

Appendix D

Plan Projects

Projects submitted with a Long Form

Long Forms are used for projects that are deemed ready for implementation and for which detailed project information is available. These projects were scored and ranked based on established criteria.

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives							Rank
					Reduce Potable Water Demand	Increase Water Supply	Improve Water Quality	Promote Resource Stewardship/ Flooding/ Hydromodification	Climate Change Adaptation	GHG Reduction		
SC-1	Upper Santa Clara River Arundo/Tamarisk Removal Program (SCARP) Implementation	City of Santa Clarita	Santa Clara River Conservancy; Angeles National Forest; Santa Clara Invasive Weeds Task Force	\$0.5M-\$20M (Capital); \$25 - \$100k/yr over 15 years (O&M)	◆	◆	◆	◆	◆	◆	◆	1
SCVSD-1	SCVSD Automatic Water Softener Rebate and Public Outreach Program	Santa Clarita Valley Sanitation District	City of Santa Clarita; County of Los Angeles	\$1.1M/yr over 3 years (O&M)			◆				◆	2
NCWD-2	Pellet Water Softening Treatment Plant - Phase 1	Newhall County Water District	NA	\$250,000 - \$500,000 (Capital)	◆		◆	◆			◆	3
AA/BCN-1	Bouquet Canyon Creek Restoration, Control of Invasive Weeds	Agricultural Access/Bouquet Canyon Network (Currently no eligible applicant as Sponsor Agency)	Antelope Valley Resource Conservation District; Natural Resource Conservation District; Cooper Ecological Monitoring/Leathermann BioConsulting, Inc.; LA County Fire; Angeles National Forest	\$20,240 - \$52,852 (Capital); \$13,052/yr over 5 years (O&M)		◆	◆	◆	◆	◆	◆	4
SCWD-2	July 2012 Santa Clarita Water Division Water Use Efficiency Strategic Plan Water Use	Santa Clarita Water Division	Castaic Lake Water Agency; City of Santa Clarita	\$301,930-\$2,520,469 (Capital); \$62,370-	◆	◆	◆	◆			◆	5
SCVSD-2	Saugus Water Reclamation Plan - Ultraviolet Light Disinfection Facility	Santa Clarita Valley Sanitation District	Castaic Lake Water Agency	\$8M-\$14M (Capital); \$2K/yr for 20 years (O&M)	◆	◆	◆	◆				6
CLWA-3	Santa Clarita Valley Water Use Efficiency Strategic Plan	Castaic Lake Water Agency	LACWD#36; Newhall County Water District; Santa Clarita Water Division; Valencia Water Company	\$1M-\$5M/yr over 8 years (Capital)	◆	◆	◆					7
LADPW-9	SCR South Fork Rubber Dam No. 1 and Spreading Grounds	Los Angeles County Flood Control District	NA	\$5M-\$9M (Capital); \$50K/yr over 50 years (O&M)		◆	◆	◆	◆			8
CLWA-8	Foothill Feeder Connection	Castaic Lake Water Agency	Newhall County Water District; City of Santa Clarita; LACWD#36	\$3M-\$5M (Capital); \$50K/yr over 50 years (O&M)		◆						9
SC-5	Biofiltration and Low Impact Development Retrofits	City of Santa Clarita	Los Angeles County; Castaic Lake Water Agency	\$4M-\$6M (Capital); \$200,000/yr over 15 years (O&M)	◆	◆	◆	◆	◆	◆		10

Upper Santa Clara River Integrated Regional Water Management Plan
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Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives							Rank
					Reduce Potable Water Demand	Increase Water Supply	Improve Water Quality	Promote Resource Stewardship	Flooding/ Hydromodification	Climate Change Adaptation	GHG Reduction	
SC-6	Septic to Sewer Retrofit Project	City of Santa Clarita	NA	\$25M-\$35M (Capital); unknown O&M		◆	◆	◆				11
CLWA-7	Castaic Conduit	Castaic Lake Water Agency	NA	\$14,910,000-\$16M (Capital); \$5,000/yr (O&M)		◆						12
CLWA-10	Distribution System - RV-2 Modification	Castaic Lake Water Agency	NA	\$2,880,000-\$3,200,000 (Capital); \$5,000/yr (O&M)		◆						13
CLWA-9	West Saugus Formation Groundwater Resources Monitoring Project	Castaic Lake Water Agency	NA	\$628,675			◆	◆				14
NCWD-1	Santa Clara River – Sewer Trunk Line Relocation Phase II and III	Newhall County Water District	NA	\$2,500,000 - \$4,000,000 (Capital); \$30K/yr over 50 years (O&M)		◆	◆	◆				15
NCWD-3	Santa Clarita Valley Residential Turf Removal Program	Newhall County Water District	Castaic Lake Water Agency; Santa Clarita Water Division; Valencia Water Company; LA County Waterworks #36	625000 (Capital); \$312,500/yr over 2 years (O&M)	◆				◆			16
CLWA-11	Santa Clarita Valley Volatile Organic Carbon Groundwater Investigation	Castaic Lake Water Agency	Newhall County Water District; City of Santa Clarita; LACWD#36	\$250,000-\$5M (Capital)			◆	◆				17

Projects submitted with a Short Form

Short Forms are used for projects that are primarily in a conceptual phase and not deemed ready for implementation. These projects were not scored or ranked.

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives						
					Reduce Potable Water Demand	Increase Water Supply	Improve Water Quality	Promote Resource Stewardship	Flooding/ Hydromodification	Climate Change Adaptation	GHG Reduction
AA/BCN-2	Feasibility of Arundo Stem Cutting Ram (ASCR)	Agricultural Access/Bouquet Canyon	NA	<\$100K		◆		◆	◆		◆
CLWA-1	Irrigation Efficiency Program	Castaic Lake Water Agency	NA	\$100K-\$1M	◆					◆	
CLWA-2	Water Use Efficiency Certification	Castaic Lake Water Agency	NA	\$100K-\$1M	◆					◆	
CLWA-4	ESFP Sludge Collection System	Castaic Lake Water Agency	NA	\$1M-\$1M		◆	◆				
CLWA-5	Saugus Formation Replacement Wells	Castaic Lake Water Agency	NA	\$1M-\$10M		◆		◆			
CLWA-6	Santa Clarita Valley Drought Relief Wells	Castaic Lake Water Agency	NA	\$1M-\$1M		◆					
CLWA-12	Update Rio Vista WTP Education Model	Castaic Lake Water Agency	NA	<\$100,000	◆			◆		◆	
LACWD36-1	Advanced Meter Infrastructure	LACWD#36	NA	<\$100,000	◆						
LACWD36-2	Cash for Grass Rebate Program	LACWD#36	NA	<\$100,000	◆						
LACWD36-3	Landscape Irrigation Efficiency Program	LACWD#36	NA	<\$100,000	◆						
LACWD36-4	Apam and Bayfield Water Main	LACWD#36	NA	\$100K-\$1M		◆					

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					Reduce Potable Water Demand	Increase Water Supply	Improve Water Quality	Promote Resource Stewardship	Flooding/ Hydromodification	Climate Change Adaptation	GHG Reduction	
LACWD36-5	Hasley Canyon Road Water Main, Turnout Connection, and Pump Station Project	LACWD#36	NA	\$1M-\$10M		◆						
LACWD36-6	Replacement of 8-inch Water Main along Del Valle Road	LACWD#36	NA	\$100K-\$1M		◆						
LADPW-1	Lower San Francisquito Spreading Grounds	Los Angeles County Flood Control District	NA	\$3M-\$6M (Capital); \$25K/yr over 50 years (O&M)		◆	◆	◆	◆			
LADPW-2	Newhall Creek In-River Spreading Grounds	Los Angeles County Flood Control District	NA	\$2M-\$5M (Capital); \$25K/yr over 50 years (O&M)		◆	◆	◆	◆			
LADPW-3	Placerita Creek Off-River Spreading Grounds	Los Angeles County Flood Control District	NA	\$3M-\$7M (Capital); \$25K/yr over 50 years (O&M)		◆	◆	◆	◆			

Upper Santa Clara River Integrated Regional Water Management Plan
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					Reduce Potable Water Demand	Increase Water Supply	Improve Water Quality	Promote Resource Stewardship	Flooding/ Hydromodification	Climate Change Adaptation	GHG Reduction	
LADPW-4	Santa Clara In-River Spreading Grounds No. 1	Los Angeles County Flood Control District	NA	\$4M-\$7M (Capital); \$25K/yr over 50 years (O&M)		◆	◆	◆	◆			
LADPW-5	Santa Clara In-River Spreading Grounds No. 2	Los Angeles County Flood Control District	NA	\$2M-\$5M (Capital); \$25K/yr over 50 years (O&M)		◆	◆	◆	◆			
LADPW-6	Santa Clara Off-River Spreading Grounds	Los Angeles County Flood Control District	NA	\$4M-\$7M (Capital); \$25K/yr over 50 years (O&M)		◆	◆	◆	◆			
LADPW-7	Santa Clara River Rubber Dam No.1	Los Angeles County Flood Control District	NA	\$5M-\$7M (Capital); \$25K/yr over 50 years (O&M)		◆	◆	◆	◆			
LADPW-8	Santa Clara River Spreading Grounds	Los Angeles County Flood Control District	NA	\$7M-\$10M (Capital); \$25K/yr over 50 years (O&M)		◆	◆	◆	◆			
LADPW-10	SCR South Fork Rubber Dam No. 2	Los Angeles County Flood Control District	NA	\$5M-\$7M (Capital); \$25K/yr over 50 years (O&M)		◆	◆	◆	◆			

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					Reduce Potable Water Demand	Increase Water Supply	Improve Water Quality	Promote Resource Stewardship	Flooding/ Hydromodification	Climate Change Adaptation	GHG Reduction
LADPW-11	SCR South Fork Rubber Dam No. 3	Los Angeles County Flood Control District	NA	\$5M-\$7M (Capital); \$25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-12	SCR South Fork Rubber Dam No. 4	Los Angeles County Flood Control District	NA	\$5M-\$7M (Capital); \$25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-13	Upper San Francisquito Spreading Grounds	Los Angeles County Flood Control District	NA	\$3M-\$6M (Capital); \$25K/yr over 50 years (O&M)		◆	◆	◆	◆		
NCWD-4	Recycled Water Onsite Conversion	Newhall County Water District	NA	\$100K-\$1M	◆					◆	
NCWD-5	Advanced Metering Infrastructure Program	Newhall County Water District	NA	\$1M-\$10M	◆	◆		◆			◆
SC-2	Upper Santa Clara River Arundo/Tamarisk Removal Program (SCARP) Implementation	City of Santa Clarita	Forest Service; Santa Clara River Conservancy	\$1M-\$10M	◆	◆	◆	◆	◆	◆	◆
SC-3	City of Santa Clarita Biofiltration and Low Impact Development Retrofits	City of Santa Clarita	NA	\$1M-\$10M	◆	◆	◆		◆	◆	
SC-4	Septic to Sewer Retrofit Project	City of Santa Clarita	NA	>\$10M		◆	◆	◆			

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					<i>Reduce Potable Water Demand</i>	<i>Increase Water Supply</i>	<i>Improve Water Quality</i>	<i>Promote Resource Stewardship</i>	<i>Flooding/ Hydromodification</i>	<i>Climate Change Adaptation</i>	<i>GHG Reduction</i>
SCEEC-1	Linking SCEEC to the Upper Santa Clara River IRWMP	Santa Clarita Environmental Education Consortium	NA	<\$100K	◆		◆	◆	◆	◆	
SCWD-1	Advanced Metering Infrastructure Program	Santa Clarita Water Division	NA	\$1M-\$10M	◆	◆		◆			◆
SCWD-3	GIS Development and Implementation	Santa Clarita Water Division	NA	\$1M-\$10M		◆	◆				◆
VWC-1	Regional High Resolution GIS Mapping	Valencia Water Company	NA	\$100K-\$1M				◆			
VWC-2	Valleywide Conservation Database	Valencia Water Company	NA	<\$100K	◆			◆		◆	
VWC-3	Advanced Metering Infrastructure Program	Valencia Water Company	NA	\$1M-\$10M	◆	◆		◆			◆
VWC-4	CII Consevation Plan	Valencia Water Company	NA	<\$100K	◆					◆	

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

City of Santa Clarita

Agency / Organization / Individual Address:

23920 Valencia Blvd.
Santa Clarita, CA 91355

Possible Partnering Agencies:

Santa Clara River Conservancy, Angeles National Forest, Santa Clara River Invasive Weeds Task Force

Name: *

Heather Merenda

Title:

Environmental Programs Coordinator/Sustainability Planner

Telephone: *

661-284-1413

Fax:

661-255-4356

Email: *

hmerenda@santa-clarita.com

Website:

www.santa-clarita.com
www.greensantaclarita.com
www.vcrcd.org/scarp.cfm
<http://ucanr.org/sites/SCRIWTF/>

Project Name: *

Upper Santa Clara River Arundo/Tamarisk Removal Program (SCARP) Implementation

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude. (approximate near Bouquet Canyon Rd and Santa Clara River)

Project Latitude:

Project Longitude:

Location Description:	The entire upper Santa Clara River Watershed is part of the work. However, the more recent work is two fold – one area is the City owned river property that served as a demonstration site. This is 297 acres of Santa Clara River roughly between Bouquet Canyon Road and the 5 freeway. The second effort really encompasses the entire upper Santa Clara River region, including Angeles National Forest and tributaries to the Santa Clara River
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Angeles National Forest
• Santa Clara River Conservancy
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

new phase, expansion

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>The City of Santa Clarita, Angeles National Forest, and other stakeholders are implementing an environmentally beneficial project in the upper Santa Clara River watershed including its tributaries (~16,300 acres) – the Upper Santa Clara River Arundo/Tamarisk Removal Plan (SCARP). Restoration of riparian habitat, increase of water quantity, improvement of water quality, and reduction of flood/wildfire hazard will be accomplished through the removal of invasive plant species, some of which have colonized in large extents of the Upper Santa Clara River watershed. The primary species of concern are arundo (<i>Arundo donax</i>) and tamarisk (<i>Tamarix</i> spp.).</p> <p>The harmful effects of invasive non-native plants such as arundo and tamarisk are well documented. In fact, the removal of arundo and other non-native invasive plants is a priority task for several regulatory agencies in Southern California. Invasive weed infestations are most effectively addressed on a regional scale and done systematically over a period of many years. Since most invasive plants are spread via travel downstream, it is important to begin in the uppermost reaches of the watershed and work down.</p> <p>Both arundo and tamarisk are officially recognized as undesirable invasive plants. Both plants are listed as 'A-1' invaders (the most invasive and widespread wildland pest plants) by the California Invasive Plant Council and as noxious weeds by the California Department of</p>

Food and Agriculture (CDFA). While the degree and specifics of problems associated with these species vary, general negative effects associated with the establishment of arundo and tamarisk within the watershed include the following:

- **Water Quality:** Reduction in the shading of surface water, thereby resulting in reduction of bank-edge river habitats, higher water temperature, lower dissolved-oxygen content, raised pH, and conversion of ammonia to toxic unionized ammonia, chloride salt deposition; Arundo also serves to collect and increase trash.
- **Water Supply:** Loss of surface and groundwater through heavy consumption and rapid transpiration.
- **Flooding:** Obstruction of flood flows with associated damage to public facilities including bridges and culverts, and to private property such as important farmland.
- **Erosion:** increased erosion of streambanks, associated damage to habitats and farmlands due to channel obstructions, and decreased bank stability associated with shallow-rooted arundo.
- **Fire Hazards:** Substantially increased danger of wildfire occurrences, intensity, and frequency, and a decrease in the role riparian areas infested with arundo play as firebreaks or buffers.
- **Native Habitats:** Displacement of critical riparian habitat through monopolization of soil moisture by dense monocultures of arundo and tamarisk.
- **Native Wildlife:** Reduction in diversity and abundance of riparian-dependent wildlife due to decreased habitat quality, loss of food and cover, and increased water temperatures.
- **Threatened and Endangered Species:** Substantial reductions in suitable habitat available for state and federally listed species such as the least Bell's vireo, southwestern willow flycatcher, yellow-billed cuckoo and red-legged frog.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

Part 3. Project Description

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.*

The SCARP implementation project will focus on removal of non-native invasive species, primarily arundo, from the sites identified in the planning phase. The current estimate is approximately 1,500 acres. However, since the SCARP implementation is a long-term project with extensive costs and logistical issues.

The project will consist of two phases. The first phase included the initial treatment of the arundo, which includes biomass removal and herbicide application on the demonstration site. Arundo may be ground in place with mechanical equipment such as a brush grinder (where appropriate), or removed by manual means employing tools such as chain saws and brush cutters. Upon removal of the target vegetation, appropriate aquatically approved herbicide will be applied. In areas where mechanical vegetation grinding is to occur, arundo will be allowed to resprout to a height of 2 to 3 feet, and herbicide will be applied via foliar spray. In areas where manual removal is to occur, herbicide will be applied immediately to the cut stumps via daubing or painting. Foliar application of herbicide may also occur on stands where appropriate. In addition to arundo, other invasive plants may be removed, if applicable. The second phase is a diligent monitoring and maintenance program to facilitate retreatments and avoid re-infestation of the site and expanding to additional areas of the upper Santa Clara River.

The second phase, which has begun, expands these efforts beyond arundo and the demonstration site. Private property owners in Bouquet Canyon have collaborated to start addressing the arundo in that tributary. Angeles National Forest has an Environmental Assessment for public comment and plans to remove arundo from Bouquet Creek and San Francisquito Creek. There are City owned properties that this second phase will focus on. The next phase addresses tamarisk and other plants identified in the SCARP document. In addition, once arundo has had initial treatment, a different management technique is required.

As arundo contains significant energy resources in its root structure, it is difficult to eradicate it in a single treatment phase. Therefore, this project proposal also includes a long-term maintenance period for each site after initial treatment. During this time, retreatments of herbicide will be applied regularly to exhaust the belowground resources of the plant and lead to its elimination from the treatment area. Project reconnaissance visits to areas upstream of the treatment area indicate that significant arundo populations do not exist above the site. As potential for re-infestation from upstream sources is thus low, it is expected that in five years, arundo will be eradicated from the project site, and significant growth of native riparian vegetation will be achieved. Frequent monitoring of the site will ensure that any changes in the site, such as additional arundo resprouts, will be treated in a timely manner.

In addition to removal of noxious weeds, this project contains a potential restoration

component. Monitoring of the site will indicate if revegetation is necessary. Native species common to the site such as willows (*Salix sp.*) and mule fat (*Baccharis salicifolia*) reestablish readily through natural recruitment once competition from non-native species is removed. However, it may be determined that certain areas within the site require more rapid enhancement than natural recruitment can provide. This would be accomplished through the installation of willows (*Salix sp.*) and mule fat (*Baccharis salicifolia*) cuttings, as appropriate.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

•	Santa Clara River
•	alluvial groundwater under the Santa Clara
•	
•	

Please identify up to three available documents which contain information specific to the proposed project:

•	Santa Clara River Watershed Arundo and Tamarisk Removal Plan Long Term Implementation Plan
•	Santa Clara River Watershed Arundo and Tamarisk Removal Plan Santa Clarita Site Specific Plan
•	Santa Clara River Watershed Arundo and Tamarisk Removal Plan Environmental Impact Report

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p><u>_____ reduces the environmental water demand from the Santa Clara River which is 50% of the SCV water supply</u></p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p><u>The supply of water is increased for other uses because the arundo and tamarisk demand much more water than native riparian forest</u></p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p><u>Tamarisk is a source of chloride, as it drops chloride from its leaves to the surface, which is picked up by rain and other flows. The reduction in shade increases water temperature resulting in higher chance of algal blooms</u></p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p><u>Arundo and tamarisk take over native habitat, destroying native flora and fauna. Arundo infestation use so much water they desiccate ponds of water that stickleback depend on.</u></p>
<p>Flooding/Hydromodification</p>	<p><u>Large stands of arundo create a flooding hazard and can cause severe erosion from the large mats of roots that hold the stands of arundo in place</u></p>
<p>Climate Change Adaptation</p>	<p><u>During the summer months, arundo turns into a dry straw. It is a fire hazard, as firefighters direct fires to the Santa Clara River as a fire break. Dry arundo actually spreads fire. California projects a higher number and bigger intensity of wildfires.</u></p>
<p>Climate Change Prevention</p>	<p><u>Increased local water supplies reduce the energy needed to pump water from northern California.</u></p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): <u>Reduce Delta demand</u>
Increase Water Supply			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): <u>Reduced environmental water</u>
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Matching Quality to Use
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Salt and Salinity Management
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) <u>water temperature and algae</u>

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Please State: <u>fire management</u>

Is the proposed project an element or phase of a regional or larger program?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, please identify the program	<u>Santa Clara River Watershed Arundo and Tamarisk Removal Plan</u>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	<u>complete</u>	<u>July 1, 2006</u> (mm/dd/yyyy)
Feasibility Study	<u>complete</u>	<u>July 1, 2006</u> (mm/dd/yyyy)
Preliminary Design and Cost Estimates	<u>complete</u>	<u>July 1, 2006</u> (mm/dd/yyyy)
CEQA/NEPA	<u>complete</u>	<u>February 1, 2006</u> (mm/dd/yyyy)
Permits	<u>regional permits complete</u>	<u>various 2006</u> (mm/dd/yyyy)
Construction Drawings	<u>_____</u>	<u>_____</u> (mm/dd/yyyy)
Funding	<u>_____</u>	<u>_____</u> (mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

All permits have been secured, or have enough of a history that the project permitting would not be extensive. The project is focusing on the overall area and tributaries, as well as secondary cutting and management

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

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Does the project address any known environmental justice issues? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Sure
Is the project located within or adjacent to a disadvantaged community? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Sure
Does the project include disadvantaged community participation? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Sure
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input checked="" type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input checked="" type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input checked="" type="checkbox"/>	Promotes Water Quality Protection
<input checked="" type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input checked="" type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State: fire management and reduction
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input checked="" type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input checked="" type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input checked="" type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input checked="" type="checkbox"/> Other (Please State): preserves ponding water that is stickleback habitat
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input checked="" type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input checked="" type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): \$1,000,000

Upper estimated total capital cost (\$): \$20,000,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):
0

Annual Operation and Maintenance Cost (\$): 100,000

Design Life of Project (years): 15

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

[Santa Clarita Valley Sanitation District](#)

Agency / Organization / Individual Address:

[1955 Workman Mill Road](#)
[Whittier, CA 90601](#)

Possible Partnering Agencies:

Name: *

[Francisco Guerrero](#)

Title:

[Project Engineer](#)

Telephone: *

[562-908-4288 x 2832](#)

Fax:

[562-908-4293](#)

Email: *

FGuerrero@lacs.org

Website:

www.lacs.org

Project Name: *

[SCVSD Automatic Water Softener Rebate and Public Outreach Program, Enforcement Phase](#)

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude:

[34.41983951](#)

Project Longitude:

[-118.54102332](#)

Location Description:	Santa Clarita Valley Sanitation District Service Area
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

<ul style="list-style-type: none"> • City of Santa Clarita
<ul style="list-style-type: none"> • County of Los Angeles
<ul style="list-style-type: none"> •
<ul style="list-style-type: none"> •

Project Status (e.g., new, ongoing, expansion, new phase):

New phase

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>The Santa Clarita Valley Sanitation District (Sanitation District) operates two water reclamation plants (WRPs) in the Santa Clarita Valley, the Saugus and Valencia WRPs, along with more than thirty miles of Sanitation District's operated trunk lines and one pumping plant. The Saugus and Valencia WRPs discharge treated wastewater into the Upper Santa Clara River, which contain chloride in excess of the water quality objective for the upper Santa Clara River of 100 mg/L. In 2002, the California Regional Water Quality Control Board, Los Angeles Region first adopted the Upper Santa Clara River Chloride Total Maximum Daily Load, which was subsequently revised most recently under Resolution No. R4-2008-012, requiring the Sanitation District to reduce chloride levels in the discharges from the WRPs.</p> <p>The Sanitation District has conducted a ground breaking, nationally recognized source control program for chloride in the Santa Clarita Valley. Because automatic water softeners (AWS), also known as self-regenerating water softeners, have been the largest controllable source of chloride, the source control efforts have focused on the removal of these units. However, Sanitation District efforts to reduce chloride sources have also focused on the industrial sector, commercial sector, hauled waste, and treatment plant operations.</p> <p>The Santa Clara River Chloride Reduction Ordinance of 2008 (Ordinance) was approved by voters and took effect on January 1, 2009. The Ordinance required the removal and disposal of all existing residential AWS by June 30, 2009. Over 7,900 AWS have been removed, but approximately 500 may still be discharging and several thousand may still be installed. The goal of the Enforcement Phase of the Automatic Water Softener Rebate and Public Outreach Program is to remove the remaining automatic water softeners in the Sanitation District's service</p>

area, and thereby reduce the chloride load in the District's final effluent and recycled water at the Saugus and Valencia WRPs by up to 5 mg/L. Reducing the chloride load in the Sanitation District's final effluent from the remaining automatic water softeners will minimize the size and operation of future chloride compliance facilities and help comply with the Upper Santa Clara River Chloride Total Maximum Daily Load.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The Sanitation District's Automatic Water Softener Rebate and Public Outreach Program, Enforcement Phase will focus on removing the remaining automatic water softeners in the Santa Clarita Valley. The program will consist of home inspections, issuing Notices of Violations to residents that still have their automatic water softeners, issuing rebates to residents that remove their automatic water softeners, chloride monitoring, and public outreach.

The Sanitation District has already sent letters to residents suspected of having automatic water softeners to inform them that the ordinance requires them to remove the units. The Sanitation District intends to launch a pilot scale home inspection program, begin public outreach and conduct additional chloride monitoring in the near future. The program has already been approved by the Sanitation District's Board of Directors and is ready to proceed.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River

<ul style="list-style-type: none"> • Santa Clara Eastern Groundwater Basin
<ul style="list-style-type: none"> •
<ul style="list-style-type: none"> •

Please identify up to three available documents which contain information specific to the proposed project:

<ul style="list-style-type: none"> • 2011 Chloride Source Identification/Reduction, Pollution Prevention, and Public Outreach Plan, November 2011
<ul style="list-style-type: none"> • Agenda of the Special Meeting of the Board of Directors of Santa Clarita Valley Sanitation District, October 18, 2010
<ul style="list-style-type: none"> • Santa Clara River Chloride Reduction Ordinance of 2008

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>_____</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>_____</p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>The program will improve water quality by reducing the chloride loading into the Upper Santa Clara River from the Saugus and Valencia WRPs.</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>_____</p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	<p>_____</p>
<p>Take actions within the watershed to adapt to climate change</p>	<p>_____</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>The program will reduce greenhouse gas emissions by minimizing the size of future chloride compliance facilities that would otherwise be required to remove chloride from the WRP discharges.</p>
<p></p>	<p></p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention (chloride)
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Salt and Salinity Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, please identify the program	<u>Santa Clarita Valley Sanitation District Automatic Water Softener Rebate and Public Outreach Program</u>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	<u>Complete</u>	<u>10/18/2010</u> (mm/dd/yyyy)
Feasibility Study	<u>N/A</u>	<u> </u> (mm/dd/yyyy)
Preliminary Design and Cost Estimates	<u>Complete</u>	<u>10/18/2010</u> (mm/dd/yyyy)
CEQA/NEPA	<u>N/A</u>	<u> </u> (mm/dd/yyyy)
Permits	<u>N/A</u>	<u> </u> (mm/dd/yyyy)
Construction Drawings	<u>N/A</u>	<u> </u> (mm/dd/yyyy)
Funding	<u>In Process</u>	<u>07/1/2011</u> (mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

The District has sent letters to homeowners informing them of the program and is ready to proceed with home inspections, public outreach, and chloride monitoring. The project received approval to proceed from the District's Board of Directors on October 18, 2010. The Sanitation District will first conduct pilot work before finalizing approach for full enforcement program.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

The Sanitation District's goal is to remove all remaining automatic water softeners in the Santa Clara Valley Sanitation District service area. By removing these units, the Sanitation District expects to achieve a reduction in the chloride discharged from the Saugus and Valencia WRPs of approximately 5 mg/L. In addition, the publicity associated with this project is expected to prevent backsliding (residents installing and/or using illegal automatic water softeners) by keeping awareness of the chloride problem high in the community. Reducing the chloride load in the Sanitation District's WRP discharges to the river from the remaining automatic water softeners will also minimize the size of future chloride compliance facilities and help the Sanitation District comply with the Upper Santa Clara River Chloride Total Maximum Daily Load.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input type="checkbox"/>	Provides Additional Water Supply
<input checked="" type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input checked="" type="checkbox"/>	Other (Please State): Reduces energy consumption needed for future chloride compliance facilities

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 0

Upper estimated total capital cost (\$): 0

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$): 0

Annual Operation and Maintenance Cost (\$): \$1.1 million

Design Life of Project (years): 3 years

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Newhall County Water District

Agency / Organization / Individual Address:

Newhall County Water District / 23780 North Pine Street, Newhall, CA 91321

Possible Partnering Agencies:

Name: *

Steve Cole

Title:

General Manager

Telephone: *

661-259-3610

Fax:

661-259-9673

Email: *

scole@ncwd.org

Website:

www.ncwd.org

Project Name: *

Pellet Water Softening Treatment Plant —Phase 1

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°23.584

Project Longitude: 118°32.285

Location Description:	Existing Newhall Well 12/ Disinfection Facility Site 25143 Railroad Ave, Santa Clarita, CA 91321
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

•
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Newhall County Water District (NCWD) provides a blend of local groundwater from the Saugus Formation and imported State water through a Castaic Water Agency (CLWA) turnout (N-3) to the Newhall System. Local groundwater, especially from the Saugus Formation, is high in calcium and magnesium which results in high hardness. Total hardness has ranged from a low of 285 mg/L as CaCO₃ to a high of 400 mg/L as CaCO₃ from NCWD's two Saugus wells over the last 7 years. Hard water can cause several problems for customers including; spots on glasses, dishes, windows, etc., shortens the life of appliances such as, hot water heaters, dishwashers, etc., dry skin, and increased use of soaps and detergents. As a result, customers have sought to alleviate some of these problems by installing point-of-use (POU) water softeners. POU treatment devices result in an increased cost to consumers. In addition, self-regenerating water softeners produce a high chloride, brine discharge to the wastewater system and is a primary cause of treated wastewater discharged to the Santa Clara River exceeding the impending discharge limitation for chloride of 100 mg/L.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

<p>The main objective of the Pellet Softening project is to improve drinking water quality by removing calcium. This intern will reduce the consumer need for point-of-use water softeners and help reduce the amount of chloride discharged to the local Water Reclamation Plants. This would serve as Phase 1 of a 3 phase project. Phase 1 would focus on the feasibility, conceptual design, and cost estimates for the construction and operation of a Pellet Softening Treatment Facility for two (2) Saugus Wells for the NCWD- Newhall service area. A feasibility report would be prepared along with conceptual layout, and estimates for design, construction, operation and maintenance.</p>
--

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

<ul style="list-style-type: none">• Santa Clara River
<ul style="list-style-type: none">• Saugus Formation
<ul style="list-style-type: none">•
<ul style="list-style-type: none">•

Please identify up to three available documents which contain information specific to the proposed project:

<ul style="list-style-type: none">• Well Softening Feasibility Study for Valencia Water Company - by Kennedy/Jenks Consultants, Engineers, and Scientists
<ul style="list-style-type: none">• Optimal Operation of the Pellet Softening Process - by Rietveld, L.C., Van Schagen, K.M., Kramer, O.J.I., Delft University of Technology, The Netherlands
<ul style="list-style-type: none">•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>_____ Hard water contributes to the inefficiency of household appliances, increases the need for additional soaps and detergents, and contributes to the increased use of point-of-use treatment devices, all of which increase water use.</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>_____</p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>_____ The project would improve drinking water quality by reduce the amount of calcium hardness. In addition, the project would reduce the need for POU water softeners and result in a reduction in the chloride concentration discharged to the sewer.</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>_____ By eliminating the need for self-regenerating water softeners, this project would reduce chloride loading by eliminating the need for the remaining outlawed units.</p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	<p>_____</p>
<p>Take actions within the watershed to adapt to climate change</p>	<p>_____</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>_____ Currently, many customers who soften their water do so through canisters that are exchanged on a regular basis. By centralizing the water softening location, it eliminates the need for customers point-of-use softening canisters. This, in turn, would eliminate routine delivery truck stops at customers homes, ultimately reducing GHG emissions in the area.</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Salt and Salinity Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Land Use Planning and Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water-Dependent Recreation
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Feasibility Study	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Design and Cost Estimates	<u>Not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Construction Drawings	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Funding	<u>Not initiated</u>	_____ (mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

NCWD has staff with experience with the design, construction, and operation of a full-scale pellet softening treatment facility. In addition, resources are available to aid in the feasibility study, conceptual design, and cost estimates. NCWD will utilize staff resources and consultant expertise to assist with Phase 1.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

The project will provide consumers with improved water quality. The project will also reduce the need for POU water treatment devices resulting in a reduction in chloride discharged in to the sewer.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 250,000

Upper estimated total capital cost (\$): 500,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):
NA

Annual Operation and Maintenance Cost (\$): NA

Design Life of Project (years): NA

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Agriculture Access / Bouquet Canyon Network

Agency / Organization / Individual Address:

PO BOX 802622, Santa Clarita, Ca. 91380

Possible Partnering Agencies:

There four main partnering agencies involve in the Bouquet Canyon Creek Restoration. Project: 1. The *Antelope Valley Resource Conservation District*, which initially served as the administrator to our grant funds, 2. The *Natural Resources Conservation Service* which helped in GPS/GIS mapping of the invasive weed sites, 3. *Los Angeles County*, whose property lies within the project boundary and contains a large density of invasive weeds, 4. *Angeles National Forest*, whose property lies above the project boundary and contains quantities of invasive weeds.

Other contributors to the project are: 1. The *Bouquet Canyon Network*, a core group of twenty private landowners who reside within the project boundary, 2. The private biological consulting company *Cooper Ecological Monitoring / Leathermann BioConsulting, Inc.* who are responsible for protecting native plants and wildlife during project implementation, 3. *California Department of Fish & Game*, who have issue the project a Stream Alteration Agreement for a five year period.

Name: *

Roger A. Haring

Title:

Project Coordinator / CCA / QAL

Telephone: *

805-641-3781

Fax:

Email: *

rah@agricultureaccess.com

Website:

N/A

Project Name: *

Bouquet Canyon Creek Restoration: Control of Invasive Weeds

Project Latitude:

N34 29.813'

Project Longitude:

W118 27.442'

Location Description:	The project site is located within an unincorporated region of Los Angeles County, between northeast city limits of Santa Clarita (1,400' a.s.l) and southwest boundary of the Angeles National Forest (1,600' a.s.l) Geographically the project lies within the Mint Canyon Quadrangle of the USGS 7.5-minute topographical map.
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Natural Resources Conservation District (NRCS)
• Antelope Valley Resource Conservation District (AVRCD)
• LACo FIRE – Forestry Unit of Bouquet Canyon
• Bouquet Canyon Network (BCN)

Project Status (e.g., new, ongoing, expansion, new phase):

First Season of Implementation (2011-12) of Five Seasons (ending 2016).

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>The Bouquet Canyon Creek is a small tributary to the upper Santa Clara River Watershed. While most of this natural watershed is located within the Angeles National Forest (>7.0 miles), a 3.5 mile portion of the creek interfaces a contiguous group of private and county properties. Based on topographical map studies, most of the riparian region in lower portion of Bouquet Canyon Creek is designated a 500-year floodplain; as such, the management of the region is left in a natural state. However, recent natural disasters within the region; fires (2007) and flooding (2005), have significantly damaged the native ecology and has caused the contracted 5-cfs discharge from the Bouquet Canyon Reservoir to be diminished. Seasonal watershed capture through the private and county properties have been significantly reduced; thereby reducing the health of the native ecology, the recharge of wells, and loss of biodiversity due to changes in the native habitat toward invasive weed species.</p> <p>The dilemma encountered while attempting to implement a watershed project of this nature is how to accomplish the project in the face of an already flood and fire damaged ecology, confounding private property rights, and increased environmental pollution. Additional hindrances arise when environmental permits and regulation consume time and money, private property access is denied, and/or extreme climate events disturb the ecology. The main concern is how to cope with sudden environmental changes; such as flash flooding, outbreaks of fires, or high winds that can rapidly degrade a recovering native ecology.</p>

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

The Bouquet Canyon Creek Restoration project hopes to achieve three main goals: First, the reduction and control of invasive weeds (*Arundo donax*, *Nicotiana glauca*) which are known to significantly damage the ecology and private properties of the region. Second, to improve the watershed of Bouquet Canyon creek by revegetating with native plant species found within the ecology. And third, to educate the private property owners on the value of Bouquet Canyon watershed for both the anthropomorphic and ecological habitats it supports.

To accomplish the first goal, all above-ground biomass of *Arundo donax* and *Nicotiana glauca* will be physically removed by weed abatement crews. The use of an Integrate Pest Management (IPM) protocol will then target the rhizome of the weed sites in order to suppress any regrowth. This protocol includes: a) Application of a stream compatible herbicide (Glyphosate), b) Application of 500K BTU Weed Flamer, or c) Application of Opaque Tarps. The combination of biomass removal and IPM protocol may require multiple seasons to completely suppress, but once implement it will considerably enhance watershed within the riparian habitat.

To accomplish the second goal, the revegetation of various sections of the creek will take place over a series of winter seasons in order to help accelerate native plant habitat return. The three main species to used in rehabilitation of the riparian region, include: a) Mulefat (*Baccharis salicifolia*), b) Sage (*Artemesia californica*), c) Oak/Sycamore (*Quercus agrifolia* / *Platanus racemosa*). These species are selected for being endemic to the local habitat, providing multi-level canopy cover over the riparian region, and give the best opportunity for long-term recovery.

To accomplish the third goal, community outreach will take place in order to provide private property owners knowledge on the responsibilities of stewardship for riparian habitats. The education of private property owners will occur on a biannual basis to all those participating in the project. Various components of program will allow private and region technicians (LA County Fire, NRCS, CCC) to provide resources, advice, and activities to help inform landowners of ways to improve their individual riparian habitats.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Bouquet Canyon Reservoir
• Bouquet Canyon Creek Watershed
• Santa Clara River Watershed
•

Please identify up to three available documents which contain information specific to the proposed project:

• Bouquet Canyon Creek Site Specific Restoration Plan (AVRCD)
• Santa Clara River Arundo and Tamarisk Removal Plan (SCARP)
• Santa Clara River Watershed Invasive Plant Treatment Project

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>This project increases water supply by removing invasive weed populations (<i>Arundo donax</i>) that have the potential to significantly reduce surface and ground water that support private, county, and agricultural properties.</p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>This project reduces salt accumulation by removing invasive weed populations (<i>Arundo donax</i>) that can impede water flow, concentrate salts, and reduces salt dilution due to lower amounts of water volume.</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>This project increases private property knowledge of the riparian habitat, the watershed mechanism, the protection of native plants and wildlife, and the overall health of the ecology. Reduces fuel, which reduces potential fire hazard.</p>
<p>Flooding/Hydromodification</p>	<p>This project reduces flooding by removing bottle-necks in the riparian habitat, and decreases streambank erosion.</p>
<p>Climate Change Adaptation</p>	<p>This project anticipates climate adaptation by implementing a practical mechanism to restore a habitat that may become damaged to fire or flooding events.</p>
<p>Climate Change Prevention</p>	<p>This project increases biodiversity by enhancing native plant populations within a riparian region that is prone to habitat loss due to invasive weeds, anthropomorphic intervention, and natural disasters.</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): <u>Availability of surface water for both private and county properties.</u>
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Matching Quality to Use
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Salt and Salinity Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other: <i>Increase Flow Rates that flush salts downstream</i>

Practice Resource Stewardship						
<input type="checkbox"/>	Primary	<input type="checkbox"/>	Secondary	<input type="checkbox"/>	NA	Agricultural Lands Stewardship
<input type="checkbox"/>	Primary	<input type="checkbox"/>	Secondary	<input type="checkbox"/>	NA	Economic Incentives (loans, grants, water pricing)
<input checked="" type="checkbox"/>	Primary	<input type="checkbox"/>	Secondary	<input type="checkbox"/>	NA	Ecosystem Restoration
<input checked="" type="checkbox"/>	Primary	<input type="checkbox"/>	Secondary	<input type="checkbox"/>	NA	Forest Management
<input checked="" type="checkbox"/>	Primary	<input type="checkbox"/>	Secondary	<input type="checkbox"/>	NA	Land Use Planning and Management
<input type="checkbox"/>	Primary	<input type="checkbox"/>	Secondary	<input type="checkbox"/>	NA	Recharge Areas Protection
<input type="checkbox"/>	Primary	<input type="checkbox"/>	Secondary	<input type="checkbox"/>	NA	Water-Dependent Recreation
<input checked="" type="checkbox"/>	Primary	<input type="checkbox"/>	Secondary	<input type="checkbox"/>	NA	Watershed Management
<input type="checkbox"/>	Primary	<input type="checkbox"/>	Secondary	<input type="checkbox"/>	NA	Other (Please State): _____
Improve Flood Risk Management						
<input checked="" type="checkbox"/>	Primary	<input type="checkbox"/>	Secondary	<input type="checkbox"/>	NA	Flood Risk Management
Other Strategies						
<input checked="" type="checkbox"/>	Primary	<input type="checkbox"/>	Secondary	<input type="checkbox"/>	NA	Please State: Mitigate Fires Hazards / Fuel Reduction

<p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>If yes, please identify the program:</p> <p>Santa Clara River Watershed Invasive Plant Treatment Project.</p> <p>Santa Clara River Invasive Weed Task Force</p>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	<u>Completed</u>	January 2005
Feasibility Study	<u>N/A</u>	<u>N/A</u>
Preliminary Design and Cost Estimates	<u>Completed</u>	October 2009 -10
CEQA Negative Declaration # : 2011098367	<u>Completed</u>	August 2011
Permits (DFG / USFWS) Streambed Alteration Agreement # : 1600-2011-0063-R5-Revision 1 No-Take Concurrence Request: May 27, 2011	<u>Completed</u>	June 2011
GIS Mapping NRCS Landowner Conservation Plans	<u>Completed</u>	November 2011
Funding LA Weed Management Area / Wetland Recovery Program	<u>In Process</u>	August 2011

For projects that do not include construction, please briefly describe the project readiness-to proceed.

This project has accomplished planning, permits, and grant funding between 2009-2011. The project has initiated implementation of weed management and Integrated Pest Management (IPM), and revegetation in Fall 2011. The first three seasons of implementation (2011-13) will entail invasive weed management for a 3.5 mile stretch of riparian habitat. The fourth and fifth seasons (2014-16) will entail restoration of the riparian habitat on private and county properties.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This five year restoration project has initiated implementation in 2011 with the goal to control the major invasive weed species infiltrating the riparian habitat, and thereby help restore a healthy watershed within Bouquet Canyon Creek.

There are three main benefits to the local environment will be achieved by this project: The first main benefit is a long-term strategy for quickly revegetating, restoring, and mitigating damage to native plant ecologies. This is particularly critical for narrow canyon topographies that are prone to environmental damage from incimatic events (fire, flooding, wind, storms). The second main benefit is the development of a new methodology for canyon environments that must contend with mid-sized environmental disasters caused by climate change. Often local communities or neighborhoods are unable to gain access to improving their local environments because of stringent regulations, high fees associated with permits, and the lack of capacity to perform such emergency type work. This project helps streamline activities for implementing local restoration by drawing from the collective effort of private property owners and neighboring county properties. Finally, the propagation and development of local native plant seedling stocks, and having them available in quantities that can be quickly mitigate loss of vegetation after critical periods of a natural disaster. By having adequate amount of living-keystone native species ready, timely environmental recovery after natural disasters will be possible. Native watersheds will be maintained and protect for future generations.

There are also regional benefits that this project will achieve. The Bouquet Canyon Creek Restoration project is complementary to a long-term, larger invasive weed control and restoration project that is taking place in the upper watershed of the Angeles National Forest (ANF). The boundary of the Angeles National Forest (Santa Clara / Mojave Rivers Ranger District) is just north of the proposed Bouquet Canyon Creek Restoration project; and comprises of approximately 7.5 miles of riparian habitat. The objective of the ANF project is "...eradicate, control, containment, and /or suppression of existing and new infestations of invasive and non-native plant species that are undesirable, noxious, harmful, injurious, or poisonous in the Santa Clara Watershed." This regional project is termed to be completed in fifteen years. Hence, it is in the best interest of private, county, state, and federal properties to collaborate at this moment in time in the effort to remove invasive weeds from the watershed before major colonization occurs; thereby preventing native habitat degradation, and provide the best opportunity for the watershed to be restored.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: LARC RANCH

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input checked="" type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input checked="" type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input checked="" type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State: Development of Native Plant Seedling Stock for Revegetation
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input checked="" type="checkbox"/>	Promotes Habitat Protection
	<input checked="" type="checkbox"/> Establishes Migration Corridors
	<input checked="" type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input checked="" type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input checked="" type="checkbox"/>	Other (Please State): Creek provides natural evaporative cooling
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input checked="" type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input checked="" type="checkbox"/>	Other (Please State): Enhances Evaporative Cooling of Valley

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 20,240.00

Upper estimated total capital cost (\$): 52,852.49

Annual Operation and Maintenance Cost (Administration/Project Coordination) (\$): 13,052.20

Design Life of Project: 5 years

Budget Narrative: The capital investment for this project entails supporting two areas with awarded funds. The first portion of IRWMP Funds (\$26,104.00) will be used in supporting the 2012-13 season in order to continue implementation of the Bouquet Canyon Creek Restoration Project invasive weed management. The second portion of IRWMP Funds (\$26,104.00) will then be used in the 2013-14 season for accelerating the restoration of the riparian habitat, and this is the main goal of the project.

Since one of the main goals of the project is to control major invasive weed sites existing within a 3.5 mile stretch of riparian region. This first phase of the project has required a series of tasks aimed to removing biomass of non-native vegetation already established within the riparian region of the project area. The 2011-12 season initiated abatement of over twenty private and two county properties within the Bouquet Canyon tributary, and is now preparing to implement an integrated pest management program for the rootzone of those invasive weed sites.

The objective in restoring the riparian habitat of the project area entails a two-fold approach: First, educating the private and county property owners how to invest in proper native plant restoration techniques that can improve the watershed and sustain native wildlife within the region. As with any group of private landowners whose property interfaces natural resources, there is a need to share, educate, and help steward individuals on the native resources that exist in the region. It becomes a difficult process to collectively organize and coordinate a diverse group of rural landowners because each has individual property rights and management styles. It is the goal of this restoration process that a 'sense of ecological community' will develop within the region. To help instill this sense of responsibility to an 'ecological habitat' there will be outreach and education to the community on a biannual basis to all private property owners participating in the project. The educational component will comprise regional technicians (LA County Fire, NRCS, AVRCD) in order to provide advice, technical skill, and opportunities for private property owners to come together, meet, and discuss local natural resource needs.

Secondly, implementation and use of a new plant palette and restoration protocol. This new plant palette consists of propagating three complementary species of native plants: Mulefat (*Baccharis* sp.), Sage (*Artemisia* sp.), and Oak (*Quercus* sp.) in manner that when planted together will be complementary to each other; helping them to quickly establish and grow. This new plant palette will be created and packaged in the form of what is termed: Native Plant Seedling Mixtures (NPSM). The NPSM technology comprises of a group of complementary native plants that mimic the natural ecosystem, and thus allows them to quickly form an ecological niche within the landscape. The advantage of the NPSM technology is that when a region has become degraded or disturbed by fire, flooding, non-native plants, or pollutants it will be more likely to return to a native ecology if planted with species that support the growth of one another. Equally, the competitive advantage of these complementary species is they provide suppression of growth from other non-native species through a physiological mechanism called allelopathy.

Table 1: Overview of projected use of IRWMP Grant Funds for (2012-14).

Project Task	WRP Funds 2011-2012	IRWMP Funds (2 yrs.)	Grand Total
Map & Biological Monitoring	\$2,700.00	\$12,000.00	\$14,700.00
Remove & Dispose	\$8,300.00	\$12,000.00	\$20,300.00
Prevent Reemergence	\$ 800.00	\$5,292.00	\$6,092.00
Restore, Revegetate, Educate	\$5,600.00	\$6,000.00	\$11,600.00
Fuel	\$1,000.00	\$2,000.00	\$3,000.00
Grant Administration (10%)	\$1,840.00	\$3,729.20	\$5,569.20
Project Coordinator (25%)	N/A	\$9,323.00	\$9,323.00
Overhead Costs (5%)	N/A	\$1,864.60	\$1,864.60
Total:	\$20,240.00	\$52,208.80	\$72,448.80

Project Task Budgets

Map & Biological Monitoring: The proposed work of monitoring the Bouquet Canyon Creek Restoration Project will be required as part of the CDFG Streambed Alteration Agreement (Notification #:1600-2011-0063-R5 Revision I), as outlined in sections 2.2, 2.3, 2.4, and 2.5. The four areas of monitoring include: I. Single Pre-Project Survey that will be conducted no earlier than 1-week prior to the start of work, regardless of season, to detect any general sensitive species within the project area. II. Biological Monitoring that will be conducted on the first day of work to advise the work crew about avoidance of sensitive species, and/or to relocate any vertebrates observed in the work area. III. Presence / Absence Survey that will be conducted a single time, 3-5 days prior to project activities within the project area during periods of aviary nesting season (3/1-9/31). This procedure entails ensuring that no active aviary nests are impacted by project work, and advises applicant of avoidance measures (100'-300' bufferzone around active nests.). IV. Follow-up Monitoring will be conducted during any 'short-term' project implementation or activities (i.e. quick reapplication of herbicide / handcutting, etc.) when performed during aviary nesting season.

Table 2: Mapping and Biological Monitoring Budget (2012-14)

Task	Rate	Mileage	Hours	Miles	Total Cost
Pre-Project Survey	\$60-80/hr.	\$0.55/mile	12	60	\$993.00
Biological Monitoring	\$60	\$0.55/mile	120	1000	\$7750.00
Presence / Absence Survey	\$60	\$0.55/mile	12	60	\$993.00
Follow-up Monitoring	\$60	\$0.55/mile	36	90	\$2209.5
Total:					\$11,945.5

Removal & Disposal: The proposed work of invasive weed biomass reduction from the Bouquet Canyon Creek Restoration Project will be required as part of the CDFG Streambed Alteration Agreement (Notification #: 1600-2011-0063-R5 Revision I), outlined in sections: 2.14, 2.2, and 3.1. Three areas of abatement include: I. Staging of any equipment and/or materials must be located outside the streambed channel. II. Disposal of Non-Native Vegetation must be removed from stream and adjacent areas prior to those plants producing seed and placed into an area where it can not become re-established, enter the streambed channel, or impact sensitive plant resources, etc. Non-native vegetation should be mulched, chipped, hauled to landfill, or burned. III. Non-Native Vegetation Removal techniques must be defined that specifically control non-native vegetation, including subsequent follow-up treatments, and proper disposal methods.

Table 3: Removal and Disposal (2012-14)

Task	Rate	Units	Hours	Total
Staging Equipment (Chipper/Flatbed Truck/PPE)	\$70-300/day	1 equip.	36	\$210-900.00
Removal Methods (Hand-labor, Chainsaws)	\$600.00/day	10-12 persons	495	\$6000-7200.00
Disposal Methods	\$ 30/Ton	<10 tons	24	\$150-300.00
Extra Days of Removal (Hand-labor, Chainsaws)	\$600.00	10-12 persons	247	\$4,200.00
Total:				\$12,600.00

Prevent Reemergence: The proposed work of controlling invasive weed with an integrated pest management approach in the Bouquet Canyon Creek Restoration Project will be required as part of the CDFG Streambed Alteration Agreement (Notification #:1600-2011-0063-R5 Revision I), as outlined in section: 2.13, and the Site Specific Restoration Plan. There is one area of compliance when implementing the prevention of reemergence for this project: I. Herbicide Applications must be applied in accordance with state and federal law. No herbicides shall be used within the bufferzone where special status species reside. No herbicide shall be sprayed when wind velocities are above five miles per hour. The use of integrated pest management protocols (i.e. PE tarping, 500K BTU Weed Flamer, and/or CDA herbicide applications) should help suppress the continued development of the rootzone.

Table 4: Prevent Reemergence Budget (2012-14)

Task	Rate	# Personnel	Hours	Total Cost
Herbicide Application	\$45/hr.	1-2	84	3780.00
IPM Application	\$18/hr.	4-10	84	1512.00
Total:				\$5,292.00

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Santa Clarita Water, a Division of Castaic Lake Water Agency (SCWD)

Agency / Organization / Individual Address:

26521 Summit Circle, Santa Clarita, CA 91350

Possible Partnering Agencies:

Castaic Lake Water Agency (CLWA)

Name: *

Cathy Z. Hollomon

Title:

Associate Water Resource Planner

Telephone: *

(661) 259-2737

Fax:

(661) 286-4330

Email: *

chollomon@scwater.org

Website:

www.sewater.org

Project Name: *

July 2012 Santa Clarita Water Division Water Use Efficiency Strategic Plan Water use efficiency Programs

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°24'47.47"

Project Longitude: 118°30'33.32"

Location Description:	Service area of SCWD in the Santa Clarita Valley, the north section of Los Angeles County
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Castaic Lake Water Agency
• City of Santa Clarita
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

Ongoing

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>In SCWD's efforts to achieve SBX7-7 requirements, SCWD completed a Water Use Efficiency Strategic Plan (WUESP) in July 2012 that outlines the following action items as specified in their Executive Summary:</p> <ol style="list-style-type: none"> 1. Develop a water use efficiency program that fulfills SCWD's requirements as a signatory to the MOU. 2. Promote programs that enable residential customers to improve water use efficiency in a cost-effective manner. 3. Promote programs that encourage Commercial/Industrial/Institutional (CII) water users to implement water efficiency improvement programs in a cost-effective manner. 4. Promote efficient use of water through appropriate incentive programs. 5. Provide appropriate educational and informational programs to encourage water use efficiency.
--

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The SCWD WUESP specifies ten (10) water use efficiency programs that create incentives and develop outreach programs to encourage behavioral change in residential and non-residential customers to practice cost-effective water use efficiency. Those programs and measures deemed to be cost-effective will be selected for implementation by the purveyors:

1. Residential Audits
2. Low-Flow Showerhead Distribution
3. Ultra-High Efficiency Toilet (UHET) Distribution
4. Multi-Family/Institutional/High-Efficiency Toilet/UHET Direct Installation
5. Turf Removal
6. High Efficiency Nozzle Distribution (freesprinklernozzles.com)
7. High-Efficiency Nozzle Direct Installation
8. Large Landscape Weather-Based Irrigation Controller Direct Installation
9. Residential and Commercial Rebate Program
10. Large Landscape Water Budgets

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

<ul style="list-style-type: none">• Santa Clara River
<ul style="list-style-type: none">• Eastern Santa Clara Basin – Santa Clara – Mint Canyon
<ul style="list-style-type: none">•
<ul style="list-style-type: none">•

Please identify up to three available documents which contain information specific to the proposed project:

<ul style="list-style-type: none">• Santa Clarita Water Division Water Use Efficiency Strategic Plan, July 10, 2012
<ul style="list-style-type: none">• Urban Water Management Plan, 2010
<ul style="list-style-type: none">• Santa Clarita Valley Water Use Efficiency Strategic Plan, 2007

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>The SCWD WUESP has various incentive and <u>outreach/education programs that install water-efficient hardware and change future customer water use behaviors.</u></p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p><u>As water use is reduced, we become less reliant on imported supplies from the State Water Project and on water supplies banked overtime.</u></p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p><u>The use of more efficient irrigation can result in reduced urban runoff.</u></p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p><u>The programs seek to reduce urban runoff and potential pollutant</u></p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	
<p>Take actions within the watershed to adapt to climate change</p>	<p>_____</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>Reduced dependence on imported State Water reduces the use of pumps and equipment to transport the imported water to the Santa Clarita Valley.</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): <u>Reduction in Power Use and Labor to Maintain Water System</u>
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, please identify the program	<u>The SCWD 2012 WUESP sites the following reports as its major contributors: the 2007 Santa Clarita Valley Water Use Efficiency Plan and the 2010 Urban Water Management Plan.</u>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	<u>Complete</u>	<u>06/30/2012</u> (mm/dd/yyyy)
Feasibility Study	<u>NA</u>	_____ (mm/dd/yyyy)
Preliminary Design and Cost Estimates	<u>Complete</u>	<u>06/30/2012</u> (mm/dd/yyyy)
CEQA/NEPA	<u>NA</u>	_____ (mm/dd/yyyy)
Permits	<u>NA</u>	_____ (mm/dd/yyyy)
Construction Drawings	<u>NA</u>	_____ (mm/dd/yyyy)
Funding	<u>Ongoing</u>	_____ (mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Currently, we are operating three of our ten WUE Programs in the WUESP as follows:

- Low Flow Showerhead Distribution
- High Efficiency Nozzle Distribution (freesprinklernozzles.com)
- Residential and Commercial Rebate Program

With additional funding, we would like to operate the following proposed projects:

1. Residential Audits
2. Ultra-High Efficiency Toilet (UHET) Distribution
3. Multi-Family/Institutional/High-Efficiency Toilet/UHET Direct Installation
4. Turf Removal
5. High-Efficiency Nozzle Direct Installation
6. Large Landscape Weather-Based Irrigation Controller Direct Installation
7. Large Landscape Water Budgets

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

The SCWD WUESP indicates water savings that vary with each proposed program.

Primary Benefits:

- Improve Urban Water Use Efficiency
- Increase Water Supply
- Practice Resource Stewardship by providing incentives and encourage behavioral change in cost-effective water use efficiency
- Improve Watershed Management

Secondary Benefits:

- Limit use of imported state water and limiting the energy and resources to convey water from the Delta to the Santa Clarita Valley
- Prevent urban runoff by using more efficient landscape irrigation systems, which limits pollution transport due to runoff

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input checked="" type="checkbox"/>	Increases Water Supply Reliability
<input checked="" type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input checked="" type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input type="checkbox"/>	Provides Additional Water Supply
<input checked="" type="checkbox"/>	Promotes Water Quality Protection
<input checked="" type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input checked="" type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State: Decrease energy and resources required to transport imported State Water to the Santa Clarita Valley by limiting amount of this water supply by the Valley.
<input type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input checked="" type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): \$301,930

Upper estimated total capital cost (\$): \$2,520,469

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$): \$0

Annual Operation and Maintenance Cost (\$): From \$62,370 to \$366,223

Design Life of Project (years): 8

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

[Santa Clarita Valley Sanitation District \(SCVSD\)](#)

Agency / Organization / Individual Address:

1955 Workman Mill Rod

Possible Partnering Agencies:

Name: *

[Francisco Guerrero](#)

Title:

[Project Engineer](#)

Telephone: *

[562-908-4288 ext 2832](#)

Fax:

Email: *

FGuerrero@lacs.org

Website:

www.lacs.org

Project Name: *

[Saugus Water Reclamation Plant – Ultraviolet Light Disinfection Facility](#)

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude:

Project Longitude:

Location Description:	The project is located within the Saugus Water Reclamation Plant (WRP) site at 26200 Springbrook Avenue, Saugus, CA 91350
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

<ul style="list-style-type: none"> • Castaic Lake Water Agency • • •
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Project Status (e.g., new, ongoing, expansion, new phase):

Treatment upgrade

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>The Santa Clara River supports aquatic species and habitat and recharges the underlying groundwater basin that serves as a water supply. The most recent Upper Santa Clara River Chloride Total Maximum Daily Load (Chloride TMDL) was established in 2008 and imposes a chloride limit of 100 milligrams per liter (mg/L) for the treated water discharged to the Santa Clara River from the Saugus WRP. The use of ultraviolet light (UV) disinfection at the Saugus WRP will reduce chloride loading associated with the existing chlorine based disinfection facilities at the WRP and help towards achieving compliance with the Upper Santa Clara River Chloride Total Maximum Daily Load TMDL. In addition, the use of UV disinfection will reduce the potential for the formation of disinfection byproducts (Trihalomethanes and N-Nitrosodimethylamine) associated with chlorination disinfection processes. Utilization of UV disinfection will ensure recycled water from the Saugus WRP meets all Department of Public Health Title 22 Water Recycling Criteria.</p>
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Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The Saugus Water Reclamation Plant UV Disinfection Facility ~~ies will~~ would reduce chloride loading from existing chlorine based disinfection, preserve and expand the use of recycled water in the USCR IRWMP Region, which is an important component of the Valley's water resources, and improve recycled water quality by reducing chloride levels and the potential to generate disinfection by-products. The project would replace the existing chlorination system at the Saugus WRP with a UV disinfection facility, which would ~~will demonstrate the sequential use of free chlorine/UV disinfection as an alternative disinfection method to the current chlorine based disinfection process at the WRP.~~ be constructed within the boundaries of the Saugus WRP. The UV Disinfection Facility would include construction of UV reactors containing lamps and appurtenant electrical, mechanical, and control systems.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- | |
|--|
| <ul style="list-style-type: none">• Santa Clara River |
| <ul style="list-style-type: none">• Santa Clara Eastern Groundwater Basin – Alluvial Aquifer |
| <ul style="list-style-type: none">• |
| <ul style="list-style-type: none">• |

Please identify up to three available documents which contain information specific to the proposed project:

- | |
|--|
| <ul style="list-style-type: none">• Draft Santa Clarita Valley Sanitation District Chloride Compliance Facilities Plan and Environmental Impact Report (Tentatively Available late 2012) |
| <ul style="list-style-type: none">• |
| <ul style="list-style-type: none">• |

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>Utilization of UV dDisinfection will ensure recycled water produced at the Saugus WRP meets all Department of Public Health Title 22 Water Recycling Criteria, thus promoting the use of recycled water in the USCR IRWMP Region, which in turn would reduce the Santa Clarita Valley's demand on groundwater and imported water resources.</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>Utilization of UV dDisinfection will ensure recycled water produced at the Saugus WRP meets all Department of Public Health Title 22 Water Recycling Criteria, thus promoting the use of recycled water in the USCR IRWMP Region. Recycled water use directly increases local water supply, reducing demand on groundwater and imported water.</p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>Utilization of UV Disinfection will reduce chloride contribution from treatment of wastewater treatment and help comply with the USCR eChloride TMDL.</p> <p>Utilization of UV Disinfection will reduce the potential to form common disinfection byproducts associated with the use of chlorine based disinfection.</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p><u>Improve quality of water discharged to Santa Clara River, which would benefit river's ecosystems</u></p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	<p>_____</p>
<p>Take actions within the watershed to adapt to climate change</p>	<p>_____</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>_____</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA <input type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Salt and Salinity Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA <input type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, please identify the program	<u>Santa Clarita Valley Chloride Compliance Facilities Plan and EIR</u>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	<u>In Process</u>	<u>tbd</u> (mm/dd/yyyy)
Feasibility Study	<u>In Process</u>	<u>tbd</u> (mm/dd/yyyy)
Preliminary Design and Cost Estimates	<u>In Process</u>	<u>tbd</u> (mm/dd/yyyy)
CEQA/NEPA	<u>In Process</u>	<u>tbd</u> (mm/dd/yyyy)
Permits	<u>Not Initiated</u>	_____ (mm/dd/yyyy)
Construction Drawings	<u>Not Initiated</u>	_____ (mm/dd/yyyy)
Funding	<u>Approved for Planning and Design</u> <u>Not Initiated for Construction</u>	<u>June 2011</u> (mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Conversion to UV disinfection from the chlorine based disinfection would reduce the chloride loading in the WRP's effluent and improve recycled water quality by reducing chloride levels and the potential to generate disinfection by-products. It is expected that the conversion to the UV disinfection would remove approximately 140,000 pounds of chloride annually.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input checked="" type="checkbox"/>	Increases Water Supply Reliability
<input checked="" type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input checked="" type="checkbox"/>	Promotes Water Quality Protection
<input checked="" type="checkbox"/>	Reduces Water Demand
<input checked="" type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input checked="" type="checkbox"/>	Promotes Habitat Protection
<input type="checkbox"/>	Establishes Migration Corridors
<input type="checkbox"/>	Re-establishes River-Floodplain Hydrologic Continuity
<input type="checkbox"/>	Re-introduces Anadromous Fish Populations to Upper Watersheds
<input type="checkbox"/>	Enhances and Protects Upper Watershed Forests and Meadow Systems
<input checked="" type="checkbox"/>	Other (Please State): <u>Improved water quality to river ecosystems supported by that water</u>
<input type="checkbox"/>	Other (Please State): _____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input checked="" type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): \$8,000,000 ~~td~~

Upper estimated total capital cost (\$): 14,000,000 ~~td~~

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$): \$0

Annual Operation and Maintenance Cost (\$): \$200,000 ~~td~~

Design Life of Project (years): 20 year ~~td~~

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Castaic Lake Water Agency (SCWD)

Agency / Organization / Individual Address:

27234 Bouquet Canyon Road, Santa Clarita, CA 91350

Possible Partnering Agencies:

Los Angeles County Waterworks District #36
Newhall County Water District
Santa Clarita Water Division
Valencia Water Company

Name: *

Stephanie Anagnoson

Title:

Water Conservation Program Coordinator

Telephone: *

(661) 513-1231

Fax:

(661) 297-1611

Email: *

sanagnoson@clwa.org

Website:

www.clwa.org

Project Name: *

Santa Clarita Valley (SCV) Water Use Efficiency (WUE) Strategic Plan (SP)

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude:

Project Longitude:

Location Description:	Santa Clarita Valley
------------------------------	----------------------

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Los Angeles County Waterworks #36
• Newhall County Water District
• Santa Clarita Water Division
• Valencia Water Company

Project Status (e.g., new, ongoing, expansion, new phase):

Ongoing

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>Before SBX7-7, the Family of Water Suppliers proactively adopted a plan to achieve 10% water demand by 2030. This is currently funded partially by IRWMP for approximately 1 million dollars over two years.</p> <p>With the current state mandate of 20% water demand reduction by 2020, the Family of Water Suppliers needs to continue to fund programs within the Santa Clarita Valley Water Use Efficiency Plan and seek continued funding from IWMP.</p> <p>The 2010 UWMP assumes almost 17,000 AF in savings by 2020 from conservation. While some of this conservation may be passive (from updates to plumbing code in new construction), considerable new programs and expanded current programs will need to be implemented to reach these goals.</p>

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not

be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The Santa Clarita Valley Water Use Efficiency Strategic Plan was developed in 2008 and approved by the Castaic Lake Water Agency Board for implementation in 2009. The Programs are being implemented on an ongoing basis, including

High-Efficiency Toilet Rebates

High-Efficiency Washing Machine Rebates

Residential Landscape Program (Free Weather-Based Irrigation Controllers)

Large Landscape and Commercial, Industrial and Institutional Rebates

Social Marketing Campaign (Public Outreach)

The SCV WUE SP will be updated in 2012 and 2013 and may including additional programs to achieve 20% reduction in water demand by 2020.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Santa Clara River
•
•
•

Please identify up to three available documents which contain information specific to the proposed project:

• Urban Water Management Plan, 2010
• Santa Clarita Valley Water Use Efficiency Strategic Plan, 2007

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>The primary goal of the SCV WUE SP is to reduce potable water demand by installing hardware for residential, commercial and landscape accounts as well as changing behavior to decrease water use.</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>With a decrease in potable water demand, we will be able to increase the amount of water available for banking (and increase the reliability of the water supply).</p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>Water quality will be increased by reduced run off.</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	
<p>Take actions within the watershed to adapt to climate change</p>	
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): <u>Reduction in Power Use to Treat Water</u>
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, please identify the program	The 2007 Santa Clarita Valley Water Use Efficiency Plan and the 2010 Urban Water Management Plan

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	<u>Complete</u>	<u>08/30/2008</u> (mm/dd/yyyy)
Feasibility Study	<u>NA</u>	_____ (mm/dd/yyyy)
Preliminary Design and Cost Estimates	<u>Complete</u>	<u>08/30/2008</u> (mm/dd/yyyy)
CEQA/NEPA	<u>N/A</u>	<u>N/A</u> (mm/dd/yyyy)
Permits	<u>N/A</u>	<u>N/A</u> (mm/dd/yyyy)
Construction Drawings	<u>N/A</u>	<u>N/A</u> (mm/dd/yyyy)
Funding	<u>Ongoing</u>	<u>N/A</u> (mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Currently, we are funding all five programs suggested by the SCV WUE SP:

- High-Efficiency Toilet Rebates
- High-Efficiency Washing Machine Rebates
- Residential Landscape Program (Free Weather-Based Irrigation Controllers)
- Large Landscape and Commercial, Industrial and Institutional Rebates
- Social Marketing Campaign (Public Outreach)

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

The Santa Clarita Valley Water Use Efficiency Programs have the following benefits:

Primary Benefits:

- Increase Urban Water Use Efficiency
- Increase Water Supply Reliability

Secondary Benefits:

- Decrease reliance on imported state water and limit the energy and resources to convey water from the Delta to the Santa Clarita Valley
- Decrease urban runoff by using more efficient landscape irrigation systems

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input checked="" type="checkbox"/>	Increases Water Supply Reliability
<input checked="" type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input checked="" type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input type="checkbox"/>	Provides Additional Water Supply
<input checked="" type="checkbox"/>	Promotes Water Quality Protection
<input checked="" type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input checked="" type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State: Decrease energy and resources required to transport imported State Water to the Santa Clarita Valley by limiting amount of this water supply by the Valley.
<input type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input checked="" type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): \$1,000,000 per year

Upper estimated total capital cost (\$): \$5,000,000 per year

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$): \$0

Annual Operation and Maintenance Cost (\$): N/A

Design Life of Project (years): 8

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name: *

Ken Zimmer

Title:

Senior Civil Engineer

Telephone: *

626-458-6188

Fax:

626-979-5436

Email: *

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name: *

SCR South Fork Rubber Dam No. 1 and Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°23'29.15"N

Project Longitude: 118°32'31.77"W

Location Description:	Santa Clara River South Fork, Newhall Avenue Bridge
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Los Angeles County Flood Control District/Ken Zimmer
• Integrated Regional Water Management Plan
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

Ongoing

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

An air-inflatable rubber dam will be installed utilizing the location of an existing drop structure in the Santa Clara River South Fork. During storm flows the rubber dam will inflate, and water will pond and percolate behind the rubber dam. The rubber dam will also divert the water into three proposed spreading basins which will then also percolate into the aquifers. After the water percolates, the rubber dam will slowly deflate and lay flat across the drop structure allowing lower flows in the river to pass without obstruction.

Spreading basins could have habitat restoration along the levees, and that area could be preserved as an open space. Passive recreation would be possible at this location.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

•	Santa Clara River
•	Santa Clara River Valley Groundwater Basin, East Subbasin
•	Santa Clara River South Fork
•	

Please identify up to three available documents which contain information specific to the proposed project:

•	Santa Clara River Watershed Water Conservation Feasibility Study
•	
•	

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>N/A</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.</p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>Soil aquifer treatment will remove contaminants such as heavy metals and trash from the water. Trash will be collected and removed at the rubber dam and from the spreading basins.</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>The construction of the rubber dam and spreading basins could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.</p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	<p>Diverting the water from the river for recharge may prevent flooding downstream.</p>
<p>Take actions within the watershed to adapt to climate change</p>	<p>N/A</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>N/A</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Please State: _____

<p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>If yes, please identify the program _____</p>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Complete	10/27/2009 (mm/dd/yyyy)
Feasibility Study	Complete	11/14/2007 (mm/dd/yyyy)
Preliminary Design and Cost Estimates	Complete	03/13/2012 (mm/dd/yyyy)
CEQA/NEPA	Not initiated	(mm/dd/yyyy)
Permits	Not initiated	(mm/dd/yyyy)
Construction Drawings	Not initiated	(mm/dd/yyyy)
Funding	Not initiated	(mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. The river has recreation in the form of bike paths along a large stretch of the river. These areas are adjacent to power line easements that may provide an opportunity for habitat restoration. Trash will be collected and removed from the spreading grounds.

The project will provide storage for 145 acre-feet of storm runoff and 430 acre-feet of water conservation benefit per average water year. It will benefit 4 acres of riparian habitat area, and 8 acres of non-developed open space area.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 5,000,000.00

Upper estimated total capital cost (\$): 9,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):

Annual Operation and Maintenance Cost (\$): 50,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Castaic Lake Water Agency

Agency / Organization / Individual Address:

27234 Bouquet Canyon Rd.
Santa Clarita, CA 91350

Possible Partnering Agencies:

Newhall County Water District, City of Santa Clarita, Los Angeles County Water District #36

Name: *

James Leserman

Title:

Senior Engineer

Telephone: *

661-297-1600 Ext. 245

Fax:

661-513-1202

Email: *

jleserman@clwa.org

Website:

Project Name: *

Foothill Feeder Connection

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude:

Project Longitude:

Location Description:	
------------------------------	--

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

•
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

Ongoing

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>The Foothill Feeder Connection Project will provide additional capacity to CLWA's water system allowing the Agency to more reliably meet consumers' demands.</p>

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and

readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The Foothill Feeder conveys untreated surface water from the terminus of the State Water Project—Castaic Lake—to the Metropolitan Water District’s Jensen Water Treatment Plant and to a connection to a raw water pipeline, which conveys water to CLWA’s Rio Vista Water Treatment Plant (RVWTP). The current connection to CLWA’s water system was made in 1996. It was intended to be temporary. It has a lower capacity—60 millions of gallons per day (MGD)—than the recently expanded RVWTP—66 MGD. So in order to utilize the full capacity the connection needs to be increased. A more permanent structure would also provide better reliability.

The project has already been designed. Bidding and Construction can proceed once funding becomes available. Construction will consist of installing and connecting valves, pipelines, and associated electrical hook-ups and controls.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

<ul style="list-style-type: none">• Castaic Lake
<ul style="list-style-type: none">•
<ul style="list-style-type: none">•
<ul style="list-style-type: none">•

Please identify up to three available documents which contain information specific to the proposed project:

<ul style="list-style-type: none">• Rio Vista Treatment Plant Expansion EIR
<ul style="list-style-type: none">• Foothill Feeder Turnout CLWA-01 Drawings and Specifications
<ul style="list-style-type: none">•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>_____</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p><u>Would enable more water to be delivered into the CLWA system. Would improvement water delivery reliability.</u></p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>_____</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>_____</p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	<p>_____</p>
<p>Take actions within the watershed to adapt to climate change</p>	<p>_____</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>_____</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): <u>Increase water supply reliability</u>
Improve Water Quality			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Matching Quality to Use
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Salt and Salinity Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Land Use Planning and Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, please identify the program	<u>Rio Vista Water Treatment Plant Expansion</u>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	<u>Complete</u>	<u>2007</u> (mm/dd/yyyy)
Feasibility Study	<u>Complete</u>	<u>2006</u> (mm/dd/yyyy)
Preliminary Design and Cost Estimates	<u>Complete</u>	<u>2011</u> (mm/dd/yyyy)
CEQA/NEPA	<u>Complete</u>	<u>2005</u> (mm/dd/yyyy)
Permits	<u>In Process</u>	_____ (mm/dd/yyyy)
Construction Drawings	<u>Complete</u>	<u>June 2012</u> (mm/dd/yyyy)
Funding	<u>In Process</u>	_____ (mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Project would allow for an increase of 6 MGD (6,700 acre-feet per year) of water delivery immediately. It would be necessary for any future expansions of the RVWTP.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input checked="" type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input checked="" type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 3,000,000

Upper estimated total capital cost (\$): 5,000,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):
<\$10,000

Annual Operation and Maintenance Cost (\$): \$50,000

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

City of Santa Clarita

Agency / Organization / Individual Address:

23920 Valencia Blvd
Santa Clarita CA 91355

Possible Partnering Agencies:

Los Angeles County, CLWA

Name: *

Heather Merenda

Title:

Telephone: *

661-284-1413

Fax:

661-255-4356

Email: *

hmerenda@santa-clarita.com

Website:

Project Name: *

Biofiltration and Low Impact Development Retrofits

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude:

Project Longitude:

Location Description:	City of Santa Clarita sub drainage areas determined to have high levels of bacteria, nutrients, trash and other pollutants in runoff and storm drain outfall
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

•
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

new

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>The National Pollutant Discharge Elimination System (NPDES) Permit for the storm drain system in Los Angeles County is scheduled to be approved in October 2012. Draft versions of the permit require permittees create lists of opportunities to retrofit areas with biofiltration and/or low impact development. The permit will incorporate all Bacteria Total Maximum Daily Loads (TMDLs) in the watershed. It also has substantial requirements for trash management. The City needs to ensure that the storm drain urban runoff quality is working towards meeting the water quality standards in the TMDLs and the NPDES Permit itself.</p> <p>The Bacteria TMDL for the Santa Clara River became effective in March 2012. It requires meeting dry weather bacteria waste loads by 2017 for all sources, including the storm drain system. There are also effective TMDLs for nutrients and chlorides. While several projects have installed permanent best management practices for treating oils and grease, trash and other traditional urban runoff pollutants, there is no current treatment for bacteria on the vast majority of storm drains.</p>
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Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

This project will consist of three parts of green infrastructure: biofiltration, green streets, and parking lot low impact development retrofits. The project would evaluate and retrofit neighborhoods that have persistent problematic flow at the outfall. Anticipate that this would include 5 – 10 biofiltration areas and up to 100 acres of parking lot retrofit. There would be a significant number of neighborhood streets that would have green streets retrofits. These elements may be used together in the same site or individually in different locations. This along with outdoor water use education to reduce over watering and other urban runoff behaviors will reduce the flows and improve water quality. The areas evaluated would be mature existing neighborhoods with consistent urban runoff problems

LID consists of building and landscape features designed to retain or filter storm water runoff. Biofiltration is a structural best management practice that reduces storm water pollutant discharges by intercepting rainfall on vegetative canopy, and through evapotranspiration, incidental infiltration, and filtration. As described in the Ventura County Technical Guidance Manual, studies have demonstrated that bioinfiltration of 1.5 times the storm water quality design volume (SWQDv) provides approximately equivalent or greater reductions in pollutant loading when compared to bioretention or infiltration of the SWQDv.50 Incidental infiltration is an important factor in achieving the required pollutant load reduction. Therefore, the term “biofiltration” as used in this Order is defined to include only systems designed to facilitate incidental infiltration. Biofiltration BMPs include bioretention systems with an underdrain and bioswales.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Santa Clara River
• various groundwater basins
•
•

Please identify up to three available documents which contain information specific to the proposed project:

• EPA Green Infrastructure Case Studies
• EPA Managing Wet Weather with Green Infrastructure - Green Streets

- EPA Managing Wet Weather with Green Infrastructure – Green Infrastructure Retrofit Policies

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p><u>Street landscaping would be supplemented with dry weather flows and wet weather rain flows related to urban runoff from streets</u></p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p><u>Low impact development encourages infiltration into groundwater rather than runoff</u></p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p><u>These best management practices have been shown to reduce metals, bacteria and nutrient. These project would also deal with trash.</u></p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p><u>Improved water quality in the river helps support habitat for endangered fish, birds, turtles and other species dependant on the Santa Clara River</u></p>
<p>Flooding/Hydrmodification</p>	<p><u>Increased infiltration reduced peak flows</u></p>
<p>Climate Change Adaptation</p>	<p><u>Higher intensity storms peaks would be reduced</u></p>
<p>Climate Change Prevention</p>	

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): <u>groundwater infiltration</u>
Improve Water Quality			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Salt and Salinity Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Forest Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Land Use Planning and Management
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, please identify the program	<u>NPDES Permit and TMDL compliance</u>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	_____ not initiated	_____ (mm/dd/yyyy)
Feasibility Study	_____ not initiated	_____ (mm/dd/yyyy)
Preliminary Design and Cost Estimates	not initiated	_____ (mm/dd/yyyy)
CEQA/NEPA	_____ not initiated	_____ (mm/dd/yyyy)
Permits	_____ not initiated	_____ (mm/dd/yyyy)
Construction Drawings	_____ not initiated	_____ (mm/dd/yyyy)
Funding	_____ not initiated	_____ (mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Increase use of trees improve shade opportunities. The paving project reduce heat island effect.

Does the project address any known environmental justice issues?

Yes

No

Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes

No

Not Sure

Does the project include disadvantaged community participation?

Yes

No

Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input checked="" type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input checked="" type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input checked="" type="checkbox"/>	Promotes Water Quality Protection
<input checked="" type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input checked="" type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input checked="" type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input checked="" type="checkbox"/> Other (Please State): fish habitat improvement
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input checked="" type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 4,000,000

Upper estimated total capital cost (\$): 6,000,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$): 0

Annual Operation and Maintenance Cost (\$): 200,000

Design Life of Project (years): 15

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

City of Santa Clarita

Agency / Organization / Individual Address:

23920 Valencia Blvd
Santa Clarita CA 91355

Possible Partnering Agencies:

Name: *

Heather Merenda

Title:

Telephone: *

661-284-1413

Fax:

661-255-4356

Email: *

hmerenda@santa-clarita.com

Website:

Project Name: *

Septic to Sewer Retrofit Project

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude:

Project Longitude:

Location Description:	City of Santa Clarita sub drainage areas determined to have high levels of bacteria, nutrients, trash and other pollutants in runoff and storm drain outfall associated with neighborhoods with septic tanks
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

•
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

new

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>The National Pollutant Discharge Elimination System (NPDES) Permit for the storm drain system in Los Angeles County is scheduled to be approved in October 2012. Draft versions of the permit require permittees create lists of opportunities to retrofit areas with biofiltration and/or low impact development. The permit will incorporate all Bacteria Total Maximum Daily Loads (TMDLs) in the watershed. It also has substantial requirements for trash management. The City needs to ensure that the storm drain urban runoff quality is working towards meeting the water quality standards in the TMDLs and the NPDES Permit itself.</p> <p>The Bacteria TMDL for the Santa Clara River became effective in March 2012. It requires meeting dry weather bacteria waste loads by 2017 for all sources, including the storm drain system. There are also effective TMDLs for nutrients and chlorides. While several projects have installed permanent best management practices for treating oils and grease, trash and other traditional urban runoff pollutants, there is no current treatment for bacteria on the vast majority of storm drains.</p> <p>Aging septic tanks, or septic tanks without sufficient leach field expansion, overflow and reach tributaries and the Santa Clara River. There are 1,000 to 2,500 septic tanks identified in the City limits. Not all can connect to the water reclamation plants, but some may be able to.</p>
--

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

There are 1,000 to 2,500 septic tanks properties within City limits. This project would provide financial incentives and infrastructure to connect these properties to the sewer. It would also help provide sewer line expansions to areas that are persistently contributing to bacteria, nutrient, or other kinds of pollution.

Financial incentive for disadvantaged community members will be an important part of this effort, as well as other assistance measure for current septic tank owners. This project may include laterals, septic tank abandonment, extending sewer mains, and related efforts needed to support moving property owners from septic to sewer.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Santa Clara River
• various groundwater basins
•
•

Please identify up to three available documents which contain information specific to the proposed project:

• Santa Clara River Bacteria TMDL
• Santa Clara River Bacteria TMDL Staff Report
•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>_____</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>_____ <u>By connecting to the sewage treatment infrastructure, the project will increase the amount of recycled water produced</u></p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>_____ <u>Removing septic tanks that are failing may improve water quality through elimination of sewage entering tributaries and the Santa Clara River</u></p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>_____ <u>Reduce toxicity for fish species through reducing septic tank leaks to the habitat</u></p>
<p>Flooding/Hydromodification</p>	<p>_____</p>
<p>Climate Change Adaptation</p>	<p>_____</p>
<p>Climate Change Prevention</p>	<p>_____</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Matching Quality to Use
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Salt and Salinity Management
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, please identify the program	<u>TMDL and NPDES Permit compliance</u>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	in process	12/1/2012 (mm/dd/yyyy)
Feasibility Study	not initiated	(mm/dd/yyyy)
Preliminary Design and Cost Estimates	not initiated	(mm/dd/yyyy)
CEQA/NEPA	not initiated	(mm/dd/yyyy)
Permits	not initiated	(mm/dd/yyyy)
Construction Drawings	not initiated	(mm/dd/yyyy)
Funding	not initiated	(mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This project will provide financial assistance to disadvantaged communities. There will be a system in place for grants to assist those community members. Also, the disadvantaged community members are more likely to come into contact with the river water as they are more likely to recreate in the river.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: downtown Newhall

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input checked="" type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input checked="" type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input checked="" type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input checked="" type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input checked="" type="checkbox"/> Other (Please State): improved fish habitat
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input checked="" type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 25,000,000

Upper estimated total capital cost (\$): 35,000,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):
unknown

Annual Operation and Maintenance Cost (\$): unknown

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Castaic Lake Water Agency

Agency / Organization / Individual Address:

Castaic Lake Water Agency

Possible Partnering Agencies:

Name: *

Brian Folsom

Title:

Engineering & Operations Manager

Telephone: *

661-297-1600

Fax:

661-513-1202

Email: *

bfolsom@clwa.org

Website:

www.clwa.org

Project Name: *

Castaic Conduit

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°26'27.79"N

Project Longitude: 118°34'19.41"W

Location Description:	The new pipeline will start in Newhall Ranch Road, approximately 1,180 feet east of the Newhall Ranch Road and Copper Hill Drive intersection. The pipeline will travel east along Newhall Ranch Road, then turn southwest along Avenue Tibbits, then turn southeast along Avenue Mentry, then turn southeast along Avenue Rockefeller, then turn southeast along Avenue Scott, then cross under the San Francisquito Creek, continue along Avenue Scott and end at the intersection of Avenue Scott and McBean Parkway.
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

•
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

This will be a new construction project that is in the final design phase.
--

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>Castaic Lake Water Agency's (CLWA) two existing treatment plants, the Earl Schmidt Filtration Plant and the Rio Vista Water Treatment Plant, are connected through a series of transmission mains. The majority of these transmission mains are 54 inches in diameter and larger. However, an approximately 7,565-foot portion of the existing transmission system, known as the Castaic Conduit Pipeline, is only 39 inches in diameter and reduces to 36 inches before connecting to another 54-inch pipeline. This portion of the pipeline has historically caused reduced water pressure in portions of the transmission main system. Construction of the proposed Castaic Conduit Bypass Pipeline (Project) would eliminate this constriction by bypassing narrower sections of the pipeline with a new 54-inch-diameter pipeline connecting the existing larger sections. The pipeline would remedy low water pressure issues with turnouts in the Project vicinity, but would not increase the amount of water delivered to the turnouts or to the service area as a whole.</p>

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The project consists of the installation of approximately 7,960 linear feet of 54-inch diameter pipeline and appurtenances.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- | |
|---|
| <ul style="list-style-type: none">• The pipeline will cross under the San Francisquito Creek. |
| <ul style="list-style-type: none">• |
| <ul style="list-style-type: none">• |
| <ul style="list-style-type: none">• |

Please identify up to three available documents which contain information specific to the proposed project:

- | |
|---|
| <ul style="list-style-type: none">• Castaic Conduit Bypass Pipeline Project Preliminary Design Report |
| <ul style="list-style-type: none">• Initial Study / Mitigated Negative Declaration |
| <ul style="list-style-type: none">• Notice of Determination |

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>_____</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p><u>The project will increase the water supply reliability by improving the operational efficiency of the system.</u></p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>_____</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>_____</p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	<p>_____</p>
<p>Take actions within the watershed to adapt to climate change</p>	<p>_____</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>_____</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Matching Quality to Use
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Salt and Salinity Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Land Use Planning and Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	<u>complete</u>	<u>August 2010</u> (mm/dd/yyyy)
Feasibility Study	_____	_____ (mm/dd/yyyy)
Preliminary Design and Cost Estimates	<u>Complete</u>	<u>August 2010</u> (mm/dd/yyyy)
CEQA/NEPA	<u>Complete</u>	<u>March 9, 2011</u> (mm/dd/yyyy)
Permits	<u>In process</u>	<u>Anticipate June 30, 2013</u> (mm/dd/yyyy)
Construction Drawings	<u>In process</u>	<u>Anticipate June 30, 2013</u> (mm/dd/yyyy)
Funding	<u>Design funded in FY 2012/13 budget</u>	<u>FY 2012/13</u> (mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Does the project address any known environmental justice issues? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
Is the project located within or adjacent to a disadvantaged community? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
Does the project include disadvantaged community participation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input checked="" type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): \$14,910,000

Upper estimated total capital cost (\$): \$16,000,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):
\$250,000

Annual Operation and Maintenance Cost (\$): \$5,000

Design Life of Project (years): TBD

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Castaic Lake Water Agency

Agency / Organization / Individual Address:

Castaic Lake Water Agency

Possible Partnering Agencies:

Name: *

Brian Folsom

Title:

Engineering & Operations Manager

Telephone: *

661-297-1600

Fax:

661-513-1202

Email: *

bfolsom@clwa.org

Website:

www.clwa.org

Project Name: *

Distribution System – RV-2 Modifications

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°25'34.91"N

Project Longitude: 118°32'11.70"W

Location Description:	At the Agency's existing valve vault located in an enclosed site approximately 90 feet south of Newhall Ranch Road, and approximately 240 feet east of Bouquet Canyon Road. See above for the project's location coordinates.
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

•
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

This will be a new construction project that is in the final design phase.
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Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>The project will improve the operational flexibility and system reliability of the Agency's transmission system by replacing the existing damaged Rio Vista Valve #2 with a new valve and the addition of a pressure regulating valve.</p>

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The project consists of replacement of an existing 72-inch valve with a new valve; installation of a new pressure regulating valve; and modifications of the valve vault and surrounding site.
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If applicable, list surface water bodies and groundwater basins associated with the proposed project:

•
•
•
•

Please identify up to three available documents which contain information specific to the proposed project:

• Rio Vista Valve #2 Modifications Project Preliminary Design Report
•
•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>_____</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>Project helps to increase water supply reliability by improving the system's operational efficiency.</p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>_____</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>_____</p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	<p>_____</p>
<p>Take actions within the watershed to adapt to climate change</p>	<p>_____</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>_____</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Matching Quality to Use
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Salt and Salinity Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Land Use Planning and Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Please State: _____

<p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>If yes, please identify the program _____</p>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	<u>Complete</u>	<u>February 2011</u> (mm/dd/yyyy)
Feasibility Study	_____	_____ (mm/dd/yyyy)
Preliminary Design and Cost Estimates	<u>Complete</u>	<u>February 2011</u> (mm/dd/yyyy)
CEQA/NEPA	<u>Complete</u>	<u>December 2010</u> (mm/dd/yyyy)
Permits	<u>In process</u>	<u>Anticipate June 2013</u> (mm/dd/yyyy)
Construction Drawings	<u>In process</u>	<u>Anticipate June 2013</u> (mm/dd/yyyy)
Funding	<u>Design funded in FY 2012/13 budget</u>	<u>FY 2012/13</u> (mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

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Does the project address any known environmental justice issues? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
Is the project located within or adjacent to a disadvantaged community? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
Does the project include disadvantaged community participation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input checked="" type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): \$2,880,000

Upper estimated total capital cost (\$): \$3,200,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):
\$50,000

Annual Operation and Maintenance Cost (\$): \$5,000

Design Life of Project (years): TBD

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Castaic Lake Water Agency

Agency / Organization / Individual Address:

27234 Bouquet Canyon Rd.
Santa Clarita, CA 91350

Possible Partnering Agencies:

Name: *

James Leserman

Title:

Senior Engineer

Telephone: *

661-297-1600 Ext. 245

Fax:

661-513-1202

Email: *

jleserman@clwa.org

Website:

Project Name: *

West Saugus Formation Groundwater Resources Monitoring Project

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34° 25'N

Project Longitude: 118° 33'W

Location Description:	All of the Santa Clarita Valley with particular emphasis on the east side of Railroad Avenue south of Bouquet Junction
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

•
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

The primary objective of the project is to determine the horizontal and vertical extent of perchlorate migration in the Saugus Formation, a major source of drinking water in the Santa Clarita valley. The project will include a permanent, multi-level monitoring well and will provide geologic, hydraulic, and water quality data for an area downgradient of water supply wells that have been impacted by perchlorate. These wells are completed in the Saugus Formation, which is the deeper of two aquifers that are present in the Santa Clarita Valley. Currently, it is unknown whether perchlorate has migrated downgradient of the group of perchlorate-impacted Saugus Formation wells and to what extent, if any, that the downgradient wells might be threatened with future contamination. This uncertainty is of heightened concern to the water providers in the valley because of the importance of the Saugus Formation aquifer for providing drought-year firming supplies for urban areas in the Santa Clarita Valley. Consequently, conducting the proposed project to meet the data needs objectives specified above will also address and inform a larger CLWA objective of implementing its groundwater management plan and developing long-term solutions for managing the perchlorate plume that is present in the Saugus Formation.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The proposed project consists of planning, design, and construction of a deep, multi-level monitoring well. It includes borehole drilling, multi-level monitoring well installation, and groundwater monitoring at a location downgradient of areas of known perchlorate contamination in the Santa Clarita basin's deep aquifer system (the Saugus Formation). Specific activities to occur under the proposed project are:

- Project planning including well siting, agency coordination, design of the new monitoring well and selection of a qualified drilling contractor.
- Drilling and geologic and geophysical logging to identify hydrostratigraphic units at the drilling location.
- Installing a permanent, multi-level monitoring well that can be used to monitor for perchlorate presence and/or changes in perchlorate concentrations through time.

The primary goal of the project is to determine the horizontal and vertical extent of perchlorate migration in the Saugus Formation, a major source of drinking water in the Santa Clarita valley. The project will include a permanent, multi-level monitoring well and will provide geologic, hydraulic, and water quality data for an area downgradient of water supply wells that have been impacted by perchlorate. These wells are completed in the Saugus Formation, which is the deeper of two aquifers that are present in the Santa Clarita Valley. Currently, it is unknown whether perchlorate has migrated downgradient of the group of perchlorate-impacted Saugus Formation wells and to what extent, if any, that the downgradient wells might be threatened with future contamination. This uncertainty is of heightened concern to the water providers in the valley because of the importance of the Saugus Formation aquifer for providing drought-year firming supplies for urban areas in the Santa Clarita Valley. Additionally, this uncertainty has a bearing on current efforts to design a hydraulic containment system that has the objective of containing the perchlorate plume while restoring groundwater production (with wellhead treatment) at the impacted production wells. Consequently, conducting the proposed project to meet the data needs objectives specified above will also address and inform a larger CLWA objective of implementing its groundwater management plan and developing long-term solutions for managing the perchlorate plume that is present in the Saugus Formation. Specifically, conducting this project at a location west and northwest of VWC-201 and VWC-205 will inform groundwater modeling and other hydrogeologic and engineering analyses that are in progress by CLWA. These analyses are evaluating the likely ability of alternative pumping strategies to meet the CLWA's goals of creating a hydraulic containment zone in the Saugus Formation, protecting downgradient impacted wells, and (with wellhead treatment) restoring water supply production capacity at impacted Saugus Formation wells. In meeting this broader objective, the proposed project will further facilitate CLWA's ability to address concerns by state regulatory agencies with which it is working (the county Department of Public Health (DPH) and the Department of Toxic Substances Control (DTSC), which is reviewing and overseeing the ongoing voluntary cleanup activities in the area).

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- | |
|--------------------|
| • Alluvial Aquifer |
| • Saugus Formation |

Please identify up to three available documents which contain information specific to the proposed project:

- | |
|--|
| • East Santa Clara Basin Groundwater Study |
| • Groundwater Quarterly Monitoring Reports, Operable Unit 7, Former Whittaker Bermite Facility |
| • 2003 CLWA Groundwater Management Plan |

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>_____</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>_____</p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>The project would improve water quality by providing geologic, hydraulic, and water quality data necessary in order to assess the potential for groundwater contamination; and to develop long-term solutions for pollution prevention within the aquifers.</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>The projects characterization and solution of groundwater contamination problems would promote resource stewardship by preserving the groundwater quality for beneficial use in the basin and for beneficial use of surface water and groundwater discharges from the basin.</p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	<p>_____</p>
<p>Take actions within the watershed to adapt to climate change</p>	<p>_____</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>_____</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Salt and Salinity Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Land Use Planning and Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Feasibility Study	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Design and Cost Estimates	<u>Preliminary Cost Estimate Available</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Exempt, Class 4 and Class 6</u>	_____ (mm/dd/yyyy)
Permits	<u>Will require a monitoring well permit with Los Angeles County Dept of Public Health</u>	_____ (mm/dd/yyyy)
Construction Drawings	<u>NA</u>	_____ (mm/dd/yyyy)
Funding	<u>Not initiated</u>	_____ (mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

A scope of work, proposal schedule, and cost estimate have been developed for the project and are available. This information was recently provided in the DWR Proposition 84 Local Groundwater Assistance grant application in March 2012.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Does the project address any known environmental justice issues? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
Is the project located within or adjacent to a disadvantaged community? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
Does the project include disadvantaged community participation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input checked="" type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input type="checkbox"/>	Provides Additional Water Supply
<input checked="" type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): _____

Upper estimated total capital cost (\$): _____

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):

Annual Operation and Maintenance Cost (\$): _____

Design Life of Project (years): _____

DRAFT COST ESTIMATE

Budget Category	Funding Match	Requested Grant Funding	Total
Task 1. Well Siting and Agency Coordination	\$10,810	\$0	\$10,810
Task 2.1 Specifications and Public Bid Package	\$18,590	\$0	\$18,590
Task 2.2 Well Drilling, Construction, and Development	\$202,315	\$250,000	\$452,315
Task 2.3 Initial Groundwater Monitoring	\$20,650	\$0	\$20,650
Task 2.4 Reporting	\$18,020	\$0	\$18,020
Task 2.5 Safety and Quality Assurance	\$14,270	\$0	\$14,270
Task 2.6 Stakeholder Coordination and Communication	\$12,020	\$0	\$12,020
Project Contingency (15%)	\$82,000	\$0	\$82,000
Total	\$378,675	\$250,000	\$628,675

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Newhall County Water District

Agency / Organization / Individual Address:

Newhall County Water District 23780 North Pine Street, Newhall, Ca 91321

Possible Partnering Agencies:

Name: *

Steve Cole

Title:

General Manager

Telephone: *

(661) 259-3610

Fax:

(661) 259-9673

Email: *

scole@ncwd.org

Website:

www.ncwd.org

Project Name: *

Santa Clara River-Sewer Trunk Line Relocation Phase II and III

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude:

Project Longitude:

Location Description:	This project will take place in the Eastern Reach of the Upper Santa Clara River. The sewer trunk line being removed is in the Santa Clara River Bed near the Sand Canyon Bridge, and approximately one mile downstream
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

•
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

In Design

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>The Santa Clara River is dry most of the year. However, it is susceptible to flooding and high amounts of seasonal flows. Within the riverbed, Newhall County Water District (NCWD or District) maintains a portion of sewer trunk line in the Canyon Country area of Santa Clarita. When rainfall amounts are extremely large, the Santa Clara River swells and impacts the area occupied by the trunk line. The large River flow erodes the dirt around the sewer line and propels debris that could cause a line break. A line break would cause an unauthorized release of raw sewage in the Santa Clara River. Not only would a line break be detrimental to the ecosystems in and around the river, but also could affect domestic groundwater wells within the region. The project will meet the following objectives of the IRWMP: Improve Water Quality and Promote Resource Stewardship.</p>

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

Within the riverbed, Newhall County Water District (NCWD) maintains a portion of a sewer trunk line in the Canyon Country area of Santa Clarita. NCWD has owned and operated this trunk line since the late 1960's and has previously combated sewer trunk line breakage by preventative maintenance and proactive responses. Nevertheless, the threat of an accidental release has become increasingly evident and relocation of the trunk line out of the riverbed is now a priority. A line break would be detrimental to the ecosystems in and around the river and also could affect domestic groundwater wells within the region.

The Sewer Trunk Line Removal Project is proposed in phases, with Phase 1 being the engineering and planning associated with relocating the sewer trunk line out of the Santa Clara riverbed. Phase 2 would concentrate on the actual removal or the gravity feed portion of the sewer trunk line. Within Phase 2, construction activities would relocate the sewer flow fed by gravity, prior to the proposed sewer lift station, into the public right-of-way. In Phase 3, the construction of a sewer lift station, forced sewer main, and the remaining gravity feed portion of the sewer trunk line to complete the relocation project. Funding is being requested for Phases 2 and 3.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

<ul style="list-style-type: none">• Upper Santa Clara River
<ul style="list-style-type: none">•
<ul style="list-style-type: none">•
<ul style="list-style-type: none">•

Please identify up to three available documents which contain information specific to the proposed project:

<ul style="list-style-type: none">• Sand Canyon Sewer Relocation Report, Alliance Land Planning and Engineering. (November 2009)
<ul style="list-style-type: none">• Upper Santa Clara River IRWMP, Implementation Grant Application, Round 1
<ul style="list-style-type: none">•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>_____</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>During large storms, there is a possibility that large debris washed down the stream channel could hit the sewer line and cause a break. Such a break would cause release of raw sewage into the stream channel, requiring SCWD to stop pumping from their five groundwater wells located downstream. When there is a spill, it is assumed that groundwater pumping from SCWD's wells will need to be stopped for 2 months to allow for cleanup. During that time, lost groundwater pumping will be replaced by additional imported water brought to the region by CLWA.</p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>It is possible that this project could have an indirect positive impact to the underlying groundwater basin by increasing reliability of the resource by protecting the recharge area, and improving the water quality.</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>Extensive patches of high-quality riparian habitat exist along the length of the Santa Clara River downstream of the project area. In addition, the river serves as an important wildlife corridor. Without the project, when a raw sewage spill occurs as a result of a break of the sewer line, it will be discharged directly into the river. This would result in short-term adverse effects on the surrounding Santa Clara River ecosystem.</p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	<p>_____</p>
<p>Take actions within the watershed to adapt to climate change</p>	<p>_____</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>_____</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, please identify the program	Phase II and III of the Santa Clara River-Sewer Trunk Line Relocation Project. Phase I was funded by the Round 1 Implementation grant and is currently being implemented.

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	<u>Complete</u>	<u>11/2009</u> (mm/dd/yyyy)
Feasibility Study	<u>In process</u>	<u>12/2012</u> (mm/dd/yyyy)
Preliminary Design and Cost Estimates	<u>In process</u>	<u>12/2012</u> (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	<u>06/2013</u> (mm/dd/yyyy)
Permits	<u>Not initiated</u>	<u>06/2013</u> (mm/dd/yyyy)
Construction Drawings	<u>In process</u>	<u>06/2013</u> (mm/dd/yyyy)
Funding	<u>In process</u>	_____ (mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

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Does the project address any known environmental justice issues? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
Is the project located within or adjacent to a disadvantaged community? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
Does the project include disadvantaged community participation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input checked="" type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input type="checkbox"/>	Provides Additional Water Supply
<input checked="" type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input checked="" type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input checked="" type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 2,500,000

Upper estimated total capital cost (\$): 4,000,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):
none for Phase 2 and 3

Annual Operation and Maintenance Cost (\$): 30,000

Design Life of Project (years): 50 years

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Newhall County Water District

Agency / Organization / Individual Address:

Newhall County Water District / 23780 North Pine Street, Newhall, CA 91321

Possible Partnering Agencies:

Castaic Lake Water Agency, Santa Clarita Water Division, Valencia Water Company and LA County Waterworks #36

Name: *

Steve Cole

Title:

General Manager

Telephone: *

661-259-3610

Fax:

Email: *

sole@ncwd.org

Website:

www.ncwd.org

Project Name: *

Santa Clarita Valley Residential Turf Removal Program

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude:

Project Longitude:

Location Description:	
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

•
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

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Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>Turf grass is the highest user of irrigation water in the Santa Clarita Valley. By incentivizing the removal of turf grass and replacing it with either low water using plants or by creating a non water using habitat, we expect to reduce runoff and decrease water usage. The program would reduce turf grass by 292,500 sq ft in year 1 and 585,000 sq ft total over 2 years. The estimated water savings is 20/21 acre feet for year 1. 40/42 acre feet for year 2.</p>
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Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The project would offer residential customers a rebate of up to \$1,500 per residence to remove up to 1,500 sq ft of turf grass. We would offer \$1.00 per sq ft removed. The program will be designed with Long Beach Water Departments Lawn to Grass Program as our model.
--

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

•
•
•
•

Please identify up to three available documents which contain information specific to the proposed project:

• Santa Clarita Valley Cash for Grass Rebate Program – SCVWUE Strategic Plan
• Long Beach Water Lawn to Garden Program - www.lblawntogarden.com
•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>The program would reduce potable water usage by <u>20/21 ac ft in year 1 and 40/42 ac ft in year 2.</u></p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>_____</p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>_____</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>_____</p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	<p>The program will reduce runoff from watering turf grass.</p>
<p>Take actions within the watershed to adapt to climate change</p>	<p>_____</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>_____</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Feasibility Study	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Design and Cost Estimates	<u>Not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Construction Drawings	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Funding	<u>Not initiated</u>	_____ (mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

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Does the project address any known environmental justice issues? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
Is the project located within or adjacent to a disadvantaged community? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
Does the project include disadvantaged community participation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input checked="" type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input checked="" type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 625,000

Upper estimated total capital cost (\$): 625,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$): 0

Annual Operation and Maintenance Cost (\$): 312,500

Design Life of Project (years): 2

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Castaic Lake Water Agency

Agency / Organization / Individual Address:

27234 Bouquet Canyon Rd.
Santa Clarita, CA 91350

Possible Partnering Agencies:

Newhall County Water District, City of Santa Clarita, Los Angeles County Water District #36

Name: *

James Leserman

Title:

Senior Engineer

Telephone: *

661-297-1600 Ext. 245

Fax:

661-513-1202

Email: *

jleserman@clwa.org

Website:

Project Name: *

Santa Clarita Valley Volatile Organic Carbon Groundwater Investigation

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34° 26'N

Project Longitude: 118° 35'W

Location Description:	All of the Santa Clarita Valley with particular emphasis on the east side of Railroad Avenue south of Bouquet Junction
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Newhall County Water District
• Los Angeles County Water District #36
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Groundwater provides the Santa Clarita Valley (SCV) with about half of its water supply. Volatile organic compounds (VOC) have contaminated SCV aquifers. VOCs have been detected in some SCV municipal water wells at levels below the current maximum contaminant level (MCL). CLWA and the retail water agencies are concerned that an increase in concentration and a likely reduction in the MCL for certain VOCs (TCE and PCE) could cause some current municipal wells to exceed the MCL. Unless action is taken and the threat is removed, this vital source of SCV's water supply could become compromised and ultimately eliminated.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The project would be divided into three basic phases: investigation, design phase and construction. The investigation phase would include VOC sources identification and pathways to drinking water wells determination. The design phase would include selection of a strategy (containment at the source vs. wellhead treatment), selection of a removal technology (granular activated carbon, air stripping, etc.) and actual design of the wells and treatment processes. Depending on the results of the first two phases the construction phase could include construction and installation of wells, construction of a VOC removal process and associated piping.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Alluvial Aquifer
• Saugus Formation
•
•

Please identify up to three available documents which contain information specific to the proposed project:

• East Santa Clara Basin Groundwater Study
• Groundwater Quarterly Monitoring Reports, Operable Unit 7, Former Whittaker Bermite Facility
• 2003 CLWA Groundwater Management Plan

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>_____</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>_____</p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>The project would improve water quality by providing geologic, hydraulic, and water quality data necessary in order to assess the potential for groundwater contamination; and in order to develop long-term solutions for pollution prevention within the aquifers.</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>The projects characterization and solution of groundwater contamination problems would promote resource stewardship by preserving the groundwater quality for beneficial use in the basin and for beneficial use of surface water and groundwater discharges from the basin.</p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	<p>_____</p>
<p>Take actions within the watershed to adapt to climate change</p>	<p>_____</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>_____</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Salt and Salinity Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Land Use Planning and Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Please State: _____

<p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>If yes, please identify the program _____</p>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Feasibility Study	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Design and Cost Estimates	<u>Not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Construction Drawings	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Funding	<u>Not initiated</u>	_____ (mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

--

Does the project address any known environmental justice issues? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
Is the project located within or adjacent to a disadvantaged community? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
Does the project include disadvantaged community participation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input checked="" type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input type="checkbox"/>	Provides Additional Water Supply
<input checked="" type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): \$250,000 (for just study looking at data from existing wells)

Upper estimated total capital cost (\$): \$5,000,000 (maximum if drilled more monitoring wells, analyzed data, and included extraction wells with treatment)

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):

Annual Operation and Maintenance Cost (\$): _____

Design Life of Project (years): _____

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Feasibility of Arundo Stem Cutting Ram (ASCR)			
Project Sponsor (Required):	Agriculture Access / Bouquet Canyon Network			
If Joint Project, Other Partners:	N/A			
Project Website (if available):	www.agricultureaccess.com			
Project Contact Person:	Phone	FAX	Email	
Roger A. Haring	805-641-3781		rah@agricultureaccess.com	
Project Description				
Project Description (1-2 sentences):				
An hydraulic ram will be used to drive a large blade through clumps of Arundo donax stems, efficiently cutting at the base of the rhizomes.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
Implementation of an Arundo Stem Cutting Ram (ASCR) could be used for any Arundo donax removal projects require large clumps (Acres) of Arundo donax.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
The project is an independent feasibility study performed by Agriculture Access and a Welding Sub-Contractor of the SCV.				
Project Location				
Descriptive (Description of property location etc.):				
This project would be designed, built, and tested in the Santa Clarita Valley.				
Latitude/Longitude - info available at:	http://geocoder.us/	Lat:		Long:
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input checked="" type="checkbox"/>	\$100K - \$1M <input type="checkbox"/>	\$1M - \$10M <input type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input type="checkbox"/>	In-Design <input checked="" type="checkbox"/>	Ready for Construction <input type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:	2013			
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input type="checkbox"/>	1-100 AF	<input type="checkbox"/>	100-1000AF
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				
If a tool can efficiently cut and remove 'whole stems' of Arundo donax from a riparian habitat without disturbing the soil or rhizomes, it will increase the speed at which biomass can be removed without inducing potential spread of invasive weed propagules and excess biomass. This tool would be attached to a hydraulic arm that can reach, pull, and lift large quantities of				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|---|
| <input checked="" type="checkbox"/> Agricultural Lands Stewardship | <input checked="" type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input checked="" type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input checked="" type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input checked="" type="checkbox"/> Forest Management | <input type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input checked="" type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)						
Project Name:	ESFP Sludge Collection System					
Project Sponsor (Required):	Castaic Lake Water Agency					
If Joint Project, Other Partners:						
Project Website (if available):						
Project Contact Person:	Phone	FAX	Email			
Jason Yim	661-297-1600	661-513-1202	jyim@clwa.org			
Project Description						
Project Description (1-2 sentences):	This project consists of modifications to the wash water return and sludge collection system at CLWA's Earl Schmidt Filtration Plant.					
Project Integration (Describe how the project does or could integrate with other projects in the Region):	This project improves the operational reliability of the wash water return system and the maintenance of the sludge collection system. As a result, it improves water quality and increases water supply in the region.					
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):	Capital Improvement Plan					
Project Location						
Descriptive (Description of property location etc.):	Castaic Lake Water Agency Earl Schmidt Filtration Plant, 32700 N. Lake Hugh Road, Castaic CA					
Latitude/Longitude - info available at:	http://geocoder.us/	Lat:	34°29'53.67"N	Long:	118°36'2.68"W	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):	Project Cost:	<\$100K	\$100K - \$1M	\$1M - \$10M	>\$10M	
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Project Status (Check all that apply):	Conceptual	In-Design	Ready for Construction	CEQA Complete		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Estimated Year of Construction:	2015 to 2017					
Project Benefits						
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input type="checkbox"/>	1-100 AF	<input type="checkbox"/>	100-1000AF	<input type="checkbox"/>	1000+ AF
Water Quality	Area Drained: and/or		Volume Treated:			
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):						
Other: (<i>Describe X amount of benefit</i>)						
	The wash water return system provides up to 10% of the water being treated at the Earl Schmidt Filtration Plant (ESFP). The capacity of the ESFP is 56 mgd.					

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|---|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input checked="" type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

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INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:		Water Use Efficiency Certification		
Project Sponsor (Required):		CLWA		
If Joint Project, Other Partners:				
Project Website (if available):				
Project Contact Person:		Phone	FAX	Email
Nancy Warfel		661-513-1206	661-297-1611	nwarfel@clwa.org
Project Description				
Project Description (1-2 sentences):				
This program provides incentives to professionals in fields utilizing water, such as landscape maintenance contractors and plumbers, to become certified as good stewards of water. This program would utilize existing certification programs such as California Landscape Contractors Association (CLCA) Water Management Certification Program and the Master Plumbers &				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
This project integrates with the current portfolio of water use efficiency education programs offered in the Santa Clarita Valley.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
N/A				
Project Location				
Descriptive (Description of property location etc.):				
Latitude/Longitude - info available at: http://geocoder.us/		Lat:		Long:
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K	\$100K - \$1M	\$1M - \$10M	>\$10M
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Project Status (Check all that apply):	Conceptual	In-Design	Ready for Construction	CEQA Complete
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Estimated Year of Construction:	2015			
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)		<input checked="" type="checkbox"/> 1-100 AF	<input type="checkbox"/> 100-1000AF	<input type="checkbox"/> 1000+ AF
Water Quality		Area Drained: and/or		Volume Treated:
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input checked="" type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input checked="" type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:		Irrigation Efficiency Program		
Project Sponsor (Required):		CLWA		
If Joint Project, Other Partners:				
Project Website (if available):				
Project Contact Person:		Phone	FAX	Email
Nancy Warfel		661-513-1206	661-297-1611	nwarfel@clwa.org
Project Description				
Project Description (1-2 sentences):				
This program provides financial incentives to end users help to increase the speed of implementation and use of efficient irrigation technologies in the Santa Clarita Valley in order to promote water use efficiency. Devices include, but are not limited to, high-efficiency sprinkler nozzles, pressure regulators, in-stem flow regulators and drip irrigation.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
This project-integrates with the current portfolio of water use efficiency programs in the Valley, and could be integrated into new conservation projects proposed as part of the update of the Water Use Efficiency Strategic Plan.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Santa Clarita Valley Water Use Efficiency Strategic Plan Update				
Project Location				
Descriptive (Description of property location etc.):				
Latitude/Longitude - info available at: http://geocoder.us/		Lat:		Long:
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:		<\$100K <input type="checkbox"/>	\$100K - \$1M <input checked="" type="checkbox"/>	\$1M - \$10M <input type="checkbox"/>
Project Status (Check all that apply):		Conceptual <input checked="" type="checkbox"/>	In-Design <input type="checkbox"/>	Ready for Construction <input type="checkbox"/>
CEQA Complete <input type="checkbox"/>				
Estimated Year of Construction:		2014		
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)		<input checked="" type="checkbox"/> 1-100 AF	<input type="checkbox"/> 100-1000AF	<input type="checkbox"/> 1000+ AF
Water Quality		Area Drained: and/or		Volume Treated:
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input checked="" type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input checked="" type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

Project Identification Short Form

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Update of the Rio Vista Water Treatment Plant Education Model			
Project Sponsor (Required):	CLWA			
If Joint Project, Other Partners:				
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
Casey Gordon	661-513-1275	661-297-1611	cgordon@clwa.org	
Project Description				
Project Description (1-2 sentences):				
CLWA believes in the importance of educating our youth, our future leaders of tomorrow, on the benefits of protecting and conserving our water supply. Part of the Education Program features interactive student activities that present interesting and age-appropriate water treatment and conservation topics. One of the teaching instruments is a large demonstration educational scale model of the Rio Vista Treatment Plant (RVWTP). The model was originally built in XXXX, and demonstrates all of the treatment activities that occur here at the RVWTP, from the clarifiers, to ozone injection, XXX, XXX. The model needs updating to match the current activities at the plant and to be consistent with current water quality regulations.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Project Location				
Descriptive (Description of property location etc.):				
CLWA Rio Vista Water Treatment Plant Administration Building				
Latitude/Longitude - info available at: http://geocoder.us/	Lat:		Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input checked="" type="checkbox"/>	\$100K - \$1M <input type="checkbox"/>	\$1M - \$10M <input type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input checked="" type="checkbox"/>	In-Design <input type="checkbox"/>	Ready for Construction <input type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:	2014-2015			
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input type="checkbox"/>	1-100 AF	<input type="checkbox"/>	100-1000AF <input type="checkbox"/>
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				



Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
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- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Santa Clarita Valley Drought Relief Wells			
Project Sponsor (Required):	Castaic Lake Water Agency			
If Joint Project, Other Partners:				
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
James Leserman	661-297-1600 Ext. 245	661-513-1202	jleserman@clwa.org	
Project Description				
Project Description (1-2 sentences):				
Two new wells would provide additional capacity that would be utilized during extreme droughts and emergencies (e.g., following a major earthquake that affected the ability of the State Water Project to convey water)				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
The project would complement recycled water and water conservation as a means of providing increased reliability and additional supplies during periods of water shortages.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Capital Improvement Plan, 2010 Urban Water Management Plan				
Project Location				
Descriptive (Description of property location etc.):				
TBD				
Latitude/Longitude - info available at: http://geocoder.us/		Lat: TBD	Long: TBD	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input type="checkbox"/>	\$100K - \$1M <input type="checkbox"/>	\$1M - \$10M <input checked="" type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input checked="" type="checkbox"/>	In-Design <input type="checkbox"/>	Ready for Construction <input type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:				
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input type="checkbox"/> 1-100 AF	<input type="checkbox"/> 100-1000AF	<input checked="" type="checkbox"/> 1000+ AF	
Water Quality	Area Drained: and/or	Volume Treated:		
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
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CA Water Plan - Water Management Strategies

- | | |
|--|---|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input checked="" type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input checked="" type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Saugus Formation Replacement Wells			
Project Sponsor (Required):	Castaic Lake Water Agency			
If Joint Project, Other Partners:				
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
James Leserman	661-297-1600 Ext. 245	661-513-1202	jleserman@clwa.org	
Project Description				
Project Description (1-2 sentences):				
Two new wells perforated in the Saugus Formation would replace groundwater production replacing capacity that was lost to perchlorate contamination. Project would include design and construction of wells, reservoir and pipelines to connect to CLWA's existing transmission system.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
Project would complement the Saugus Perchlorate Treatment Facility (SPTF) project by providing additional capacity over and above that which was replaced by the SPTF.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Capital Improvement Plan, 2003 Groundwater Management Plan, 2010 Urban Water Management Plan				
Project Location				
Descriptive (Description of property location etc.):				
Magic Mountain Parkway west of I-5				
Latitude/Longitude - info available at: http://geocoder.us/		Lat: 34° 25' 16.82"	Long: 118° 35' 25.96"	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input type="checkbox"/>	\$100K - \$1M <input type="checkbox"/>	\$1M - \$10M <input checked="" type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input checked="" type="checkbox"/>	In-Design <input type="checkbox"/>	Ready for Construction <input type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:				
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)		<input type="checkbox"/> 1-100 AF	<input type="checkbox"/> 100-1000AF	<input checked="" type="checkbox"/> 1000+ AF
Water Quality		Area Drained: and/or		Volume Treated:
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
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CA Water Plan - Water Management Strategies

- | | |
|--|---|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input checked="" type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input checked="" type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input checked="" type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input type="checkbox"/> Urban Water Use Efficiency |
| <input checked="" type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

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INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Apam and Byfield Water Main			
Project Sponsor (Required):	LA County Waterworks District No. 36			
If Joint Project, Other Partners:	N/A			
Project Website (if available):	N/A			
Project Contact Person:	Phone	FAX	Email	
Sami Kabar	626-300-3339	626-300-3385	skabar@dpw.lacounty.gov	
Project Description				
Project Description (1 -2 sentences):				
The project consists of installing approximately 1500 linear feet of 12-inch diameter water main along Byfield Road and Apam Avenue. The proposed 12-inch pipe will help improve the low pressure conditions currently experienced in the surrounding area.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
N/A				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Waterworks District No. 36, Val Verde Capital Improvement 5-yr Plan.				
Project Location				
Descriptive (Description of property location etc.):				
The proposed pipeline will be installed along a private dirt road beginning near 30334 Byfield Road going east, then continuing south on the private dirt road onto Apam Avenue, ending at the intersection of Apam Avenue and Hawkset Street.				
Latitude/Longitude - info available at: http://geocoder.us/		Lat:	Long:	
		34.476576	-118.66518	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	600,000	<\$100K <input type="checkbox"/>	\$100K - \$1M <input checked="" type="checkbox"/>	\$1M - \$10M <input type="checkbox"/>
Project Status (Check all that apply):		Conceptual <input checked="" type="checkbox"/>	In-Design <input type="checkbox"/>	Ready for Construction <input type="checkbox"/>
CEQA Complete				<input type="checkbox"/>
Estimated Year of Construction:	2014			
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input type="checkbox"/>	1-100 AF	<input type="checkbox"/>	100-1000AF
			<input type="checkbox"/>	1000+ AF
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				
Improved water pressure to local residents by 10-20 psi during high water demand periods.				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
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CA Water Plan - Water Management Strategies

- | | |
|---|---|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input checked="" type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Landscape Irrigation Efficiency Program			
Project Sponsor (Required):	Los Angeles County Waterworks District #36 (LACWD#36)			
If Joint Project, Other Partners:				
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
Rea Gonzalez	626-300-3338	626-300-3385	rjoseph@dpw.lacounty.gov	
Project Description				
Project Description (1-2 sentences):				
This program will provide a service to customers to help decrease outdoor water use. It will involve an intensive water use survey of the landscaped area and the installation of high efficiency nozzles.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
This program can be offered region-wide.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Water Conservation/Efficiency				
Project Location				
Descriptive (Description of property location etc.):				
Val Verde				
Latitude/Longitude - info available at: http://geocoder.us/		Lat:		Long:
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K	\$100K - \$1M	\$1M - \$10M	>\$10M
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Project Status (Check all that apply):	Conceptual	In-Design	Ready for Construction	CEQA Complete
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Estimated Year of Construction:				
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)		<input checked="" type="checkbox"/>	1-100 AF	<input type="checkbox"/>
			100-1000AF	<input type="checkbox"/>
			1000+ AF	<input type="checkbox"/>
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
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CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Cash for Grass Rebate Program			
Project Sponsor (Required):	Los Angeles County Waterworks District #36			
If Joint Project, Other Partners:				
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
Rea Gonzalez	626-300-3338	626-300-3385	rjoseph@dpw.lacounty.gov	
Project Description				
Project Description (1-2 sentences):	The Cash for Grass Rebate Program will offer customers a rebate per square foot of grass removed and replaced with water-efficient landscaping.			
Project Integration (Describe how the project does or could integrate with other projects in the Region):	This project can be integrated by offering the same rebate program to all customers of the region. This can be a region wide program administered by each provider.			
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):	Water Conservation/Efficiency			
Project Location				
Descriptive (Description of property location etc.):	Val Verde			
Latitude/Longitude - info available at: http://geocoder.us/	Lat:		Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K	\$100K - \$1M	\$1M - \$10M	>\$10M
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Project Status (Check all that apply):	Conceptual	In-Design	Ready for Construction	CEQA Complete
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Estimated Year of Construction:				
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input checked="" type="checkbox"/>	1-100 AF	<input type="checkbox"/>	100-1000AF
			<input type="checkbox"/>	1000+ AF
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

Project Identification Short Form

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Advanced Meter Infrastructure			
Project Sponsor (Required):	Los Angeles County Waterworks District #36 (LACWD#36)			
If Joint Project, Other Partners:				
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
Rea Gonzalez	626-300-3338	626-300-3385	rjoseph@dpw.lacounty.gov	
Project Description				
Project Description (1-2 sentences):	This project will entail the installation of Automatic Meter Infrastructure (AMI) in all properties served by LACWD #36.			
Project Integration (Describe how the project does or could integrate with other projects in the Region):	This project will provide customers the ability to use water more efficiently and provide LACWD #36 the ability to detect problems on their systems and operate them more efficiently.			
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):	Water Conservation/Efficiency			
Project Location				
Descriptive (Description of property location etc.):	Val Verde			
Latitude/Longitude - info available at:	http://geocoder.us/	Lat:		Long:
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K	\$100K - \$1M	\$1M - \$10M	>\$10M
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Project Status (Check all that apply):	Conceptual	In-Design	Ready for Construction	CEQA Complete
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Estimated Year of Construction:				
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input checked="" type="checkbox"/>	1-100 AF	<input type="checkbox"/>	100-1000AF
			<input type="checkbox"/>	1000+ AF
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

Project Identification Short Form

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Replacement of 8-inch Water Main Along Del Valle Road			
Project Sponsor (Required):	LA County Waterworks District No. 36			
If Joint Project, Other Partners:				
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
Ramy Gindi	626-300-3349		rgindi@dpw.lacounty.gov	
Project Description				
Project Description (1-2 sentences):	Replace 6,900 feet of existing 8-inch water main along Del Valle Road with a 12-inch water main.			
Project Integration (Describe how the project does or could integrate with other projects in the Region):	N/A			
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):	Capital Improvement Plans			
Project Location				
Descriptive (Description of property location etc.):	The water main will commence at the intersection of Del Valle Road and Hasley Canyon, and connect to the existing system 6,900 feet south of the intersection.			
Latitude/Longitude - info available at:	http://geocoder.us/	Lat:	34.449296 ° N 34 ° 26'	Long:
				-118.626739 ° W 118 ° 37'
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input type="checkbox"/>	\$100K - \$1M <input checked="" type="checkbox"/>	\$1M - \$10M <input type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input checked="" type="checkbox"/>	In-Design <input type="checkbox"/>	Ready for Construction <input type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:	2015			
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input type="checkbox"/>	1-100 AF	<input type="checkbox"/>	100-1000AF
	<input type="checkbox"/>	1000+ AF		
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)	The project is a water system reliability project that would provide a more reliable potable water supply to 1,346 customers. The proposed project would replace aged infrastructure with high susceptibility to leaks.			

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input checked="" type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

Project Identification Short Form

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Hasley Canyon Road Water Main, Turnout Connection, and Pump Station Project			
Project Sponsor (Required):	LA County Waterworks District No. 36			
If Joint Project, Other Partners:				
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
Ramy Gindi	626-300-3349		rgindi@dpw.lacounty.gov	
Project Description				
Project Description (1-2 sentences):				
Design and construction of a new turnout, pump station and 5,700 feet of water main to provide a more reliable connection with Castaic Lake Water Agency. The proposed connection would supplement a smaller and an aged connection that is more susceptible to failure and leaks.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
N/A				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Capital Improvement Plan				
Project Location				
Descriptive (Description of property location etc.):				
The turnout will be located on Sedona Way near the intersection with The Old Road in Castaic. The water main will commence at the intersection of Hasley Canyon and The Old Road, and connect to the existing system at Industry Drive. The pump station will be located along the proposed main.				
Latitude/Longitude - info available at: http://geocoder.us/		Lat: 34.457908 ° N 34 ° 27'	Long: -118.617326 ° W 118 ° 37'	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input type="checkbox"/>	\$100K - \$1M <input type="checkbox"/>	\$1M - \$10M <input checked="" type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input checked="" type="checkbox"/>	In-Design <input type="checkbox"/>	Ready for Construction <input type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:	2015			
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input type="checkbox"/> 1-100 AF	<input type="checkbox"/> 100-1000AF	<input type="checkbox"/> 1000+ AF	
Water Quality	Area Drained: and/or	Volume Treated:		
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				
The project is a water system reliability project that would provide a more reliable potable water supply to 1,346 customers. The connection is estimated to deliver 585 AFY. The project would minimize the amount of water lost through leaks.				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input checked="" type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name: *

Ken Zimmer

Title:

Senior Civil Engineer

Telephone: *

626-458-6188

Fax:

626-979-5436

Email: *

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name: *

Newhall Creek In-River Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude:

Project Longitude:

Location Description:	Near Confluence of Newhall Creek and Santa Clara River South Fork
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):	
•	Los Angeles County Flood Control District/Ken Zimmer
•	
•	
•	

Project Status (e.g., new, ongoing, expansion, new phase):	
	New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

<p>The Newhall Creek In-River Spreading Grounds Project would consist of excavating a portion of the river and widening the river to provide in-stream recharge basins. Habitat could be restored along the river. Earthen berms would be constructed to divert the water into the basins. The berms may be washed out during high flows and would need to be reestablished. Trash would be detained in and then removed from the outer basins.</p>

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

<ul style="list-style-type: none">• Santa Clara River Watershed
<ul style="list-style-type: none">• Santa Clara River Valley Groundwater Basin, East Subbasin
<ul style="list-style-type: none">• Santa Clara River South Fork
<ul style="list-style-type: none">•

Please identify up to three available documents which contain information specific to the proposed project:

<ul style="list-style-type: none">• Santa Clara River Watershed Water Conservation Feasibility Study
<ul style="list-style-type: none">•
<ul style="list-style-type: none">•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Trash will be collected in and removed from the outer basins
Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the spreading grounds could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Diverting the water for recharge to an in-stream area in the river may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Please State: _____

<p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>If yes, please identify the program _____</p>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2013 (mm/dd/yyyy)
Feasibility Study	Complete	11/14/2007 (mm/dd/yyyy)
Preliminary Design and Cost Estimates	Not initiated	(mm/dd/yyyy)
CEQA/NEPA	Not initiated	(mm/dd/yyyy)
Permits	Not initiated	(mm/dd/yyyy)
Construction Drawings	Not initiated	(mm/dd/yyyy)
Funding	Not initiated	(mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected and removed. Habitat restoration and/or the removal of invasive species will be performed to offset any disturbances caused by the construction of the project.

The project will result in a temporary storage of 25 acre-feet of storm runoff which equates to about 75 acre-feet of water conservation. It will benefit 1 acre of riparian habitat area, and 4 acres of non-developed open space area.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 2,000,000.00

Upper estimated total capital cost (\$): 5,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):
Unknown

Annual Operation and Maintenance Cost (\$): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name: *

Ken Zimmer

Title:

Senior Civil Engineer

Telephone: *

626-458-6188

Fax:

626-979-5436

Email: *

kzimmer@dpw.lacounty.gov

Website:

NA

Project Name: *

Lower San Francisquito Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°26'53.27"N

Project Longitude: 118°33'30.51"W

Location Description:	San Francisquito Creek, Upstream of Decoro Drive, North Bank
------------------------------	--

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Los Angeles County Flood Control District/Ken Zimmer
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

This project consists of building a recharge facility and diversion. Flows will be redirected to the west bank and to the property adjacent to the river where basins for recharge will be excavated. An earthen diversion will wash out during major storms and will later need to be rebuilt. There may be opportunities for habitat restoration and passive recreation in the surrounding areas. Trash that washes into the river will be collected in the basins and be removed regularly.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Santa Clara River Watershed
• Santa Clara River Valley Groundwater Basin, East Subbasin
• San Francisquito Canyon Creek
•

Please identify up to three available documents which contain information specific to the proposed project:

• Santa Clara River Watershed Water Conservation Feasibility Study
•
•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>N/A</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.</p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>Soil aquifer treatment will remove contaminants such as heavy metals and trash from the water. Trash will be collected and removed before entering the spreading grounds. Annual basin maintenance will remove the top clogging layer of soil where the heavy metals settle out. Additional water recharged would serve to blend any groundwater that may have contaminants.</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>The construction of the spreading grounds provides habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.</p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	<p>Diverting the water from the main river for recharge may prevent flooding downstream.</p>
<p>Take actions within the watershed to adapt to climate change</p>	<p>N/A</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>N/A</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Salt and Salinity Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Please State: _____

<p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>If yes, please identify the program _____</p>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2014 (mm/dd/yyyy)
Feasibility Study	Complete	11/14/2007 (mm/dd/yyyy)
Preliminary Design and Cost Estimates	Not initiated	(mm/dd/yyyy)
CEQA/NEPA	Not initiated	(mm/dd/yyyy)
Permits	Not initiated	(mm/dd/yyyy)
Construction Drawings	Not initiated	(mm/dd/yyyy)
Funding	Not initiated	(mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected and habitat restoration and/or passive recreation are possible at the site.

The project will result in a temporary storage of 190 acre-feet of storm runoff for a water conservation benefit of about 570 acre-feet. It will benefit 10 acres of riparian habitat area, and 35 acres of non-developed open space area.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 3,000,000.00

Upper estimated total capital cost (\$): 6,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):
Unknown

Annual Operation and Maintenance Cost (\$): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name: *

Ken Zimmer

Title:

Senior Civil Engineer

Telephone: *

626-458-6188

Fax:

626-979-5436

Email: *

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name: *

Placerita Creek Off-River Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°23'29.64"N

Project Longitude: 118°32'5.73"W

Location Description:	Near Confluence of Placerita Creek and Santa Clara River South Fork
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Los Angeles County Flood Control District/Ken Zimmer
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.</p> <p>If the project is not constructed imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.</p>

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The Placerita Creek Off-River Spreading Grounds Project would consist of building a recharge facility and a diversion structure. Storm flows from the creek and the South Fork of the Santa Clara River would be diverted into the spreading basin using an earthen berm. Trash would wash into the spreading grounds and be removed post storm. The spreading grounds could incorporate habitat restoration and/or passive recreation.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Santa Clara River Watershed
• Santa Clara River Valley Groundwater Basin, East Subbasin
• Santa Clara River South Fork
•

Please identify up to three available documents which contain information specific to the proposed project:

• Santa Clara River Watershed Water Conservation Feasibility Study
•
•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	N/A
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	Soil aquifer treatment will remove contaminants such as metals and trash from the water. Trash will be collected and removed before entering the spreading grounds.
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	The construction of the spreading grounds could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	Diverting the water from the main river for recharge may prevent flooding downstream.
<p>Take actions within the watershed to adapt to climate change</p>	N/A
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Please State: _____

<p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>If yes, please identify the program _____</p>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2014 (mm/dd/yyyy)
Feasibility Study	Complete	11/14/2007 (mm/dd/yyyy)
Preliminary Design and Cost Estimates	Not initiated	(mm/dd/yyyy)
CEQA/NEPA	Not initiated	(mm/dd/yyyy)
Permits	Not initiated	(mm/dd/yyyy)
Construction Drawings	Not initiated	(mm/dd/yyyy)
Funding	Not initiated	(mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected and removed. The site has potential for habitat restoration and/or passive recreation features.

The project will result in a temporary storage of 75 acre-feet of storm runoff which equates to about 220 acre-feet of water conservation. It will benefit 3 acres of riparian habitat area, and 14 acres of non-developed open space area.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 3,000,000.00

Upper estimated total capital cost (\$): 7,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):
Unknown

Annual Operation and Maintenance Cost (\$): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name: *

Ken Zimmer

Title:

Senior Civil Engineer

Telephone: *

626-458-6188

Fax:

626-979-5436

Email: *

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name: *

Santa Clara River Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°24'57.84"N

Project Longitude: 118°26'3.47"W

Location Description:	Santa Clara River between 14 FWY and Sand Canyon Road
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Los Angeles County Flood Control District/Ken Zimmer
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.</p> <p>If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.</p>
--

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

This project would construct earthen levees in the river to slow down and spread flows across the river. Another levee would direct flows to an adjacent property along the south bank. The diversion levee would wash-out during higher flows to minimize damage to the proposed levees. The off-river portion of this proposal could be designed to incorporate habitat and passive recreation. Trash would be diverted and detained at the basins for post-storm removal.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Santa Clara River Watershed
• Santa Clara River Valley Groundwater Basin, East Subbasin
• Santa Clara River
•

Please identify up to three available documents which contain information specific to the proposed project:

• Santa Clara River Watershed Water Conservation Feasibility Study
•
•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	N/A
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	Soil aquifer treatment will remove contaminants such as metals and trash from the water. Trash will be collected and removed at the spreading grounds.
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	The construction of the spreading grounds provides habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	Diverting the water for recharge to an in-stream area in the river may prevent flooding downstream.
<p>Take actions within the watershed to adapt to climate change</p>	N/A
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Please State: _____

<p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>If yes, please identify the program _____</p>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2014 (mm/dd/yyyy)
Feasibility Study	Complete	11/14/2007 (mm/dd/yyyy)
Preliminary Design and Cost Estimates	Not initiated	(mm/dd/yyyy)
CEQA/NEPA	Not initiated	(mm/dd/yyyy)
Permits	Not initiated	(mm/dd/yyyy)
Construction Drawings	Not initiated	(mm/dd/yyyy)
Funding	Not initiated	(mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected at the spreading grounds. Habitat restoration and/or passive recreation could be implemented at the spreading grounds site.

The project will result in storage of 348 acre-feet of storm runoff and 1040 acre-feet of water conservation benefit in an average water year. It will also benefit 10 acres of riparian habitat area, and 74 acres of non-developed open space area.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 7,000,000.00

Upper estimated total capital cost (\$): 10,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):

Annual Operation and Maintenance Cost (\$): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name: *

Ken Zimmer

Title:

Senior Civil Engineer

Telephone: *

626-458-6188

Fax:

626-979-5436

Email: *

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name: *

Santa Clara River Rubber Dam No. 1

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°25'28.15"N

Project Longitude: 118°32'23.15"W

Location Description:	Santa Clara River, Bouquet Canyon Road Bridge
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Los Angeles County Flood Control District/Ken Zimmer
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

An air inflatable rubber dam will be constructed at the proposed location in the Santa Clara River. During storm flows, the rubber dam will inflate, and the water will pond and percolate behind the rubber dam. During nonstorm weather, the rubber dam will stay deflated to allow lower flows in the river to pass without obstruction. Habitat will be restored along the river. Trash that collects behind the rubber dam will be removed.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Santa Clara River Watershed
• Santa Clara River Valley Groundwater Basin, East Subbasin
• Santa Clara River South Fork
•

Please identify up to three available documents which contain information specific to the proposed project:

• Santa Clara River Watershed Water Conservation Feasibility Study
•
•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	N/A
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	Trash will be collected and removed at the rubber dam.
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	The construction of the rubber dam could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	Detaining the water for recharge to an in-stream area in the river may prevent flooding downstream.
<p>Take actions within the watershed to adapt to climate change</p>	N/A
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Please State: _____

<p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>If yes, please identify the program _____</p>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2013 (mm/dd/yyyy)
Feasibility Study	Complete	11/14/2007 (mm/dd/yyyy)
Preliminary Design and Cost Estimates	Not initiated	(mm/dd/yyyy)
CEQA/NEPA	Not initiated	(mm/dd/yyyy)
Permits	Not initiated	(mm/dd/yyyy)
Construction Drawings	Not initiated	(mm/dd/yyyy)
Funding	Not initiated	(mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected and removed at the rubber dam. Removal of non-native species could be incorporated at the site.

The project will result in storage of 78 acre-feet of storm runoff, and 230 acre-feet of water conservation benefit per average water year. The project will also benefit 6 acres of riparian habitat area.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 5,000,000.00

Upper estimated total capital cost (\$): 7,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):

Annual Operation and Maintenance Cost (\$): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name: *

Ken Zimmer

Title:

Senior Civil Engineer

Telephone: *

626-458-6188

Fax:

626-979-5436

Email: *

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name: *

Santa Clara Off-River Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°24'34.74"N

Project Longitude: 118°28'20.72"W

Location Description:	Upstream of Whites Canyon Road Crossing on Santa Clara River.
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Los Angeles County Flood Control District/Ken Zimmer
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The project would install a diversion in the Santa Clara River that would convey water to the adjacent property where recharge basins would be constructed. Trash would be collected in the spreading grounds. The streamflow gages would be placed to determine the amount of water that is being directed to the spreading grounds. Passive recreation and habitat restoration could be incorporated into the design of the facility
--

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Santa Clara River Watershed
• Santa Clara River Valley Groundwater Basin, East Subbasin
• Santa Clara River
•

Please identify up to three available documents which contain information specific to the proposed project:

• Santa Clara River Watershed Water Conservation Feasibility Study
•
•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Soil aquifer treatment will remove contaminants such as heavy metals and trash from the water. Trash will be collected and removed before entering the spreading grounds.
Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the spreading grounds provides habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Diverting the water from the main river for recharge may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Please State: _____

<p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>If yes, please identify the program _____</p>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2014 (mm/dd/yyyy)
Feasibility Study	Complete	11/14/2007 (mm/dd/yyyy)
Preliminary Design and Cost Estimates	Not initiated	(mm/dd/yyyy)
CEQA/NEPA	Not initiated	(mm/dd/yyyy)
Permits	Not initiated	(mm/dd/yyyy)
Construction Drawings	Not initiated	(mm/dd/yyyy)
Funding	Not initiated	(mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected at the spreading grounds. Habitat restoration and/or passive recreation could be incorporated at this location.

The project will result in storage of 223 acre-feet of storm runoff and 670 acre-feet of water conservation benefit per average water year. It will benefit 10 acres of riparian habitat, and 41 acres of non-developed open space area.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 4,000,000.00

Upper estimated total capital cost (\$): 7,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):

Annual Operation and Maintenance Cost (\$): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name: *

Ken Zimmer

Title:

Senior Civil Engineer

Telephone: *

626-458-6188

Fax:

626-979-5436

Email: *

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name: *

SCR South Fork Rubber Dam No. 2

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°24'26.41"N

Project Longitude: 118°32'28.57"W

Location Description:	Santa Clara River South Fork, Near Covala Drive
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Los Angeles County Flood Control District/Ken Zimmer
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

Ongoing

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

<p>Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.</p> <p>If the project is not constructed imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.</p>

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

This project will involve the installation of an inflatable-rubber dam to aid in conserving storm-water within the South Fork of the Santa Clara River. Since the rubber dam will be installed on an existing drop structure, the native ground surface will not be disturbed. During storm flows, the rubber dam will inflate, and water will pond and percolate behind the dam. After the water percolates, the rubber dam will slowly deflate and lay flat across the drop structure and allow lower flows in the river to pass without obstruction. Habitat could be restored along the banks of the river. Trash that washes into the river will be collected at the rubber dam and it will be removed.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

•	Santa Clara River Watershed
•	Santa Clara River Valley Groundwater Basin, East Subbasin
•	Santa Clara River South Fork
•	

Please identify up to three available documents which contain information specific to the proposed project:

•	Santa Clara River Watershed Water Conservation Feasibility Study
•	
•	

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>N/A</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.</p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>Trash will be collected and removed at the rubber dam.</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>The construction of the rubber dam will provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.</p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	<p>Holding the water for recharge to an in-stream area in the river may prevent flooding downstream.</p>
<p>Take actions within the watershed to adapt to climate change</p>	<p>N/A</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>N/A</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Please State: _____

<p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>If yes, please identify the program _____</p>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Complete	10/27/2009 (mm/dd/yyyy)
Feasibility Study	Complete	11/14/2007 (mm/dd/yyyy)
Preliminary Design and Cost Estimates	Not initiated	(mm/dd/yyyy)
CEQA/NEPA	Not initiated	(mm/dd/yyyy)
Permits	Not initiated	(mm/dd/yyyy)
Construction Drawings	Not initiated	(mm/dd/yyyy)
Funding	Not initiated	(mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. The river has recreation in the form of bike paths along a large stretch of the river. These areas are adjacent to power line easements which may provide an opportunity for habitat restoration. Trash will be collected and removed.

The project will result in storage of 32 acre-feet of storm runoff and 96 acre feet of water conservation benefit per average water year. It will benefit 36 acres of riparian habitat area.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 5,000,000.00

Upper estimated total capital cost (\$): 7,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):

Annual Operation and Maintenance Cost (\$): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name: *

Ken Zimmer

Title:

Senior Civil Engineer

Telephone: *

626-458-6188

Fax:

626-979-5436

Email: *

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name: *

SCR South Fork Rubber Dam No. 3

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°24'45.59"N

Project Longitude: 118°32'35.95"W

Location Description:	Santa Clara River South Fork, Continuation of Pueblo Drive
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Los Angeles County Flood Control District/Ken Zimmer
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

Ongoing

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained at the rubber dam and will be removed when the water level drops. The adjacent power line easement will be used for habitat restoration.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

<p>This project will install an air-inflatable rubber dam, utilizing the location of an existing drop structure on the South Fork of the Santa Clara River. During storm flows the rubber dam will inflate, and water will pond and percolate behind the rubber dam. After the water percolates, the rubber dam will slowly deflate and lay flat across the drop structure. This will allow the lower flows in the river to pass without obstruction. Habitat will be restored along the banks of the river. Trash that washes into the river and collects behind the rubber dam will be removed.</p>

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

<ul style="list-style-type: none">• Santa Clara River Watershed
<ul style="list-style-type: none">• Santa Clara River Valley Groundwater Basin, East Subbasin
<ul style="list-style-type: none">• Santa Clara River South Fork
<ul style="list-style-type: none">•

Please identify up to three available documents which contain information specific to the proposed project:

<ul style="list-style-type: none">• Santa Clara River Watershed Water Conservation Feasibility Study
<ul style="list-style-type: none">•
<ul style="list-style-type: none">•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	N/A
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	Trash will be collected and removed at the rubber dam.
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	The construction of the rubber dam could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	Holding the water for recharge to an in-stream area in the river may prevent flooding downstream.
<p>Take actions within the watershed to adapt to climate change</p>	N/A
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Complete	10/27/2009 (mm/dd/yyyy)
Feasibility Study	Complete	11/14/2007 (mm/dd/yyyy)
Preliminary Design and Cost Estimates	Not initiated	(mm/dd/yyyy)
CEQA/NEPA	Not initiated	(mm/dd/yyyy)
Permits	Not initiated	(mm/dd/yyyy)
Construction Drawings	Not initiated	(mm/dd/yyyy)
Funding	Not initiated	(mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. The river has recreation in the form of a bike path along a large stretch of the river. These areas are adjacent to power line easements that may provide an opportunity for habitat restoration. Trash will be collected and removed.

The project will result in storage of 44 acre-feet for storm runoff and 130 acre-feet of water conservation benefit per average water year. It will benefit 14 acres of riparian habitat area.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 5,000,000.00

Upper estimated total capital cost (\$): 7,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):

Annual Operation and Maintenance Cost (\$): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name: *

Ken Zimmer

Title:

Senior Civil Engineer

Telephone: *

626-458-6188

Fax:

626-979-5436

Email: *

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name: *

Upper San Francisquito Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude:

Project Longitude:

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name: *

Ken Zimmer

Title:

Senior Civil Engineer

Telephone: *

626-458-6188

Fax:

626-979-5436

Email: *

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name: *

Santa Clara In-River Spreading Grounds No. 2

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°25'51.48"N

Project Longitude: 118°22'54.67"W

Location Description:	Santa Clara River, Upstream of Lang Station Road
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):	
•	Los Angeles County Flood Control District/Ken Zimmer
•	
•	
•	

Project Status (e.g., new, ongoing, expansion, new phase):	
	New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The spreading grounds would utilize earthen levees to redirect flows to the outside banks of the Santa Clara River. Small recharge basins and finger levees along the outer banks would slow flows and increase recharge in this stretch of the river. Trash would typically be detained in the outer basins and removed from the river post storm. High flows would wash out the low levees, and they would be rebuilt after larger storms. Adjacent areas may provide opportunities for habitat restoration and possible invasive species removal.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Santa Clara River Watershed
• Santa Clara River Valley Groundwater Basin, East Subbasin
• Santa Clara River
•

Please identify up to three available documents which contain information specific to the proposed project:

• Santa Clara River Watershed Water Conservation Feasibility Study
•
•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>N/A</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.</p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>Soil aquifer treatment will remove contaminants such as heavy metals and trash from the water. Trash will be collected and removed from the outer basins.</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>The construction of the spreading grounds provides habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.</p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	<p>Diverting the water from the river for recharge may prevent flooding downstream.</p>
<p>Take actions within the watershed to adapt to climate change</p>	<p>N/A</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>N/A</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Please State: _____

<p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>If yes, please identify the program _____</p>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2014 (mm/dd/yyyy)
Feasibility Study	Complete	11/14/2007 (mm/dd/yyyy)
Preliminary Design and Cost Estimates	Not initiated	(mm/dd/yyyy)
CEQA/NEPA	Not initiated	(mm/dd/yyyy)
Permits	Not initiated	(mm/dd/yyyy)
Construction Drawings	Not initiated	(mm/dd/yyyy)
Funding	Not initiated	(mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected and removed from the outer basins. The surrounding areas will be evaluated in terms of habitat restoration need or non-native species removal.

The project will provide storage of 75 acre-feet of storm runoff and 225 acre-feet of water conservation in an average water year. It will benefit 5 acres of riparian habitat area, and 13 acres of non-developed open space area.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 2,000,000.00

Upper estimated total capital cost (\$): 5,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):

Annual Operation and Maintenance Cost (\$): 25,000.00

Design Life of Project (years): 50

Location Description:	San Francisquito Creek, Upstream of Copper Hill Drive
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):	
•	Los Angeles County Flood Control District/Ken Zimmer
•	
•	
•	

Project Status (e.g., new, ongoing, expansion, new phase):	
New	

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

This project will construct earthen levees that will divert water to the outside limits of San Francisquito Creek where recharge basins will be constructed. During higher flows, the earthen levee would wash out and regular maintenance to restore the levees will be necessary. There may be opportunities for habitat restoration and passive recreation in the surrounding areas. Trash that washes into the creek will be detained at the recharge basins and will be removed.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

<ul style="list-style-type: none">• Santa Clara River Watershed
<ul style="list-style-type: none">• Santa Clara River Valley Groundwater Basin, East Subbasin
<ul style="list-style-type: none">• San Francisquito Canyon Creek
<ul style="list-style-type: none">•

Please identify up to three available documents which contain information specific to the proposed project:

<ul style="list-style-type: none">• Santa Clara River Watershed Water Conservation Feasibility Study
<ul style="list-style-type: none">•
<ul style="list-style-type: none">•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	<p>N/A</p>
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	<p>Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.</p>
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	<p>Soil aquifer treatment will remove contaminants such as metals and trash from the water. Trash will be collected and removed before entering the spreading grounds.</p>
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	<p>The construction of the spreading grounds could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.</p>
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	<p>Diverting the water from the river for recharge may prevent flooding downstream.</p>
<p>Take actions within the watershed to adapt to climate change</p>	<p>N/A</p>
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	<p>N/A</p>

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2014 (mm/dd/yyyy)
Feasibility Study	Complete	11/14/2007 (mm/dd/yyyy)
Preliminary Design and Cost Estimates	Not initiated	(mm/dd/yyyy)
CEQA/NEPA	Not initiated	(mm/dd/yyyy)
Permits	Not initiated	(mm/dd/yyyy)
Construction Drawings	Not initiated	(mm/dd/yyyy)
Funding	Not initiated	(mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected at the basins. There is a potential for habitat restoration and/or passive recreation.

The project will result in 232 acre-feet of storage for storm runoff and 700 acre-feet of water conservation benefit per average water year. It will benefit 10 acres of riparian habitat area, and 43 acres of non-developed open space area.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 3,000,000.00

Upper estimated total capital cost (\$): 6,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):

Annual Operation and Maintenance Cost (\$): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name: *

Ken Zimmer

Title:

Senior Civil Engineer

Telephone: *

626-458-6188

Fax:

626-979-5436

Email: *

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name: *

SCR South Fork Rubber Dam No. 3

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°24'45.59"N

Project Longitude: 118°32'35.95"W

Location Description:	Santa Clara River South Fork, Continuation of Pueblo Drive
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Los Angeles County Flood Control District/Ken Zimmer
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

Ongoing

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained at the rubber dam and will be removed when the water level drops. The adjacent power line easement will be used for habitat restoration.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

<p>This project will install an air-inflatable rubber dam, utilizing the location of an existing drop structure on the South Fork of the Santa Clara River. During storm flows the rubber dam will inflate, and water will pond and percolate behind the rubber dam. After the water percolates, the rubber dam will slowly deflate and lay flat across the drop structure. This will allow the lower flows in the river to pass without obstruction. Habitat will be restored along the banks of the river. Trash that washes into the river and collects behind the rubber dam will be removed.</p>

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

<ul style="list-style-type: none">• Santa Clara River Watershed
<ul style="list-style-type: none">• Santa Clara River Valley Groundwater Basin, East Subbasin
<ul style="list-style-type: none">• Santa Clara River South Fork
<ul style="list-style-type: none">•

Please identify up to three available documents which contain information specific to the proposed project:

<ul style="list-style-type: none">• Santa Clara River Watershed Water Conservation Feasibility Study
<ul style="list-style-type: none">•
<ul style="list-style-type: none">•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	N/A
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	Trash will be collected and removed at the rubber dam.
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	The construction of the rubber dam could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	Holding the water for recharge to an in-stream area in the river may prevent flooding downstream.
<p>Take actions within the watershed to adapt to climate change</p>	N/A
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Please State: _____

<p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>If yes, please identify the program _____</p>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Complete	10/27/2009 (mm/dd/yyyy)
Feasibility Study	Complete	11/14/2007 (mm/dd/yyyy)
Preliminary Design and Cost Estimates	Not initiated	(mm/dd/yyyy)
CEQA/NEPA	Not initiated	(mm/dd/yyyy)
Permits	Not initiated	(mm/dd/yyyy)
Construction Drawings	Not initiated	(mm/dd/yyyy)
Funding	Not initiated	(mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. The river has recreation in the form of a bike path along a large stretch of the river. These areas are adjacent to power line easements that may provide an opportunity for habitat restoration. Trash will be collected and removed.

The project will result in storage of 44 acre-feet for storm runoff and 130 acre-feet of water conservation benefit per average water year. It will benefit 14 acres of riparian habitat area.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 5,000,000.00

Upper estimated total capital cost (\$): 7,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):

Annual Operation and Maintenance Cost (\$): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name: *

Ken Zimmer

Title:

Senior Civil Engineer

Telephone: *

626-458-6188

Fax:

626-979-5436

Email: *

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name: *

SCR South Fork Rubber Dam No. 4

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude:

Project Longitude:

Location Description:	Santa Clara River South Fork, Valencia Blvd. Bridge.
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Los Angeles County Flood Control District/Ken Zimmer
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained at the rubber dam and will be removed when the water level drops. The adjacent power line easement will be used for habitat restoration.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

Utilizing the location of an existing drop structure, this project will install an air-inflatable rubber dam in the South Fork of the Santa Clara River. During storm flows the rubber dam will inflate, and water will pond and percolate behind the rubber dam. After the water percolates, the rubber dam will slowly deflate and lay flat across the drop structure and allow lower flows in the river to pass without obstruction. Habitat will be restored along the banks of the river. The adjacent power line easement provides opportunities for habitat restoration and possible recreation. Trash will be removed at the rubber dam after storms.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

•	Santa Clara River Watershed
•	Santa Clara River Valley Groundwater Basin, East Subbasin
•	Santa Clara River South Fork
•	

Please identify up to three available documents which contain information specific to the proposed project:

•	Santa Clara River Watershed Water Conservation Feasibility Study
•	
•	

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Trash will be collected and removed at the rubber dam.
Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the rubber dam could provide habitat restoration and/or possible removal of non-native invasive species in the river and/or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Holding the water for recharge to an in-stream area in the river may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Please State: _____

<p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>If yes, please identify the program _____</p>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2013 (mm/dd/yyyy)
Feasibility Study	Complete	11/14/2007 (mm/dd/yyyy)
Preliminary Design and Cost Estimates	Not initiated	(mm/dd/yyyy)
CEQA/NEPA	Not initiated	(mm/dd/yyyy)
Permits	Not initiated	(mm/dd/yyyy)
Construction Drawings	Not initiated	(mm/dd/yyyy)
Funding	Not initiated	(mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. The river has recreation in the form of bike paths along a large stretch of the river. These areas are adjacent to power line easements which may provide an opportunity for habitat restoration. Trash will be collected and removed.

The project will result in 115 acre-feet of storm runoff storage and 340 acre-feet of water conservation benefit per average water year. It will also benefit 25 acres of riparian habitat area.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 5,000,000.00

Upper estimated total capital cost (\$): 7,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):

Annual Operation and Maintenance Cost (\$): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name: *

Ken Zimmer

Title:

Senior Civil Engineer

Telephone: *

626-458-6188

Fax:

626-979-5436

Email: *

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name: *

Upper San Francisquito Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°28'42.63"N

Project Longitude: 118°32'45.91"W

Location Description:	San Francisquito Creek, Upstream of Copper Hill Drive
------------------------------	---

Project Cooperating Agency(ies)/Organization(s)/Individual(s):	
•	Los Angeles County Flood Control District/Ken Zimmer
•	
•	
•	

Project Status (e.g., new, ongoing, expansion, new phase):	
New	

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

This project will construct earthen levees that will divert water to the outside limits of San Francisquito Creek where recharge basins will be constructed. During higher flows, the earthen levee would wash out and regular maintenance to restore the levees will be necessary. There may be opportunities for habitat restoration and passive recreation in the surrounding areas. Trash that washes into the creek will be detained at the recharge basins and will be removed.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

<ul style="list-style-type: none">• Santa Clara River Watershed
<ul style="list-style-type: none">• Santa Clara River Valley Groundwater Basin, East Subbasin
<ul style="list-style-type: none">• San Francisquito Canyon Creek
<ul style="list-style-type: none">•

Please identify up to three available documents which contain information specific to the proposed project:

<ul style="list-style-type: none">• Santa Clara River Watershed Water Conservation Feasibility Study
<ul style="list-style-type: none">•
<ul style="list-style-type: none">•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

<p>Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.</p>	N/A
<p>Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.</p>	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
<p>Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.</p>	Soil aquifer treatment will remove contaminants such as metals and trash from the water. Trash will be collected and removed before entering the spreading grounds.
<p>Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.</p>	The construction of the spreading grounds could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
<p>Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.</p>	Diverting the water from the river for recharge may prevent flooding downstream.
<p>Take actions within the watershed to adapt to climate change</p>	N/A
<p>Promote projects and actions that reduce greenhouse gas (GHG) emissions</p>	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project.
(Check all that apply)

Reduce Water Demands			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance – Delta, Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Increase Water Supply			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Desalination – Brackish/Seawater
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Precipitation Enhancement
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Surface Storage – CALFED or Regional/Local
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Water Quality			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Drinking Water Treatment and Distribution
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Groundwater/Aquifer Remediation
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Matching Quality to Use
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Salt and Salinity Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Practice Resource Stewardship			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Agricultural Lands Stewardship
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Economic Incentives (loans, grants, water pricing)
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Forest Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Land Use Planning and Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Water-Dependent Recreation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Watershed Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____
Improve Flood Risk Management			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Flood Risk Management
Other Strategies			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Please State: _____

<p>Is the proposed project an element or phase of a regional or larger program?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>If yes, please identify the program _____</p>

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2014 (mm/dd/yyyy)
Feasibility Study	Complete	11/14/2007 (mm/dd/yyyy)
Preliminary Design and Cost Estimates	Not initiated	(mm/dd/yyyy)
CEQA/NEPA	Not initiated	(mm/dd/yyyy)
Permits	Not initiated	(mm/dd/yyyy)
Construction Drawings	Not initiated	(mm/dd/yyyy)
Funding	Not initiated	(mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected at the basins. There is a potential for habitat restoration and/or passive recreation.

The project will result in 232 acre-feet of storage for storm runoff and 700 acre-feet of water conservation benefit per average water year. It will benefit 10 acres of riparian habitat area, and 43 acres of non-developed open space area.

Does the project address any known environmental justice issues?

Yes No Not Sure

Is the project located within or adjacent to a disadvantaged community?

Yes No Not Sure

Does the project include disadvantaged community participation?

Yes No Not Sure

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
<input type="checkbox"/>	Increases Water Supply Reliability
<input type="checkbox"/>	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
<input type="checkbox"/>	Increases Water Use and/or Reuse Efficiency
<input checked="" type="checkbox"/>	Provides Additional Water Supply
<input type="checkbox"/>	Promotes Water Quality Protection
<input type="checkbox"/>	Reduces Water Demand
<input type="checkbox"/>	Advances/Expands Water Recycling
<input checked="" type="checkbox"/>	Promotes Urban Runoff Reuse
<input type="checkbox"/>	Addresses Sea Level Rise
<input type="checkbox"/>	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
<input checked="" type="checkbox"/>	Improves Flood Control (e.g. through wetlands restoration, management, protection)
<input type="checkbox"/>	Promotes Habitat Protection
	<input type="checkbox"/> Establishes Migration Corridors
	<input type="checkbox"/> Re-establishes River-Floodplain Hydrologic Continuity
	<input type="checkbox"/> Re-introduces Anadromous Fish Populations to Upper Watersheds
	<input type="checkbox"/> Enhances and Protects Upper Watershed Forests and Meadow Systems
	<input type="checkbox"/> Other (Please State):
<input type="checkbox"/>	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
<input type="checkbox"/>	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
<input type="checkbox"/>	Improves Water System Energy Efficiency
<input type="checkbox"/>	Advances/Expands Water Recycling
<input type="checkbox"/>	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
<input type="checkbox"/>	Promotes Use of Renewable Energy Sources
<input type="checkbox"/>	Contributes to Carbon Sequestration (e.g. through vegetation growth)
<input type="checkbox"/>	Other (Please State):

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 3,000,000.00

Upper estimated total capital cost (\$): 6,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):

Annual Operation and Maintenance Cost (\$): 25,000.00

Design Life of Project (years): 50

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

Project Identification Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWMP. More information may be required at a later date. This form may be printed, filled out by hand and mailed back to Meredith Clement, Kennedy/Jenks Consultants, 2775 North Ventura Road, Oxnard, CA 93036 OR electronically filled out and e-mailed **BY AUGUST 17, 2012** to: MeredithClement@kennedyjenks.com.

Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Recycled Water Onsite Conversion			
Project Sponsor (Required):	Newhall County Water District			
If Joint Project, Other Partners:	Phase 2C of CLWA Recycled Water Master Plan			
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
Steve Cole	(661) 259-3610	(661) 259-9673	scole@ncwd.org	
Project Description				
Project Description (1-2 sentences):	This project would address onsite plumbing conversions of five locations to allow the use of both potable and recycled water.			
Project Integration (Describe how the project does or could integrate with other projects in the Region):	This project integrates with the the Santa Clarita Valley Southern End Recycled Water Project			
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):	Castaic Lake Water Agency Recycled Water Master Plan			
Project Location				
Descriptive (Description of property location etc.):	Landscape irrigation for Hart High School, Placerita Junior High School, Newhall Elementary School, Hart Park, and Newhall Park			
Latitude/Longitude - info available at:	http://geocoder.us/	Lat:		Long:
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input type="checkbox"/>	\$100K - \$1M <input checked="" type="checkbox"/>	\$1M - \$10M <input type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input checked="" type="checkbox"/>	In-Design <input type="checkbox"/>	Ready for Construction <input type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:	2015			
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input type="checkbox"/>	1-100 AF	<input type="checkbox"/>	100-1000AF
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)	This project would allow approximately 180-240AF of potable water savings by dedicating recycled water usage for landscape irrigation.			

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Climate Change Adaptation
- Climate Change Prevention

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input checked="" type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input checked="" type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

Project Identification Short Form

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Advanced Metering Infrastructure Program			
Project Sponsor (Required):	Newhall County Water District			
If Joint Project, Other Partners:	NA			
Project Website (if available):	NA			
Project Contact Person:	Phone	FAX	Email	
Steve Cole	661-259-3610		scole@ncwd.org	
Project Description				
Project Description (1 -2 sentences):				
Develop an advanced metering infrastructure (AMI) system within the districts' service areas. This system will allow NCWD to collect real-time water demand data from customer meters. The system will give customers current usage data and allow NCWD to be proactive with leak detection.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
This project is consistent with the CALFED Bay Delta Program Goals #1, 2, 3 and 4 and goals identified in the Santa Clarita Valley Water Use Efficiency Plan.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Project Location				
Descriptive (Description of property location etc.):				
This project is located in Castaic, Newhall, Valencia and Canyon Country which is in Los Angeles County. It would cover an area of approximately 35 square miles.				
Latitude/Longitude - info available at:	http://geocoder.us/	Lat:	Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):	Project Cost:			
	<\$100K <input type="checkbox"/>	\$100K - \$1M <input type="checkbox"/>	\$1M - \$10M <input checked="" type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input type="checkbox"/>	In-Design <input checked="" type="checkbox"/>	Ready for Construction <input checked="" type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:	2013 through 2015			
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input type="checkbox"/>	1-100 AF	<input type="checkbox"/>	100-1000AF
	<input type="checkbox"/>	1000+ AF		
Water Quality	Area Drained: and/or	Volume Treated:		
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				
This project will reduce the amount of water lost to leaks and result in better dry-year reliability. By providing real-time water consumption data to all customers, water use efficiency will increase, reducing overall demand for imported water sources and helping to maintain a sustainable groundwater supply.				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input checked="" type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

Project Identification Short Form

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Septic to sewer retrofit project			
Project Sponsor (Required):	City of Santa Clarita			
If Joint Project, Other Partners:				
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
Heather Merenda	661-284-1413	661-255-4356	hmerenda@santa-clarita.com	
Project Description				
Project Description (1-2 sentences):				
There are 1,000 to 2,500 septic tanks properties within City limits. This project would provide financial incentives and infrastructure				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
Related to TMDLs, NPDES Permit compliance, protecting groundwater, and DACs in Newhall.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Bacteria TMDL for the Santa Clara River				
Project Location				
Descriptive (Description of property location etc.):				
Newhall, Sand Canyona and Placerita Canyons primarily				
Latitude/Longitude - info available at: http://geocoder.us/		Lat:	Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input type="checkbox"/>	\$100K - \$1M <input type="checkbox"/>	\$1M - \$10M <input type="checkbox"/>	>\$10M <input checked="" type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input checked="" type="checkbox"/>	In-Design <input type="checkbox"/>	Ready for Construction <input type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:	2015			
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input type="checkbox"/> 1-100 AF	<input type="checkbox"/> 100-1000AF	<input type="checkbox"/> 1000+ AF	
Water Quality	Area Drained: and/or 10,000	Volume Treated:		
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				
reduce grounwater contamination from septic tanks;				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Climate Change Adaptation
- Climate Change Prevention

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input checked="" type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input checked="" type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input checked="" type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input checked="" type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input checked="" type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input checked="" type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input type="checkbox"/> Urban Water Use Efficiency |
| <input checked="" type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input checked="" type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input checked="" type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

Project Identification Short Form

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	City of Santa Clarita Biofiltration and Low Impact Development Retrofits			
Project Sponsor (Required):	City of Santa Clarita			
If Joint Project, Other Partners:				
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
Heather Merenda	661-284-1413	661-255-4356	hmerenda@santa-clarita.com	
Project Description				
Project Description (1-2 sentences):				
Project would identify and retrofit neighborhoods and parking lots with biofiltration or low impact development.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
Work with NPDES Permit holders, TMDL compliance, and projects related to poor street drainage and root damaged sidewalks				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
NPDES Permit for Los Angeles County, EPA Green Streets				
Project Location				
Descriptive (Description of property location etc.):				
City of Santa Clarita sub drainage areas determined to have high levels of bacteria, nutrients, trash and other pollutants in runoff a				
Latitude/Longitude - info available at: http://geocoder.us/		Lat:	Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input type="checkbox"/>	\$100K - \$1M <input type="checkbox"/>	\$1M - \$10M <input checked="" type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input checked="" type="checkbox"/>	In-Design <input type="checkbox"/>	Ready for Construction <input type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:	2014			
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input checked="" type="checkbox"/> 1-100 AF	<input type="checkbox"/> 100-1000AF	<input type="checkbox"/> 1000+ AF	
Water Quality	Area Drained: and/or 10,000	Volume Treated:		
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Climate Change Adaptation
- Climate Change Prevention

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input checked="" type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input checked="" type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input checked="" type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input checked="" type="checkbox"/> Flood Risk Management | <input checked="" type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input checked="" type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input checked="" type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input checked="" type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

Project Identification Short Form

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Upper Santa Clara River Arundo/Tamarisk Removal Program (SCARP) Implementation			
Project Sponsor (Required):	City of Santa Clarita			
If Joint Project, Other Partners:	Forest Service, Santa Clara River Conservancy			
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
Heather Merenda	661-284-1413	661-255-4356	hmerenda@santa-clarita.com	
Project Description				
Project Description (1-2 sentences):				
The SCARP implementation project will focus on removal of non-native invasive species, primarily arundo, from the sites identified				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
The Santa Clara River Invasive Weeds Task Force helps coordinate invasive species projects throughout the watershed				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Santa Clara River Watershed Arundo and Tamarisk Removal Plan Long Term Implementation Plan				
Project Location				
Descriptive (Description of property location etc.):				
The entire upper Santa Clara River Watershed is part of the work. However, the more recent work is two fold – one area is the City				
Latitude/Longitude - info available at: http://geocoder.us/		Lat: 34° 25' N	Long: 118° 32' W	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input type="checkbox"/>	\$100K - \$1M <input type="checkbox"/>	\$1M - \$10M <input checked="" type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input type="checkbox"/>	In-Design <input type="checkbox"/>	Ready for Construction <input checked="" type="checkbox"/>	CEQA Complete <input checked="" type="checkbox"/>
Estimated Year of Construction:	2006 started			
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input type="checkbox"/> 1-100 AF	<input checked="" type="checkbox"/> 100-1000AF	<input type="checkbox"/> 1000+ AF	
Water Quality	Area Drained: and/or 20 miles	Volume Treated:		
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):	1500 acres restored			
Other: (<i>Describe X amount of benefit</i>)				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Climate Change Adaptation
- Climate Change Prevention

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input checked="" type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input checked="" type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input checked="" type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input checked="" type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input checked="" type="checkbox"/> Flood Risk Management | <input checked="" type="checkbox"/> Urban Runoff Management |
| <input checked="" type="checkbox"/> Forest Management | <input type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input checked="" type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

Project Identification Short Form

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Linking SCEEC to the Upper Santa Clara River IRWMP			
Project Sponsor (Required):	Santa Clarita Environmental Education Consortium (SCEEC)			
If Joint Project, Other Partners:				
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
Jia-Yi Cheng-Levine, Ph.D.	661-362-5806		Jia-Yi.Cheng-Levine@canyons.edu	
Project Description				
Project Description (1-2 sentences):				
The mission of SCEEC is to proactively provide educational resources to promote environmental literacy in Santa Clarita valley. It aims to establish environmental resources for educators and students; create and provide exemplary supplementary curriculum; as well as contribute to the revitalization of K-14 students' love for environmental science. Funding is being sought to link implementation of the goals and objectives of IRWMP with the mission of SCEEC. One of the ways this could be done is to engage students in in-field studies that would directly relate to the IRWMP objectives; benefiting both the student, and the IRWMP.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Project Location				
Descriptive (Description of property location etc.):				
Santa Clarita Valley				
Latitude/Longitude - info available at:		http://geocoder.us/		Lat:
				Long:
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K	\$100K - \$1M	\$1M - \$10M	>\$10M
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Project Status (Check all that apply):	Conceptual	In-Design	Ready for Construction	CEQA Complete
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Estimated Year of Construction:				
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)		<input type="checkbox"/>	1-100 AF	<input type="checkbox"/>
		<input type="checkbox"/>	100-1000AF	<input type="checkbox"/>
		<input type="checkbox"/>	1000+ AF	
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input checked="" type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

Project Identification Short Form

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	GIS Development and Implementation			
Project Sponsor (Required):	Santa Clarita Water Division			
If Joint Project, Other Partners:	NA			
Project Website (if available):	NA			
Project Contact Person:	Phone	FAX	Email	
Cathy Z. Hollomon	661-259-2737	661-286-4330	chollomon@scwater.org	
Project Description				
Project Description (1 -2 sentences):				
Develop a comprehensive GIS system within the service area. This includes software, data collection, data input and integration with SCADA.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
This project is consistent with CALFED Bay Delta Program Goals #1 and #2, goals identified in the Santa Clarita Valley Water Use Efficiency Plan and the SCWD Conservation Strategic Plan.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
This project is included in SCWD's Capital Improvement Plan.				
Project Location				
Descriptive (Description of property location etc.):				
This project is located in Los Angeles County, specifically within the eastern half of the Santa Clarita Valley. It would cover an area of approximately 35 square miles.				
Latitude/Longitude - info available at: http://geocoder.us/		Lat: 34° 17' 28.6"	Long: 118° 22' 24.7"	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input type="checkbox"/>	\$100K - \$1M <input type="checkbox"/>	\$1M - \$10M <input checked="" type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input checked="" type="checkbox"/>	In-Design <input checked="" type="checkbox"/>	Ready for Construction <input type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:	present until complete (around 2015)			
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input type="checkbox"/>	1-100 AF	<input type="checkbox"/>	100-1000AF <input type="checkbox"/>
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				
This project will provide SCWD the tools necessary to efficiently manage water supplies, improve operational effectiveness, maintain accurate asset records and allow interaction/sharing of spatial data with other agencies for improved watershed management and coordinated actions during emergency situations.				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input checked="" type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

Project Identification Short Form

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Advanced Metering Infrastructure Program			
Project Sponsor (Required):	Santa Clarita Water Division			
If Joint Project, Other Partners:	NA			
Project Website (if available):	NA			
Project Contact Person:	Phone	FAX	Email	
Cathy Z. Hollomon	661-259-2737	661-286-4330	chollomon@scwater.org	
Project Description				
Project Description (1-2 sentences):				
Develop an advanced metering infrastructure (AMI) system within service area. This system will allow SCWD to collect real-time water demand data from customer meters and provide the tools the both SCWD and its customers to identify and repair leaks and better manage water supplies.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
This project is consistent with the CALFED Bay Delta Program Goals #1, 2, 3 and 4 and goals identified in the Santa Clarita Valley Water Use Efficiency Plan.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
This project is included in SCWD's Capital Improvement Plan.				
Project Location				
Descriptive (Description of property location etc.):				
This project is located in Los Angeles County, specifically within eastern half of the Santa Clarita Valley. It would cover an area of approximately 35 square miles.				
Latitude/Longitude - info available at: http://geocoder.us/		Lat: 34 17 28.6	Long: 118 22 24.7	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input type="checkbox"/>	\$100K - \$1M <input type="checkbox"/>	\$1M - \$10M <input checked="" type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input type="checkbox"/>	In-Design <input checked="" type="checkbox"/>	Ready for Construction <input checked="" type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:	2013 through 2015			
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input type="checkbox"/> 1-100 AF	<input type="checkbox"/> 100-1000AF	<input type="checkbox"/> 1000+ AF	
Water Quality	Area Drained: and/or	Volume Treated:		
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				
This project will reduce the amount of water lost to leaks and result in better dry-year reliability. By providing real-time water consumption data to all customers, water use efficiency will increase, reducing overall demand for imported water sources and helping to maintain a sustainable groundwater supply.				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input checked="" type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	CII Conservation Plan			
Project Sponsor (Required):	Valencia Water Company			
If Joint Project, Other Partners:	NA			
Project Website (if available):	NA			
Project Contact Person:	Phone	FAX	Email	
Matt Dickens	661-295-6543		mdickens@valenciawater.com	
Project Description				
Project Description (1 -2 sentences):				
This project is the development of VWC's Commercial, Industrial, and Institutional (CII) Conservation Plan.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
This project could integrate with the Valleywide Conservation Database.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Project Location				
Descriptive (Description of property location etc.):				
Santa Clarita Valley				
Latitude/Longitude - info available at: http://geocoder.us/		Lat:	Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input checked="" type="checkbox"/>	\$100K - \$1M <input type="checkbox"/>	\$1M - \$10M <input type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input checked="" type="checkbox"/>	In-Design <input type="checkbox"/>	Ready for Construction <input type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:				
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)		<input type="checkbox"/> 1-100 AF	<input type="checkbox"/> 100-1000AF	<input type="checkbox"/> 1000+ AF
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- | | |
|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input checked="" type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

Project Identification Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWMP. More information may be required at a later date. This form may be printed, filled out by hand and mailed back to Meredith Clement, Kennedy/Jenks Consultants, 2775 North Ventura Road, Oxnard, CA 93036 OR electronically filled out and e-mailed **BY AUGUST 17, 2012** to: MeredithClement@kennedyjenks.com.

Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Advanced Metering Infrastructure Program			
Project Sponsor (Required):	Valencia Water Company			
If Joint Project, Other Partners:	NA			
Project Website (if available):	NA			
Project Contact Person:	Phone	FAX	Email	
Matt Dickens, Chris Perez	661-295-6543		mdickens@valenciawater.com , cperez@valenciawater.com	
Project Description				
Project Description (1 -2 sentences):				
Develop an advanced metering infrastructure (AMI) system within the districts' service areas. This system will allow VWC to collect real-time water demand data from customer meters. The system will give customers current usage data and allow VWC to be proactive with leak detection.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
This project is consistent with the CALFED Bay Delta Program Goals #1, 2, 3 and 4 and goals identified in the Santa Clarita Valley Water Use Efficiency Plan.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Santa Clarita Valley Water Use Efficiency Plan.				
Project Location				
Descriptive (Description of property location etc.):				
This project is located in Valencia, Los Angeles County.				
Latitude/Longitude - info available at: http://geocoder.us/		Lat:	Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input type="checkbox"/>	\$100K - \$1M <input type="checkbox"/>	\$1M - \$10M <input checked="" type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input checked="" type="checkbox"/>	In-Design <input type="checkbox"/>	Ready for Construction <input type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:				
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)		<input type="checkbox"/> 1-100 AF	<input type="checkbox"/> 100-1000AF	<input type="checkbox"/> 1000+ AF
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				
This project will reduce the amount of water lost to leaks and result in better dry-year reliability. By providing real-time water consumption data to all customers, water use efficiency will increase, reducing overall demand for imported water sources and helping to maintain a sustainable groundwater supply.				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
- Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

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|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input checked="" type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

**UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS**

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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Valleywide Conservation Database			
Project Sponsor (Required):	Valencia Water Company			
If Joint Project, Other Partners:	NA			
Project Website (if available):	NA			
Project Contact Person:	Phone	FAX	Email	
Matt Dickens	661-295-6543		mdickens@valenciawater.com	
Project Description				
Project Description (1 -2 sentences):				
Develop a valleywide conservation database, similar to the Energy Star program, which would catalog all of the specific consumption uses for differing building types.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
This project could integrate with the Regional High Resolution GIS Mapping project.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Project Location				
Descriptive (Description of property location etc.):				
Santa Clarita Valley				
Latitude/Longitude - info available at: http://geocoder.us/		Lat:	Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input checked="" type="checkbox"/>	\$100K - \$1M <input type="checkbox"/>	\$1M - \$10M <input type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input checked="" type="checkbox"/>	In-Design <input type="checkbox"/>	Ready for Construction <input type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:				
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)		<input type="checkbox"/> 1-100 AF	<input type="checkbox"/> 100-1000AF	<input type="checkbox"/> 1000+ AF
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Flooding/Hydromodification
- Adapt to climate change
- Reduce greenhouse gas emissions

Project Benefits

- Include Regional Projects or Programs
- Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- Effectively Resolve Significant Water-Related Conflicts within or between Regions
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- Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

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|---|--|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Agricultural Water Use Efficiency | <input type="checkbox"/> Precipitation Enhancement |
| <input type="checkbox"/> Conjunctive Management and Groundwater Storage | <input type="checkbox"/> Recharge Areas Protection |
| <input type="checkbox"/> Conveyance - Delta, Regional/Local | <input type="checkbox"/> Recycled Municipal Water |
| <input type="checkbox"/> Desalination - Brackish & Seawater | <input type="checkbox"/> Salt & Salinity Management |
| <input type="checkbox"/> Drinking Water Treatment and Distribution | <input type="checkbox"/> Surface Storage - CALFED |
| <input checked="" type="checkbox"/> Economic Incentives | <input type="checkbox"/> Surface Storage - Regional/Local |
| <input type="checkbox"/> Ecosystem Restoration | <input type="checkbox"/> System Reoperation |
| <input type="checkbox"/> Flood Risk Management | <input type="checkbox"/> Urban Runoff Management |
| <input type="checkbox"/> Forest Management | <input checked="" type="checkbox"/> Urban Water Use Efficiency |
| <input type="checkbox"/> Groundwater/Aquifer Remediation | <input type="checkbox"/> Water Transfers |
| <input checked="" type="checkbox"/> Land Use Planning & Management | <input type="checkbox"/> Water-Dependent Recreation |
| <input type="checkbox"/> Matching Water Quality to Water Use | <input type="checkbox"/> Watershed Management |

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INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)				
Project Name:	Regional High Resolution GIS Mapping			
Project Sponsor (Required):	Valencia Water Company			
If Joint Project, Other Partners:	NA			
Project Website (if available):	NA			
Project Contact Person:	Phone	FAX	Email	
Matt Dickens	661-295-6543		mdickens@valenciawater.com	
Project Description				
Project Description (1 -2 sentences):	Develop a regional high resolution Geographic Information System (GIS) asset management mapping tool for the Santa Clarita Valley.			
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Project Location				
Descriptive (Description of property location etc.):	Santa Clarita Valley			
Latitude/Longitude - info available at: http://geocoder.us/	Lat:		Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<\$100K <input type="checkbox"/>	\$100K - \$1M <input checked="" type="checkbox"/>	\$1M - \$10M <input type="checkbox"/>	>\$10M <input type="checkbox"/>
Project Status (Check all that apply):	Conceptual <input checked="" type="checkbox"/>	In-Design <input type="checkbox"/>	Ready for Construction <input type="checkbox"/>	CEQA Complete <input type="checkbox"/>
Estimated Year of Construction:				
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input type="checkbox"/>	1-100 AF	<input type="checkbox"/>	100-1000AF
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (<i>acres created/restored</i>):				
Other: (<i>Describe X amount of benefit</i>)				

Project Criteria

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IRWMP Objectives Met

- Reduce Potable Water Demand
- Increase Water Supply
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Project Benefits

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CA Water Plan - Water Management Strategies

- | | |
|---|---|
| <input type="checkbox"/> Agricultural Lands Stewardship | <input type="checkbox"/> Pollution Prevention |
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