XI. Program Preferences

Program Preferences Met by Proposal

The projects included in this Proposal meet five of the eight Program Preferences identified in the Proposition 84 & Proposition 1E IRWM Guidelines and many of the projects meet more than one of the Program Preferences. This attachment details the specific Program Preferences that are met by each of the projects, the certainty that the Proposal will assist in meeting the Program Preferences, and the breadth and magnitude to which the Program Preferences will be met. Table 11-1, below, lists the name of each project and identifies those Program Preferences to which the Proposal would assist in meeting.

Table 11-1: Assist in Meeting Program Preferences

#	Project	Assist in Meeting Program Preferences				
		Include Regional Projects or Programs	Integrates Projects within an Identified Region or IRWM Subregion	Contribute to Attainment of one or more CALFED objectives	Address Critical Water Supply or Quality Needs of DAC	Address Statewide Priorities
1	Hahamongna Basin Multi-Use Project	✓		✓	✓	✓
2	Citywide Smart Irrigation Control System and Recycled Water Improvements			✓		✓
3	Storm Drain Improvements and Installation of Infiltration Chambers on Hawthorne Blvd					✓
4	Penmar Water Quality and Runoff Reuse		✓	✓		✓
5	Model Equestrian Center					✓
6	16th St. Watershed Runoff Use Project		✓	✓		✓
7	Surface Water Treatment Plant Improvements		✓	✓		✓
8	Central LA County Regional Water Recycling Program	✓	✓	✓		✓
9	Tujunga Spreading Grounds Enhancements Project	✓		✓	✓	✓
10	San Antonio Spreading Grounds Improvements			✓		✓
11	Leo J. Vander Lans Advanced Water Treatment Plant Expansion		✓	✓		✓
12	Whittier Narrows Conservation Pool Project		✓	✓		✓
13	Water and Energy Efficiency in the Schools and Hotel/Motel Sectors			✓		✓

One of the Program Preferences is "Contributes to Attainment of one or more CALFED Objectives" and as there are several CALFED Objectives, Table 11-2 identifies which elements of the Proposal would contribute to attainment of specific CALFED objectives.

Table 11-2: Contribute to Attainment of CALFED Objectives

#	Project	Contribute to Attainment of CALFED Objectives				
		Maximize Use of Available Water Supplies	Increase Flexibility through Improved Conveyance, Storage and Water Project Operations	Develop Groundwater and Surface Water Storage	Reduce Water Demand through "Real Water" Conservation	Promote Collaboration and Integration among Community Based Watershed Efforts
1	Hahamongna Basin Multi-Use Project	✓	✓	✓		✓
2	Citywide Smart Irrigation Control System and Recycled Water Improvements	✓			✓	
3	Storm Drain Improvements and Installation of Infiltration Chambers on Hawthorne Blvd	✓		✓		
4	Penmar Water Quality and Runoff Reuse	✓	✓		✓	
5	Model Equestrian Center					✓
6	16th St. Watershed Runoff Use Project	✓	✓		✓	
7	Surface Water Treatment Plant Improvements	✓				
8	Central LA County Regional Water Recycling Program	✓	✓		✓	
9	Tujunga Spreading Grounds Enhancements Project	✓	✓	✓		
10	San Antonio Spreading Grounds Improvements	✓	✓	✓		
11	Leo J. Vander Lans Advanced Water Treatment Plant Expansion	✓	✓	✓		
12	Whittier Narrows Conservation Pool Project	✓	✓	✓		

Table 11-2: Contribute to Attainment of CALFED Objectives

#	Project	Contribute to Attainment of CALFED Objectives				
		Maximize Use of Available Water Supplies	Increase Flexibility through Improved Conveyance, Storage and Water Project Operations	Develop Groundwater and Surface Water Storage	Reduce Water Demand through "Real Water" Conservation	Promote Collaboration and Integration among Community Based Watershed Efforts
13	Water and Energy Efficiency in the Schools and Hotel/Motel Sectors	✓			✓	

One of the Program Preferences is to "Address Statewide Priorities" and all of the projects in this Proposal address one or more Statewide Priorities, as detailed in Table 11-3 below.

Table 11-3: Address Statewide Priorities

#	Project	Address Statewide Priorities					
		Drought Preparedness	Use and Reuse Water More Efficiently	Expand Environmental Stewardship	Practice Integrated Flood Management	Protect Surface Water Quality and Groundwater Quality	Ensure Equitable Distribution of Benefits
1	Hahamongna Basin Multi-Use Project	✓	✓	✓	✓	✓	✓
2	Citywide Smart Irrigation Control System and Recycled Water Improvements	✓	✓			✓	
3	Storm Drain Improvements and Installation of Infiltration Chambers on Hawthorne Blvd	✓	✓		✓	✓	
4	Penmar Water Quality and Runoff Reuse	✓	✓		✓	✓	
5	Model Equestrian Center					✓	
6	16th St. Watershed Runoff Use Project	✓	✓				
7	Surface Water Treatment Plant Improvements	✓	✓				✓
8	Central LA County Regional Water Recycling Program	✓	✓				✓

Table 11-3: Address Statewide Priorities

#	Project	Address Statewide Priorities					
		Drought Preparedness	Use and Reuse Water More Efficiently	Expand Environmental Stewardship	Practice Integrated Flood Management	Protect Surface Water Quality and Groundwater Quality	Ensure Equitable Distribution of Benefits
9	Tujunga Spreading Grounds Enhancements Project	✓			✓	✓	✓
10	San Antonio Spreading Grounds Improvements	✓				✓	
11	Leo J. Vander Lans Advanced Water Treatment Plant Expansion	✓	✓			✓	
12	Whittier Narrows Conservation Pool Project	✓			✓	✓	✓
13	Water and Energy Efficiency in the Schools and Hotel/Motel Sectors		✓			✓	

Projects in the Proposal would address critical water supply or water quality needs of disadvantaged communities (DACs) in the Region. A DAC is defined as a community with an annual median household income that is less than 80 percent of the statewide annual median household income. Table 11-4 lists the DAC projects and how they assist in meeting critical water supply and water quality needs.

Table 11-4: DAC Projects

DAC Project	Meeting Critical Water Supply or Quality Need
Hahamongna Basin Multi-Use Project	Hahamongna Superfund site adjacent to DAC limits the available reliable local water supply. The four groundwater wells in the area used by small mutual water companies and Pasadena Department of Water & Power to serve the local DACs are currently offline. The increased groundwater percolation in the Hahamongna Basin coupled with the ongoing construction of a new water treatment plan, are vital to long-term reliable local water supply to this DAC.
Tujunga Spreading Grounds Enhancements Project	The DAC (represented by Council District 6) surrounding this project primarily lacks open and green space. Potable water supply or water quality needs in this community have been met. However, the community lacks open and recreational space. The TSG project will bring much needed passive recreation along with open space attributes the entire community can enjoy. The community also lacks adequate street storm drains and other related infrastructure to safely treat and convey polluted stormwater runoff. The project will modify the current intake structure at TSG to divert and accept both stormwater and dry-weather flows into the sediment basin for filtering and preventing contaminants from reaching the Los Angeles Harbor.

Certainty that the Proposal will meet Program Preferences

During the selection process, the projects in the Proposal underwent extreme scrutiny; therefore, there is great certainty that the projects selected for this Proposal will meet the Program Preferences. The projects were selected based on criteria designed to address the Proposition 84 Guidelines and achieve the regional IRWM Plan objectives. Those criteria included four key components: a) technical feasibility; b) implementable within a reasonable length of time after the Grant Award Date; c) available matching funds by a sponsoring agency; and d) ability to achieve the required benefits. All the projects included in this Proposal meet the four (4) key components.

The technical feasibility component ensures that the projects will meet Program Preferences. The existing data and studies that demonstrate that the projects are technically sound and likely to be implemented are presented in Table 11-5.

Table 11.5: Existing Data and Studies

#	Project	Existing Data and Studies
1	Hahamongna Basin Multi-Use Project	Soil Suitability Analysis completed in April 2009; Biological Resources Inventory and Focused Surveys in the Arroyo Seco Canyon completed in 2008; Biological Inventory and Directed Surveys completed in June 2009; City of Pasadena CEQA document to be completed in June 2011; CEQA document being developed by CoLADPW in June 2011
2	Citywide Smart Irrigation Control System and Recycled Water Improvements	Citywide Smart Irrigation Control System Feasibility Study completed in December 2010
3	Storm Drain Improvements and Installation of Infiltration Chambers on Hawthorne Blvd	City of Hawthorne General Plan updated in 2010; City of Hawthorne Capital Improvement Plan completed in 2005; Hydrology Calculation Study completed in 2008; Storm Drain Capital Improvement Plan completed in 2009; Citywide Street Improvement Plan completed in 2009
4	Penmar Water Quality and Runoff Reuse	Project Concept Report completed 2007; Preliminary Design Report completed 2008; Geotechnical Engineering Report completed 2008; Supplemental Geotechnical Recommendations completed 2009; Geology and Soils Report Correction Letter Response completed 2009; Groundwater Quality Testing Report completed 2009; Dewatering Aquifer Testing completed 2010; Noise Impact Report Completed 2009; Air Quality Impact Assessment completed 2009; Traffic Study completed 2009; Cultural Resource Survey Report completed 2009
5	Model Equestrian Center	Geotechnical Investigation Report, completed October 2010; Palos Verdes Peninsula Coordinated Monitoring Plan completed 2010; State of California Department of Toxic Substances Control (DTSC) Fact Sheet completed 1990; DTSC Fact Sheet #9 Five Year Review of Landfill Remediation Systems completed March 2004; DTSC Fact Sheet #13 Five Year Review completed November 2009
6	16th St. Watershed Runoff Use Project	Penmar Water Quality Improvement Project CEQA Initial Study completed in May 2009; City of Santa Monica's Five Year Capital Improvement Plan completed in 2009
7	Surface Water Treatment Plant Improvements	Treatment Evaluation and Conceptual Cost Estimate Report; Tracer Study completed October 2007; Supplemental Geotechnical Recommendations Report: GPS Survey completed June 2008; Supplemental Geotechnical Recommendations Report: Geotechnical Study completed November 2008.
8	Central LA County Regional Water Recycling Program	Central Los Angeles County Regional Water Recycling Program Technical Memorandum completed November 2007; Groundwater Replenishment Technical Assessment completed June 2010

Table 11.5: Existing Data and Studies

#	Project	Existing Data and Studies
9	Tujunga Spreading Grounds Enhancements Project	Tujunga Spreading Grounds Enhancement Project Geologic Subsurface Investigation Drilling and Sampling Data Report completed May 2009
10	San Antonio Spreading Grounds Improvements	Feasibility Study of Imported Water Spreading at San Antonio Spreading Grounds completed 2005, Appendix D; TVMWD Mitigation Alternatives to Rising Groundwater Study completed 2006
11	Leo J. Vander Lans Advanced Water Treatment Plant Expansion	Feasibility Study completed in October 1999;
12	Whittier Narrows Conservation Pool Project	Los Angeles County Drainage Area (LACDA) Water Conservation and Supply Santa Fe – Whittier Narrows Dams Feasibility Study completed 2000
13	Water and Energy Efficiency in the Schools and Hotel/Motel Sectors	West Basin Water Conservation Master Plan completed 2006; West Basin Water Conservation Master Plan Update completed 2010

Breadth and Magnitude to Which Program Preferences Will Be Met

The breadth and magnitude to which the Program Preferences will be met can be gauged by the projects meeting the IRWM Plan objectives. The IRWM Plan articulated six objectives. The objectives of the Greater Los Angeles County Region IRWM Plan are as follows:

- **Improve Water Supply—**Optimize local water resources to reduce the Region's reliance on imported water through demand reduction.
- **Improve Water Quality—**Comply with water quality standards (including TMDLs) by improving the quality of urban runoff, stormwater, and wastewater.
- **Improve Water Quality—**Protect and improve groundwater and drinking water quality.
- **Enhance Habitat—**Protect, restore, and enhance natural processes and habitats.
- **Enhance Open Space and Recreation—**Increase watershed friendly recreational space for all communities.
- **Sustain Infrastructure for Local Communities—**Maintain and enhance public infrastructure related to flood protection, water resources, and water quality.

Table 11.6 provides both quantitative and qualitative data on the breadth and magnitude to which the projects meet the IRWM Plan objectives.

Table 11.6: Breadth/Magnitude to Which Objectives are Achieved

#	Project	Breadth/Magnitude to which Program Preferences will be Met				
		Include Regional Projects or Programs	Integrates Projects within an Identified (IRWM) Sub-region	Contributes to Attainment of one or more CALFED objectives	Addresses Critical Water Supply or Quality Needs of DAC	Addresses Statewide Priorities
1	Hahamongna Basin Multi-Use Project		Multi-purpose project that incorporates several previously-separate elements: enhanced flood management; groundwater recharge; water quality improvement; habitat enhancement; and improved recreational opportunities.	Maximize use of available water supplies (via increased detention of approx. 1,435 AFY of local runoff); Increased flexibility through improved flood storage (5,175 AF), and Expansion of surface water storage—for subsequent recharge.		Enhance drought preparedness (via increased recharge of approx 1,435 AFY); Expand environmental stewardship by improving floodplains and instream functions; Practice Integrated Flood Management, via implementation of a multi-benefit project that increases flood storage by 5,175 AF and also expands groundwater recharge by 1,435 AFY; Protect surface water quality and groundwater quality by installation of a restroom in a heavily-used recreational area; and ensure equitable distribution of benefits by developing multi-benefit projects with consideration of affected disadvantaged communities and vulnerable populations.
2	Citywide Smart Irrigation Control System and Recycled Water Improvements			Maximize use of available water supplies (via installation of smart irrigation controllers that reduce water demand by 110 AFY)		Enhance drought preparedness by reducing demand for imported water by 110 AFY; Use water more efficiently (by decreasing irrigation over-watering); and Protect surface water quality (by reducing dry- and wet-weather runoff from irrigated areas.
3	Storm Drain Improvements and Installation of Infiltration Chambers on Hawthorne Blvd					Enhance drought preparedness (via increased recharge of runoff); Practice Integrated Flood Management, via implementation of multi-benefit project that increases flood storage by 9 MGD and expands groundwater recharge; Protect surface water quality and groundwater quality by capturing up to 9 MGD of runoff and subsequently recharging the treated

Table 11.6: Breadth/Magnitude to Which Objectives are Achieved

#	Project	Breadth/Magnitude to which Program Preferences will be Met				
		Include Regional Projects or Programs	Integrates Projects within an Identified (IRWM) Sub-region	Contributes to Attainment of one or more CALFED objectives	Addresses Critical Water Supply or Quality Needs of DAC	Addresses Statewide Priorities
						runoff.
4	Penmar Water Quality and Runoff Reuse		The Project would capture and treat sufficient runoff to provide approx. 3.5 AFY of treated irrigation water for the nearby Marine Park in the City of Santa Monica.	Maximize use of available water supplies via the capture and treatment of runoff, decreasing water demand by 126 AFY; Increase the flexibility of water systems through improvements in storage (of 2.5 million gallons of runoff); and Reduce water demand through "real water" conservation by 126 AFY.		Enhance drought preparedness (via reuse of approx. 126 AFY of treated runoff); Practice Integrated Flood Management, via capture and treatment of up to 324 AFY of runoff and the storage and reuse of 126 AFY for irrigation; Protect surface water quality by capture and treatment of 324 AFY of dry- and wet-weather runoff.
5	Model Equestrian Center					Use and reuse water more efficiently (via capture of 0.6 AFY of runoff and wash-water for dust control); Expand environmental stewardship by improving watersheds, floodplains, and instream functions (through use of bioswales); and Protect surface water quality by modifying drainage systems to reduce pollutants and re-directing runoff to bioswales for treatment (reducing phosphorus loading by approx. 90 lbs/yr and nitrogen loading by 489 lbs/yr.
6	16th St. Watershed Runoff Use Project		The Project would utilize treated runoff generated by the Penmar Water Quality and Runoff Reuse Project in the City of Los Angeles.	Maximize use of available water supplies via use of treated runoff from the Penmar Project; and Reduce water demand by 3.5 AFY through "real water" conservation.		Enhance drought preparedness (via reuse of 3.5 AFY of treated runoff); and Protect surface water quality by reuse of 3.5 AFY of dry- and wet-weather runoff.

Table 11.6: Breadth/Magnitude to Which Objectives are Achieved

#	Project	Breadth/Magnitude to which Program Preferences will be Met				
		Include Regional Projects or Programs	Integrates Projects within an Identified (IRWM) Sub-region	Contributes to Attainment of one or more CALFED objectives	Addresses Critical Water Supply or Quality Needs of DAC	Addresses Statewide Priorities
7	Surface Water Treatment Plant Improvements			Maximize use of available water supplies via capture and treatment of 12,000 AF/Y of local water.		Enhance drought preparedness (via increased treatment of local water supplies, Protect surface water quality by improving treatment of approximately 12,000 AFY and reducing Reduce Disinfection Byproducts (DBP) by 90 ppb; and Ensure equitable distribution of benefits by implementing a project that addresses safe drinking water needs of DACs.
8	Central LA County Regional Water Recycling Program	Initiates regional expansion of Recycled Water Distribution between multiple agencies	First element of multi-phase recycled water distribution program	Maximize use of available water supplies through expanded water recycling (of 450 AFY); Increase the flexibility of water systems at the state, federal and local level through improvements in recycled water conveyance; Reduce water demand through "real water" conservation by replacing 450 AFY of potable water with recycled water.		Enhance drought preparedness by reducing demand for imported water by up to 450 AFY; and Use water more efficiently (by expanding use of recycled water).
9	Tujunga Spreading Grounds Enhancements Project	Enhances regional groundwater supply and reduces regional demand for imported water.		Maximize use of available water supplies (via capture and recharge of an additional 8,000 AFY of local runoff).		Enhance drought preparedness (via doubling annual recharge of local runoff); and Protect surface water quality and groundwater quality by capturing dry-weather runoff.

Table 11.6: Breadth/Magnitude to Which Objectives are Achieved

#	Project	Breadth/Magnitude to which Program Preferences will be Met				
		Include Regional Projects or Programs	Integrates Projects within an Identified (IRWM) Sub-region	Contributes to Attainment of one or more CALFED objectives	Addresses Critical Water Supply or Quality Needs of DAC	Addresses Statewide Priorities
10	San Antonio Spreading Grounds Improvements			Maximize use of available water supplies (via recharge of 8,250 AFY of surplus imported water); and Increase flexibility through improved conveyance (from MWD feeder to the Spreading Grounds).		Enhance drought preparedness (via increased groundwater recharge in years when surplus water is available); and Protect groundwater quality by increasing dilution of constituents in groundwater.
11	Leo J. Vander Lans Advanced Water Treatment Plant Expansion			Maximize use of available water supplies (via use of 4,500 AFY of recycled water) and improvements in groundwater quality, by reducing Turbidity by 0.42 NTU, TDS by 535 PPM, TOC by 6.87; and NDMA by 0.623		Enhance drought preparedness (via expanded use of recycled water and decreased demand for imported water); and Protect groundwater quality by maintaining seawater intrusion barrier.
12	Whittier Narrows Conservation Pool Project		This Project is a cooperative effort by the Water Replenishment District and the US Army Corps of Engineers, to implement reservoir reoperation and expand groundwater recharge.	Maximize use of available water supplies (via increased capture and recharge of 1,100 AFY of local runoff).		Enhance drought preparedness (by increasing recharge of local runoff by 1,100 AFY); and Protect surface water quality and groundwater quality by capturing and recharging additional runoff.
13	Water and Energy Efficiency in the Schools and Hotel/Motel Sectors			Maximize use of available water supplies (by reducing demand and enhancing water conservation education); and Reduce water demand through “real water” conservation (by 84 AFY).		Enhance drought preparedness (via decreased demand for imported water); and Protect surface water quality by reducing runoff from irrigated areas.