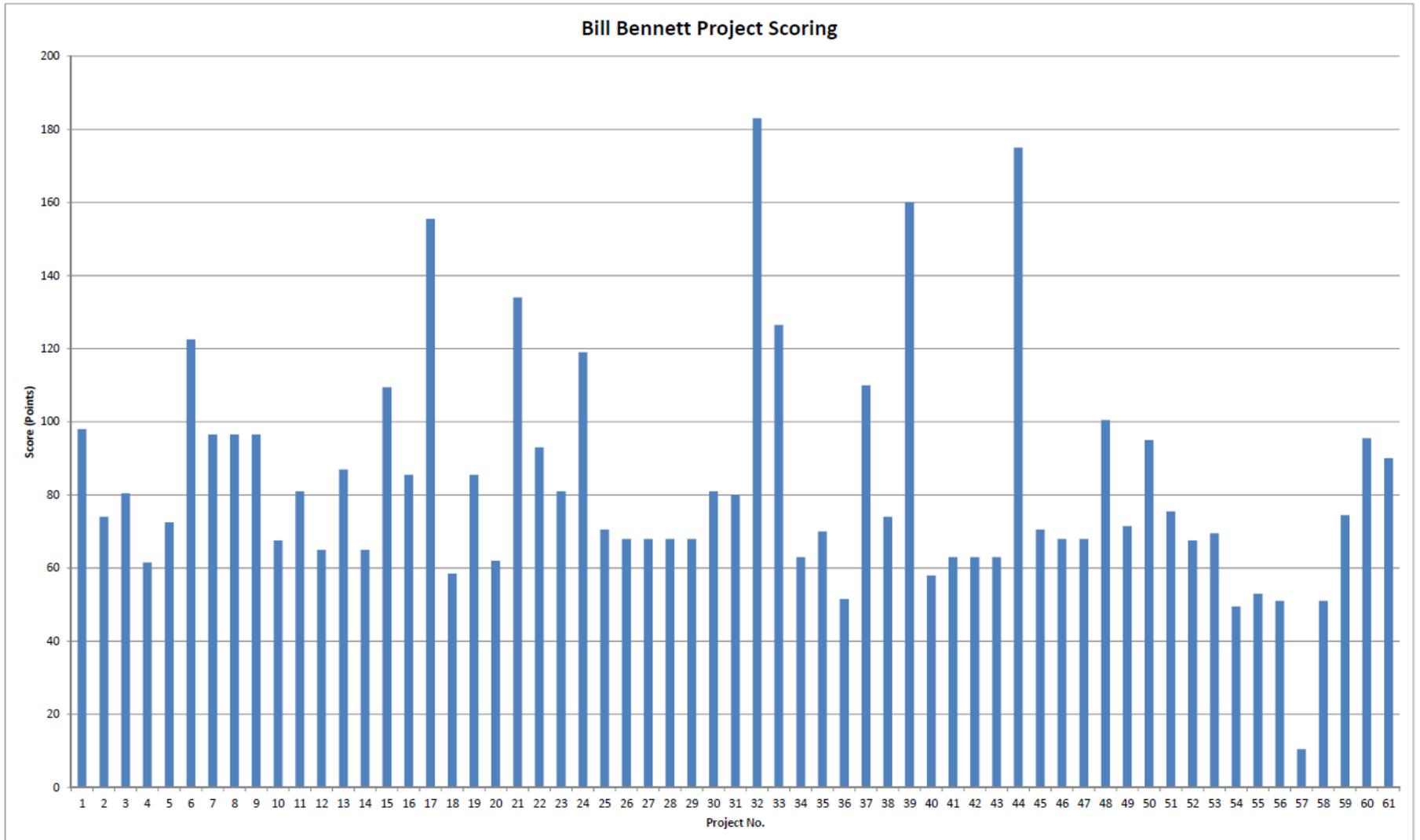
- Projects That Scored Well:
  - Multiple Benefits
  - Regional or Multiple Agencies
  - Water Quality/Storm Water (multiple goals)
- Projects Not Scoring As Well
  - Single Purpose
  - One City
  - No Cost Estimates or Environmental work done
  - No Details



# Observations

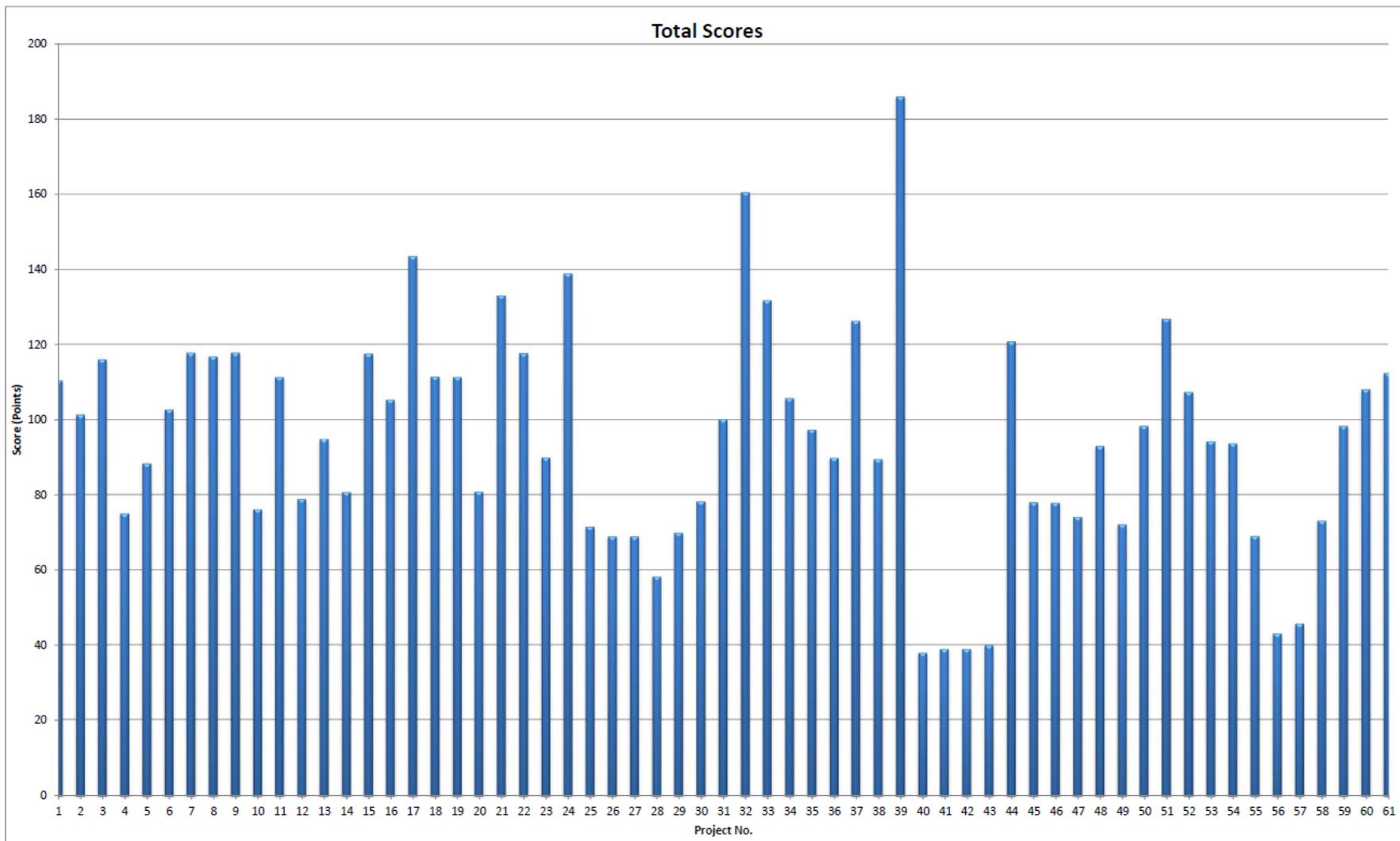
- Some Projects needed more information; not ready
  - Need *Feasibility Study* or *Design* first
  - Probably should modify project
- Some stretching of benefits...
- Couple projects increased water demand...
- Other
  - “Economic Development Benefits” – means it improves the economics of the neighborhood, etc. not is it economically feasible....

# Project Ranking





# Project Ranking



# 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



# Projects

<b>ID</b>	<b>Project Title</b>	<b>Submitting Agency</b>
4	Groundwater Well Supple Reliability Project	City of Signal Hill
5	Hermosillo Park Well - Well No. 9 and water mains	City of Norwalk
11	New Groundwater Well	City of Downey
12	New Water Well	City of Paramount
14	New Water Well	City of Paramount
31	Well 21 Conversion Project	City of Vernon
49	Production Well 22	City of Vernon
55	Well 25 Replacement	City of South Gate



# Projects

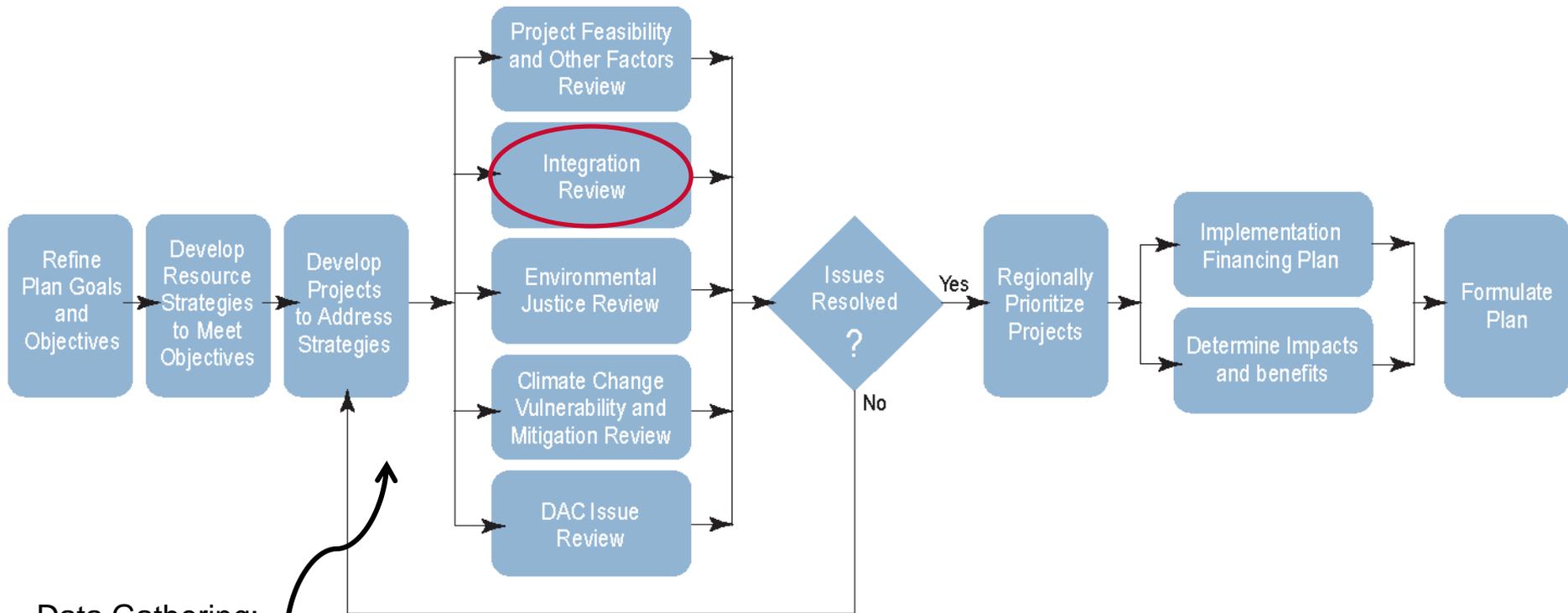
<b>ID</b>	<b>Project Title</b>	<b>Submitting Agency</b>
25	Storm Drain Improvement Project Zone 4	City of Paramount
26	Storm Drain Improvement Project Zone 2	City of Paramount
27	Storm Drain Improvement Project Zone 3	City of Paramount
28	Storm Drain Improvement Project Zone 6	City of Paramount
29	Storm Drain Improvement Project Zone 7	City of Paramount
30	Storm Drain Improvements in the City of La Mirada	City of La Mirada
45	57th Street Storm Drain Improvement Project	City of Vernon
46	55th Street Storm Drain Improvement Project	City of Vernon
56	Storm Drain Improvements- The Manor and Salt Lake and Wood Avenues.	City of South Gate



# Projects

<b>ID</b>	<b>Project Title</b>	<b>Submitting Agency</b>
6	Installation of Catch Basin - Screening Devices (ARS/CPS)	City of Norwalk
24	Bellflower NPDES Permit and TMDL Compliance Stormwater I	City of Bellflower
33	Catch Basin Trash Inserts and Face Plate Screens	City of Downey
48	Vernon Catch Basin Trash Inserts and Face Plate Screen Project	City of Vernon
17	Outfall Monitoring	City of Downey
50	Vernon Outfall Monitoring Project	City of Vernon

# IRWMP Development Process:



Data Gathering:

Water balance  
Storm water Issues  
Water quality data  
Review groundwater  
monitoring

# 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.



# Prioritizing Projects..??

- Required to be included in IRWMP's
- Alternatives and recommendations in the report
- Not directly for grants.
  - Proposed grant projects must be in the plan, but projects do not need to be only top of the list
  - Implementation grant applications coming
  - Grant opportunities will depend on readiness of individual projects



**Questions?**



# Greater LA IRWMP

- Preparing and 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	<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 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.</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 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.</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, 20 homes have received graywater installations.</p> <p>This planning project would:</p> <ol style="list-style-type: none"> <li>(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.</li> <li>(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.</li> <li>(3) Monitor existing 36 pilot program installations and fix issues as needed.</li> </ol> <p>A total of 108 properties will be retrofit and will save approximately 1.9 AFY of potable water.</p>	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?**





# Next Steps

- *Complete Project Review and Ranking*
  - Adopt Project List
  - Financing Options
  - Draft Plan Write-up
  - Follow-up on In-Kind Timesheets
- 
- **Next Stakeholders Meeting December 13**



**Questions?**