

## Appendix E

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### Detailed Descriptions of All Candidate Projects

- Projects Ready for Prioritization Process
  - o CLWA Candidate Projects 1 to 5
  - o City of Santa Clarita Candidate Projects 1 and 3
  - o LADPW Candidate Projects 1 to 11 and 12 to 16
  - o NCWD Candidate Projects 1 and 3
  - o SCVSD Candidate Projects 1 to 3
  - o SCWD Candidate Project 2
- Pending Projects
  - o City of Santa Clarita Project 2
  - o CHC-1
  - o LADPW-17
  - o LADPW-18
  - o LADPW-19
  - o LADPW-20
  - o SCOPE-1
  - o SCOPE-2

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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 (CLWA)

**Agency / Organization / Individual Address:**

Castaic Lake Water Agency  
27234 Bouquet Canyon Road  
Santa Clarita, CA 91350-2173

**Name:**

Jason Yim

**Title:**

Senior Engineer

**Telephone:**

661-297-1600

**Fax:**

661-513-1202

**Email:**

jyim@clwa.org

**Website:**

www.clwa.org

**Project Name:**

Recycled Water Program, Phase II

**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:** 34.442917

**Project Longitude:** -118.608287

<b>Location Description:</b>	Valencia Water Reclamation Plant (28185 The Old Road, Valencia, CA), and various local streets in Valencia, CA.
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number

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

The project is currently in its planning 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 one 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.**

**This project will help provide an important and reliable source of additional water for the Santa Clarita Valley, resulting in a more effective utilization of the Agency's water supplies. It will also help with reducing the amount of future effluent that would be discharged into the Santa Clara River from the Sanitation District of Los Angeles County's Valencia Water Reclamation Plant.**

### 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 one 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 includes the planning, designing, and constructing of the agency's next phase of recycled water improvements to include but not be limited to a new recycled water storage tank, pump station modifications, and new recycled water pipelines. The recycled water pipelines will transport recycled water from the existing Valencia Water Reclamation Plant to a new recycled water storage tank and recycled water customers.

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

<ul style="list-style-type: none"><li>• Santa Clara River (indirectly associated)</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>

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

<ul style="list-style-type: none"><li>• CLWA's Recycled Water Master Plan Program EIR certified March 28, 2007</li></ul>
<ul style="list-style-type: none"><li>• CLWA's Urban Water Management Plan dated November 2005</li></ul>
<ul style="list-style-type: none"><li>• CLWA Draft Report Recycled Water Master Plan dated May 2002</li></ul>



**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): <u>Landscaping</u>

Describe how the project contributes toward meeting the objective **Reduce Water Demand**:  
 This project contributes towards the water reduction demand by using the recycled water for irrigation of parks, golf courses, landscaping, and industrial applications. This helps to preserve the supply of potable water for human consumption and other uses by providing an alternative source of water for irrigation.

Describe how the project's contribution toward meeting the **Reduce Water Demand** objective could be measured: Water would be diverted from the Valencia Water Reclamation Plant. Both the reduction in effluent and use of recycled water would be metered.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<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 checked="" 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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____

<p>Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b>:</p> <p>This project is a part of the Agency's Recycled Water Master Plan, and it will help provide an important and reliable source of additional water for the Santa Clarita Valley, resulting in a more effective utilization of the Agency's water supplies.</p>	
<p>Describe how the project's contribution toward meeting the <b>Increase Water Supply</b> objective could be measured:</p> <p>The objective could be measured with the use of recycled water meters that will be installed by the recycled water retailers, who will be measuring the recycled water customers use.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify: Approximately 1,600 afy
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<input 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 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	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) _____

Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b> :	
Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

<b>Promote Resource Stewardship</b>			
<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 checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Floodplain 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	Urban Land Use Management
<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): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>: Project would decrease flows in the Santa Clara River by an annual average of approximately 1,600 AFY, thereby decreasing flood flows by an equivalent amount, returning the Channel to a more natural flow regime and is increasing adsorbtion capacity in the wet months.</p>	
<p>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured: Water would be diverted from the Valencia Water Reclamation Plant. Both the reduction in effluent and use of recycled water would be metered.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres</li> </ol> </li> </ul>	<p>Quantify:</p>

tamarisk 5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

<b>Is the proposed project an element or phase of a regional or larger program?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If yes, please identify the program</b>	<u>CLWA's Recycled Water Master Plan</u>
<b>Proposed Construction/Implementation Start Date:</b>	<u>August 2008</u>
<b>Proposed Construction/Implementation Completion Date</b>	<u>March 2010</u>
<b>Ready for Construction Bid</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available	
<b>Conceptual Plans</b>	<u>In process</u>	<u>01/31/2008</u>	(mm/dd/yyyy)
<b>Land Acquisition/Easements</b>	<u>Not initiated</u>	<u>07/01/2008</u>	(mm/dd/yyyy)
<b>Preliminary Plans</b>	<u>Not initiated</u>	<u>03/31/2008</u>	(mm/dd/yyyy)
<b>CEQA/NEPA</b>	<u>Not initiated</u>	<u>03/01/2008</u>	(mm/dd/yyyy)
<b>Permits</b>	<u>Not initiated</u>	<u>07/01/2008</u>	(mm/dd/yyyy)

<b>Construction Drawings</b>	<u>Not initiated</u>	<u>07/01/2008</u>	(mm/dd/yyyy)
<b>Funding</b>	<u>Complete</u>	<u>07/01/2007</u>	(mm/dd/yyyy)

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

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**This project will help provide an important and reliable source of additional water for the Santa Clarita Valley, resulting in a more effective utilization of the Agency's water supplies. It will also help with reducing the amount of future effluent that would be discharged into the Santa Clara River from the Sanitation District of Los Angeles County's Valencia Water Reclamation Plant.**

**Please describe the dominant existing land use type for the proposed project location.**

**Valencia Water Reclamation Plant and various public streets**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Residential, Commercial, and Industrial

Downstream: Residential, Commercial, Agricultural, and Industrial

**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

<b>Does the project include disadvantaged community participation?</b>		
<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input checked="" type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	_____
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input type="checkbox"/> Other (describe): _____	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information			
<b>Source of Increased Supply or Demand Reduction</b>			
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage	
<input checked="" type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: <u>Recycled Water</u>			
Annual Yield of Supply (acre-feet): <u>Approximately 1,600</u>			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	<u>Approximately 1,600</u>		
Dry Year	<u>Approximately 1,600</u>		
Wet Year	<u>Approximately 1,600</u>		
<b>Availability by Season (check all that apply):</b>			
<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 19,139,000

Upper estimated total capital cost (\$): 19,139,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):  
100,000

Annual Operation and Maintenance  
Cost (\$): 20,000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes, The Agency has a O&M Budget.

Design Life of Project (years): 30

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost?

Yes

### Identify proposed funding sources:

- Agency Funding
- United State Environmental Protection Agency Grant Agreement XP-96939201-0
- IRWMP
- 

**What percent matching funding will be provided? (at least 10% is required): ~73%**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	2005 Urban Water Management Plan
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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 Road, Santa Clarita, CA 91350-2173

**Name:**

David Kimbrough

**Title:**

Water Quality & Laboratory Supervisor

**Telephone:**

661.297.1600 x 223

**Fax:**

661.297.0414

**Email:**

dkimbrough@clwa.org

**Website:**

www.clwa.org

**Project Name:**

Bromide Removal by Electrolytic Oxidation and Volatilization

**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:** 34.429

**Project Longitude:** -118.516

<b>Location Description:</b>	Rio Vista Water Treatment Plant Santa Clarita, CA
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Carollo Engineers	199 S Los Robles, Suite 530, Pasadena CA 91101	Lina Boulos 626.806.6210
Metropolitan Water District of Southern California	700 Moreno Avenue, La Verne, CA 91750	Sun Liang, Ph.D., P.E. (909) 392-5273

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

New but a branch off of previous research on bromide removal by the same technology.

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 one 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 Castaic Lake Water Agency uses water from California Bay Delta, treats this water to inactivate pathogenic organisms using oxidative disinfectants, and then delivers this water to water retailers in the Santa Clarita Valley. Bromide reacts with oxidative disinfectants to produce brominated disinfection by-products (DBPs). DBPs, and especially the brominated species, when consumed by human beings, are thought to have a number of negative health outcomes. A process that can remove bromide in a cost-effective fashion could greatly reduce human exposure to brominated DBPs. This is particularly a problem for those utilities that use water from the California Bay Delta because of the intrusion of salt water into the delta under unfavorable hydrolyic conditions. Approximately half of the water delivered in the Upper Santa Clarita valley comes from the California Bay Delta. Moreover, DBPs are not removed by conventional sewage treatment technologies. As a result, DBPs are discharged into the Santa Clara River by sewage treatment plants. Reducing bromide from source waters, would reduced the concentration of DBPs being discharged into the Santa Clara River.

### 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 one 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.\***

Bromide is a non-volatile anion found in all natural waters. Removing bromide using existing technologies is cost prohibitive for large scale water treatment. The Castaic Lake Water Agency (CLWA) has developed a technology that can remove bromide from source waters. Water is passed between dimensionally stable anodes (DSAs) and the bromide is oxidized to bromine. Water is also oxidized to oxygen gas and hydrogen ions. This produces a very low pH near the surface of the DSAs and large volumes of very fine gases, resulting the volatilization of bromine. CLWA has published several papers on the topic and received research funds from the American Water Works Association Research Foundation for this project. The process has already been shown to be effective at both removing bromide and reducing the concentrations of brominated disinfection by-products which bromide causes.

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

• Castaic Lake
•
• Santa Clara River Valley
•

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

<ul style="list-style-type: none"><li>• Kimbrough, D.E., Suffet, M.; "Electrochemical Process for the Removal of Bromide from California State Project Water"; Journal of Water Supply: Research &amp; Technology – AQUA, 55.3, 161 – 167, 2006</li></ul>
<ul style="list-style-type: none"><li>• Kimbrough, D.E., Suffet, M.; "Electrochemical Removal of Bromide and Reduction of THM Formation Potential in Drinking Water "; Water Research, Vol. 36, No. 19, pp. 4902-4906, 2002</li></ul>
<ul style="list-style-type: none"><li>• AWWARF Final Report for Tailored Collaboration Project 3182</li></ul>

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>	
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b> :	
Describe how the project’s contribution toward meeting the <b>Increase Water Supply</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:Ground water
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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 type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Pollution Prevention
<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) _____

Describe how the project contributes toward meeting the objective **Improve Water Quality**:  
 The Castaic Lake Water Agency current must take significant efforts and expense to ensure that the water brought south, treated, and delivered meets current EPA & DPH standards. Should water quality deteriorate in the SF Bay Delta as might occur in a drought or some situation where water could only be pumped under conditions of saltwater intrusion, this goal would not be obtained. Being able to remove bromide would provide much greater reliability and quality for future water delivers.

Describe how the project's contribution toward meeting the **Improve Water Quality** objective could be measured:

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify: Millions of gallons of water that would have less brominated DBPs.
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b> :	
Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> <li>5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk</li> </ol> </li> </ul>	Quantify:

<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

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>Bromide Electrolysis &amp; Volatilization</u>
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	_____	_____ (mm/dd/yyyy)
Land Acquisition/Easements	_____	_____ (mm/dd/yyyy)
Preliminary Plans	_____	_____ (mm/dd/yyyy)
CEQA/NEPA	_____	_____ (mm/dd/yyyy)
Permits	_____	_____ (mm/dd/yyyy)
Construction Drawings	_____	_____ (mm/dd/yyyy)
Funding	_____	_____ (mm/dd/yyyy)

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

The equipment is already constructed and in place. It was used in a prior project for bromide removal. It is ready to proceed. All that is needed is a temporary power supply and labor time.

#### Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

The formation and consumption of DBPs, and brominate DBPs in particular, is recognized by the USEPA and the California Department of Public Health as significant public health risk. The USEPA has developed three entirely separate rules since 1980 to address this problem. Removing bromide would greatly reduce the level of human exposure to brominated DBPs and thus improve public health.

**Please describe the dominant existing land use type for the proposed project location.**

Domestic and industrial.

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Wilderness

Downstream: Agriculture

**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 provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Electrolysis and Volatilization</u>
Design operational treatment capacity (million gallons/day)	<u>20,000 gallons / day</u>
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input checked="" type="checkbox"/> Other (describe): <u>Bromide</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>		
<b>Source of Increased Supply or Demand Reduction</b>		
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: _____		
Annual Yield of Supply (acre-feet): _____		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	_____	
Dry Year	_____	
Wet Year	_____	
<b>Availability by Season (check all that apply):</b>		
<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring
<input type="checkbox"/> Winter		
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 40,000

Upper estimated total capital cost (\$): 60,000

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

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

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: \_\_\_\_\_

Design Life of Project (years): 2

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- American Water Works Association Research Foundation
- 
- 
- 

What percent matching funding will be provided? (at least 10% is required): 25%

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	Urban Water Mangement Plan for CLWA, SCWD, VWC, & NCWD November 2005
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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 Road, Santa Clarita, CA 91350-2173

**Name:**

David Kimbrough

**Title:**

Water Quality & Laboratory Supervisor

**Telephone:**

661.297.1600 x 223

**Fax:**

661.297.0414

**Email:**

dkimbrough@clwa.org

**Website:**

www.clwa.org

**Project Name:**

Chloride Removal by Electrolytic Oxidation and Volatilization

**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:**

34.429

**Project Longitude:**

-118.516

<b>Location Description:</b>	Rio Vista Water Treatment Plant Santa Clarita, CA
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Los Angeles County Sanitation Districts	W1955 Workman Mill Road Whittier, CA 90601	Francisco Guerrero 562.908.4288 ext 2832
Carollo Engineers	199 S Los Robles, Suite 530, Pasadena CA 91101	Lina Boulos 626.806.6210

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

New but a branch off of previous research on bromide removal by the same technology.

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 one 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 Santa Clara River is listed as impaired by the State Water Resource Control Board (SWRCB) because of excess chloride concentrations in several reaches of the river. The Los Angeles Regional Water Quality Control Board (LARWQC) has determined that concentration of chloride in excess of 100 mg/L impairs beneficial downstream uses of the water in the Santa Clara River, producing leaf burn in avocados and strawberries. The Los Angeles County Sanitation Districts operate two treatment plants in the Upper Santa Clara River valley and discharges approximately 30 million gallons of water per day. The concentration of chloride in this discharge exceeds the 100 mg/L limit established by the RWQCB. This excess chloride is the result of several factors, one of which is the native amounts of chloride found in drinking water provided by the Castaic Lake Water Agency and other water utilities. Being able to lower the amount of chloride in source waters would positively impact the operations of the LACSD and all downstream users of the waters of the Santa Clara River.**

### 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 one 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.\***

Chloride is a non-volatile anion found in all natural waters. Removing chloride using existing technologies is cost prohibitive for large scale water treatment. The Castaic Lake Water Agency (CLWA) has developed a technology that can remove bromide from source waters. Water is passed between dimensionally stable anodes (DSAs) and the bromide is oxidized to bromine. Water is also oxidized to oxygen gas and hydrogen ions. This produces a very low pH near the surface of the DSAs and large volumes of very fine gases, resulting the volatilization of bromine. CLWA has published several papers on the topic and received research funds from the American Water Works Association Research Foundation for this project. Since chloride and bromide (and bromine and chlorine) have fairly similar chemistries, it seem reasonable that the same process may work for the oxidation and volatilization of chloride as well. The proposal being put forward here is to operate a pilot-scale treatment plant and conduct studies to determine if this process that does remove bromide can also remove chloride from local waters. This project, should it prove effective, it could be applied to Castaic Lake water and the waters of the Santa Clara River valley.

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

<ul style="list-style-type: none"><li>• Castaic Lake</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>
<ul style="list-style-type: none"><li>• Santa Clara River Valley</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>

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

<ul style="list-style-type: none"><li>• Kimbrough, D.E., Suffet, M.; "Electrochemical Process for the Removal of Bromide from California State Project Water"; Journal of Water Supply: Research &amp; Technology – AQUA, 55.3, 161 – 167, 2006</li></ul>
<ul style="list-style-type: none"><li>• Kimbrough, D.E., Suffet, M.; "Electrochemical Removal of Bromide and Reduction of THM Formation Potential in Drinking Water "; Water Research, Vol. 36, No. 19, pp. 4902-4906, 2002</li></ul>
<ul style="list-style-type: none"><li>• AWWARF Final Report for Tailored Collaboration Project 3182</li></ul>

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input checked="" 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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**:  
 Some waters cannot currently be used because of excessive quantities of chloride. A process to remove chlorides would make these waters available.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured: The cost-effectiveness of the process (kg chloride volatilized / dollar) is one measure and the number of impaired sources that could be brought into production is a second measure.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify: One of the limitations of the use of recycled water is chloride, both for the TMDL, future WDR for recycled water permits, and consumer acceptability as irrigation water. If chloride can be removed, these limitation would be removed and much more recycled water could be used.
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify: Over 6,000 of acre-feet of ground water in Devil's Den are unusable for most uses due to high chloride concentrations. If this water could have the excess chloride removed, it could be used for other uses, include transfers.
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

--	--

<b>Improve Water Quality</b>			
<input type="checkbox"/> Primary	<input 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 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	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:                      The proposed process would remove chlorides before they were delivered to consumers and would thus avoid chloride loading in the influent to local wastewater treatment plants. This in turn would reduce discharges of chloride to the Santa Clara River. The waters of the Santa Clara River would be of higher quality and would then improve the quality of all ground waters recharged with water from the Santa Clara River.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify: The Santa Clara River does not currently meet the TMDL limit of 100 mg/L. Removing from source waters will allow the TMDL to be met.

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b> :	
Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> <li>5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk</li> </ol> </li> </ul>	Quantify:

<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

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>Bromide Electrolysis &amp; Volatilization</u>
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	_____	_____ (mm/dd/yyyy)
Land Acquisition/ Easements	_____	_____ (mm/dd/yyyy)
Preliminary Plans	_____	_____ (mm/dd/yyyy)
CEQA/NEPA	_____	_____ (mm/dd/yyyy)
Permits	_____	_____ (mm/dd/yyyy)
Construction Drawings	_____	_____ (mm/dd/yyyy)
Funding	_____	_____ (mm/dd/yyyy)

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

The equipment is already constructed and in place. It was used in a prior project for bromide removal. It is ready to proceed. All that is needed is a temporary power supply and labor time.

#### Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

Chloride is a major limiting factor in the availability of water for both agriculture and municipal uses. It is the cause of the Santa Clara River being listed on the California 303(d) list. A cost-effective process that can remove chloride would make new sources of water available and improve the quality of the Santa Clara River.

**Please describe the dominant existing land use type for the proposed project location.**

Domestic and industrial.

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Wilderness

Downstream: Agriculture

**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 provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Electrolysis and Volatilization</u>
Design operational treatment capacity (million gallons/day)	<u>20,000 gallons / day</u>
Targeted Contaminants (Check all that apply):	
<input checked="" type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input type="checkbox"/> Other (describe): _____	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>			
<b>Source of Increased Supply or Demand Reduction</b>			
<input type="checkbox"/> Groundwater	<input checked="" type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage	
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: _____			
Annual Yield of Supply (acre-feet): _____			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	_____		
Dry Year	_____		
Wet Year	_____		
<b>Availability by Season (check all that apply):</b>			
<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 60,0000

Upper estimated total capital cost (\$): 80,000

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

Annual Operation and Maintenance  
Cost (\$): 125,000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: No

Design Life of Project (years): 2

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes.

### Identify proposed funding sources:

- American Water Works Association Research Foundation
- Water Environment Research Foundation
- Water Reuse Foundation
- 

What percent matching funding will be provided? (at least 10% is required): At least 25%

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	Urban Water Management Plan for CLWA, SCWD, VWC, NCWD, November 2005
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	It could be applied to ground water but it will be applied to surface water first. CLWA source water will be studied first.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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 Road Santa Clarita, CA 91350

**Name:**

Thomas Hawes

**Title:**

Water Conservation Program Coordinator

**Telephone:**

(661) 513-1253

**Fax:**

(661) 263-2813

**Email:**

thawes@clwa.org

**Website:**

www.clwa.org / www.SCVh20.org

**Project Name:**

Large Landscape Efficiency Improvement 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:** 34 25' 00"

**Project Longitude:** 118 25' 00"

<b>Location Description:</b>	Large Landscapes in the Santa Clarita Valley including Landscape Maintenance districts, HOA Common areas and regional and local parks.
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Santa Clarita Water Div.	22722 Soledad Cyn Santa Clarita, CA 91351	Cathy Holloman 661 259 2737
Newhall County Water	N. Pine Street Newhall, CA 91321	Robert McLaughlin 661 259 3610

**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 one 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.**

**Large Landscapes in the area are fighting inefficiencies in the distribution uniformity of applied water. As a result, the amount of water applied to maintain the health of these landscapes is increased to compensate for the lack of uniformity. A by-product of applying too much water is increased run-off of excess water.**

### 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 one 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 start with an education component so the on- site maintenance staff will have an understanding of the issues that lead to increased water demand and the tools to recognize and correct those issues. The site will get an ET controller with a rain shut off device and some high distribution uniformity heads with a low application rate of the correct size installed to demonstrate the maximum achievable results for the unique area. Sites will be chosen on a projected cost versus benefit basis.

**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:**

• CUWCC BMP 5
• CLWA City Parks and LMD estimated water budget (internal)
•



**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective **Reduce Water Demand**:  
 This project directly identifies and corrects the excess use of water in Large Landscapes in Parks, HOA's and Landscape Maintenance Districts.

Describe how the project's contribution toward meeting the **Reduce Water Demand** objective could be measured: Comparison of metered usage for Landscapes served by this project.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify: 2%
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:N/A

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	System Reoperation
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> : By directly reducing water demand of the valleys largest water users.	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured: Comparison of post project water use to a selected reference year. Post project water use compared to the provided water budget.	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify: N/A
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify: 800 Acre Feet of treated water.

<b>Increase Water Supply</b>			
<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 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 checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**:  
 This project intends to directly reduce current use and therefore that reduced irrigation could be available for supply.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured: Comparison of metered usage adjusted for actual plant water demands as measured by CIMIS station #204.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:N/A
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:N/A
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:Reduce usage and demand therefore reducing total capacity and peak demands.

<b>Improve Water Quality</b>			
<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 checked="" 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) _____

Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b> : N/A	
Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:N/A	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:N/A
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:Secondary benefit of reduced run off from large landscape sites.
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:N/A

<b>Promote Resource Stewardship</b>			
<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 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 checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Floodplain 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	Urban Land Use Management
<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): _____

Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b> : Correcting irrigation application inefficiencies and reducing current demand.	
Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured: Comparison of the metered sales of water to the project site	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> <li>5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk</li> </ol> </li> </ul>	Quantify: N/A

<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:N/A
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:N/A
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:N/A

<b>Is the proposed project an element or phase of a regional or larger program?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If yes, please identify the program</b>	<u>CUWCC BMP5</u>
<b>Proposed Construction/Implementation Start Date:</b>	<u>2008</u>
<b>Proposed Construction/Implementation Completion Date</b>	<u>2010</u>
<b>Ready for Construction Bid</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>In Process</u>	<u>12/10/2007</u> (mm/dd/yyyy)
Land Acquisition/ Easements	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>In Process</u>	<u>2/15/2008</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>In Process</u>	<u>10/10/2007</u> (mm/dd/yyyy)

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

**We have started designing the education component of this project. We have funding for the completion of the design of the education component.**

#### Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**Primary benefits are the reduced demand on state water project water by increasing the irrigation efficiency of existing landscape. Secondary benefits are reducing irrigation runoff form project sites.**

**Please describe the dominant existing land use type for the proposed project location.**

**Recreation, slope stabilization and area beautification of residential areas.**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

*Upstream: Residential / native terrain*

*Downstream: Residential / Farming.*

**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 provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>N/A</u>
Design operational treatment capacity (million gallons/day)	<u>Reduction of total demand</u>
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input type="checkbox"/> Other (describe): _____	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>N/A</u>
Maximum increased conveyance capacity (cubic feet/second)	<u>Reduced demand, existing capacity is then available for other uses.</u>
Estimated area benefiting from flood damage reduction (acres)	<u>N/A</u>
Estimated level of flood protection resulting from project implementation	<u>N/A</u>
Estimated annual value of flood damage reduction provided by project (\$/year)	<u>N/A</u>
Acreage required for project implementation	<u>N/A</u>

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>			
<b>Source of Increased Supply or Demand Reduction</b>			
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage	
<input type="checkbox"/> Recycled water	<input checked="" type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input checked="" type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: _____			
Annual Yield of Supply (acre-feet): <u>Demand reduced by 800 A/F</u>			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	<u>800 A/F</u>		
Dry Year	<u>840 A/F</u>		
Wet Year	<u>760 A/F</u>		
<b>Availability by Season (check all that apply):</b>			
<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	<u>N/A</u>
Detention Basin area (acres)	<u>N/A</u>
Detention basin max. operational depth (ft.)	<u>N/A</u>
% of basin covered by wetlands	<u>N/A</u>
Soil type	<u>N/A</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	<u>N/A</u>
Estimated basin annual inflow (acre-feet/year)	<u>N/A</u>
Estimated basin annual outflow (acre-feet/year)	<u>N/A</u>

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	<u>N/A</u>
Treatment wetland area (acres)	<u>N/A</u>
Riparian habitat area (acres)	<u>N/A</u>
Non-developed open space area (acres)	<u>N/A</u>
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	<u>N/A</u>
Multiple Sport Athletics Acres	<u>N/A</u>
Other Recreation Acres	<u>N/A</u>
Pedestrian Trail Acres	<u>N/A</u>
Equestrian Trail Acres	<u>N/A</u>
Other Passive Activity	<u>N/A</u>
Other Acres (describe)	<u>N/A</u>
Description _____	
Total Project area (acres)	<u>N/A</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 450,000

Upper estimated total capital cost (\$): 675,000

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

Annual Operation and Maintenance  
Cost (\$): \$500 to \$1000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: No

Design Life of Project (years): 15

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- CLWA Budget
- 
- 
- 

What percent matching funding will be provided? (at least 10% is required): 25%

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	2005 UWMP OF CLWA, SCWD, LA36, NCWD, VWC
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	This project can reduce the demand on ground water depending on the source percentage (ground water or state) at the project site.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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 Road, Santa Clarita, CA 91350-2173

**Name:**

Jeff Ford

**Title:**

Interim Water Resources Manager

**Telephone:**

661-297-1600 x 281

**Fax:**

661-513-1202

**Email:**

jford@clwa.org

**Website:**

www.clwa.org

**Project Name:**

Customer Recycled Water Incentive 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:**

<b>Location Description:</b>	CLWA service area
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
NCWD, LA36, SCWD, VWC, Santa Clarita Valley Sanitation District		

**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 one 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 use of recycled water will decrease the need for imported water to supply the Santa Clarita Valley. It will also help reduce the amount of future effluent that would be discharged into the Santa Clara River from the Sanitation District of Los Angeles County's Valencia Water Reclamation Plant. The Customer Recycled Water Incentive Program will serve to bridge a cost savings gap that will encourage the use of recycled water in conjunction with the CLWA Recycled Water Program Phase, II (See Program CLWA-1). While the cost of recycled water would less than potatble water, the initial costs of hooking up to the recycled water system may exceed the cost savings of using recycled water. This would be a disincentive for the use of recycled water and would defeat the benefits of the construction of the Recycled Water Program Phase II. This project would offset some of the capital costs to the user of recycled water in order to keep the financial incentives of recyced relative to potable water available.**

### 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 one 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 Castaic Lake Water Agency (CLWA) is planning to expand its existing recycled water system as noted in project CLWA-1. This project would fund hook-up costs to the system providing an incentive for the end-user to use recycled water. Project would consist of providing financing to customers to pay for a licensed plumber/contractor to connect to the recycled water system or to pay for the meter or other equipment connect to the system. Financing would be very favorable terms that could be repaid by paying potable rates for recycled water and using the difference to pay for the hook-up costs.

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

<ul style="list-style-type: none"><li>• Santa Clara River (indirectly associated)</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>

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

<ul style="list-style-type: none"><li>• CLWA's Recycled Water Master Plan Program EIR certified March 28, 2007</li></ul>
<ul style="list-style-type: none"><li>• CLWA's Urban Water Management Plan dated November 2005</li></ul>
<ul style="list-style-type: none"><li>• CLWA Draft Report Recycled Water Master Plan dated May 2002</li></ul>

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>	
<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
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Other (Please State): <u>Landscaping</u>

Describe how the project contributes toward meeting the objective **Reduce Water Demand**:  
 This project contributes towards the water reduction demand by using the recycled water for irrigation of parks, golf courses, landscaping, and industrial applications. This helps to preserve the supply of potable water for human consumption and other uses by providing an alternative source of water for irrigation.

Describe how the project's contribution toward meeting the **Reduce Water Demand** objective could be measured: Water would be diverted from the Valencia Water Reclamation Plant. Both the reduction in effluent and use of recycled water would be metered.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<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 checked="" 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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**:  
 This project will facilitate part of the Agency's Recycled Water Master Plan, and it will help provide an important and reliable source of additional water for the Santa Clarita Valley, resulting in a more effective utilization of the Agency's water supplies.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured: The objective could be measured with the use of recycled water meters that will be installed by the recycled water retailers, who will be measuring the recycled water customers use.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify: Increase use of recycled water by approximately 1,600 AF per year
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<input 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 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	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) _____

Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b> :	
Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

<b>Promote Resource Stewardship</b>			
<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 checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Floodplain 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	Urban Land Use Management
<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): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>: Project would decrease flows in the Santa Clara River by an annual average of approximately 1,600 AFY, thereby decreasing flood flows by an equivalent amount, returning the Channel to a more natural flow regime and is increasing adsorbtion capacity in the wet months.</p>	
<p>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured: Water would be diverted from the Valencia Water Reclamation Plant. Both the reduction in effluent and use of recycled water would be metered.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres</li> </ol> </li> </ul>	<p>Quantify:</p>

tamarisk 5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

<b>Is the proposed project an element or phase of a regional or larger program?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If yes, please identify the program</b>	<u>2005 UWMP and LACSD Master Plan.</u>
<b>Proposed Construction/Implementation Start Date:</b>	<u>August 2008</u>
<b>Proposed Construction/Implementation Completion Date</b>	<u>March 2010</u>
<b>Ready for Construction Bid</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>N/A</u>	_____ (mm/dd/yyyy)
Land Acquisition/ Easements	<u>N/A</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>N/A</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>N/A</u>	_____ (mm/dd/yyyy)
Permits	<u>N/A</u>	_____ (mm/dd/yyyy)

<b>Construction Drawings</b>	<u>N/A</u>	_____ (mm/dd/yyyy)
<b>Funding</b>	<u>N/A</u>	_____ (mm/dd/yyyy)

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

**Project will follow-on CLWA-1, Master Plan Phase II, to hook-up potential recycled water users once the system makes recycled water available.**

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**This project will help provide an important and reliable source of additional water for the Santa Clarita Valley, resulting in a more effective utilization of the Agency's water supplies. It will also help with reducing the amount of future effluent that would be discharged into the Santa Clara River from the Sanitation District of Los Angeles County's Valencia Water Reclamation Plant.**

**Please describe the dominant existing land use type for the proposed project location.**

**Valencia Water Reclamation Plant, commercial, industrial, proposed residential and various public streets**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Residential, Commercial, and Industrial  
 Downstream: Residential, Commercial, and Industrial

**Does the project address any known environmental justice issues?**

Yes                       No                       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
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<b>Does the project include disadvantaged community participation?</b>
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<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Sure
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<b>If yes, please identify the group or organization:</b> _____
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**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	_____
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input type="checkbox"/> Other (describe): _____	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>			
<b>Source of Increased Supply or Demand Reduction</b>			
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage	
<input checked="" type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: <u>Recycled Water</u>			
Annual Yield of Supply (acre-feet): <u>Approximately 1,600</u>			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	<u>Approximately 1,600</u>		
Dry Year	<u>Approximately 1,600</u>		
Wet Year	<u>Approximately 1,600</u>		
<b>Availability by Season (check all that apply):</b>			
<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 1M

Upper estimated total capital cost (\$): 10M

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

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

Does your organization have a mechanism or  
other means to cover O&M for the life of project?  
Please describe: N/A

Design Life of Project (years): 30 years

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- Funds supplied by local water companies, the SCV Sanitation District or water users
- 
- 
- 

What percent matching funding will be provided? (at least 10% is required): 25%

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	2005 Urban Water Management Plan prepared for the Castaic Lake Water Agency, CLWA Santa Clarita Water Division, newhall County Water District and Valencia Water Company.
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	No

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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/Ventura County Resource Conservation District

**Agency / Organization / Individual Address:**

City of Santa Clarita, 23920 Valencia Blvd, Santa Clarita, California 91355  
 Ventura County Resource Conservation District, 3380 Somis Rd., Somis, California 93066

**Name:**

Heather Lea Merenda

**Title:**

Environmental Planner

**Telephone:**

661-284-1413

**Fax:**

661-259-8125

**Email:**

hmerenda@santa-clarita.com

**Website:**

<http://www.vcrd.org/pages/scarp.html>

**Project Name:**

Upper Santa Clara River Watershed Arundo and Tamarisk Removal

**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:**

<b>Location Description:</b>	Arundo and tamarisk removal will occur throughout the Santa Clara River tributaries and mainstem.
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Angeles National Forest		Nancy Hanson
Ventura County Resource Conservation		Marty Melvin

Los Angeles County Flood Control District		Bruce Hamomot
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**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 one 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 Ventura County Resource Conservation District (VCRCD) is 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 (*Arundo donax*) and tamarisk (*Tamarix* spp.).**

**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.**

**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 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.**
- 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 one 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 VCRCD is requesting funding to cover a 10-year implementation period.

The project will consist of two phases. The first phase will include the initial treatment of the arundo, which includes biomass removal and herbicide application. 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.

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
• Saugus Formation
• Santa Clara River Valley East
• Acton Valley Groundwater Basin

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

• Santa Clara Arundo and Tamarisk Removal Program
• Upper Santa Clara River Watershed Arundo/Tamarisk Removal Plan EIR
• Upper Santa Clara River Watershed Arundo/Tamarisk Removal Plan EA

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:Native riparian vegetation uses less water than invasive aundo
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<input type="checkbox"/> Primary	<input checked="" 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 checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recycled Municipal Water
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Reduced Reliance on Imported Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**:

Removal of arundo will decrease the amount of water wasted through plant transpiration and can result in more water available for ground water recharge

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured:

The amount of water water supply that would otherwise be wasted through arundo plant transpiration can be estimated by the acreage of arundo removed and the amount of water transpired per acre.

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify: 7773 acre-ft of water will be recharged to the ground water basin rather than be transpired by arundo

<b>Improve Water Quality</b>			
<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 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 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) _____

Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b> :	
Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured: Removal of tamarisk will alleviate salt concentrations on the surface of the riverbed which can then be washed downstream.	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

<b>Promote Resource Stewardship</b>			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input 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 checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Floodplain 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	Urban Land Use Management
<input type="checkbox"/> Primary	<input checked="" 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 checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>: Restoration of native riparian habitat by removing invasive arundo and tamarisk species. Arundo and tamarisk removal will occur on the mainstem as well as the tributaries of the Santa Clara River. The location of removal is listed and identified on the SCARP Long-Term Implementation Plan.</p>	
<p>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured: The total acre of arundo and tamarisk removed can be counted as the acreage that will be restored to native riparian habitat.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres</li> </ol> </li> </ul>	<p>Quantify:</p> <p>Removal of all arundo and tamarisk in the Santa Clara River mainstem and its tributaries as listed and identified in the SCARP Long-Term Implementation Plan.</p>

tamarisk 5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

<b>Is the proposed project an element or phase of a regional or larger program?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If yes, please identify the program</b>	<u>Santa Clara Arundo and Tamarisk Removal Program and Santa Clara Invasive Plant Removal Program (Draft)</u>
<b>Proposed Construction/Implementation Start Date:</b>	<u>September 2008</u>
<b>Proposed Construction/Implementation Completion Date</b>	<u>September 2018</u>
<b>Ready for Construction Bid</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>complete</u>	_____ (mm/dd/yyyy)
Land Acquisition/ Easements	<u>N/A</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>complete</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>complete</u>	_____ (mm/dd/yyyy)

<b>Permits</b>	<u>In process (have ACOE 404, LADPW, CalTrans; working on CDFG SAA &amp; RWQCB 401)</u>	_____	(mm/dd/yyyy)
<b>Construction Drawings</b>	<u>N/A</u>	_____	(mm/dd/yyyy)
<b>Funding</b>	<u>In process</u>	_____	(mm/dd/yyyy)

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

**While this is not a traditional construction project, the effort requires similar types of permitting due to activity in the riparian areas of the Santa Clara River Watershed. The group has made substantial progress in obtaining programmatic permitting. A preliminary 404 Permit has been obtained from the U.S. Army Corps of Engineers. Encroachment permits have also been obtained from the Los Angeles Department of Public Works and the California Department of Transportation. The California Department of Fish and Game Streambed Alteration Agreement and the Regional Water Quality Control Board 401 Permit application has been submitted and we are waiting for comments and approval. Funding sources we are approaching include Natural Resources Conservation Service and the Santa Clara River Trustee Council (CDFG and USFWS).**

#### Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**The implementation of the SCARP project provides a long-term program for the upper watershed to remove invasive species that have several different negative impacts. The benefits of arundo and tamarisk removal include:**

- **Water Quality:** Improved water quality by enhancing native revegetation, which will improve shading of surface water, thereby resulting in bank-edge river habitats, lower water temperature, higher dissolved-oxygen content, lower pH, and less conversion of ammonia to toxic unionized ammonia.
- **Water Supply:** Increase in surface water and potentially groundwater through reduction of heavy consumption and rapid transpiration from invasive plants.
- **Flooding:** Removal of obstructions to allow flood flows, which will reduce associated damage to public facilities including bridges and culverts, and to private property such as important farmland.
- **Erosion:** decreased erosion of streambanks, and decreased associated damage to habitats and farmlands due to channel obstructions, and increased bank stability associated with native revegetation.
- **Fire Hazards:** Substantially decreased danger of wildfire occurrences, intensity,

and frequency, and a increase in the role riparian areas infested with arundo play as firebreaks or buffers.

- **Native Habitats:** Replacement of critical riparian habitat through removal of dense monocultures of arundo and tamarisk with natural recruitment and revegetation.
- **Native Wildlife:** Increased diversity and abundance of riparian-dependent wildlife due to increased habitat quality, increase in food and cover sources, and decreased water temperatures.

**Threatened and Endangered Species:** Substantial increase 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.

**Please describe the dominant existing land use type for the proposed project location.**

open space/riparian habitat

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: open space/riparian habitat

Downstream: open space/riparian habitat

**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 provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	_____
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input checked="" type="checkbox"/> Chloride <input checked="" type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input checked="" type="checkbox"/> Other (describe): <u>reduces sedimentation loads</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>7743 acre-feet/year (assuming a acre of arundo uses 0.4244gal/ft^2/day (SCREMP) and 374 acres of dense arundo growth</u>
Maximum increased conveyance capacity (cubic feet/second)	<u>Approximately 1,500 acres of invasive plants removed--removal of arundo will increase conveyance capacity by an undetermined amount.</u>
Estimated area benefiting from flood damage reduction (acres)	<u>1,500 acres to total acreage in the 500-year flood plain--removal of arundo will relieve a certain degree of flow constriction due to vegetation growth and flow constriction</u>
Estimated level of flood protection resulting from project implementation	<u>restoration of 7.5% of the acreage in the 500-year floodplain will relieve some level of flood hazard.</u>
Estimated annual value of flood damage reduction provided by project (\$/year)	<u>There has not been a study to determine the exact monetary loss due to flooding in this watershed. However, the SCREMP report placed the 1983 flood damage at about \$400K along the Santa Clara River.</u>
Acreage required for project implementation	<u>20,000 + (covers entire watershed)</u>

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information			
<b>Source of Increased Supply or Demand Reduction</b>			
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage	
<input checked="" type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input type="checkbox"/> Transfer	<input checked="" type="checkbox"/> Other (describe): <u>native riparian habitat transpired less than invasive plants results in less water demand in the river</u>		
Type of enhanced supply or demand reduction: <u>ecosystem restoration</u>			
Annual Yield of Supply (acre-feet): <u>14,000</u>			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	<u>14,000</u>		
Dry Year	<u>5,000-10,000 (approximate)</u>		
Wet Year	<u>14,000</u>		
<b>Availability by Season (check all that apply):</b>			
<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	<u>refer to IRWMP</u>
Treatment wetland area (acres)	<u>refer to IRWMP</u>
Riparian habitat area (acres)	<u>refer to IRWMP</u>
Non-developed open space area (acres)	<u>refer to IRWMP</u>
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 12,000,000

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

Annual Operation and Maintenance  
Cost (\$): 1,500,000 – 4,000,000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: \_\_\_\_\_

Design Life of Project (years): 50

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost?

### Identify proposed funding sources:

- 
- 
- 
- 

What percent matching funding will be provided? (at least 10% is required):

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input type="checkbox"/> Yes
	<input checked="" type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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 Boulevard

**Name:**

Denise Clark

**Title:**

Project Development Coordinator

**Telephone:**

661 286 4148

**Fax:**

**Email:**

dclark@sbcglobal.net

**Website:**

santa-clarita.com

**Project Name:**

Discovery River Park and Conservation Area

**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:** 34.418806

**Project Longitude:** -118.479052

<b>Location Description:</b>	The project is located along the west side of Canyon View Drive, in the community of Canyon Country within the City of Santa Clarita. It is partially located within the Santa Clara River, a Significant Ecological Area (SEA) as identified in the City's General Plan.
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number

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

This is the second of a three phase project. First phase is completed

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 one 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 River Park Project is located adjacent to and west of Canyon View Drive, south of Cottonwood Drive, east of and including the Santa Clara River. As an undeveloped section of the Santa Clara River watershed and ecosystem, its restoration provides an opportunity for the City of Santa Clarita to continue to provide leadership in the area of sustainable watershed and stormwater management, water conservation and capture, land use planning and site design. The 12 acre project includes ecosystem restoration, a LEED-Certified nature educational center, and passive recreation area designed to serve as a model for sustainable building and site design principles.**

**Studies completed by conservation groups including, South Coast Wildlands recognized coastal watersheds, such as the Santa Clara River Watershed, have suffered due to dams, diversion, channelization, flood control activities, residential, industrial, and agricultural development, livestock grazing, and other lands disturbances.**

### 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 one 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 capture 100% of urban runoff and allow groundwater, now diverted or pumped off-site, to return to the river. Water will flow through planted filtration and bioswales and drain into retention basins and restored spring-fed pond consistent with historic flow patterns. No unfiltered or untreated urban water will flow into the river or off site. An overflow system will allow rainfall greater than a 50 year storm to gradually enter the river.

The interpretive center will be the first of its kind, located in a suburban area, dedicated to storm water management, water conservation, and the Santa Clara River's preservation. The center and its demonstration garden represent a tool for learning about how restoration and conservation has relevance in a suburban community and will provide guidance, direction, and advocacy of sustainable water use. The ecosystem restoration plan includes integrating native planting with adapted, non-invasive species relevant to the Southern California suburban environment.

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

<ul style="list-style-type: none"><li>• Santa Clara River</li></ul>
<ul style="list-style-type: none"><li>• Four Oaks Drainage</li></ul>
<ul style="list-style-type: none"><li>• Southern Drainage -Perreta Channel</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>

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

<ul style="list-style-type: none"><li>• Negative Declaration – Discovery Park 020004982</li></ul>
<ul style="list-style-type: none"><li>• City of Santa Clarita River Park Master Plan - 2003</li></ul>
<ul style="list-style-type: none"><li>• Santa Clara River Park Project – California Polytechnic University Pomona</li></ul>
<ul style="list-style-type: none"><li>• Santa Clara River Recreation 7 Water Feature Study</li></ul>

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>	
<input type="checkbox"/> Primary <input checked="" type="checkbox"/> Secondary <input type="checkbox"/> NA	Agricultural Water Use Efficiency
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Urban Water Use Efficiency
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Other (Please State):_____

<p>Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b>:</p> <p>As a model for sustainable water use and planning within a suburban environment, it will provide a venue for university study, research and programs in resource restoration. By providing this prototype for future land use planners, residents, and developers, the City will be able to improve water quality and water conservation today and in the future.</p>	
<p>Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured: Water usage will be measured by collecting data of reduced water usage in the area from local water purveyors.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	<p>Quantify: As a result of its modeling efforts, the project will be a catalyst for energy conservation and reduced auto dependency. The park will demonstrate energy-conserving site designs for use in suburban areas in such a way visitors will implement these ideas in their own residences. Also, the park interpretive information will promote an understanding of how land use and auto dependency affects air pollution. Visitors will be given suggestions for individual adaptation into their own lifestyles resulting in overall reduction in air pollution.</p>
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	<p>Quantify: N/A</p>

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<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 checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Precipitation Enhancement
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**:  
 This project will capture 100% of urban runoff and allow groundwater, now diverted or pumped off-site, to return to the river. Water will flow through planted filtration and bioswales and drain into retention basins and restored spring-fed pond consistent with historic flow patterns. No unfiltered or untreated urban water will flow into the river or off site.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured:  
 The Santa Clara River will no longer receive untreated urban runoff or manipulated water discharge from the site. As a part of its interpretive series, both untreated urban effluent and exiting water will be tested with visible results to demonstrate and measure water quality benefits from water conserving or restoring site design.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:



<b>Improve Water Quality</b>			
<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 checked="" 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 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) _____

Describe how the project contributes toward meeting the objective **Improve Water Quality**:  
 By replicating preconstruction watershed conditions the project conforms to the following Regional Water Quality Control goals:

- Protect and enhance all basin waters, surface and underground.
- The quality of all surface waters shall allow unrestricted recreational use.
- Achieve maximum effective use of fresh waters through reclamation and recycling
- Continually improve waste treatment systems and processes.
- Reduce and prevent accelerated (man caused) erosion to the level necessary to restore and protect beneficial uses of receiving waters

The City is participating in the development of the Integrated Regional Water Management Plan to be ratified in 2008.

Describe how the project's contribution toward meeting the **Improve Water Quality** objective could be measured: As a part of its interpretive series, both untreated urban effluent and exiting water will be tested with visible results to demonstrate and measure water quality benefits from water conserving or restoring site design.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>• Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>• Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>• Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

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<b>Promote Resource Stewardship</b>			
<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 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	Floodplain Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Land Use Management
<input checked="" 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): _____

Describe how the project contributes toward meeting the objective **Promote Resource Stewardship**:  
 The Interpretive Center will be LEED-Certified, incorporating some of the following water conservation and purifying measures: rain capture and reuse, permeable paving, solar heating and cooling, landscaping for microclimate control, green roof or green wall technology.

Describe how the project's contribution toward meeting the **Promote Resource Stewardship** objective could be measured: As a part of the Park's docent program, volunteers from local community conservation organizations, schools, and interested community members will form the solid core of individuals supporting and promoting the Parks' conservation work. For the past 13 years, the City has held an annual River Rally Clean-Up and Environmental Expo, where hundreds of community members and groups volunteer to clean up the river and several environmental groups provide materials and educate the importance of maintaining the environment for future generations..

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> </ol> </li> </ul>	Quantify:
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3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk 4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk 5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

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	_____
Proposed Construction/Implementation Start Date:	<u>Fall 2008 - depending on funding opportunities</u>
Proposed Construction/Implementation Completion Date	<u>Spring 2010</u>
Ready for Construction Bid	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>Completed</u>	_____ (mm/dd/yyyy)
Land Acquisition/ Easements	<u>Completed</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>Completed</u>	_____ (mm/dd/yyyy)

<b>CEQA/NEPA</b>	<u>Completed</u>	_____	(mm/dd/yyyy)
<b>Permits</b>	<u>Not Complete</u>	<u>Fall 2008</u>	(mm/dd/yyyy)
<b>Construction Drawings</b>	<u>50% Complete</u>	<u>Summer 2008</u>	(mm/dd/yyyy)
<b>Funding</b>	_____	_____	(mm/dd/yyyy)

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

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**As a result of its modeling efforts, the project will be a catalyst for energy conservation and reduced auto dependency. The park will demonstrate energy-conserving site designs for use in suburban areas in such a way visitors will implement these ideas in their own residences. Also, the park interpretive information will promote an understanding of how land use and auto dependency affects air pollution. Visitors will be given suggestions for individual adaptation into their own lifestyles resulting in overall reduction in air pollution.**

**Please describe the dominant existing land use type for the proposed project location.**

**Residential**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Residential, Commercial

Downstream: Residential, Commercial

<b>Does the project address any known environmental justice issues?</b>		
<input checked="" type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input type="checkbox"/> <b>Not Sure</b>
<b>Is the project located within or adjacent to a disadvantaged community?</b>		
<input checked="" type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input type="checkbox"/> <b>Not Sure</b>
<b>Does the project include disadvantaged community participation?</b>		
<input checked="" type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization:</b> <u>Low income residents in adjacent community were involved in park planning.</u>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Rain capture, infiltration, and reuse</u>
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input type="checkbox"/> Other (describe): _____	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>		
<b>Source of Increased Supply or Demand Reduction</b>		
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input checked="" type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: _____		
Annual Yield of Supply (acre-feet): _____		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	_____	
Dry Year	_____	
Wet Year	_____	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input type="checkbox"/> Fall	<input type="checkbox"/> Spring
<input type="checkbox"/> Winter		
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	<u>1-2 acres</u>
Treatment wetland area (acres)	<u>1-2 acres</u>
Riparian habitat area (acres)	<u>3-5 acres</u>
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	<u>N/A</u>
Multiple Sport Athletics Acres	<u>N/A</u>
Other Recreation Acres	<u>N/A</u>
Pedestrian Trail Acres	<u>.5 MILE</u>
Equestrian Trail Acres	<u>N/A</u>
Other Passive Activity	<u>Demonstration Garden Amphitheater 3 acres</u>
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	<u>12 acres</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 1,600,000 Million

Upper estimated total capital cost (\$): 1,850,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$): 00

Annual Operation and Maintenance  
Cost (\$): 25,000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: \_\_\_\_\_

Design Life of Project (years): \_\_\_\_\_

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? yes

### Identify proposed funding sources:

- Proposition 50 Grant
- 
- 
- 

What percent matching funding will be provided? (at least 10% is required): 15%

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**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

<b>Location Description:</b>	Upstream of Decoro Drive North Bank
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Los Angeles County Flood Control District	900 South Fremont Ave. Alhambra, Ca 91803	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 one 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 one 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 river where basins for recharge will be excavated. An earthen diversion will wash out during major storms and it 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
•
•

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>	
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

<p>Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b>:</p> <p>Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.</p>	
<p>Describe how the project's contribution toward meeting the <b>Increase Water Supply</b> objective could be measured:</p> <p>Storage tables and streamflow gages will determine the flow in the river and the quantity held in the spreading grounds. Flow past the spreading grounds will be subtracted to obtain the total water recharged.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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 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) _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:</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.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:</p> <p>A record of the amount of trash removed will be kept.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	<p>Quantify: Additional water recharged would also serve to blend any groundwater that may have contaminants.</p>
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	<p>Quantify:</p>
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	<p>Quantify: Trash from the surrounding watershed which washes into the river will be removed at the spreading grounds.</p>

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>:</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>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:</p> <p>The acres of habitat restoration or acres of non-native plant removal.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> </ol> </li> </ul>	<p>Quantify:</p> <p>The quantity would depend on the final area impacted by the project.</p>

5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify: Adjacent river properties would include habitat restoration.
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify: A portion of the 47 acres of the project is in the 100-year floodplain.

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>In process</u>	<u>06/15/2009</u> (mm/dd/yyyy)
Land Acquisition/Easements	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>In process</u>	<u>09/15/2009</u> (mm/dd/yyyy)
Construction	<u>Not initiated</u>	_____ (mm/dd/yyyy)

<b>Drawings</b>		
<b>Funding</b>	_____	_____ (mm/dd/yyyy)

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

Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**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.**

**Please describe the dominant existing land use type for the proposed project location.**

**Flood control**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Flood control

Downstream: Flood control

**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?**

<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input checked="" type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Soil Aquifer Treatment (SAT).</u>
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input checked="" type="checkbox"/> Other (describe): <u>Heavy metal, trash</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>191</u>
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information			
<b>Source of Increased Supply or Demand Reduction</b>			
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage	
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: <u>water supply enhancement</u>			
Annual Yield of Supply (acre-feet): <u>570 acre-feet</u>			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	<u>570</u>		
Dry Year	<u>220</u>		
Wet Year	<u>1100</u>		
<b>Availability by Season (check all that apply):</b>			
<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	<u>Sandy alluvial, Riverwash</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>10</u>
Non-developed open space area (acres)	<u>35</u>
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	<u>2</u>
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	<u>47</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 3000000.00

Upper estimated total capital cost (\$): 6000000.00

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

Annual Operation and Maintenance  
Cost (\$): 25000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes, flood assessment

Design Life of Project (years): 50

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- **Various Grants**
- **Los Angeles County**
- 
- 

What percent matching funding will be provided? (at least 10% is required): **50%**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Yes. It would increase local supplies. Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**Name:**

Ken Zimmer

**Title:**

Senior Civil Engineer

**Telephone:**

626-458-6188

**Fax:**

(626) 979-5436

**Email:**

kzimmer@dpw.lacounty.gov

**Website:**

NA

**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:** 34°22'41.20"N

**Project Longitude:** 118°31'10.45"W

<b>Location Description:</b>	Near Confluence of Newhall Creek and Santa Clara River South Fork
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Los Angeles County Flood Control District	900 South Fremont Ave. Alhambra, Ca 91803	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 one 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 one 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 In-River Newhall Creek 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. The berms would be washed out during high flows and would need to be reestablished. Trash would be detained in and then removed from the outer basins.

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

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

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

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

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>	
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

<p>Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b>:</p> <p>Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.</p>	
<p>Describe how the project's contribution toward meeting the <b>Increase Water Supply</b> objective could be measured:</p> <p>Storage tables and streamflow gages will determine the flow in the river and the quantity held in the spreading grounds. Flow past the spreading grounds will be subtracted to obtain the total water recharged.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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 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) _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:</p> <p>Trash will be collected in and removed from the outer basins.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:</p> <p>A record of the amount of trash removed will be kept.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	<p>Quantify: Additional water recharged would also serve to blend any groundwater that may have contaminants.</p>
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	<p>Quantify:</p>
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	<p>Quantify: Trash from the surrounding watershed that washes into the river will be removed from the basins.</p>

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>:</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>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:</p> <p>The acres of habitat restoration or acres of non-native plant removal.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> </ol> </li> </ul>	<p>Quantify:</p> <p>The quantity would depend on the final area impacted by the project.</p>

5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify: Adjacent river properties would include habitat restoration.
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify: The project consists of 5 acres which are partially in the 100-year floodplain.

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>In process</u>	<u>06/15/2008</u> (mm/dd/yyyy)
Land Acquisition/Easements	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>In process</u>	<u>09/15/2008</u> (mm/dd/yyyy)
Construction	<u>Not initiated</u>	_____ (mm/dd/yyyy)

<b>Drawings</b>		
<b>Funding</b>	_____	_____ (mm/dd/yyyy)

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

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**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.**

**Please describe the dominant existing land use type for the proposed project location.**

**Flood control**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Flood control

Downstream: Flood control

**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

<b>Does the project include disadvantaged community participation?</b>		
<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input checked="" type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria	
<input checked="" type="checkbox"/> Other (describe): <u>Heavy metal, trash</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>25</u>
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information		
<b>Source of Increased Supply or Demand Reduction</b>		
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: <u>water supply enhancement</u>		
Annual Yield of Supply (acre-feet): <u>75 acre-feet</u>		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	<u>75</u>	
Dry Year	<u>35</u>	
Wet Year	<u>140</u>	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring
		<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	<u>Sandy alluvial, Riverwash</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>1</u>
Non-developed open space area (acres)	<u>4</u>
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	<u>5</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 2000000.00

Upper estimated total capital cost (\$): 5000000.00

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

\_\_\_\_\_

Annual Operation and Maintenance  
Cost (\$): 25000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes, flood assessment

Design Life of Project (years): 50

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- **Various Grants**
- **Los Angeles County**
- 
- 

**What percent matching funding will be provided? (at least 10% is required): 50%**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Yes. It would increase local supplies. Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**Name:**

Ken Zimmer

**Title:**

Senior Civil Engineer

**Telephone:**

626-458-6188

**Fax:**

(626) 979-5436

**Email:**

kzimmer@dpw.lacounty.gov

**Website:**

NA

**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

<b>Location Description:</b>	Near Confluence of Placerita Creek and Santa Clara River South Fork
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Los Angeles County Flood Control District	900 South Fremont Ave. Alhambra, Ca 91803	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 one 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 one 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 Off-River Placerita Creek Spreading Grounds Project would consist of building a recharge facility and a diversion structure. Storm flows from the creek and from the South Fork of the Santa Clara River would be diverted into 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
•
•

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>	
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

<p>Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b>:</p> <p>Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.</p>	
<p>Describe how the project's contribution toward meeting the <b>Increase Water Supply</b> objective could be measured:</p> <p>Storage tables and streamflow gages will determine the flow in the river and the quantity held in the spreading grounds. Flow past the spreading grounds will be subtracted to obtain the total water recharged.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>	
<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 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) _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:</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>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:</p> <p>A record of the amount of trash removed will be kept.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	<p>Quantify: Additional water recharged would also serve to blend any groundwater that may have contaminants.</p>
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	<p>Quantify:</p>
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	<p>Quantify: Trash from the surrounding watershed that washes into the river will be removed at intake of the spreading grounds.</p>

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>:</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>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:</p> <p>The acres of habitat restoration or acres of maintained non-native plant removal.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> </ol> </li> </ul>	<p>Quantify:</p> <p>The quantity would depend on the final area impacted by the project.</p>

5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify: Adjacent river properties would include habitat restoration.
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify: The project consists of 17 acres which are partially within the 100-year floodplain.

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>In process</u>	<u>06/15/2009</u> (mm/dd/yyyy)
Land Acquisition/ Easements	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>In process</u>	<u>09/15/2009</u> (mm/dd/yyyy)
Construction	<u>Not initiated</u>	_____ (mm/dd/yyyy)

<b>Drawings</b>		
<b>Funding</b>	_____	_____ (mm/dd/yyyy)

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

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**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.**

**Please describe the dominant existing land use type for the proposed project location.**

**Flood control**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Flood control

Downstream: Flood control

**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?**

<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input checked="" type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Soil Aquifer Treatment (SAT).</u>
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input checked="" type="checkbox"/> Other (describe): <u>Heavy metal, trash</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>75</u>
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information			
<b>Source of Increased Supply or Demand Reduction</b>			
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage	
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: <u>water supply enhancement</u>			
Annual Yield of Supply (acre-feet): <u>220 acre-feet</u>			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	<u>220</u>		
Dry Year	<u>100</u>		
Wet Year	<u>450</u>		
<b>Availability by Season (check all that apply):</b>			
<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	<u>Sandy alluvial, Riverwash</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>3</u>
Non-developed open space area (acres)	<u>14</u>
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	<u>17</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 3000000.00

Upper estimated total capital cost (\$): 7000000.00

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

\_\_\_\_\_

Annual Operation and Maintenance  
Cost (\$): 25000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes, flood assessment

Design Life of Project (years): 50

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- **Various Grants**
- **Los Angeles County**
- 
- 

**What percent matching funding will be provided? (at least 10% is required): 50%**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Yes. It would increase local supplies. Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**Name:**

Ken Zimmer

**Title:**

Senior Civil Engineer

**Telephone:**

626-458-6188

**Fax:**

(626) 979-5436

**Email:**

kzimmer@dpw.lacounty.gov

**Website:**

NA

**Project Name:**

Santa Clara In-River Spreading Grounds 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°25'24.80"N

**Project Longitude:** 118°30'33.83"W

<b>Location Description:</b>	Upstream and Downstream of Conveyor Belt. Approx. Between Cacklebur Lane and Soledad Street.
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Los Angeles County Flood Control District	900 South Fremont Ave. Alhambra, Ca 91803	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 one 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 one 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 recharge basins would be constructed on the outer edges of the river and earthen levees would be constructed to direct flows to the basins from the center of the river. Storm flows would meander through the river section allowing more time for percolation. Higher flows would wash out the diversion, and it would be reconstructed post storm. The project consists of 61 acres providing 183 acre-feet of storage and water conservation benefit of 550 acre-feet. There are opportunities for habitat restoration in the surrounding areas. Trash would typically be detained in the outer basins and removed post storm.

**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
--

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•
•

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>	
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**:

Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured:

Storage tables and streamflow gages will determine the flow in the river and the quantity held in the spreading grounds. Flow past the spreading grounds will be subtracted to obtain the total water recharged.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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 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) _____

Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b> :	
Trash will be collected and removed before entering the spreading grounds.	
Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:	
A record of the amount of trash removed will be kept.	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify: Additional water recharged would also serve to blend any groundwater that may have contaminants.
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify: Trash from the surrounding urban watershed which washes into the river will be removed at intake of the spreading grounds.

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>:</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>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:</p> <p>The acres of habitat restoration or acres of maintained non-native plant removal.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> </ol> </li> </ul>	<p>Quantify:</p> <p>The quantity would depend on the final area impacted by the project.</p>

5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify: Adjacent river properties could include habitat restoration.
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify: The project consists of 61 acres which are mostly in the 100-year flood plain.

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>In process</u>	<u>06/15/2009</u> (mm/dd/yyyy)
Land Acquisition/Easements	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>In process</u>	<u>09/15/2009</u> (mm/dd/yyyy)
Construction	<u>Not initiated</u>	_____ (mm/dd/yyyy)

<b>Drawings</b>		
<b>Funding</b>	_____	_____ (mm/dd/yyyy)

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

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**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 outer basins. Habitat restoration or removal of invasive plant species will be evaluated and performed as necessary.**

**Please describe the dominant existing land use type for the proposed project location.**

**Flood control**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Flood control

Downstream: Flood control

**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?**

<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input checked="" type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Soil Aquifer Treatment (SAT).</u>
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input checked="" type="checkbox"/> Other (describe): <u>Heavy metal, trash</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>183</u>
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information			
<b>Source of Increased Supply or Demand Reduction</b>			
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage	
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: <u>water supply enhancement</u>			
Annual Yield of Supply (acre-feet): <u>550 acre-feet</u>			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	<u>550</u>		
Dry Year	<u>280</u>		
Wet Year	<u>1100</u>		
<b>Availability by Season (check all that apply):</b>			
<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	<u>Sandy alluvial, Riverwash</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>5</u>
Non-developed open space area (acres)	<u>56</u>
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	<u>61</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 4000000.00

Upper estimated total capital cost (\$): 7000000.00

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

Annual Operation and Maintenance  
Cost (\$): 25000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes, flood assessment

Design Life of Project (years): 50

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- **Various Grants**
- **Los Angeles County**
- 
- 

**What percent matching funding will be provided? (at least 10% is required): 50%**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Yes. It would increase local supplies. Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**Name:**

Ken Zimmer

**Title:**

Senior Civil Engineer

**Telephone:**

626-458-6188

**Fax:**

(626) 979-5436

**Email:**

kzimmer@dpw.lacounty.gov

**Website:**

NA

**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

<b>Location Description:</b>	Upstream of Lang Station Road
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Los Angeles County Flood Control District	900 South Fremont Ave. Alhambra, Ca 91803	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 one 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 one 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 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
•
•



**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>	
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**:

Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured:

Storage tables and streamflow gages will determine the flow in the river and the quantity held in the spreading grounds. Flow past the spreading grounds will be subtracted to obtain the total water recharged.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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 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) _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:</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>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:</p> <p>A record of the amount of trash removed will be kept.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	<p>Quantify: Additional water recharged would also serve to blend any groundwater that may have contaminants.</p>
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	<p>Quantify:</p>
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	<p>Quantify: Trash from the surrounding urban watershed which washes into the river will be removed at the outer basins.</p>

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>:</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>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:</p> <p>The acres of habitat restoration or acres of non-native plant removal.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to</li> </ol> </li> </ul>	<p>Quantify:</p> <p>The quantity would depend on the final area impacted by the project.</p>

Bouquet Canyon, 98 acres, 202 acres tamarisk 5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify: Adjacent river properties would include habitat restoration.
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify: The project consists of 18 acres. Most of it is in 100-year floodplain.

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>In process</u>	<u>06/15/2009</u> (mm/dd/yyyy)
Land Acquisition/Easements	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>In process</u>	<u>09/15/2009</u> (mm/dd/yyyy)

<b>Construction Drawings</b>	<u>Not initiated</u>	_____	(mm/dd/yyyy)
<b>Funding</b>	_____	_____	(mm/dd/yyyy)

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

#### Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**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.**

**Please describe the dominant existing land use type for the proposed project location.**

**Flood control**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Flood control

Downstream: Flood control

**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

<b>Does the project include disadvantaged community participation?</b>		
<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input checked="" type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Soil Aquifer Treatment (SAT).</u>
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input checked="" type="checkbox"/> Other (describe): <u>Heavy metal, trash</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>75</u>
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information		
<b>Source of Increased Supply or Demand Reduction</b>		
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: <u>water supply enhancement</u>		
Annual Yield of Supply (acre-feet): <u>225 acre-feet</u>		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	<u>225</u>	
Dry Year	<u>100</u>	
Wet Year	<u>500</u>	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring
		<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	<u>Sandy alluvial, Riverwash</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>5</u>
Non-developed open space area (acres)	<u>13</u>
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	<u>18</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 2000000.00

Upper estimated total capital cost (\$): 5000000.00

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

\_\_\_\_\_

Annual Operation and Maintenance  
Cost (\$): 25000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes, flood assessment

Design Life of Project (years): 50

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- **Various Grants**
- **Los Angeles County**
- 
- 

**What percent matching funding will be provided? (at least 10% is required): 50%**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Yes. It would increase local supplies. Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**Name:**

Ken Zimmer

**Title:**

Senior Civil Engineer

**Telephone:**

626-458-6188

**Fax:**

(626) 979-5436

**Email:**

kzimmer@dpw.lacounty.gov

**Website:**

NA

**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

<b>Location Description:</b>	Upstream of Whites Canyon Road Crossing on Santa Clara River.
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Los Angeles County Flood Control District	900 South Fremont Ave. Alhambra, Ca 91803	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 one 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 one 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. The spreading grounds would have a total area of 53 acres and a storage capacity of 223 acre-feet. 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
•
•



**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

<p>Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b>:</p> <p>Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.</p>	
<p>Describe how the project's contribution toward meeting the <b>Increase Water Supply</b> objective could be measured:</p> <p>Storage tables and streamflow gages will determine the flow to the spreading grounds and the quantity held in the spreading grounds.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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 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) _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:</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.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:</p> <p>A record of the amount of trash will be kept.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	<p>Quantify: Additional water recharged would also serve to blend any groundwater that may have contaminants.</p>
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	<p>Quantify:</p>
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	<p>Quantify: Trash from the surrounding watershed which washes into the river will be removed at the spreading grounds.</p>

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>:</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>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:</p> <p>The acres of habitat restoration or acres of non-native plant removal.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> </ol> </li> </ul>	<p>Quantify:</p> <p>The quantity would depend on the final area impacted by the project.</p>

5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify: Adjacent river properties would include habitat restoration.
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify: A portion of the 53 acres of the project is in the 100-year floodplain.

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>In process</u>	<u>06/15/2009</u> (mm/dd/yyyy)
Land Acquisition/Easements	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>In process</u>	<u>09/15/2009</u> (mm/dd/yyyy)
Construction	<u>Not initiated</u>	_____ (mm/dd/yyyy)

<b>Drawings</b>		
<b>Funding</b>	_____	_____ (mm/dd/yyyy)

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

#### Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**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.**

**Please describe the dominant existing land use type for the proposed project location.**

**Flood control**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Flood control

Downstream: Flood control

**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?**

<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input checked="" type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Soil Aquifer Treatment (SAT).</u>
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input checked="" type="checkbox"/> Other (describe): <u>Heavy metal, trash</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>223</u>
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information		
<b>Source of Increased Supply or Demand Reduction</b>		
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: <u>water supply enhancement</u>		
Annual Yield of Supply (acre-feet): <u>670 acre-feet</u>		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	<u>670</u>	
Dry Year	<u>300</u>	
Wet Year	<u>1200</u>	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring
		<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	<u>Sandy alluvial, Riverwash</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	<u>670</u>
Estimated basin annual outflow (acre-feet/year)	<u>0</u>

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>10</u>
Non-developed open space area (acres)	<u>41</u>
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	<u>2</u>
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	<u>53</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 4000000.00

Upper estimated total capital cost (\$): 7000000.00

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

\_\_\_\_\_

Annual Operation and Maintenance  
Cost (\$): 25000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes, flood assessment

Design Life of Project (years): 50

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- **Various Grants**
- **Los Angeles County**
- 
- 

**What percent matching funding will be provided? (at least 10% is required): 50%**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Yes. It would increase local supplies. Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**Name:**

Ken Zimmer

**Title:**

Senior Civil Engineer

**Telephone:**

626-458-6188

**Fax:**

(626) 979-5436

**Email:**

kzimmer@dpw.lacounty.gov

**Website:**

NA

**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

<b>Location Description:</b>	Santa Clara River, Bouquet Canyon Road Bridge
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Los Angeles County Flood Control District	900 South Fremont Ave. Alhambra, Ca 91803	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 one 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.**

**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 one 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. 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
•
•

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**:

Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured:

Storage tables and streamflow gages will determine the flow in the river and the quantity stored behind the rubber dam. Flow past the rubber dam will be subtracted to obtain the total water recharged.

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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 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) _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:</p> <p>Trash will be collected and removed at the rubber dam.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:</p> <p>A record of the amount of trash removed will be kept.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	<p>Quantify: Additional water recharged would also serve to blend any groundwater that may have contaminants.</p>
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	<p>Quantify:</p>
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	<p>Quantify: Trash from the surrounding watershed which washes into the river will be removed at the rubber dam.</p>

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>:</p> <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>	
<p>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:</p> <p>The acres of habitat restoration or acres of non-native plant removal.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.               <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> </ol> </li> </ul>	<p>Quantify:</p> <p>The quantity would depend on the final area impacted by the project.</p>

5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify: Adjacent river properties would include habitat restoration.
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify: Several acres of the project are in the 100-year floodplain.

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>In process</u>	<u>06/15/2008</u> (mm/dd/yyyy)
Land Acquisition/Easements	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>In process</u>	<u>09/15/2008</u> (mm/dd/yyyy)
Construction	<u>Not initiated</u>	_____ (mm/dd/yyyy)

<b>Drawings</b>		
<b>Funding</b>	_____	_____ (mm/dd/yyyy)

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

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**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.**

**Please describe the dominant existing land use type for the proposed project location.**

**Flood control**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Flood control

Downstream: Flood control

**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?**

<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input checked="" type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria	
<input checked="" type="checkbox"/> Other (describe): <u>Heavy metal, trash</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>78</u>
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

Enhanced Water Supply or Demand Reduction Benefit Information		
<b>Source of Increased Supply or Demand Reduction</b>		
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: <u>water supply enhancement</u>		
Annual Yield of Supply (acre-feet): <u>230 acre-feet</u>		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	<u>230</u>	
Dry Year	<u>100</u>	
Wet Year	<u>600</u>	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring
		<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	<u>Sandy alluvial, Riverwash</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>6</u>
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	<u>0.1</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 5000000.00

Upper estimated total capital cost (\$): 7000000.00

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

\_\_\_\_\_

Annual Operation and Maintenance  
Cost (\$): 25000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes, flood assessment

Design Life of Project (years): 50

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- **Various Grants**
- **Los Angeles County**
- 
- 

**What percent matching funding will be provided? (at least 10% is required): 50%**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Yes. It would increase local supplies. Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**Name:**

Ken Zimmer

**Title:**

Senior Civil Engineer

**Telephone:**

626-458-6188

**Fax:**

(626) 979-5436

**Email:**

kzimmer@dpw.lacounty.gov

**Website:**

NA

**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

<b>Location Description:</b>	Santa Clara River Between 14 FWY and Sand Canyon Road
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Los Angeles County Flood Control District	900 South Fremont Ave. Alhambra, Ca 91803	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 one 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 one 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
•
•

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>	
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

<p>Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b>:</p> <p>Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.</p>	
<p>Describe how the project's contribution toward meeting the <b>Increase Water Supply</b> objective could be measured:</p> <p>Storage tables and streamflow gages will determine the flow in the river and the quantity held in the spreading grounds. Flow past the spreading grounds will be subtracted to obtain the total water recharged.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>	
<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 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) _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:</p> <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>	
<p>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:</p> <p>A record of the amount of trash removed will be kept.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	<p>Quantify: Additional water recharged would also serve to blend any groundwater that may have contaminants.</p>
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	<p>Quantify:</p>
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	<p>Quantify: Trash from the surrounding urban watershed which washes into the river will be removed at the spreading grounds.</p>

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>:</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>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:</p> <p>The acres of habitat restoration or acres of maintained non-native plant removal.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to</li> </ol> </li> </ul>	<p>Quantify:</p> <p>The quantity would depend on the final area impacted by the project.</p>

Bouquet Canyon, 98 acres, 202 acres tamarisk 5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify: Adjacent river properties would include habitat restoration.
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify: A portion of the 86 acres is within the 100-year floodplain.

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>In process</u>	<u>06/15/2009</u> (mm/dd/yyyy)
Land Acquisition/Easements	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>In process</u>	<u>09/15/2009</u> (mm/dd/yyyy)

<b>Construction Drawings</b>	<u>Not initiated</u>	_____	(mm/dd/yyyy)
<b>Funding</b>	_____	_____	(mm/dd/yyyy)

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

#### Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**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.**

**Please describe the dominant existing land use type for the proposed project location.**

**Flood control**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Flood control

Downstream: Flood control

**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

<b>Does the project include disadvantaged community participation?</b>		
<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input checked="" type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Soil Aquifer Treatment (SAT).</u>
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input checked="" type="checkbox"/> Other (describe): <u>Heavy metal, trash</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>348</u>
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

Enhanced Water Supply or Demand Reduction Benefit Information		
<b>Source of Increased Supply or Demand Reduction</b>		
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: <u>water supply enhancement</u>		
Annual Yield of Supply (acre-feet): <u>1040 acre-feet</u>		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	<u>1040</u>	
Dry Year	<u>450</u>	
Wet Year	<u>2000</u>	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring
		<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	<u>Sandy alluvial, Riverwash</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>10</u>
Non-developed open space area (acres)	<u>74</u>
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	<u>2</u>
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	<u>86</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 7000000.00

Upper estimated total capital cost (\$): 10000000.00

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

\_\_\_\_\_

Annual Operation and Maintenance  
Cost (\$): 25000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes, flood assessment

Design Life of Project (years): 50

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- **Various Grants**
- **Los Angeles County**
- 
- 

**What percent matching funding will be provided? (at least 10% is required): 50%**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Yes. It would increase local supplies. Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**Name:**

Ken Zimmer

**Title:**

Senior Civil Engineer

**Telephone:**

626-458-6188

**Fax:**

(626) 979-5436

**Email:**

kzimmer@dpw.lacounty.gov

**Website:**

NA

**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

<b>Location Description:</b>	Santa Clara River South Fork, Newhall Avenue Bridge
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Los Angeles County Flood Control District	900 South Fremont Ave. Alhambra, Ca 91803	Ken Zimmer
Integrated Regional Water Management Plan		

**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 one 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 or in the spreading grounds 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 one 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,. 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 to the 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:**

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

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

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

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**:

Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured:

Storage tables and streamflow gages will determine the flow in the river and the quantity stored behind the rubber dam and in the spreading grounds. Flow past the rubber dam will be subtracted to obtain the total water recharged.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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 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) _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:</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>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:</p> <p>A record of the amount of trash removed will be kept.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	<p>Quantify: Additional water recharged would also serve to blend any groundwater that may have contaminants.</p>
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	<p>Quantify:</p>
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	<p>Quantify: Trash from the surrounding watershed which washes into the river will be removed at the spreading basins.</p>

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>: 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>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:                      The acres of habitat restoration or acres of maintained non-native plant removal.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> </ol> </li> </ul>	<p>Quantify: The quantity would depend on the final area impacted by the project.</p>

5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify: Adjacent river properties could include habitat restoration.
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify: The area of the spreading basins could be preserved as open space.

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>In process</u>	<u>06/15/2008</u> (mm/dd/yyyy)
Land Acquisition/Easements	<u>not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>In Process</u>	<u>09/15/2008</u> (mm/dd/yyyy)
Construction	<u>not initiated</u>	_____ (mm/dd/yyyy)

<b>Drawings</b>		
<b>Funding</b>	<u>not initiated</u>	_____ (mm/dd/yyyy)

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

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**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.**

**Please describe the dominant existing land use type for the proposed project location.**

**Flood control**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Flood control

Downstream: Flood control

**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

<b>Does the project include disadvantaged community participation?</b>		
<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input checked="" type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Soil Aquifer Treatment (SAT).</u>
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input checked="" type="checkbox"/> Other (describe): <u>Heavy metal, trash</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>109 ac-ft</u>
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	<u>14 acres</u>

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>		
<b>Source of Increased Supply or Demand Reduction</b>		
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: <u>water supply enhancement</u>		
Annual Yield of Supply (acre-feet): <u>330 acre-feet</u>		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	<u>330</u>	
Dry Year	<u>105</u>	
Wet Year	<u>700</u>	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring
		<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	<u>Sandy alluvial, Riverwash</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>4</u>
Non-developed open space area (acres)	<u>8</u>
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	<u>Bike paths</u>
Other Recreation Acres	_____
Pedestrian Trail Acres	<u>3</u>
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	<u>15</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 5000000.00

Upper estimated total capital cost (\$): 9000000.00

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

\_\_\_\_\_

Annual Operation and Maintenance  
Cost (\$): 50000.00

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes, flood assessment

Design Life of Project (years): 50

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- **Various Grants**
- **Los Angeles County**
- 
- 

**What percent matching funding will be provided? (at least 10% is required): 50%**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Yes. It would increase local supplies. Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**Name:**

Ken Zimmer

**Title:**

Senior Civil Engineer

**Telephone:**

626-458-6188

**Fax:**

(626) 979-5436

**Email:**

kzimmer@dpw.lacounty.gov

**Website:**

NA

**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

<b>Location Description:</b>	South Santa Clara River South Fork, Near Covala Drive
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Los Angeles County Flood Control District	900 South Fremont Ave. Alhambra, Ca 91803	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 one 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 one 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 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
•

•
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**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>	
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**:

Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.

Describe how the project’s contribution toward meeting the **Increase Water Supply** objective could be measured:

Storage tables and streamflow gages will determine the flow in the river and the quantity stored behind the rubber dam. Flow past the rubber dam will be subtracted to obtain the total water recharged.

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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 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) _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:</p> <p>Trash will be collected and removed at the rubber dam.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:</p> <p>A record of the amount of trash removed will be kept.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	<p>Quantify: Additional water recharged would also serve to blend any groundwater that may have contaminants.</p>
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	<p>Quantify:</p>
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	<p>Quantify: Trash from the surrounding urban watershed that washes into the river will be removed at the rubber dam.</p>

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>:</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>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:</p> <p>The acres of habitat restoration or acres of non-native plant removal.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> </ol> </li> </ul>	<p>Quantify:</p> <p>The quantity would depend on the final area impacted by the project.</p>

5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify: Adjacent river properties would include habitat restoration.
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>In process</u>	<u>06/15/2008</u> (mm/dd/yyyy)
Land Acquisition/Easements	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>In process</u>	<u>09/15/2008</u> (mm/dd/yyyy)
Construction	<u>Not initiated</u>	_____ (mm/dd/yyyy)

<b>Drawings</b>		
<b>Funding</b>	_____	_____ (mm/dd/yyyy)

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

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**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.**

**Please describe the dominant existing land use type for the proposed project location.**

**Flood control**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Flood control

Downstream: Flood control

**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

<b>Does the project include disadvantaged community participation?</b>		
<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input checked="" type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria	
<input checked="" type="checkbox"/> Other (describe): <u>Heavy metal, trash</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>112</u>
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information		
<b>Source of Increased Supply or Demand Reduction</b>		
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: <u>water supply enhancement</u>		
Annual Yield of Supply (acre-feet): <u>330 acre-feet</u>		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	<u>330</u>	
Dry Year	<u>110</u>	
Wet Year	<u>700</u>	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring
		<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	<u>Sandy alluvial, Riverwash</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>36</u>
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	<u>Bike paths</u>
Other Recreation Acres	_____
Pedestrian Trail Acres	<u>1.5</u>
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	<u>0.01</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 5000000.00

Upper estimated total capital cost (\$): 7000000.00

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

\_\_\_\_\_

Annual Operation and Maintenance  
Cost (\$): 25000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes, flood assessment

Design Life of Project (years): 50

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- **Various Grants**
- **Los Angeles County**
- 
- 

**What percent matching funding will be provided? (at least 10% is required): 50%**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Yes. It would increase local supplies. Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**Name:**

Ken Zimmer

**Title:**

Senior Civil Engineer

**Telephone:**

626-458-6188

**Fax:**

(626) 979-5436

**Email:**

kzimmer@dpw.lacounty.gov

**Website:**

NA

**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

<b>Location Description:</b>	Santa Clara River South Fork, Continuation of Pueblo Drive.
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Los Angeles County Flood Control District	900 South Fremont Ave. Alhambra, Ca 91803	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 one 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 one 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 install an air-inflatable rubber dam, utilizing the location of an existing drop structure. 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.

**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
•
•



**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

<p>Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b>:</p> <p>Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.</p>	
<p>Describe how the project's contribution toward meeting the <b>Increase Water Supply</b> objective could be measured:</p> <p>Storage tables and streamflow gages will determine the flow in the river and the quantity stored behind the rubber dam. Flow past the rubber dam will be subtracted to obtain the total water recharged.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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 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) _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:</p> <p>Trash will be collected and removed at the rubber dam.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:</p> <p>A record of the amount of trash removed will be kept.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	<p>Quantify: Additional water recharged would also serve to blend any groundwater that may have contaminants.</p>
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	<p>Quantify:</p>
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	<p>Quantify: Trash from the surrounding urban watershed that washes into the river will be removed at the rubber dam.</p>

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>:</p> <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>	
<p>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:</p> <p>The acres of habitat restoration or acres of maintained non-native plant removal.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> </ol> </li> </ul>	<p>Quantify:</p> <p>The quantity would depend on the final area impacted by the project.</p>

5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify: Adjacent river properties would include habitat restoration.
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>In process</u>	<u>06/15/2008</u> (mm/dd/yyyy)
Land Acquisition/Easements	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>In process</u>	<u>09/15/2008</u> (mm/dd/yyyy)
Construction	<u>Not initiated</u>	_____ (mm/dd/yyyy)

<b>Drawings</b>		
<b>Funding</b>	_____	_____ (mm/dd/yyyy)

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

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**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.**

**Please describe the dominant existing land use type for the proposed project location.**

**Flood control**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Flood control

Downstream: Flood control

**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

<b>Does the project include disadvantaged community participation?</b>		
<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input checked="" type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria	
<input checked="" type="checkbox"/> Other (describe): <u>Heavy metal, trash</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>60</u>
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>		
<b>Source of Increased Supply or Demand Reduction</b>		
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: <u>water supply enhancement</u>		
Annual Yield of Supply (acre-feet): <u>330 acre-feet</u>		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	<u>180</u>	
Dry Year	<u>65</u>	
Wet Year	<u>450</u>	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring
		<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	<u>Sandy alluvial, Riverwash</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>14</u>
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	<u>Bike paths</u>
Other Recreation Acres	_____
Pedestrian Trail Acres	<u>1.5</u>
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	<u>0.01</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 5000000.00

Upper estimated total capital cost (\$): 7000000.00

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

\_\_\_\_\_

Annual Operation and Maintenance  
Cost (\$): 25000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes, flood assessment

Design Life of Project (years): 50

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- **Various Grants**
- **Los Angeles County**
- 
- 

**What percent matching funding will be provided? (at least 10% is required): 50%**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Yes. It would increase local supplies. Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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 S. Fremont Ave. Alhambra, CA 91803

**Name:**

John Bodenchak

**Title:**

Civil Engineering Assistant

**Telephone:**

626-458-4370

**Fax:**

**Email:**

jbodenchak@ladpw.org

**Website:**

scrwaterplan.org

**Project Name:**

Acquisition of Land in the Flood Plain of the Upper Santa Clara River

**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:

<b>Location Description:</b>	Throughout the floodplain of the upper Santa Clara River
------------------------------	--

**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
The Nature Conservancy		Sandi Matsumoto

**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 one 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.**

**Floodplain acquisition alleviates many of the issues associated with urban development in the watershed, including an increase in the amount of impervious surface and corresponding increase in surface runoff, resulting in a loss of recharge capacity and a deterioration in water quality. Floodway encroachment and habitat destruction are additional issues caused by development in the floodplain. Finally, development in the floodplain requires the construction of additional flood control structures within the floodplain, exacerbating the negative watershed affects of the development itself.**

**As more of the floodplain is developed, these conditions will only worsen. Strategic floodplain acquisition and active conservation efforts can help minimize the impact caused by future development by preserving and restoring the most sensitive areas of the watershed.**

### 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 one 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 LACFCD, in partnership with a conservancy group, would acquire land in the floodplain of the Santa Clara River from willing sellers. The acquired lands would be returned to a natural, predeveloped state. Key locations such as linkages or areas of significant habitat could be identified and prioritized. LACFCD would coordinate with other conservation groups to identify possible areas of cooperation and maximize the impact of conservation efforts.

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

<ul style="list-style-type: none"><li>• Santa Clara River</li></ul>
<ul style="list-style-type: none"><li>• Santa Clara River Valley East Groundwater Subbasin</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>

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

<ul style="list-style-type: none"><li>• Santa Clara River Enhancement and Management Plan</li></ul>
<ul style="list-style-type: none"><li>• South Coast Missing Linkages Project</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<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 checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**: Land acquisition along the floodplain will preserve the natural recharge capacity of the river. By conserving the land, the recharge capacity and the resulting groundwater supply is secured permanently.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured: The recharge capacity of each site could be determined and compared against the potential recharge capacity of the site in a developed state. The difference represents the amount of water that would normally be lost to runoff but instead is infiltrated to the groundwater due to the increase in pervious area.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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 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 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) _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:                      Floodplain acquisition preserves the natural ability of the watershed to infiltrate and filter pollutants from runoff.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured: A per acre water quality improvement value could be determined later.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

<b>Promote Resource Stewardship</b>			
<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	Floodplain Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Land Use Management
<input checked="" 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): _____

Describe how the project contributes toward meeting the objective **Promote Resource Stewardship**: The acquired land is being restored to its natural condition, improving recharge ability and natural habitat, mitigating flood dangers, and providing opportunities for water dependent recreation. Invasive plants would be removed from the acquired land.

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Describe how the project's contribution toward meeting the **Promote Resource Stewardship** objective could be measured: Resources stewardship could be measured by acres acquired, acres of riparian habitat restored, or amount of invasive species removal.

---

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> </ol> </li> </ul>	Quantify:
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5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify: Opportunities for overlap may exist
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify: Primary objective of project.

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>in process</u>	_____ (mm/dd/yyyy)
Land Acquisition/ Easements	<u>not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<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	<u>NA</u>	_____ (mm/dd/yyyy)

<b>Drawings</b>		
<b>Funding</b>	<u>not initiated</u>	_____ (mm/dd/yyyy)

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

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

The project helps to safeguard our future water supply by improving the existing recharge capacity of the floodplain. It also preserves the inherent ability of the natural, unaltered riverbed to filter pollutants and slow down runoff to increase percolation, thereby enhancing water quality.

Acquisition of parcels in the floodplain eliminates the possibility of flood damage occurring to developments in these areas as well as the need to design and build flood control improvements to protect these properties.

Finally, this project preserves and protects natural habitat which is increasingly threatened by rapid urban development in the watershed, while also providing open space for recreation.

**Please describe the dominant existing land use type for the proposed project location.**

Land use along the Santa Clara River is primarily rural but also includes agriculture and areas of denser residential and commercial development.

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream:

Downstream:

**Does the project address any known environmental justice issues?**

Yes                       No                       Not Sure

---

<b>Is the project located within or adjacent to a disadvantaged community?</b>		
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Sure

<b>Does the project include disadvantaged community participation?</b>		
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Sure
<b>If yes, please identify the group or organization:</b> _____		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	_____
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input type="checkbox"/> Other (describe): _____	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

Enhanced Water Supply or Demand Reduction Benefit Information		
<b>Source of Increased Supply or Demand Reduction</b>		
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: _____		
Annual Yield of Supply (acre-feet): _____		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	_____	
Dry Year	_____	
Wet Year	_____	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input type="checkbox"/> Fall	<input type="checkbox"/> Spring
<input type="checkbox"/> Winter		
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): \_\_\_\_\_

Does your organization have a mechanism or  
other means to cover O&M for the life of project?  
Please describe: \_\_\_\_\_

Design Life of Project (years): \_\_\_\_\_

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost?

### Identify proposed funding sources:

- Los Angeles County
- CA Wildlife Conservation Board
- Various grants
- 

What percent matching funding will be provided? (at least 10% is required): at least 10%

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Yes, it will increase groundwater supplies. Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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 Department of Public Works

**Agency / Organization / Individual Address:**

900 S. Fremont Avenue, Alhambra CA 91803

**Name:**

Bruce Hamamoto

**Title:**

Senior Civil Engineer

**Telephone:**

626 458-5918

**Fax:**

**Email:**

Bhamamo@dpw.lacounty.gov

**Website:**

ladpw.org

**Project Name:**

Acton Master Drainage Plan

**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:

<b>Location Description:</b>	
------------------------------	--

**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number

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

New, Conceptual

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 one 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.**

**Recent history shows that additional drainage infrastructure will be required to support the steady growth of the Acton community and that proper planning of flood protection for Acton. Historically, major storm events have caused significant problems for the area. The main roads such as Red Rover Mine and Escondido Canyon Road have suffered shoulder erosion. Significant flooding and sediment deposition on Crown Valley Road make downtown and local elementary school inaccessible.**

**The number one reason flooding occurs is because the community is impacted by natural watercourses and hillside erosion with no adequate system to accommodate the debris volume and flows safely. The natural alignment of the watershed and its flow paths caused moderate damage. When high intensity storms occur, flows are produced with sufficient magnitude to damage public facilities primarily roads and culverts. Although drainage facilities have been built by developers in the Acton area, these facilities are not designed to handle the Capital Flood storm event.**

### 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 one 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.\***

Phase development flood control facilities to mitigate flooding in the Acton Community. The proposed improvements include a combination of four debris basins, five multiuse retention facilities, a proposed reinforced concrete box at downtown Acton, and low impact water quality enhancement Flood Control facilities. If the infrastructure becomes too cost prohibitive or environmentally unfavorable, new alternative of low impact water quality enhancement Flood Control structures. These facilities would allow percolation, have a natural look of grass and rip-rap, and hold back most of the silt from the upstream areas of Acton. These alternatives and combinations are being considered each with its own strengths and disadvantages. Public Works would refine the feasibility of each scenario when the project development concept is prepared. Each solution weighs heavily on how to retain and/or store surface runoff and deliver flows to the Santa Clara River with the least amount of environmental disruption.

**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:**

•
•
•

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>	
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Improve Operational Efficiency**: The current preferred method of flood protection is through Flood Plain Management. This project concept will supplement Flood Plain Management and will add additional flood protection to the Acton community.

Describe how the project's contribution toward meeting the **Improve Operational Efficiency** could be measured:

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>	
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b> :	
Describe how the project’s contribution toward meeting the <b>Increase Water Supply</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>	
<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	Urban Runoff Management
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State) _____

Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b> :	
Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

<b>Promote Resource Stewardship</b>			
<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 checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Floodplain 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	Urban Land Use Management
<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): _____

Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b> :	
Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> <li>5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk</li> </ol> </li> </ul>	Quantify:

<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>in process</u>	_____ (mm/dd/yyyy)
Land Acquisition/ Easements	_____	_____ (mm/dd/yyyy)
Preliminary Plans	_____	_____ (mm/dd/yyyy)
CEQA/NEPA	_____	_____ (mm/dd/yyyy)
Permits	_____	_____ (mm/dd/yyyy)
Construction Drawings	_____	_____ (mm/dd/yyyy)
Funding	_____	_____ (mm/dd/yyyy)

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

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Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

<p>The Acton Drainage Master Plan will alleviate flooding and problems associated with flooding in the Acton community. Structural solution such as detention/retention basins are currently considered, however, before project implementation, impact to the ecosystem will be assessed and the appropriate mitigation plans and alternative plans will be taken.</p>
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**Please describe the dominant existing land use type for the proposed project location.**

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**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream:
Downstream:

**Does the project address any known environmental justice issues?**

<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Sure
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**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
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**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 provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	_____
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input type="checkbox"/> Other (describe): _____	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>2.4-200</u>
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	<u>High (Flood Protection for a Delta Q storm event)</u>
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>		
<b>Source of Increased Supply or Demand Reduction</b>		
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: _____		
Annual Yield of Supply (acre-feet): _____		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	_____	
Dry Year	_____	
Wet Year	_____	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input type="checkbox"/> Fall	<input type="checkbox"/> Spring
		<input type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	<u>17K-34K</u>
Detention Basin area (acres)	<u>200</u>
Detention basin max. operational depth (ft.)	<u>10</u>
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 10M

Upper estimated total capital cost (\$): 50M

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

\_\_\_\_\_

Annual Operation and Maintenance  
Cost (\$): \_\_\_\_\_

Does your organization have a mechanism or  
other means to cover O&M for the life of project?  
Please describe: \_\_\_\_\_

Design Life of Project (years): \_\_\_\_\_

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost?

### Identify proposed funding sources:

- 
- 
- 
- 

**What percent matching funding will be provided? (at least 10% is required):**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input type="checkbox"/> Yes
	<input checked="" type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**Name:**

Ken Zimmer

**Title:**

Senior Civil Engineer

**Telephone:**

626-458-6188

**Fax:**

(626) 979-5436

**Email:**

kzimmer@dpw.lacounty.gov

**Website:**

NA

**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:** 34°25'7.53"N

**Project Longitude:** 118°32'54.69"W

<b>Location Description:</b>	South Santa Clara River South Fork, Valencia Blvd. Bridge.
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Los Angeles County Flood Control District	900 South Fremont Ave. Alhambra, Ca 91803	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 one 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 one 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. 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:**

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

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

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

•
---

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>	
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

<p>Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b>:</p> <p>Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.</p>	
<p>Describe how the project's contribution toward meeting the <b>Increase Water Supply</b> objective could be measured:</p> <p>Storage tables and streamflow gages will determine the flow in the river and the quantity stored behind the rubber dam. Flow past the rubber dam will be subtracted to obtain the total water recharged.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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 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) _____

Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b> :	
Trash will be collected and removed at the rubber dam.	
Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:	
A record of the amount of trash removed will be kept.	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify: Additional water recharged would also serve to blend any groundwater that may have contaminants.
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify: Trash from the surrounding watershed which washes into the river will be removed at the rubber dam.

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>:</p> <p>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.</p>	
<p>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:</p> <p>The acres of habitat restoration or acres of non-native plant removal.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> </ol> </li> </ul>	<p>Quantify:</p> <p>The quantity would depend on the final area impacted by the project.</p>

5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify: Adjacent river properties would include habitat restoration.
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>In process</u>	<u>06/15/2008</u> (mm/dd/yyyy)
Land Acquisition/Easements	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>In process</u>	<u>09/15/2008</u> (mm/dd/yyyy)
Construction	<u>Not initiated</u>	_____ (mm/dd/yyyy)

<b>Drawings</b>		
<b>Funding</b>	_____	_____ (mm/dd/yyyy)

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

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**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.**

**Please describe the dominant existing land use type for the proposed project location.**

**Flood control**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Flood control

Downstream: Flood control

**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

<b>Does the project include disadvantaged community participation?</b>		
<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input checked="" type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	_____
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria	
<input checked="" type="checkbox"/> Other (describe): <u>Heavy metal, trash</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>115</u>
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

Enhanced Water Supply or Demand Reduction Benefit Information		
<b>Source of Increased Supply or Demand Reduction</b>		
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: <u>water supply enhancement</u>		
Annual Yield of Supply (acre-feet): <u>330 acre-feet</u>		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	<u>340</u>	
Dry Year	<u>105</u>	
Wet Year	<u>700</u>	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring
		<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	<u>Sandy alluvial, Riverwash</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>25</u>
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	<u>Bike paths</u>
Other Recreation Acres	_____
Pedestrian Trail Acres	<u>1</u>
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	<u>0.1</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 5000000.00

Upper estimated total capital cost (\$): 7000000.00

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

Annual Operation and Maintenance  
Cost (\$): 25000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes, flood assessment

Design Life of Project (years): 50

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- **Various Grants**
- **Los Angeles County**
- 
- 

**What percent matching funding will be provided? (at least 10% is required): 50%**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Yes. It would increase local supplies. Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**Name:**

Ken Zimmer

**Title:**

Senior Civil Engineer

**Telephone:**

626-458-6188

**Fax:**

(626) 979-5436

**Email:**

kzimmer@dpw.lacounty.gov

**Website:**

NA

**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

<b>Location Description:</b>	Upstream of Copper Hill Drive
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Los Angeles County Flood Control District	900 South Fremont Ave. Alhambra, Ca 91803	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 one 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 one 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 the 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:**

• 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
•
•

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>	
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

<p>Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b>:</p> <p>Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.</p>	
<p>Describe how the project's contribution toward meeting the <b>Increase Water Supply</b> objective could be measured:</p> <p>Storage tables and streamflow gages will determine the flow in the river and the quantity held in the spreading grounds. Flow past the spreading grounds will be subtracted to obtain the total water recharged.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>	
<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 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) _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:</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>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:</p> <p>A record of the amount of trash will be kept.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	<p>Quantify: Additional water recharged will also serve to blend any groundwater that may have contaminants.</p>
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	<p>Quantify:</p>
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	<p>Quantify: Trash from the surrounding watershed that washes into the river will be removed from the spreading basins.</p>

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

<p>Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b>:                  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>Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:                  The acres of habitat restored or acres of non-native plants removed.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> </ol> </li> </ul>	<p>Quantify:</p> <p>The quantity would depend on the final area impacted by the project.</p>

5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify: Adjacent river properties would include habitat restoration.
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify: The project consists of 54 acres which mostly are in the 100-year floodplain.

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>In process</u>	<u>06/15/2009</u> (mm/dd/yyyy)
Land Acquisition/Easements	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>Not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>Not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>In process</u>	<u>09/15/2009</u> (mm/dd/yyyy)
Construction	<u>Not initiated</u>	_____ (mm/dd/yyyy)

<b>Drawings</b>		
<b>Funding</b>	_____	_____ (mm/dd/yyyy)

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

Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**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.**

**Please describe the dominant existing land use type for the proposed project location.**

**Flood control**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Flood control

Downstream: Flood control

**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?**

<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input checked="" type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Soil Aquifer Treatment (SAT).</u>
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input checked="" type="checkbox"/> Other (describe): <u>Heavy metal, trash</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>232</u>
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

Enhanced Water Supply or Demand Reduction Benefit Information		
<b>Source of Increased Supply or Demand Reduction</b>		
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: <u>water supply enhancement</u>		
Annual Yield of Supply (acre-feet): <u>700 acre-feet</u>		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	<u>700</u>	
Dry Year	<u>300</u>	
Wet Year	<u>1500</u>	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring
		<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	<u>Sandy alluvial, Riverwash</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>10</u>
Non-developed open space area (acres)	<u>43</u>
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	<u>1</u>
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	<u>54</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 3000000.00

Upper estimated total capital cost (\$): 6000000.00

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

Annual Operation and Maintenance  
Cost (\$): 25000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes, flood assessment

Design Life of Project (years): 50

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes

### Identify proposed funding sources:

- **Various Grants**
- **Los Angeles County**
- 
- 

**What percent matching funding will be provided? (at least 10% is required): 50%**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Yes. It would increase local supplies. Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**Name:**

Steve Cole

**Title:**

General Manager

**Telephone:**

(661) 259-3610

**Fax:**

(661) 259-9673

**Email:**

scole@ncwd.org

**Website:**

ncwd.org

**Project Name:**

Wellhead Treatment for NC-10

**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:** 34.39

**Project Longitude:** 118.53

<b>Location Description:</b>	The proposed treatment plant site is adequate for a typical treatment train (about 250 feet by 200 feet) and is located on San Fernando Road. The site is located within a mixed industrial/residential use area.
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number

**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 one 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.**

**With an ever growing need for safe, potable water, at a reasonable cost every water resource is valuable. This project would treat the naturally occurring manganese in NCWD's well 10 in Newhall. Treating the water would provide approximately 870 acre feet per year to Santa Clarita Valley residents in the Newhall area. In addition, the project will reduce SWP demand and enhance the groundwater supply and reliability.**

### 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 one 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 provide treatment to remove naturally occurring manganese and iron from the groundwater. Treatment would bring the manganese and iron levels below the secondary MCL of 50 parts per billion and 300 parts per billion respectively. In February of 2005 an iron and manganese removal feasibility study was completed for Newhall Well No. 10 by Carollo Engineers. The study found that there were treatment options that could bring Iron levels below 100ppb and manganese levels below 20 ppb.

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

• Saugus Aquifer
•
•
•

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

• Newhall County Water District's Capital Improvement Plan
• Iron and Manganese Removal Feasibility Study, Feb. 2005 Carollo Engineers
•



**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify: By reducing SWP demand and associated pumping costs by approximately 870 acre-feet per year.

<b>Increase Water Supply</b>			
<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 checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**:  
 The project would help reduce the dependence on the State Water Project, whose pumping limits could be cut and result in decreased water supply.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured: Treatment of Well 10 could increase water availability of NCWD's customers in Santa Clarita's area of Newhall. The increase of approximately 870afy could be measured by a decrease of metered demand from CLWA's N-1 turnout. CLWA is a member of the SWP and provides water to water purveyors in the Santa Clarita Valley.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify: approximately 870afy could be made available for NCWD area of Newhall.
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>	
<input checked="" 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 checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary <input 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	Urban Runoff Management
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State) _____

Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b> : The water quality could be improved by reducing the regulated iron and manganese levels below the Secondary MCL.	
Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured: The objective could be measured in the level of iron and manganese removed by filtration/treatment methods.	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify: Manganese levels brought down to below secondary MCL of 50 ppb. Iron levels brought down to below secondary MCL of 300 ppb.
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b> :	
Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> <li>5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk</li> </ol> </li> </ul>	Quantify:

<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

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	_____
Proposed Construction/Implementation Start Date:	<u>2010</u>
Proposed Construction/Implementation Completion Date	<u>n/a</u>
Ready for Construction Bid	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>Complete</u>	<u>02/2005</u> (mm/dd/yyyy)
Land Acquisition/Easements	<u>Complete</u>	_____ (mm/dd/yyyy)
Preliminary Plans	_____	_____ (mm/dd/yyyy)
CEQA/NEPA	_____	_____ (mm/dd/yyyy)
Permits	_____	_____ (mm/dd/yyyy)
Construction Drawings	_____	_____ (mm/dd/yyyy)
Funding	_____	_____ (mm/dd/yyyy)

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

--

Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

<p>The treatment of iron and manganese at NC-10 would benefit the residents of Santa Clarita by providing a safe, reliable, water source at a reasonable cost. By treating the water at the well site, manganese and iron concentrations will be brought below the Secondary MCL for drinking water standards, and in turn provide approximately 870 afy to the consumers of the Newhall area. This additional water supply allows NCWD to rely less on The State Water Project for a water source.</p>
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**Please describe the dominant existing land use type for the proposed project location.**

Water operations for potable drinking water well.
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**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: mixed industrial/residential
Downstream: mixed industrial/residential

**Does the project address any known environmental justice issues?**

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure
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**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
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**Does the project include disadvantaged community participation?**

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure
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**If yes, please identify the group or organization: \_\_\_\_\_**

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Oxidation and Greensand/Anthracite Filter</u>
Design operational treatment capacity (million gallons/day)	<u>.9 MGD</u>
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input checked="" type="checkbox"/> Other (describe): <u>Iron and Manganese</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information			
<b>Source of Increased Supply or Demand Reduction</b>			
<input type="checkbox"/> Groundwater	<input checked="" type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage	
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: <u>SWP demand reduction</u>			
Annual Yield of Supply (acre-feet): <u>870</u>			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	<u>870AF</u>		
Dry Year	<u>870AF</u>		
Wet Year	<u>870AF</u>		
<b>Availability by Season (check all that apply):</b>			
<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): \$826,000

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

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

Annual Operation and Maintenance  
Cost (\$): \$32.5/AF

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Customer Rates

Design Life of Project (years): 25 years

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? Yes, the Iron and Manganese Removal Feasibility Study, February 2005, by Carollo Engineers provides a recommended treatment methodology and associated costs.

### Identify proposed funding sources:

- Newhall County Water District
- 
- 
- 

What percent matching funding will be provided? (at least 10% is required): 30%

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	2005 Urban Water Management Plan for the Santa Clarita Valley.
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**Name:**

Steve Cole

**Title:**

General Manager

**Telephone:**

(661) 259-3610

**Fax:**

(661) 259-9673

**Email:**

scole@ncwd.org

**Website:**

not available

**Project Name:**

Removal of the Sewer trunk line from the Santa Clara River bed.

**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:** 34.41

**Project Longitude:** 118.43

<b>Location Description:</b>	Parts of the Pinetree sewer trunk line are located in the Santa Clara River bed. The project will remove the sewer from the stream bed and relocate it into the public right-of-way and out of the flow of the stream bed. The relocation of the sewer would prevent the discharge of untreated sewerage directly into the Santa Clara River as a result of storm damage.
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
LACDPW		
City of Santa Clarita		

**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 one 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.**

**NCWD currently maintains a portion of sewer trunk line in the Canyon Country area of Santa Clarita. Part of this sewer line runs in the Santa Clara river bed. When rainfall amounts are extremely large, the Santa Clara River swells and impacts the area occupied by the trunk line. The River periodically erods the dirt around the sewer line and can cause a line break. A line break would cause an unauthorized release of raw sewage in the the Santa Clara River.**

### 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 one 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 main objective of this sewer realignment project is to relocate the remaining portion of the 2-S Trunk Sewer out of the Santa Clara River by routing sewage across the Santa Clara River underneath the Sand Canyon Bridge into a Los Angeles County sewer and relocating a portion of the existing trunk sewer into the paved section of the Lost Canyon Road. The proposed sewer abandonment includes 4881 linear feet of 15-, 18-, 21-, and 24-inch sewer pipe.

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

• Santa Clara River
• alluvial aquifer
•
•

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

• Study for the relocation of the 2-S Trunk Sewer in Santa Clara River by Brockmeier Engineers
• Offsite Sewer Area Study by RBF Consulting for Pardee Homes
•



**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>	
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b> :	
Describe how the project's contribution toward meeting the <b>Increase Water Supply</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Describe how the project contributes toward meeting the objective **Improve Water Quality**:  
 The project would prevent the potential pollution of the Santa Clara River Bed and the underlying alluvial aquifer. The alluvial aquifer has groundwater wells that serve the Santa Clarita communities in the Canyon Country area.

Describe how the project's contribution toward meeting the **Improve Water Quality** objective could be measured:  
 The project would contribute toward meeting the Improved Water Quality objective by preventing raw sewage from discharging to the Santa Clara River. It is difficult to measure the impacts of removing this potential risk.

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

<b>Promote Resource Stewardship</b>			
<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 checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Floodplain 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	Urban Land Use Management
<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): _____

Describe how the project contributes toward meeting the objective **Promote Resource Stewardship**: This project promotes resource stewardship by protecting recharge areas and managing the floodplain. It also addresses watershed management issues that could arise in the event of a main break.

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Describe how the project's contribution toward meeting the **Promote Resource Stewardship** objective could be measured: It is difficult to quantify the impacts of removing a risk potential.

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Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> <li>5. Santa Clara River-Bouquet Canyon to</li> </ol> </li> </ul>	Quantify:          N/A
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Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

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	_____
Proposed Construction/Implementation Start Date:	<u>2009</u>
Proposed Construction/Implementation Completion Date	<u>2010</u>
Ready for Construction Bid	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>Complete</u>	<u>08/30/2007</u> (mm/dd/yyyy)
Land Acquisition/ Easements	_____	_____ (mm/dd/yyyy)
Preliminary Plans	_____	_____ (mm/dd/yyyy)
CEQA/NEPA	_____	_____ (mm/dd/yyyy)
Permits	_____	_____ (mm/dd/yyyy)
Construction Drawings	_____	_____ (mm/dd/yyyy)

<b>Funding</b>	_____	(mm/dd/yyyy)
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**For projects that do not include construction, please briefly describe the project readiness-to proceed.**

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

The project will address numerous issues involved with possible contamination of the Santa Clara River Bed. One benefit is implementation of the RWQCB Watershed Initiative Chapters, plans and policies. Another benefit is significantly reducing the possibility of pollution in sensitive habitat areas, including areas of special biological significance. Lastly floodplain management benefits will be met with the completion of the project by removing the potential risk of a possible unauthorized release of raw sewage into the Santa Clara River from a main line leak.

**Please describe the dominant existing land use type for the proposed project location.**

Public right of way

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Public right of way / commercial / residential
Downstream: Public right of way / commercial / residential

**Does the project address any known environmental justice issues?**

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure
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**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
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**Does the project include disadvantaged community participation?**

<input type="checkbox"/> <b>Yes</b>	<input checked="" type="checkbox"/> <b>No</b>	<input type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Prevention by relocation</u>
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input checked="" type="checkbox"/> Nitrogen Compounds <input checked="" type="checkbox"/> Coliform Bacteria <input checked="" type="checkbox"/> Other (describe): <u>Raw Sewage</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>		
<b>Source of Increased Supply or Demand Reduction</b>		
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: _____		
Annual Yield of Supply (acre-feet): _____		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	_____	
Dry Year	_____	
Wet Year	_____	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input type="checkbox"/> Fall	<input type="checkbox"/> Spring
		<input type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): \$1,743,101.00

Upper estimated total capital cost (\$): \$2,500,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):  
\$250,000.00

Annual Operation and Maintenance  
Cost (\$): \$20,000/year

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Customer Rates

Design Life of Project (years): 50 years

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? The Relocation Study of the 2-S Trunk Sewer completed by Brockmeier Engineers identifies specific work items and provides cost estimates for construction.

<b>Identify proposed funding sources:</b>
• <b>Newhall County Water District</b>
•
•
•

<b>What percent matching funding will be provided? (at least 10% is required):</b> <b>30%</b>
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Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	2005 Urban Water Management Plan for the Santa Clarita Valley
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

Part 1. Lead Implementing Agency/Organizational Information

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

**Implementing Agency/ Organization / Individual:**

Watershed Conservation Authority

**Agency / Organization / Individual Address:**

Watershed Conservation Authority

**Name:**

Frank Simpson

**Title:**

Project Manager

**Telephone:**

626 458-4315

**Fax:**

626 979-5363

**Email:**

fsimpson@rmc.ca.gov

**Website:**

www.rmc.ca.gov

**Project Name:**

Acquisition of river channel and riparian parcels in the upper Santa Clara River watershed

**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:** 34.43637

**Project Longitude:** -118.26944

<b>Location Description:</b>	the Santa Clara River and a number of tributaries are located in the upper watershed.
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Watershed Conservation Authority		626 458-4334

**Project Status (e.g., new, ongoing, expansion, 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 one 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.**

**Acquisition of parcels in the flood plain and tributaries is important for the following reasons:**

- preservation of recharge capacity**
- preservation of habitat values**
- protection from flooding**
- protection from pollution**
- Water based recreation**

**Progressive urban development in the upper Santa Clara River watershed threatens the integrity and function of the flood plain. Habitat values and corridors are being critically threatened and action is needed to protect them from further threats. By acquiring the riparian and flood plain parcels, they can remain undeveloped and therefore continue to provide watershed benefits in perpetuity.**

### 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 one 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.\***

Acquired parcels will be held by a conservancy or land trust. Management of the parcels will be consistent with watershed function, habitat preservation and public recreation.

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

- |   |
|---|
| <ul style="list-style-type: none"><li>• Santa Clara River and tributaries</li></ul> |
| <ul style="list-style-type: none"><li>•</li></ul>                                   |
| <ul style="list-style-type: none"><li>•</li></ul>                                   |
| <ul style="list-style-type: none"><li>•</li></ul>                                   |

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

- |  |
|--|
| <ul style="list-style-type: none"><li>• One Valley One Vision</li></ul>  |
| <ul style="list-style-type: none"><li>• the Nature Conservancy Santa Clara River Upper Watershed Conservation Plan</li></ul> |
| <ul style="list-style-type: none"><li>•</li></ul>  |

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> : N/A	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>	
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**:  
 By protecting the flood channel and tributaries from alteration and/or development, the project preserves the natural recharge capacity of the watershed.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured:TBD

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:TBD
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<input 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 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) _____

Describe how the project contributes toward meeting the objective **Improve Water Quality**: riparian habitat provides an natural filtration of run-off before it reaches the groundwater basin. It slows the movement of run off, thereby facilitation slow percolation thought the riparian root systems

Describe how the project's contribution toward meeting the **Improve Water Quality** objective could be measured: TBD

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

<b>Promote Resource Stewardship</b>			
<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	Floodplain Management
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Land Use Management
<input checked="" 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): _____

Describe how the project contributes toward meeting the objective **Promote Resource Stewardship**: The Santa Clara River and tributaries contain mostly undisturbed natural habitat that both houses and provides movement corridors for a wide variety of terrestrial and aquatic species. Preservation of this this habitat by means of acquisition for conservation is the best way to provide stewardship.

Describe how the project's contribution toward meeting the **Promote Resource Stewardship** objective could be measured: Can be measured by acres of habitat or vegetation type preserved.

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres</li> </ol> </li> </ul>	Quantify:
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tamarisk 5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

<b>Is the proposed project an element or phase of a regional or larger program?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If yes, please identify the program</b>	<u>South Coast Wildlands Habitat Linkages</u>
<b>Proposed Construction/Implementation Start Date:</b>	<u>TBD</u>
<b>Proposed Construction/Implementation Completion Date</b>	_____
<b>Ready for Construction Bid</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>Complete</u>	_____ (mm/dd/yyyy)
Land Acquisition/ Easements	<u>on going/not complete</u>	_____ (mm/dd/yyyy)
Preliminary Plans	_____	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>TBD</u>	_____ (mm/dd/yyyy)
Permits	<u>TBD</u>	_____ (mm/dd/yyyy)

<b>Construction Drawings</b>	<u>N/A</u>	_____	(mm/dd/yyyy)
<b>Funding</b>	_____	_____	(mm/dd/yyyy)

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

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**Acquisition of parcels in the flood plain and tributaries is important for the following reasons:**  
**preservation of recharge capacity**  
**preservation of habitat values**  
**protection from flooding**  
**protection from pollution**  
**Water based recreation**  
**By acquiring the riparian and flood plain parcels, they can remain undeveloped and therefore continue to provide watershed benefits in perpetuity.**

**Please describe the dominant existing land use type for the proposed project location.**

**Mixed but mostly low density rural**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: rural

Downstream: dense residential and commercial, agricultural, marine

**Does the project address any known environmental justice issues?**

**Yes**                       **No**                       **Not Sure**

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<b>Is the project located within or adjacent to a disadvantaged community?</b>		
<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input type="checkbox"/> <b>Not Sure</b>

<b>Does the project include disadvantaged community participation?</b>		
<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>	<input type="checkbox"/> <b>Not Sure</b>
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	_____
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input type="checkbox"/> Other (describe): _____	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>		
<b>Source of Increased Supply or Demand Reduction</b>		
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: _____		
Annual Yield of Supply (acre-feet): <u>TBD</u>		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	_____	
Dry Year	_____	
Wet Year	_____	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input type="checkbox"/> Fall	<input type="checkbox"/> Spring
<input type="checkbox"/> Winter		
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>3% of the upr watershed</u>
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): \$5K/Acre

Upper estimated total capital cost (\$): \$10K/Acre

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

\_\_\_\_\_

Annual Operation and Maintenance  
Cost (\$): TBD

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: \_\_\_\_\_

Design Life of Project (years): \_\_\_\_\_

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost?

### Identify proposed funding sources:

- Wildlife Conservation Board
- Rivers and Mountains Conservancy
- California Resources Agency
- 

What percent matching funding will be provided? (at least 10% is required): min 10%

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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), Newhall County Water District (NCWD), Santa Clarita Water Division (SCWD), and City of Santa Clarita

**Agency / Organization / Individual Address:**

1955 Workman Mill Road, Whittier, CA 90601

**Name:**

Francisco Guerrero

**Title:**

Senior Engineer

**Telephone:**

(562) 699-7411 x2832

**Fax:**

(562) 908-4293

**Email:**

FGuerrero@LACSD.org

**Website:**

<http://www.lacsd.org>

**Project Name:**

East Santa Clara River Wetlands and Recycled Water 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°25'52"

**Project Longitude:** 118°22'51"

<b>Location Description:</b>	Reach 7 portion of Santa Clara River (bound by the Lang gauging station and the Bouquet Canyon Road Bridge)
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Santa Clarita Valley Sanitation District	1955 Workman Mill Road, Whittier CA 90601	Francisco Guerrero (562) 699-7411 x 2832

City of Santa Clarita	### STREET CITY, STATE, ZIP	NAME NUMBER
Santa Clarita Water Division	22722 Soledad Canyon Road Santa Clarita, CA 91380-9003	Cathy Hollomon (661) 259-2737
Newhall County Water District	23780 N. Pine Street Santa Clarita, CA 91321	Stephen L. Cole (661) 259-3610

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

ongoing (began conceptual plans in 2002)

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 one 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.**

**This project will consider construction of a recycled water transmission line for the following purposes: (1) to provide recycled water to the eastern portion of the Santa Clarita Valley (served by the Santa Clarita Water Division of CLWA and Newhall County Water District); (2) to reduce imported water demand; (3) to enhance groundwater supply and reliability; (4) to restore/develop wetland habitats and recreational opportunities through discharge of recycled water to the eastern Santa Clara River; and (5) to achieve compliance with the Upper Santa Clara River Chloride TMDL.**

**A recycled water transmission line to the eastern Santa Clarita Valley is necessary for the implementation of the Valley's Recycled Water Master Plan, and will increase water supply reliability by beneficially reusing water. The discharge of the recycled water to the eastern Santa Clara River will also restore and create wetland habitat as well as create potential recreational opportunities. Finally, the discharge of recycled water in the eastern Santa Clara River will reduce the impact that the Valencia WRP effluent has on downstream agricultural beneficial uses and help this facility achieve compliance to the Upper Santa Clara River Chloride TMDL.**

**Without this project, the full implementation of the Valley's recycled water master plan would be impeded as recycled water uses in the Newhall County Water District and Santa Clarita Water Division of CLWA service areas would be limited. Furthermore, opportunities to practice resource stewardship through wetland habitat restoration and creation would be lost.**



### 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 one 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 East Santa Clara River Wetlands and Recycled Water Project is a multi-phase project. Phase I of the project is a feasibility study to investigate potential impacts that the discharge of recycled water in the eastern Santa Clara River would have on surface water and groundwater quality, as well as the creation/development of wetland and riparian habitat. The feasibility study would also identify potential recreational opportunities afforded in the development of bicycle paths and walking trails as the result of the use and discharge of recycled water in the eastern Santa Clara River area. A set of recommended project(s) would be developed for Phase II implementation.

Phase II of the project would involve: (1) the design and construction of a recycled water transmission trunk line to convey recycled water to the Newhall County Water District and Santa Clara Water Division service areas and to discharge recycled water to eastern Santa Clara River; and (2) the construction of wetlands using recycled water which will also provide recreational opportunities (e.g., regional walking trails, cycling paths and green belts).

Phase II of the project would be implemented after completion of the Phase I studies, assuming that a recommended set of project(s) are identified as feasible.

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

<ul style="list-style-type: none"><li>• Surface Water: Santa Clara River</li></ul>
<ul style="list-style-type: none"><li>• Groundwater Basin: Eastern Basin (Alluvial Aquifer)</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>

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

<ul style="list-style-type: none"><li>• Santa Clara River, City of Santa Clarita Environmental Restoration Feasibility Study Project Management Plan (2003)</li></ul>
<ul style="list-style-type: none"><li>• Castaic Lake Water Agency, Recycled Water Master Plan</li></ul>
<ul style="list-style-type: none"><li>• Castaic Lake Water Agency, Urban Water Management Plan</li></ul>

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): <u>Reduce Potable Water Demand</u>

<p>Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b>:</p> <p>Project supports increased use of recycled water resulting in a reduction in potable water demand.</p>	
<p>Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:</p> <p>Increased recycled water usage is equivalent to reduced potable water demand and, where applicable, services will be metered.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>	
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<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 checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____

<p>Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b>:                      Construction of a recycled water transmission line would facilitate the implementation of recycled water projects in the eastern Santa Clara River area. The amount of recycled water used in this area would be identified during Phase I of the project. Reliance on imported State Water Project water would be reduced through increased use of recycled water. The project would enhance groundwater supply through discharge and infiltration of recycled water in eastern Santa Clara River area that would normally be discharged further downstream into Ventura County.</p>	
<p>Describe how the project's contribution toward meeting the <b>Increase Water Supply</b> objective could be measured:                      Measuring recycled water discharged to the river or used for recycled water projects.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify: Amount of recycled water used would be identified in Phase I
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:



<b>Improve Water Quality</b>	
<input 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 checked="" 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	Urban Runoff Management
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Other (Please State) <u>Reduce the impact that recycled water has on Ventura County agricultural water supplies</u>

Describe how the project contributes toward meeting the objective **Improve Water Quality**:  
 The project may reduce the impact of recycled water currently discharged further downstream on agricultural water supplies in Ventura County and may be a potential compliance option for the Upper Santa Clara River TMDL.

Additionally, through increased used of recycled water in lieu of potable water for permitted uses, this project meets the objective by matching quality of water to use.

Describe how the project's contribution toward meeting the **Improve Water Quality** objective could be measured:  
 Impacts to water quality and compliance with Upper Santa Clara River Chloride TMDL will be determined through modeling.

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify: The project would reduce impact of chloride from Valencia WRP to Ventura County agricultural water supply and potentially help comply with Upper Santa Clara River Chloride TMDL.



<b>Promote Resource Stewardship</b>			
<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	Floodplain 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 type="checkbox"/> NA	Urban Land Use Management
<input checked="" 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): _____

Describe how the project contributes toward meeting the objective **Promote Resource Stewardship**:

This project will provide increased recreational opportunities, as well as enhanced and restored wetlands and added habitat to the eastern Santa Clara River area.

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Describe how the project's contribution toward meeting the **Promote Resource Stewardship** objective could be measured:

Identify acreage of increased habitat and constructed recreational facilities.

---

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to</li> </ol> </li> </ul>	Quantify:
---	-----------

Bouquet Canyon, 98 acres, 202 acres tamarisk 5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify: Project would include development of recreational opportunities along the Santa Clara River. Actual acreage would be determined in Phase I of the project.
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

<b>Is the proposed project an element or phase of a regional or larger program?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If yes, please identify the program</b>	<u>2002 CLWA Draft Recycled Water Master Plan</u>
<b>Proposed Construction/Implementation Start Date:</b>	_____
<b>Proposed Construction/Implementation Completion Date</b>	_____
<b>Ready for Construction Bid</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>in process</u>	<u>2009</u> (mm/dd/yyyy)
Land Acquisition/ Easements	<u>not initiated</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>in process</u>	<u>2009</u> (mm/dd/yyyy)
CEQA/NEPA	<u>not initiated</u>	_____ (mm/dd/yyyy)

<b>Permits</b>	<u>not initiated</u>	_____	(mm/dd/yyyy)
<b>Construction Drawings</b>	<u>conceptual</u>	_____	(mm/dd/yyyy)
<b>Funding</b>	<u>not initiated</u>	<u>2009</u>	(mm/dd/yyyy)

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

#### Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

**Phases I and II of the East Santa Clara River Wetlands and Recycled Water Project have the potential to provide substantial benefits to the ecosystem of the Upper Santa Clara River Watershed as well as potential quantifiable benefits that reduce SWP demand through recycled water usage, and enhanced groundwater supply and reliability. Other benefits include increased recreational opportunities, as well as enhanced and restored wetlands and added habitat. The current dry, sparsely vegetated channel invert would be replaced with thicker, more diverse vegetation increasing wetland and riparian habitat for local species. Improved riparian habitat may provide more opportunities for the listed least Bell's vireo, southwestern willow flycatcher, and arroyo toad to thrive. Improved and expanded wetland habitat might also improve conditions for the California red-legged frog and the unarmored three-spine stickleback. Increased vegetation will provide shade to regulate water temperature and provide cover for other wildlife species to use the channel as habitat or as a habitat corridor. Finally, the discharge of recycled water to the eastern Santa Clara River reduces the discharges from the Valencia WRP and the impact that these discharges have on Ventura County water supplies, and may be a potential compliance option for the Upper Santa Clara River Chloride TMDL.**

**Please describe the dominant existing land use type for the proposed project location.**

**Urban and open space (East Santa Clara River)**

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**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Urban & Rural

Downstream: Urban and Agriculture

**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 provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	_____
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input checked="" type="checkbox"/> Chloride <input checked="" type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input type="checkbox"/> Other (describe): _____	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>			
<b>Source of Increased Supply or Demand Reduction</b>			
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage	
<input checked="" type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: <u>Increased recycle water use and groundwater enhancement</u>			
Annual Yield of Supply (acre-feet): <u>&gt; 1,000 afy</u>			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	<u>&gt; 1,000 afy</u>		
Dry Year	<u>&gt; 1,000 afy</u>		
Wet Year	<u>&gt; 1,000 afy</u>		
<b>Availability by Season (check all that apply):</b>			
<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	<u>to be determined in Phase I</u>
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>to be determined in Phase I</u>
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	<u>to be determined in Phase I</u>
Pedestrian Trail Acres	<u>to be determined in Phase I</u>
Equestrian Trail Acres	<u>to be determined in Phase I</u>
Other Passive Activity	<u>to be determined in Phase I</u>
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	<u>to be determined in Phase I</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): Phase I: \$300,000  
Phase II: \$10,000,000

Upper estimated total capital cost (\$): Phase I: \$600,000  
Phase II: \$20,000,000

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

Annual Operation and Maintenance  
Cost (\$): TBD in Phase I

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes

Design Life of Project (years): 20

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost?

Phase I: Yes

Phase II: To be determined in Phase I

### Identify proposed funding sources:

- **Santa Clarita Valley Sanitation District**
- **City of Santa Clarita**
- **Santa Clarita Water Division of CLWA**
- **Newhall County Water District**

What percent matching funding will be provided? (at least 10% is required):

>25%

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	2005 Santa Clarita Valley Urban Water Management Plan
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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 Road, Whittier CA 9060

**Name:**

Francisco Guerrero

**Title:**

Senior Engineer

**Telephone:**

562-699-7411 extension 2832

**Fax:**

562-908-4293

**Email:**

FGUERRERO@LACSD.ORG

**Website:**

<http://www.lacsd.org>

**Project Name:**

Valencia and Saugus Water Reclamation Plants - Ultraviolet Disinfection System Facilities

**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°25'47"

**Project Longitude:** 118°35'27"

<b>Location Description:</b>	Santa Clarita - Valencia Water Reclamation Plant Santa Clarita - Saugus Water Reclamation Plant
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Castaic Lake Water Agency	27234 Bouquet Canyon Rd Santa Clarita, CA 91350	Jeff Ford 661-513-1281

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

Upgrade to existing facilities

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 one 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 use of ultra-violet (UV) disinfection at the Saugus and Valencia WRP's will reduce chloride loading associated with the existing chloramination facilities at both WRPs and help the Saugus and Valencia WRPs achieve compliance to Total Maximum Daily Load (TMDL) for Chloride for the upper reaches of the Santa Clara River. In addition, the use of UV disinfection will reduce the potential for the formation of disinfection byproducts (Trihalomethanes and N-Nitrosodimethylamine) associated with chlorination. Utilization of UV disinfection technology will guarantee recycled water from these facilities meets all Department of Public Health (DPH) Title 22 Water Recycling Criteria.**

### 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 one 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 and Valencia Water Reclamation Plant UV Disinfection Facilities will reduce chloride loading from chloramination, preserve and expand the use of recycled water in the Upper Santa Clara River IRWMP Region, which is an important component of the Valley's water resources, and improve recycled water quality by reducing chloride levels and reducing the potential to generate disinfection by-products, such as trihalomethanes and NDMA. The project will demonstrate the sequential use of free chlorine/UV disinfection as an alternative disinfection method to the current disinfection method utilizing chloramination.

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

- |   |
|---|
| <ul style="list-style-type: none"><li>• surface water - Santa Clara River</li></ul> |
| <ul style="list-style-type: none"><li>• groundwater basin - Eastern</li></ul>       |
| <ul style="list-style-type: none"><li>•</li></ul>                                   |
| <ul style="list-style-type: none"><li>•</li></ul>                                   |

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

- |   |
|---|
| <ul style="list-style-type: none"><li>•</li></ul> |
|---|

Project Identification – Long Form  
Revised September 2007

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•

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>	
<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
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Other (Please State): <u>Reduction in Water Demand from Groundwater and Imported Water.</u>

Describe how the project contributes toward meeting the objective **Reduce Water Demand**: Utilization of UV disinfection technology will guarantee recycled water from these facilities meets all Department of Public Health (DPH) Title 22 Water Recycling Criteria, thereby preserving and expanding the use of recycled water in the Upper Santa Clara River IRWMP Region, which in turn reduce the Santa Clarita Valley's demand on groundwater and imported water resources.

Describe how the project's contribution toward meeting the **Reduce Water Demand** objective could be measured: Measurement of water demand can be measured by the amount of recycled water beneficially reused in lieu of groundwater and imported water resources.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:reduction of groundwater and imported water demand equivalent to increase in recycled water.
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input checked="" 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 checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**: Utilization of UV disinfection technology will guarantee recycled water from these facilities meets all Department of Public Health (DPH) Title 22 Water Recycling Criteria, thereby preserving and expanding the use of recycled water in the Upper Santa Clara River IRWMP Region, which in turn reduce the Santa Clarita Valley's reliance on imported water supplies.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured: Increase in recycled water use directly measures the Santa Clarita Valley's reduced reliance on imported water supplies.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify: Ensures WRP water meets DPH water recycling requirements.
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<input type="checkbox"/> Primary	<input 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 checked="" 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	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) _____

Describe how the project contributes toward meeting the objective **Improve Water Quality**:

Pollution Prevention: Compliance with USCR CI TMDL due to reduced chloride contribution from WRPs. Use of UV Disinfection will reduce the potential to form common disinfection by-products associated with the use of chloramination by converting to free chlorination and UV disinfection

Matching Quality to Use: Comply with DPH water recycling criteria to produce tertiary recycled water to replace use of potable water, where permitted.

Describe how the project's contribution toward meeting the **Improve Water Quality** objective could be measured:

Pollution Prevention: Reduce Chloride levels in SCVSD WRP recycled water from current disinfection methods compared to UV.

Matching Quality to Use: Amount of increased recycled water beneficially used replacing potable water demand.

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify: UV disinfection will reduce the amount of chloride contribution from Water

	Reclamation Plants and contribute to compliance with USCR CI TMDL.
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<b>Promote Resource Stewardship</b>			
<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	Floodplain 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 type="checkbox"/> NA	Urban Land Use Management
<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): _____

Describe how the project contributes toward meeting the objective **Promote Resource Stewardship**:  
 Recharge Area Protection by reducing chloride level in reclaimed water from SCVSD WRPs compared to current disinfection methods and helping to comply with Chloride TMDL thereby reducing impacts to groundwater & surface water and protecting beneficial uses (agriculture in Ventura County).

Describe how the project's contribution toward meeting the **Promote Resource Stewardship** objective could be measured:

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to</li> </ol> </li> </ul>	Quantify:
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Bouquet Canyon, 98 acres, 202 acres tamarisk 5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

<b>Is the proposed project an element or phase of a regional or larger program?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If yes, please identify the program</b>	<u>Facilities Planning for SCVSD WRPs</u>
<b>Proposed Construction/Implementation Start Date:</b>	<u>Estimated by 2010-2011</u>
<b>Proposed Construction/Implementation Completion Date</b>	<u>Estimated by 2012-2013</u>
<b>Ready for Construction Bid</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>not initiated</u>	_____ (mm/dd/yyyy)
Land Acquisition/ Easements	<u>N/A</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>not initiated</u>	_____ (mm/dd/yyyy)

<b>Construction Drawings</b>	<u>not initiated</u>	_____ (mm/dd/yyyy)
<b>Funding</b>	<u>not initiated</u>	_____ (mm/dd/yyyy)

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

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

- \* Achieving DHS Recycled Water Criteria for unrestricted Re-use
- \* Improving recycled water quality by reducing chloride levels from existing chloramination facilities
- \* Improving surface water quality and helping to achieve USCR Chloride TMDL, by reducing chloride levels from the existing chloramination facilities
- \* reducing the potential to form common disinfection by-products associated with the use of chloramination by converting to free chlorination and UV disinfection

**Please describe the dominant existing land use type for the proposed project location.**

**Water Treatment Facilities**

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: Urban / Residential

Downstream: Urban / Residential and Agricultural

**Does the project address any known environmental justice issues?**

Yes
  No
  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
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<b>Does the project include disadvantaged community participation?</b>
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<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Sure
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<b>If yes, please identify the group or organization:</b> _____
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**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Ultraviolet Disinfection</u>
Design operational treatment capacity (million gallons/day)	<u>28.1 MGD (34.1 MGD)</u>
Targeted Contaminants (Check all that apply):	
<input checked="" type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input checked="" type="checkbox"/> Other (describe): <u>Disinfection by-products (THMs, NMDA)</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>			
<b>Source of Increased Supply or Demand Reduction</b>			
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage	
<input checked="" type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: <u>Increased Recycled Water and equivalent decrease in groundwater/imported water demand.</u>			
Annual Yield of Supply (acre-feet): <u>Up to 17,000 AF (See CLWA Recycled Water Master Plan)</u>			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	_____		
Dry Year	_____		
Wet Year	_____		
<b>Availability by Season (check all that apply):</b>			
<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): \$11.5 Million

Upper estimated total capital cost (\$): \$13.2 Million

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

Annual Operation and Maintenance  
Cost (\$): \$500,000

Does your organization have a mechanism or  
other means to cover O&M for the life of project?  
Please describe: Yes

Design Life of Project (years): 20 Years (Until Next Facilities Planning Effort)

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost?

No

### Identify proposed funding sources:

- SCVSD

- 

- 

- 

What percent matching funding will be provided? (at least 10% is required):  
> 25%

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	2005 Santa Clarita Valley Urban Water Management Plan
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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

**Name:**

Francisco Guerrero

**Title:**

Senior Engineer

**Telephone:**

562-699-7411 ext 2832

**Fax:**

562-908-4293

**Email:**

FGUERRERO@LACSD.ORG

**Website:**

www.lacsd.org

**Project Name:**

Santa Clarita Valley Sanitation District SRWS Public Outreach and Rebate 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:

<b>Location Description:</b>	Santa Clarita Valley within the Santa Clarita Valley Sanitation District's Service Area
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Castaic Lake Water Agency	27234 Bouquet Canyon Rd Santa Clarita, CA 91350	Jeff Ford 661-513-1281
City of Santa Clarita		

**Project Status (e.g., new, ongoing, expansion, 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 one 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.**

**Residential self-regenerating water softeners (SRWS) contribute about one-third of the chloride in reclaimed water in the Santa Clarita Valley and are the largest and only potentially controllable source of chloride in reclaimed water. Even though the Santa Clarita Valley Sanitation District's two water reclamation plants serving the Santa Clarita Valley, which discharge reclaimed water to Reaches 5 and 6 of the Santa Clara River, provide tertiary treatment, they are not designed to remove salt. Consequently, the salt contribution from SRWS in Santa Clarita is discharged to in the Santa Clara River. High chloride levels in the reclaimed water can be an impediment to increased use of recycled water in the Santa Clarita Valley and potentially harmful to downstream agricultural uses.**

**The SCVSD must significantly reduce chloride levels at its two water reclamation plants in order to comply with requirements of the Upper Santa Clara River chloride Total Maximum Daily Load (TMDL), adopted by the Los Angeles Regional Water Quality Control board in 2004, which took effect in May 2005. Although ordinances adopted by the SCVSD in 2003, which prohibit the installation of new SRWS in the Santa Clarita Valley, are helping reduce chlorides, chloride levels have not gone down enough to bring the WRPs into compliance with the TMDL in the required timeframe. If chloride levels are not sufficiently reduced fast enough, end-of-pipe desalination treatment may be required for both WRPs at an estimated capital cost of at least \$350 Million to prevent chloride from being discharged to the river, which would result in substantial sewer bill and connection fee increases, approximately four times the current rates.**

### 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 one 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.\***

Since 2003, the District has aggressively targeted voluntary removal of residential SRWS with a multi-pronged public education campaign and rebate program. However, it is unlikely that this program alone will accomplish the goal of removal of all grandfathered SRWS (those predating the 2003 ordinances) within the necessary time period. The District's goal is to reduce chloride in an environmentally-friendly, cost-effective and timely manner.

The upgraded rebate program (the project) will offer homeowners reasonable value for SRWS units, as well as assistance with removal and disposal of the units, consistent with provisions of Senate Bill 475, which took effect January 1, 2007. The goal of the rebate program is to provide incentive to remove SRWS units as expeditiously as possible on a voluntary basis and develop a program that is easy for homeowners to participate in.

Reasonable value for SRWS units will be based on the average retail value of units, and assuming a 12-year service life and straight-line depreciation. Following the effective date of an ordinance banning all existing water softener that implements the provisions of SB475, assuming it passes in a referendum as required under SB475, rebate amounts will be reduced by one quarter.

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

• Santa Clara River, Reach 5
• Santa Clara River, Reach 6
• Eastern Santa Clara Groundwater Basin
•

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

• SB 475 <a href="http://www.leginfo.ca.gov/pub/05-06/bill/sen/sb_0451-0500/sb_475_bill_20060922_chaptered.pdf">http://www.leginfo.ca.gov/pub/05-06/bill/sen/sb_0451-0500/sb_475_bill_20060922_chaptered.pdf</a>
• <a href="http://www.lacsd.org/chloride">http://www.lacsd.org/chloride</a>
•

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>	
<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
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective **Reduce Water Demand**: Improved water quality and reduced chloride levels in SCVSD WRP recycled water resulting from removal of SRWS will support the use of recycled water in the Upper Santa Clara River IRWMP Region, which in turn reduce the Santa Clarita Valley's reliance on groundwater and imported water supplies, as well as protect agricultural uses in Ventura county.

Describe how the project's contribution toward meeting the **Reduce Water Demand** objective could be measured: Reduction in groundwater and imported water demand equivalent to increase in recycled water beneficially used.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> :	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conjunctive Management and Groundwater Storage
<input checked="" 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 checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recycled Municipal Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**: Improved water quality and reduced chloride levels in SCVSD WRP recycled water resulting from removal of SRWS will support the use of recycled water in the Upper Santa Clara River IRWMP Region, which in turn reduce the Santa Clarita Valley's reliance on groundwater and imported water supplies as well as protect salt sensitive agricultural uses in Ventura County.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured: Increased recycled water use result from improved water quality.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify: Increased recycled water use measurement
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<input 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 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) _____

Describe how the project contributes toward meeting the objective **Improve Water Quality**:  
 The new rebate program implements provisions of SB 475, which will ultimately enable the SCVSD's to enact ordinances banning all existing SRWS in the Santa Clarita Valley, which contribute approximately one third of the chloride in the SCVSD WRP recycled water.

Describe how the project's contribution toward meeting the **Improve Water Quality** objective could be measured: Contribution measured by decrease in chloride levels in SCVSD recycled water.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify: Reduction of chloride levels in SCVSD WRP recycled water to comply with USCR CI TMDL.

<b>Promote Resource Stewardship</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input 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 type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Floodplain 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 type="checkbox"/> NA	Urban Land Use Management
<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): _____

Describe how the project contributes toward meeting the objective **Promote Resource Stewardship**:

SRWS rebate program will reduce chloride levels in WRP recycled water discharged to the SCR and used as recycled water, reducing impact to surface water and groundwater.

Reduction in chloride levels in WRP recycled water may reduce need for costly advanced treatment to comply with water quality objectives to be determined as part of USCR CI TMDL.

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Describe how the project's contribution toward meeting the **Promote Resource Stewardship** objective could be measured:

Reduction in chloride level in SCVSD WRP recycled water and corresponding reduction in advanced treatment required to meet USCR CI TMDL water quality objectives.

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Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres</li> </ol> </li> </ul>	Quantify:
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tamarisk 4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk 5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

<b>Is the proposed project an element or phase of a regional or larger program?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If yes, please identify the program</b>	<u>USCR Chloride TMDL</u>
<b>Proposed Construction/Implementation Start Date:</b>	<u>2007</u>
<b>Proposed Construction/Implementation Completion Date</b>	<u>2010</u>
<b>Ready for Construction Bid</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>Complete</u>	_____ (mm/dd/yyyy)
Land Acquisition/ Easements	<u>N/A</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>Complete</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>N/A</u>	_____ (mm/dd/yyyy)

<b>Permits</b>	<u>N/A</u>	_____	(mm/dd/yyyy)
<b>Construction Drawings</b>	<u>N/A</u>	_____	(mm/dd/yyyy)
<b>Funding</b>	<u>In Progress</u>	_____	(mm/dd/yyyy)

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

The District's Board of Directors has already approved the New Automatic Water Softener Rebate Program elements on April 11, 2007, authorizing funding in the amount of \$2.4 million for the implementation of the program. Additional funds are being requested to maximize effectiveness of rebate program, with the goal of 100% removal of all automatic water softeners by end of 2010. Provisions of SB 475 authorize the District to implement an ordinance banning all existing water softeners if such an ordinance passes an addendum. The earliest possible effective date of such an ordinance is January 1, 2009, at which time the reasonable value of SRWS would be adjusted to 75%.

#### Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

The new rebate program implements provisions of SB 475, which will ultimately enable the SCVSD's to enact ordinances banning all existing SRWS in the Santa Clarita Valley. The goal of the new rebate program is to provide incentive to remove 100% of existing SRWS, an estimated 7,700 units, as expeditiously as possible on a voluntary basis, thus reducing the chloride load to the Upper Santa Clara River. The SCVSD estimates SRWSs contribute up to approximately one third of the chloride load into its system. This reduction will enable the SCVSD to comply with regulatory requirements to reduce chloride levels in reclaimed water discharged to the SCR, possibly avoiding costly advance treatment and considerable sewer bill rate increases to the community.

**Please describe the dominant existing land use type for the proposed project location.**

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**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: N/A

Downstream: Agriculture

**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 provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>N/A</u>
Design operational treatment capacity (million gallons/day)	<u>28.1 (34.1)</u>
Targeted Contaminants (Check all that apply):	
<input checked="" type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input type="checkbox"/> Other (describe): _____	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	<u>N/A</u>
Maximum increased conveyance capacity (cubic feet/second)	<u>N/A</u>
Estimated area benefiting from flood damage reduction (acres)	<u>N/A</u>
Estimated level of flood protection resulting from project implementation	<u>N/A</u>
Estimated annual value of flood damage reduction provided by project (\$/year)	<u>N/A</u>
Acreage required for project implementation	<u>N/A</u>

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information			
<b>Source of Increased Supply or Demand Reduction</b>			
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage	
<input checked="" type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: <u>Groundwater and Imported Water</u>			
Annual Yield of Supply (acre-feet): <u>As much as 17,000 AFY of recycled water use is planned by CLWA. Reductions in chlorides levels in recycled water as a result of this program will improve recycled water quality, thereby minimizing impacts to downstream groundwater quality, as well as reduce dependence on imported water supplies in the area.</u>			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	<u>As much as 17,000 AFY is planned to be utilized. (See CLWA's 2002 Recycled Water Master Plan)</u>		
Dry Year	_____		
Wet Year	_____		
<b>Availability by Season (check all that apply):</b>			
<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	<u>N/A</u>
Detention Basin area (acres)	<u>N/A</u>
Detention basin max. operational depth (ft.)	<u>N/A</u>
% of basin covered by wetlands	<u>N/A</u>
Soil type	<u>N/A</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	<u>N/A</u>
Estimated basin annual inflow (acre-feet/year)	<u>N/A</u>
Estimated basin annual outflow (acre-feet/year)	<u>N/A</u>

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	<u>N/A</u>
Treatment wetland area (acres)	<u>N/A</u>
Riparian habitat area (acres)	<u>N/A</u>
Non-developed open space area (acres)	<u>N/A</u>
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	<u>N/A</u>
Multiple Sport Athletics Acres	<u>N/A</u>
Other Recreation Acres	<u>N/A</u>
Pedestrian Trail Acres	<u>N/A</u>
Equestrian Trail Acres	<u>N/A</u>
Other Passive Activity	<u>N/A</u>
Other Acres (describe)	<u>N/A</u>
Description _____	
Total Project area (acres)	<u>N/A</u>

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): N/A

Upper estimated total capital cost (\$): \$4,700,000

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

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

Does your organization have a mechanism or  
other means to cover O&M for the life of project?  
Please describe: N/A

Design Life of Project (years): N/A

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost?  
Yes

### Identify proposed funding sources:

- SCVSD
- 
- 
- 

What percent matching funding will be provided? (at least 10% is required):  
>25%

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	(Phase I) <input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	2005 Santa Clarita Valley Urban Water Management Plan
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

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 Division of CLWA

**Agency / Organization / Individual Address:**

22722 Soledad Canyon Road, Santa Clarita, CA 91350

**Name:**

Cathy Z. Hollomon

**Title:**

Associate Water Resources Planner

**Telephone:**

661.259.2737

**Fax:**

661.286.4333

**Email:**

chollomon@scwater.org

**Website:**

www.clwa.org/santaclarita/santaclarita.cfm

**Project Name:**

Consolidation of Water Mutuals

**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 24'53.55" N

**Project Longitude:** 118 23' 36.80" W

<b>Location Description:</b>	Ten separate locations east of Bouquet Canyon Road to just east of Sand Canyon Road on both north and south sides of reach 7 of the Santa Clara River.
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
CA Dept of Public Health	1449 West Temple Street	Cliff Cheng 213.580.5740
	Los Angeles, CaA 90026	

**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 one 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.**

**There currently exists ten, privately owned and operated water mutuals along reach 7 of the Santa Clara River. Each mutual receives potable water through a distribution system and master meter owned and operated by a Public Water System that is governed by strict federal and state statutes and regulations. After the water leaves the public water system's purview, the quality of water delivered and the efficiency in which it is delivered is often suspect. Minimal oversight by regulatory agencies exists in these areas due lack of manpower. There is currently a push underway by California Department of Public Health to eliminate all master metered communities including water mutuals.**

### 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 one 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 involve designing more efficient distribution systems within ten water mutuals and replacing existing distribution lines with new, current standard approved piping. Also, the master meter would be removed and every residence would be metered individually. This would assure good water quality throughout these areas with routine water sampling and testing and system flushing. System pressure would be more consistently maintained throughout these areas so risk of contaminating backflow events would be reduced.

**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:**

•
•
•

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>	
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Improve Operational Efficiency**:

New distribution pipes allow for more efficient flow of water through system to residents reducing energy consumption; maintenance tasks such as leaks and/or mainline breaks are repaired immediately and properly, reducing water loss; any inefficient pumps or generators would be removed and, if necessary, replaced with energy efficient pumps/generators.

---

Describe how the project's contribution toward meeting the **Improve Operational Efficiency** could be measured:

---

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>	
<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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b> :	
Describe how the project's contribution toward meeting the <b>Increase Water Supply</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>	
<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 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	Urban Runoff Management
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State) _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:</p> <p>Installation of new distribution pipes and routine, compliance sampling within each mutual will assure good water quality within these areas. Scheduled, routine flushing of mainlines also assures good water quality.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:</p> <p>All compliance samples can be compared with any pre-existing water sampling efforts in these areas.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify: All laboratory results are recorded in DPH database.
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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): _____

Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b> :	
Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> <li>5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk</li> </ol> </li> </ul>	Quantify:

<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

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	_____
Proposed Construction/Implementation Start Date:	_____
Proposed Construction/Implementation Completion Date	_____
Ready for Construction Bid	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>not initiated</u>	_____ (mm/dd/yyyy)
Land Acquisition/Easements	<u>N/A</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>not initiated</u>	_____ (mm/dd/yyyy)
Permits	<u>N/A</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.**

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Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

<p>This project would assure good water quality throughout ten water mutuals because of routine water sampling and testing and system flushing. System pressure would also be more consistently maintained throughout these areas so risk of contaminating backflow events would be reduced.</p>
--

**Please describe the dominant existing land use type for the proposed project location.**

urban
-------

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: urban/open space
Downstream: urban

**Does the project address any known environmental justice issues?**

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure
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**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 checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure
------------------------------	--	-----------------------------------

**If yes, please identify the group or organization: \_\_\_\_\_**

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	_____
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input type="checkbox"/> Other (describe): _____	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>		
<b>Source of Increased Supply or Demand Reduction</b>		
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: _____		
Annual Yield of Supply (acre-feet): _____		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	_____	
Dry Year	_____	
Wet Year	_____	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input type="checkbox"/> Fall	<input type="checkbox"/> Spring
<input type="checkbox"/> Winter		
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

### Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 5,000,000

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

Annual Operation and Maintenance  
Cost (\$): \_\_\_\_\_

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: YES

Design Life of Project (years): \_\_\_\_\_

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? YES

**Identify proposed funding sources:**

- 
- 
- 
- 

**What percent matching funding will be provided? (at least 10% is required): 10%**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	2005 Santa Clarita Valley Urban Water Management Plan
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin.

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

Part 1. Lead Implementing Agency/Organizational Information

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

**Implementing Agency/ Organization / Individual:**

Valencia Water Company

**Agency / Organization / Individual Address:**

24631 Avenue Rockefeller, Valencia Ca. 91355

**Name:**

Robert DiPrimio

**Title:**

President

**Telephone:**

661 295-6501

**Fax:**

661 294-3806

**Email:**

rdiprimio@valencia.com

**Website:**

www.valenciawater.com

**Project Name:**

Water Quality Improvement 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:** 34.450591

**Project Longitude:** -118.558849

<b>Location Description:</b>	Valencia Water Company Well W9 25001 Decoro Drive Valencia, Ca. 91355
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
SCV Sanitation District	1955 Workman Mill Road,Whittier	Brian Louie, 562-699-7411, ext. 2802
City of Santa Clarita	23920 Valencia Blvd., Santa Clarita	Travis Lange, 661 255-4337

**Project Status (e.g., new, ongoing, expansion, 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 one 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.**

**Many customers of the Valencia Water Company (Valencia) have complained about hard water. They have addressed these problems by installing point of use water softening devices at their own expense. Although these devices produce soft water, they are expensive to maintain and many operate by using a wasteful practice that discharges water containing high concentrations of minerals and salts (chlorides) to the sewer system that eventually are discharged to the Santa Clara River. Salt based water softening devices are one of the largest sources of chlorides discharged to the river and pose a serious environmental concern. In summary, Valencia's Water Quality Improvement Program has the potential to improve water quality, reduce cost for residential water softening and region-wide wastewater treatment, conserve water and provide regional environmental protections. Also, Valencia's continued reliance and more efficient use of local groundwater will reduce the amount of imported water needed to meet customer demands thus achieving an important regional goal.**

### 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 one 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 Water Quality Improvement Program proposed by Valencia is intended to construct a demonstration project that employs pellet softening technology to reduce the concentration of calcium in water produced from an existing water supply well. The softened well water will be delivered to approximately 430 existing homeowners. The objectives of the demonstration project are to confirm consumer acceptance of a centralized water softening system, measure region-wide environmental protections, evaluate economic benefits to customers and the community and optimize the pellet softening treatment process. Pellet softening is the process of mineral extraction through precipitation. The system utilizes a cylindrical column with a sand bed. Hard water enters the bottom of the column and the pH is elevated using sodium hydroxide. The sand bed becomes fluidized and the calcium crystallizes attach to the grains of sand creating white spherical pellets. The pellets are calcium carbonate with a sand nucleus. As the water passes through the column the pH is then reduced using carbon dioxide. As the pellets grow they are removed and can be reused in various industries such as steel, textile, and agriculture.

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

• Alluvial Aquifer, Santa Clara River Valley East Groundwater Subbasin
•
•
•

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

<ul style="list-style-type: none"><li>• Pellet Softening System Pilot Demonstration, Roberts Services, Inc., July 2005</li></ul>
<ul style="list-style-type: none"><li>• Well Softening Feasibility Study prepared by Kennedy Jenks, April 2006</li></ul>
<ul style="list-style-type: none"><li>• CEQA Initial Study, Groundwater Softening Demonstration Project at Well W9, August 2007</li></ul>

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Water Use Efficiency
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective **Reduce Water Demand**:  
 Salt based water softeners routinely operate by using potable water to flush a brine solution to waste. The Santa Clarita Valley Sanitation District estimates that there are approximately 6,500 salt based water softeners in use within the Santa Clarita Valley. Valencia estimates that there are approximately 4,500 in use within its service area.

Describe how the project's contribution toward meeting the **Reduce Water Demand** objective could be measured:  
 The total water saved would be calculated by estimating the amount of water used to regenerate a salt based water softener. The quantity of water needed for this operation times the number of salt based water softeners removed would provide the total water savings.

<b>Please quantify to what extent the project would meet the objective measures of:</b>	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify: The project would compliment this objective by eliminating the wasteful use of potable water for regeneration.
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance
<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	Transfers
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): <u>Customer Operating Efficiency</u>

<p>Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b>:</p> <p>The project would improve water quality by softening groundwater (removing calcium) delivered to customers. Softened water minimizes scale build-up allowing on-site water systems to operate more efficiently resulting in lower energy usage and maintenance costs.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:</p> <p>Customer audits could be performed to measure energy usage before and after receiving treated water.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	<p>Quantify:</p>
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	<p>Quantify: This project would compliment this objective by reducing customer energy consumption.</p>

<b>Increase Water Supply</b>			
<input type="checkbox"/> Primary	<input checked="" 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 checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective **Increase Water Supply**:  
 Valencia's current operating plan calls for blending of naturally hard groundwater with naturally soft imported water in order to provide customers with the best quality of water possible. The project would minimize the need to blend groundwater with imported water. As a result, groundwater supplies would be more efficiently utilized while reducing the amounts of imported water needed for blending.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured:  
 Groundwater and imported water use by Santa Clarita Valley water purveyors are reported in the Annual Santa Clarita Valley Water Report. A comparison between groundwater and imported water use by Valencia could easily be tracked.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:



<b>Improve Water Quality</b>	
<input checked="" 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 checked="" 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	Urban Runoff Management
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Other (Please State) _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:</p> <p>Groundwater supplies in the Santa Clarita Valley contain high concentrations of naturally occurring minerals such as calcium and magnesium, the cause of hard water. Customers have complained about unsightly hard water spots on practically everything the water comes in contact with such as plumbing fixtures, dishes, glassware, automobiles, etc. Hard water reacts with soap to form an unsightly scale or "bath tub ring". Scale build-up also clogs pipes, hot water heaters, washing machines and dishwashers. It's especially notable that when heating and air conditioning systems become clogged by scale build-up, the flow of heat into or out of the water is impeded thus reducing energy efficiency causing increased energy use and maintenance costs. In addition, hard water necessitates the need for additional detergents, soaps, and other chemicals to attain the similar water cleaning characteristics of soft water.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured: Customer surveys and focus group meetings are planned that will assess consumer acceptability with Valencia's centralized softened water.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify: Water produced by the pellet softening system will be tested for several constituents that measure the aesthetic quality of water.
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify: The SCV Sanitation District will monitor wastewater effluent from the demonstration project area and will be tested for chlorides.



<b>Promote Resource Stewardship</b>			
<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 checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Floodplain 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	Urban Land Use Management
<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): _____

Describe how the project contributes toward meeting the objective **Promote Resource Stewardship**: The project promotes removal of salt based water softeners that results in the reduction of chlorides discharged to the Santa Clara River.

Describe how the project's contribution toward meeting the **Promote Resource Stewardship** objective could be measured: The Santa Clarita Valley Sanitation District monitors chloride levels discharged to the Santa Clara River.

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> <li>5. Santa Clara River-Bouquet Canyon to</li> </ol> </li> </ul>	Quantify:
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Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

<b>Is the proposed project an element or phase of a regional or larger program?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If yes, please identify the program</b>	<u>Full scale centralized groundwater softening</u>
<b>Proposed Construction/Implementation Start Date:</b>	<u>December 2007</u>
<b>Proposed Construction/Implementation Completion Date</b>	<u>February 2008</u>
<b>Ready for Construction Bid</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available	
Conceptual Plans	<u>Completed</u>	<u>April 2006</u>	(mm/dd/yyyy)
Land Acquisition/ Easements	<u>N/A</u>	_____	(mm/dd/yyyy)
Preliminary Plans	<u>Completed</u>	<u>September 2007</u>	(mm/dd/yyyy)
CEQA/NEPA	<u>Completed</u>	<u>September 2007</u>	(mm/dd/yyyy)
Permits	<u>In-Process</u>	<u>February 2008</u>	(mm/dd/yyyy)
Construction Drawings	<u>In-Process</u>	<u>December 2007</u>	(mm/dd/yyyy)

<b>Funding</b>	<u>Completed</u>	<u>June 2007</u>	(mm/dd/yyyy)
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**For projects that do not include construction, please briefly describe the project readiness-to proceed.**

N/A

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

In summary, Valencia's Water Quality Improvement Program has the potential to improve water quality, reduce cost for residential water softening and region-wide wastewater treatment, conserve water and provide regional environmental protections. Also, Valencia's continued reliance on local groundwater will reduce the amount of imported water needed to meet customer demands thus achieving an important regional goal.

**Please describe the dominant existing land use type for the proposed project location.**

The existing land use is open space.

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: residential and open space.  
 Downstream: residential and open space.

**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 provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Pellet Softening</u>
Design operational treatment capacity (million gallons/day)	<u>1.4 MGD</u>
Targeted Contaminants (Check all that apply):	
<input checked="" type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria	
<input checked="" type="checkbox"/> Other (describe): <u>Calcium removal for improving aesthetic water quality</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>			
<b>Source of Increased Supply or Demand Reduction</b>			
<input checked="" type="checkbox"/> Groundwater	<input checked="" type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage	
<input type="checkbox"/> Recycled water	<input checked="" type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: <u>reduced need for imported water; eliminate wasteful use of water by salt based water softening devices</u>			
Annual Yield of Supply (acre-feet): _____			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	_____		
Dry Year	_____		
Wet Year	_____		
<b>Availability by Season (check all that apply):</b>			
<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 1.3 Million

Upper estimated total capital cost (\$): 1.7 Million

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

Annual Operation and Maintenance  
Cost (\$): 170,000

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes, recovery through rates.

Design Life of Project (years): up to 20 years

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost?

Construction and start-up of Valencia's pellet softening treatment plant is scheduled to be on-line by March, 2008.

### Identify proposed funding sources:

- self funded by Valencia
- Santa Clarita Valley Sanitation District
- others TBD
- 

**What percent matching funding will be provided? (at least 10% is required): Valencia is capable of providing the required matching funds for this project.**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	2005 Urban Water Management Plan prepared for the Santa Clarita Valley Water Agencies, November 2005
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

Part 1. Lead Implementing Agency/Organizational Information

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

**Implementing Agency/ Organization / Individual:**

Valencia Water Company

**Agency / Organization / Individual Address:**

24631 Avenue Rockefeller Valencia Ca 91355

**Name:**

Greg Milleman

**Title:**

Vice-President, Administration

**Telephone:**

661 295-6512

**Fax:**

661 294-3608

**Email:**

gmilleman@valencia.com

**Website:**

www.valenciawater.com

**Project Name:**

Implementation of Santa Clarita Valley Water Conservation Strategic Plan

**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:

<b>Location Description:</b>	The service area of the Castaic Lake Water Agency
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number
Castaic Lake Water Agency	27234 Bouquet Canyon Road, Santa Clarita Ca 91350	Jeff Ford 661 513-1281
Newhall County Water District	23780 N. Pine Street, Newhall Ca. 91322	Steve Cole (661) 259-3610

Santa Clarita Water Division of CLWA	PO Box 903 Santa Clarita Ca 91380-9003	Mauricio Guardado (661) 259-2737
Los Angeles County Waterworks District 36	900 S Fremont Alhambra Ca. 91803	Adam Ariki

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

NEW, the water agencies have retained a consultant to prearte a strategic water conservation plan

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 one 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.**

**Water conservation is an important part of the water supply planning in the Santa Clarita Valley. The 2005 Urban Water Management Plan prepared by CLWA and its retailers target a reduction of up to ten percent of the water demand projected to occur over the next 20-25 years. Over this time frame, projected savings are estimed to be almost 13,000 acre-feet per year of imported water from the State Water Project during average/normal water years. Encouraging exisitng water users to implement water efficient practices will require sustained funding of a number of programs. A significant amount of resources will be required to inform the public about wasteful water use practices. Also, financial incentives offered to residents are needed to fund cost-effective measures that result in quantifiable water savings. These demand-side management programs are less costly and represent an environmentally superior alternative to developing additional supplies to cover the amount of water saved.**

### 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 one 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.\***

Reducing the amount of imported water needed to meet the long term water supply needs of the Santa Clarita Valley is an important goal of the local water purveyors and offers important state-wide benefits. Although water conservation efforts have been on-going for years, the local water agencies recognize that more needs to be done in order to eliminate wasteful water use. Implementing conservation programs will require a sustained effort over many years. In order to efficiently organize a comprehensive plan, the water agencies have retained a consultant to prepare a Water Conservation Strategic Plan for the Santa Clarita Valley. The following elements are included in the plan: 1) Specify the conservation planning goals, 2) Develop a customer profile, 3) Develop means of measuring savings, 4) Identify water conservation measures, 5) Analyze costs and benefits, 6) Selection of conservation measures, and 7) Development of an implementation plan. Those programs and measures deemed to be cost-effective will be selected for implementation by the purveyors. The Plan is expected to be completed in early 2008.

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

• N/A
•
•
•

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

<ul style="list-style-type: none"><li>• 2005 Urban Water Management Plan</li></ul>
<ul style="list-style-type: none"><li>• Proposal to prepare the Santa Clarita Valley Water Conservation Strategic Plan prepared by A&amp;N Technical Services, May 2007.</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Agricultural Water Use Efficiency
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Water Use Efficiency
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> : see 2005 UWMP, Chapter Six, Water Supply and Demand Tables	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured: Annual water demands met by each water purveyor can be measured against long term planning projections. Also, the Strategic Plan will be developing tools to measure water savings as residents implement specific water saving measures.	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify: up to 13,000 acre-feet per year
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>	
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b> : Achieving the stated conservation goal in the UWMP will eliminate the need for CLWA to expand treatment plant capacity identified in their long term planning documents.	
Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured: Review CLWA's capital improvement program and the impact of reducing the water demand on CLWA's facilities by 13,000 acre-feet per year.	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify: N/A
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify: less water delivered from the SWP system to Castaic Lake and treated by CLWA will significantly reduce energy demands

<b>Increase Water Supply</b>			
<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 checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): <u>Indirectly, by freeing up available water supply for other local or regional beneficial uses</u>

Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b> : see 2005 UWMP	
Describe how the project's contribution toward meeting the <b>Increase Water Supply</b> objective could be measured: Annual water demands met by each water purveyor can be measured against long term planning projections. Also, the Strategic Plan will be developing tools to measure water savings as residents implement specific water saving measures.	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b> :	
Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

<b>Promote Resource Stewardship</b>			
<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	Floodplain 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	Urban Land Use Management
<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 checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): <u>Demand side management programs are an environmentally superior alternative compared with developing new supplies to meet demand.</u>

Describe how the project contributes toward meeting the objective <b>Promote Resource Stewardship</b> : see 2005 UWMP	
Describe how the project's contribution toward meeting the <b>Promote Resource Stewardship</b> objective could be measured: Annual water demands met by each water purveyor can be measured against long term planning projections. Also, the Strategic Plan will be developing tools to measure water savings as residents implement specific water saving measures.	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> </ol> </li> </ul>	Quantify:

4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk	
5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk	
<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

<b>Is the proposed project an element or phase of a regional or larger program?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If yes, please identify the program</b>	<u>2005 UWMP</u>
<b>Proposed Construction/Implementation Start Date:</b>	<u>2008</u>
<b>Proposed Construction/Implementation Completion Date</b>	<u>2010</u>
<b>Ready for Construction Bid</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>in process</u>	<u>February 2008</u> (mm/dd/yyyy)
Land Acquisition/Easements	<u>N/A</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>not initiated</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>??</u>	_____ (mm/dd/yyyy)

<b>Permits</b>	<u>??</u>	_____	(mm/dd/yyyy)
<b>Construction Drawings</b>	<u>N/A</u>	_____	(mm/dd/yyyy)
<b>Funding</b>	<u>in-process</u>	_____	(mm/dd/yyyy)

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

It's anticipated that many elements of the Strategic Plan will not require construction related activities. The readiness to implement these programs is a function of each water purveyor's readiness and authority to plan and implement a particular project.

**Part 4. Project Benefits**

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

Water conservation is an important part of the water supply planning in the Santa Clarita Valley. The 2005 Urban Water Management Plan prepared by CLWA and its retailers target a reduction of up to ten percent of the water demand projected to occur over the next 20-25 years. Successfully achieving this goal will improve water service reliability to SCV residents by reducing reliance on imported water, conserving energy and defer or eliminate unnecessary capital expenditures for facilities that would no longer be needed.

**Please describe the dominant existing land use type for the proposed project location.**

urban, agriculture and open space

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream: urban, agriculture and open space  
 Downstream: urban, agriculture and open space

**Does the project address any known environmental justice issues?**

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure
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<b>Is the project located within or adjacent to a disadvantaged community?</b>		
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Sure

<b>Does the project include disadvantaged community participation?</b>		
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Sure
<b>If yes, please identify the group or organization: _____</b>		

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	_____
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input type="checkbox"/> Other (describe): _____	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

**Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.**

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>		
<b>Source of Increased Supply or Demand Reduction</b>		
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage
<input type="checkbox"/> Recycled water	<input checked="" type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____	
Type of enhanced supply or demand reduction: <u>TBD by Strategic Plan</u>		
Annual Yield of Supply (acre-feet): <u>up to 13,000 acre-feet per year over the next 25 years</u>		
<b>Availability by Water-Year Type (acre-feet per year):</b>		
Average Year	_____	
Dry Year	_____	
Wet Year	_____	
<b>Availability by Season (check all that apply):</b>		
<input type="checkbox"/> Summer	<input type="checkbox"/> Fall	<input type="checkbox"/> Spring
		<input type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 million

Upper estimated total capital cost (\$): 5 million

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

\_\_\_\_\_

Annual Operation and Maintenance  
Cost (\$): TBD

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: Yes if approved by governing body

Design Life of Project (years): 30 years or more

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? YES

### Identify proposed funding sources:

- **water rates collected from ratepayers if approved by the governing body**
- 
- 
- 

**What percent matching funding will be provided? (at least 10% is required): TBD**

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	2005 UWMP prepared for CLWA and the water purveyors
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	NO

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 MAY 22, 2007 to: [MeredithClement@kennedyjenks.com](mailto: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 Department of Public Works

**Name: \***

Travis Lange

**Title:**

Environmental Services Division Manager

**Telephone: \***

661-286-4098

**Fax:**

661-255-4356

**Email: \***

tlange@santa-clarita.com

**Website:**

www.santa-clarita.com

**Project Name: \***

Water Quality Education 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:**

throughout the City limits of the City of Santa Clarita

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

•
•
•
•

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

New
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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.**

The City of Santa Clarita is the only incorporated City in the IRWMP region. Therefore, much of the outreach to the community becomes City responsibility. With the increased permitting requirements, the complex issues with water, and issues with urban runoff, the City is in need of a massive outreach effort. This project brings in demonstration projects, tours, school education and other methods to increase the community awareness of water quality in the Santa Clarita Valley.

### 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 Water Quality Education Program will include three distinct efforts. Firstly, this will require demonstration projects for low impact development and zero runoff sites in our Newhall community and a public parking lot, such as City Hall. Secondly, the City will utilize funding to help maintain, expand and improve River Rally, the primary Santa Clara River event held annually. Thirdly, the City would like to develop a “tread lightly” guide to sustainable living that focuses on the Santa Clara River, available to all Santa Clarita Valley residents.

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

• Santa Clara River	•
• Saugus Formation	•
• Santa Clara River Valley East	•
• Acton Valley Groundwater Basin	•

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

• Malibu Creek Watershed Tread Lightly Guide
• Effect of Increases in Peak Flows and Imperviousness of the Morphology of Southern California Streams
• Final Report for New Development Impacts Study for Santa Clarita Area

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

<b>Reduce Water Demands</b>			
<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
<b>Improve Operational Efficiency and Transfers</b>			
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State):_____
<b>Increase Water Supply</b>			
<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 checked="" type="checkbox"/> Secondary	<input 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	Reduced Reliance on Imported Water
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): groundwater recharge_____
<b>Improve Water Quality</b>			
<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 checked="" 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 checked="" 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 (Please State) _____

<b>Practice Resource Stewardship</b>			
<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)
X Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Ecosystem Restoration
X Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Floodplain Management
X Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Recharge Areas Protection
X Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Land Use Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Water-Dependent Recreation
X 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): _____

<b>Is the proposed project an element or phase of a regional or larger program?</b>	X Yes <input type="checkbox"/> No
<b>If yes, please identify the program</b>	<u>NPDES</u>
<b>Proposed Construction/Implementation Start Date:</b>	_____
<b>Proposed Construction/Implementation Completion Date</b>	_____
<b>Ready for Construction Bid</b>	<input type="checkbox"/> Yes    X No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	not initiated_____	_____ (mm/dd/yyyy)
Land Acquisition/ Easements	not initiated_____	_____ (mm/dd/yyyy)
Preliminary Plans	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.**

**The project requires design work and is not ready to proceed. However, using in house staff and contract staff, the project could be ready to bid for construction within six months.**

#### Part 4. 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.

This project would demonstrate removing urban runoff pollutants and aerial deposition control using infiltration systems. This includes the nutrients in the TMDL for the Santa Clara River. It could also help remove pollutants that potentially could arise in the future. The soils in north Los Angeles County are challenging for infiltration projects. These projects could help dispel myths, address challenges, and formulate future efforts for create virtual zero runoff sites. Sub drainage areas in the Santa Clarita Valley could be retrofitted to capture more rain water on the land surface, substantially helping to slow water down. The slower water allows for groundwater to capture more surface flow.

Water quality education that is specified to a target audience is expensive. Yet, this type of outreach is what has been demonstrated to actually change behavior. Awareness is not behavior change. This effort would help segment the Santa Clarita community, provide customized messages, and work to increase the chances of behavior change.

Please describe the dominant existing land use type for the proposed project location.

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Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location

Upstream: Rural

Downstream: Rural/agricultural

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 provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Demonstrate LID retrofits</u>
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input checked="" type="checkbox"/> Nitrogen Compounds <input checked="" type="checkbox"/> Coliform Bacteria <input checked="" type="checkbox"/> Other (describe): <u>toxicity/metals</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information			
<b>Source of Increased Supply or Demand Reduction</b>			
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input checked="" type="checkbox"/> Increased surface water storage	
<input type="checkbox"/> Recycled water	<input checked="" type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: _____			
Annual Yield of Supply (acre-feet): _____			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	_____		
Dry Year	_____		
Wet Year	_____		
<b>Availability by Season (check all that apply):</b>			
<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	<u>TBD</u>
Detention Basin area (acres)	<u>TBD</u>
Detention basin max. operational depth (ft.)	<u>TBD</u>
% of basin covered by wetlands	<u>TBD</u>
Soil type	<u>TBD</u>
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	<u>TBD</u>
Estimated basin annual inflow (acre-feet/year)	<u>TBD</u>
Estimated basin annual outflow (acre-feet/year)	<u>TBD</u>

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	<u>TBD</u>
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	<u>TBD</u>
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	<u>TBD</u>
Multiple Sport Athletics Acres	<u>TBD</u>
Other Recreation Acres	<u>TBD</u>
Pedestrian Trail Acres	<u>TBD</u>
Equestrian Trail Acres	<u>TBD</u>
Other Passive Activity	<u>TBD</u>
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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

Upper estimated total capital cost (\$): 7,000,000

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

\_\_\_\_\_

Annual Operation and Maintenance Cost (\$): 150,000

Design Life of Project (years): 20

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 MAY 22, 2007 to: [MeredithClement@kennedyjenks.com](mailto: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: \***

Dianne Erskine-Hellrigel

**Agency / Organization / Individual Address:**

Community Hiking Club Stewardship Committee

**Possible Partnering Agencies:**

Placerita Nature Center, Friends of the River, Friends of the Inyo, MRCA

**Name: \***

Dianne Erskine-Hellrigel

**Title:**

Director, Community Hiking Club

**Telephone: \***

661-259-2743

**Fax:**

na

**Email: \***

zuliebear@aol.com

**Website:**

communityhikingclub.org

**Project Name: \***

trash removal and non-native removal in tributaries to the SC River

**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:**

<b>Location Description:</b>	Project would include Placerita Canyon, Elsmere Canyon, Whitney Canyon, East/Rice Canyon, Towsley/Wiley Canyon, Pico Canyon
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**Project Cooperating Agency(ies)/Organization(s)/Individual(s):**

• MRCA-Jodie Thomas
• Placerita Nature Center-Ian Swift
• Friends of the Inyo-Paul McFarland
• Friends of the River-Steve Evans

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

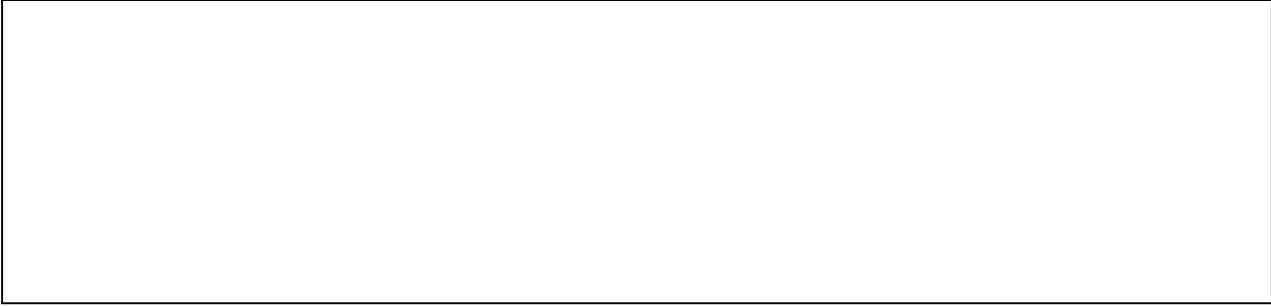
Ongoing-See website for past projects in Whitney and Bear Divide (see stewardship events)
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Part 2. Project Need

**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.**

**The canyons of Santa Clarita have long been neglected and are filled with non-natives such as Tamarisk that suck up water at an alarming rate and can entirely dry up water resources. This means that if they are left in place, the water that is naturally contributed to our aquifers will be utilized by this non-native plant instead. This means less water for humans and native animals and plants as well. Not only that, but an adult blooming tree can have as many as 500,000 seeds per year to add to the environment. This specie was brought into the area from the Middle East in the late 1800s as an ornamental. Currently is is sapping up so much water that our native species of shrubs and trees are dying. It is important to restore this habitat for future generations, for the health of the local environment, and for the health of the ecosystem. It is important to remove this invasive plant before it can reseed again in the late spring. In addition, follow up eradications will be in order to remove the new seedlings.**



### 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.\***

Since this is an ongoing project, it is fairly easy to continue to remove trash and invasives in a methodic manner. However, being in receipt of grant funding will free the organization up to be able to devote it's full time energy to this project. The first priority would be to map all invasives and accumulated trash. Although we currently have access to tools, new and updated tools would be desirable. The project will be organized by the Community Hiking Club under the direction of Dianne Erskine-Hellrigel who has organized all past stewardship events. The CHC Stewardship Director, Sylvia Altamirano will assist. Much of the labor force is volunteer, pooled from our membership of 1200 community members. Assistance with supplies in the past has come from Burrtec, MRCA, Placerita Nature Center, The City of Santa Clarita, the Castaic Lake Water Agency and REI. It is possible that these entities would require payment for an ongoing series of projects. The organization of each project would be a full time occupation, with the actual clean up and eradication events occurring on the weekends when volunteers are available.

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

- all of the canyons listed are tributaries to the Santa Clara River

•
•
•

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

•
•
•

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

<b>Reduce Water Demands</b>		
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA
Agricultural Water Use Efficiency		
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA
Urban Water Use Efficiency		
<b>Improve Operational Efficiency and Transfers</b>		
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA
Conveyance		
<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
Transfers		
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA
Other (Please State): _____		
<b>Increase Water Supply</b>		
<input type="checkbox"/> Primary	<input checked="" 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 checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA
Reduced Reliance on Imported Water		
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA
Other (Please State): _____		
<b>Improve Water Quality</b>		
<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 checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA
Pollution Prevention		
<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) _____		

<b>Practice Resource Stewardship</b>	
<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 type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Floodplain 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	Urban Land Use Management
<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): _____

<b>Is the proposed project an element or phase of a regional or larger program?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>If yes, please identify the program</b>	_____
<b>Proposed Construction/Implementation Start Date:</b>	_____
<b>Proposed Construction/Implementation Completion Date</b>	_____
<b>Ready for Construction Bid</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	_____	_____ (mm/dd/yyyy)
Land Acquisition/ Easements	_____	_____ (mm/dd/yyyy)
Preliminary Plans	_____	_____ (mm/dd/yyyy)
CEQA/NEPA	_____	_____ (mm/dd/yyyy)
Permits	_____	_____ (mm/dd/yyyy)
Construction Drawings	_____	_____ (mm/dd/yyyy)
Funding	_____	_____ (mm/dd/yyyy)

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

## Part 4. 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.

Once the trash is removed, the quality of the water that is contributed to the aquifer and that flows from the tributaries into the Santa Clara River will not carry with it pollution from accumulated and dumped trash, some of which may be caustic.

Once the invasives are removed, water will actually be able to flow freely again and the water source will be restored, both for us and the local native animals.

Please describe the dominant existing land use type for the proposed project location.

Current land use is recreational for humans (hiking primarily) and much is incorporated into the animal corridors as well.

Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location

Upstream: animal corridor/recreational hiking

Downstream: animal corridor/recreational hiking

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: Community members of all types are encouraged to help. We also have an outreach program for youth at risk, and non-traditional youth, which we include in our stewardship and educational events. We are also currently

putting together a program for the court system where we would provide opportunities for disadvantaged youths and incorporate them into our stewardship programs to fulfill their community service obligations.

Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	<u>Removal of waste in the riverbeds</u>
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria	
<input checked="" type="checkbox"/> Other (describe): <u>trash and invasives</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information			
<b>Source of Increased Supply or Demand Reduction</b>			
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage	
<input type="checkbox"/> Recycled water	<input checked="" type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: _____			
Annual Yield of Supply (acre-feet): _____			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	_____		
Dry Year	_____		
Wet Year	_____		
<b>Availability by Season (check all that apply):</b>			
<input type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	<u>100%</u>
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 50,000

Upper estimated total capital cost (\$): 100,000

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

\_\_\_\_\_

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

Design Life of Project (years): 5

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

Part 1. Lead Implementing Agency/Organizational Information

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

**Implementing Agency/ Organization / Individual:**

County of Los Angeles Department of Public Works Waterworks Division

**Agency / Organization / Individual Address:**

900 S. Fremont Ave  
Alhambra, CA 91802

**Name:**

TJ Kim

**Title:**

Civil Engineer

**Telephone:**

626-300-3327

**Fax:**

626-300-3385

**Email:**

tjkim@dpw.lacounty.gov

**Website:**

www.lacwaterworks.org

**Project Name:**

Hasley Canyon Road Watermain, Turnout Connection, and Pump Station

**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:** N 34 ° 27' 4.9"

**Project Longitude:** W 118 ° 37' 47.5"

<b>Location Description:</b>	Los Angeles County Waterworks District No. 36, Val Verde Along The Old Road, Hasley Canyon Road, and Industry Dr.
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number

**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 one 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.**

**Currently, the water supply from Castaic Lake Water Agency (CLWA) which includes only two booster pumps and a 12 inch water main are insufficient to handle peak summer demands. If the proposal is not implemented, the deficiency will continue to be a problem for both current and future demands.**

### 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 one 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.\***

-Proposed is a new turnout, pump station, and installation of approximately 6900 feet of 16 inch transmission main.  
- The proposed addition is pending the completion of a new 24 inch transmission main by CLWA and an agreement with Valencia Water Company for turnout location on Sedona Way.  
-The proposed 16 inch transmission main will run south along The Old Road for 1100 ft, then run southwest along Hasley Canyon Rd for 3120 ft. The transmission main will then branch off into two sections. One section will head in a northwest direction on Hasley Canyon Rd for 2120 ft. The other section will continue south for 530 ft to INdustry Dr., where the new transmission main will tie into an existing 12 inch water main.  
-Also proposed is the construction of a new pump station along Hasley Cnayon Rd. The new pump station would comprise of two main pumps and a stand-by pump rates at 800 grm each. The new pump would boost CLWA pressure to District 1598 pressure zone.

**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:**

<ul style="list-style-type: none"><li>• Hasley Canyon Road Watermain, Turnout Connection, and Pump Station Preliminary Concept Report</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>
<ul style="list-style-type: none"><li>•</li></ul>

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>	
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b>:</p> <p>The new transmission lines will add the needed capacity to meet summer peak demands.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:</p> <p>This project's improvement could be measured by its ability to meet peak demands and maintain pressure during emergencies.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<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	Reduced Reliance on Imported Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): <u>Upsized Pipe</u>

<p>Describe how the project contributes toward meeting the objective <b>Increase Water Supply</b>:                      The new transmission lines will add the needed capacity to meet summer peak demands.</p>	
<p>Describe how the project’s contribution toward meeting the <b>Increase Water Supply</b> objective could be measured:                      This projects improvement could be measured by its ability to meet peak demands and maintain pressure during emergencies.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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	Urban Runoff Management
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) <u>New Pipe</u>

<p>Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b>:                      A new pipe is fresh and clean and is not degrading and hording contaminants.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:                      Output water flow testing contaminants could verify (minor) contribution.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

<b>Promote Resource Stewardship</b>			
<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	Floodplain Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Land Use Management
<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): _____

Describe how the project contributes toward meeting the objective **Promote Resource Stewardship**: A greater supply of water is beneficial to a growing community.

---

Describe how the project's contribution toward meeting the **Promote Resource Stewardship** objective could be measured:

---

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> <li>5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk</li> </ol> </li> </ul>	Quantify:
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<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

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	_____
Proposed Construction/Implementation Start Date:	<u>2008</u>
Proposed Construction/Implementation Completion Date	<u>2009</u>
Ready for Construction Bid	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>NI</u>	_____ (mm/dd/yyyy)
Land Acquisition/Easements	<u>NI</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>NI</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>NI</u>	_____ (mm/dd/yyyy)
Permits	<u>NI</u>	_____ (mm/dd/yyyy)
Construction Drawings	<u>NI</u>	_____ (mm/dd/yyyy)
Funding	<u>NI</u>	_____ (mm/dd/yyyy)

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

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Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

<p>The new transmission line, turnout connection, and pump station will provide enough capacity and pressure to meet peak summer demands and fire demands.</p>
--

**Please describe the dominant existing land use type for the proposed project location.**

<p>The pipeline will run underneath the existing Haysley Canyon Road, The Old Road, and Industry Drive. The pump station will be located along Hasley Canyon Road.</p>
--

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream:
Downstream:

**Does the project address any known environmental justice issues?**

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure
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**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
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**Does the project include disadvantaged community participation?**

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure
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**If yes, please identify the group or organization: \_\_\_\_\_**

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	_____
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input type="checkbox"/> Other (describe): _____	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

<b>Enhanced Water Supply or Demand Reduction Benefit Information</b>			
<b>Source of Increased Supply or Demand Reduction</b>			
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage	
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input checked="" type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: _____			
Annual Yield of Supply (acre-feet): _____			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	_____		
Dry Year	_____		
Wet Year	_____		
<b>Availability by Season (check all that apply):</b>			
<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 4181625

Upper estimated total capital cost (\$): 4181625

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

Annual Operation and Maintenance  
Cost (\$): \_\_\_\_\_

Does your organization have a mechanism or  
other means to cover O&M for the life of project?  
Please describe: \_\_\_\_\_

Design Life of Project (years): 20

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost?  
-Design

### Identify proposed funding sources:

- Grants
- Capital Improvements Budget
- 
- 

What percent matching funding will be provided? (at least 10% is required):

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	No

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

Part 1. Lead Implementing Agency/Organizational Information

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

**Implementing Agency/ Organization / Individual:**

County of Los Angeles Department of Public Works Waterworks Division

**Agency / Organization / Individual Address:**

900 S. Fremont Ave  
Alhambra, CA 91802

**Name:**

TJ Kim

**Title:**

Civil Engineer

**Telephone:**

626-300-3327

**Fax:**

626-300-3385

**Email:**

tjkim@dpw.lacounty.gov

**Website:**

www.lacwaterworks.org

**Project Name:**

Replacement of 8-inch Water Main Along Del Valle Road

**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:** N 34 ° 27' 26.0"

**Project Longitude:** W 118 ° 38' 26.5"

<b>Location Description:</b>	Los Angeles County Waterworks District No. 36, Val Verde Along Del Valle Road from Hasley Canyon Road to Chiquito Canyon Road
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number

**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 one 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 existing 8 inch water main has suffered from many leaks in the past and cannot sustain higher pressures to pump more flow to Cuyama Tanks. In its current state the pipeline would continue to decay, more leaks will present themselves, and the current water capacity, both volume and pressure, will continue to be deficient.**

### 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 one 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 is to replace 6,900 linear feet of aging 8 inch water main along Del Valle Road from Hasley Canyon Road to Chiquito Canyon Road with a 12 inch pipeline.  
-Since the project is over one mile and will provide greater capacity a Negative Declaration will likely be required for the project.  
-Some Developers have been told that if their project goes forward, they will need to reconstruct the portions of this pipeline that they will be benefiting from.

**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:**

• Project Concept for Replacement of 8-inch Water Main Along Del Valle Road
•
•

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>	
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b>:</p> <p>This projects new 12 inch water main that replaces the aging 8 inch pipeline will prevent continued maintance needed by an old system and will make the system capable to utilize to Cuyama Tanks.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:</p> <p>This projects improvement could be measured by its pumping to the Cuyama Tanks and could be measured by its lack of needed repairs.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>	
<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	Reduced Reliance on Imported Water
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Other (Please State): <u>Upsized Pipe for Greater Flow</u>

Describe how the project contributes toward meeting the objective **Increase Water Supply**:  
 This project entails replacing an 8 inch water main with a 12 inch pipeline. This increase doubles the capacity of the pipeline. And, the new pipe will be able to sustain higher pressures.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured:  
 Pipeline pressures and flow rates could be quantitatively measured.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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	Urban Runoff Management
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State) <u>New Pipe Replacing Degrading Old Pipe</u>

Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b> : A new pipe is clean and free of the degradation that exists inside old pipes.	
Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured: Testing	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

<b>Promote Resource Stewardship</b>			
<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	Floodplain Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Land Use Management
<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): _____

Describe how the project contributes toward meeting the objective **Promote Resource Stewardship**: Greater supply benefits growing community.

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Describe how the project's contribution toward meeting the **Promote Resource Stewardship** objective could be measured:

---

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> <li>5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk</li> </ol> </li> </ul>	Quantify:
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<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

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	_____
Proposed Construction/Implementation Start Date:	<u>2010</u>
Proposed Construction/Implementation Completion Date	<u>2010</u>
Ready for Construction Bid	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>NI</u>	_____ (mm/dd/yyyy)
Land Acquisition/Easements	<u>NI</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>NI</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>NI</u>	_____ (mm/dd/yyyy)
Permits	<u>NI</u>	_____ (mm/dd/yyyy)
Construction Drawings	<u>NI</u>	_____ (mm/dd/yyyy)
Funding	<u>NI</u>	_____ (mm/dd/yyyy)

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

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Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

<b>With a new, larger water main, both water supply and operational efficiency will be greatly promoted as the pipe can contain a greater capacity of high pressured potable water without the issue of leakage or instability that arise from aging pipelines.</b>          
---

**Please describe the dominant existing land use type for the proposed project location.**

<b>The pipeline will run underneath the existing Del Valle Road.</b>
--

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream:
Downstream:

**Does the project address any known environmental justice issues?**

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure
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**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
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**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 provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	_____
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input checked="" type="checkbox"/> Other (describe): <u>Old pipe degradation and contaminant accumulation</u>	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information			
<b>Source of Increased Supply or Demand Reduction</b>			
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage	
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input checked="" type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: <u>Larger water main</u>			
Annual Yield of Supply (acre-feet): _____			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	_____		
Dry Year	_____		
Wet Year	_____		
<b>Availability by Season (check all that apply):</b>			
<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 1385000

Upper estimated total capital cost (\$): 1385000

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

Annual Operation and Maintenance  
Cost (\$): \_\_\_\_\_

Does your organization have a mechanism or  
other means to cover O&M for the life of project?  
Please describe: \_\_\_\_\_

Design Life of Project (years): 20

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? No

### Identify proposed funding sources:

- Grants
- Capital Improvement Budget
- 
- 

What percent matching funding will be provided? (at least 10% is required):

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

Part 1. Lead Implementing Agency/Organizational Information

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

**Implementing Agency/ Organization / Individual:**

County of Los Angeles Department of Public Works Waterworks Division

**Agency / Organization / Individual Address:**

900 S. Fremont Ave  
Alhambra, CA 91802

**Name:**

TJ Kim

**Title:**

Civil Engineer

**Telephone:**

626-300-3327

**Fax:**

626-300-3385

**Email:**

tjkim@dpw.lacounty.gov

**Website:**

www.lacwaterworks.org

**Project Name:**

Crown Valley Water Main Replacement

**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:** N 34 ° 29' 5.3"

**Project Longitude:** W 118 ° 11' 53.0"

<b>Location Description:</b>	Los Angeles County Waterworks District No. 37, Acton From 33025 N. Crown Valley to intsection with Soledad Canyon.
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number

**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 one 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.**

**Currently, the Crown Valley Road pump station is pumping water through a 12 inch steel water main receiving water from wells 37-1, 37-3, 37-4 and (in the future) from proposed well 37-5. The water main is the only source to supply water to the north portion of the district and is currently too small to handle the amount of water supply from the aforementioned sources. Without a new line, the system will continue to provide an insufficient supply line to the north portion of the district and be incapable of handling the amount of water supplied by the wells.**

### 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 one 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 proposes to install approximately 7000 linear feet of 16 inch steel water main to run parallel to the existing water main. The proposed new line would begin with approximately 300 feet along Corey Avenue, connected from Soledad Canyon Road to Crown Valley Road. The main would extend approximately 6700 feet northward along Crown Valley Road and Connect to the 33025 N. Crown Valley Pump Station.

**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:**

• Crown Valley Water Main Concept Sheet
•
•

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>			
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State): _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b>:</p> <p>The new transmission lines will add the needed capacity to handle the supply from Acton wells 37-1, 37-3, 37-4, and future 37-5 and not inhibit their supply flow.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:</p> <p>This projects improvement could be measured by the quantity of water that is supplied to the north portion of the district that previously was not being provided.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<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	Reduced Reliance on Imported Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): <u>Additional Pipe line</u>

Describe how the project contributes toward meeting the objective **Increase Water Supply**:  
 --The new water main will provide additional capacity to the system in the provision of water from wells 37-1, 37-3, 37-4, and future 37-5 to the north portion of the district.

Describe how the project's contribution toward meeting the **Increase Water Supply** objective could be measured:  
 This projects improvement could be measured by its pressure and capacity provided to the north portion of the district beyond what was previously available.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>			
<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	Urban Runoff Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State) _____

Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b> :	
Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

<b>Promote Resource Stewardship</b>			
<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	Floodplain Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recharge Areas Protection
<input type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Land Use Management
<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): _____

Describe how the project contributes toward meeting the objective **Promote Resource Stewardship**: Greater supply benefits growing region.

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Describe how the project's contribution toward meeting the **Promote Resource Stewardship** objective could be measured:

---

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> <li>5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk</li> </ol> </li> </ul>	Quantify:
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<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

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	_____
Proposed Construction/Implementation Start Date:	<u>2009</u>
Proposed Construction/Implementation Completion Date	<u>2010</u>
Ready for Construction Bid	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>NI</u>	_____ (mm/dd/yyyy)
Land Acquisition/ Easements	<u>NI</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>NI</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>NI</u>	_____ (mm/dd/yyyy)
Permits	<u>NI</u>	_____ (mm/dd/yyyy)
Construction Drawings	<u>NI</u>	_____ (mm/dd/yyyy)
Funding	<u>NI</u>	_____ (mm/dd/yyyy)

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

--

Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

The new water main will provide an additional supply of water from wells 37-1, 37-3, 37-4, and future 37-5 in Acton to the north portion of district where the current water main can not handle the supply.
--

**Please describe the dominant existing land use type for the proposed project location.**

The pipeline will run underneath the existing Crown Valley Road.
--

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream:
Downstream:

**Does the project address any known environmental justice issues?**

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure
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**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
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**Does the project include disadvantaged community participation?**

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure
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**If yes, please identify the group or organization: \_\_\_\_\_**

**Please provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	_____
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input type="checkbox"/> Other (describe): _____	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information			
<b>Source of Increased Supply or Demand Reduction</b>			
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage	
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input checked="" type="checkbox"/> Transfer	<input type="checkbox"/> Other (describe): _____		
Type of enhanced supply or demand reduction: <u>Additional Pipeline</u>			
Annual Yield of Supply (acre-feet): _____			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	_____		
Dry Year	_____		
Wet Year	_____		
<b>Availability by Season (check all that apply):</b>			
<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 2579680

Upper estimated total capital cost (\$): 2579680

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

Annual Operation and Maintenance  
Cost (\$): \_\_\_\_\_

Does your organization have a mechanism or other means to cover O&M for the life of project?  
Please describe: \_\_\_\_\_

Design Life of Project (years): 20

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost? No

### Identify proposed funding sources:

- Grants
- Capital Improvements Project
- 
- 

What percent matching funding will be provided? (at least 10% is required):

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	

Upper Santa Clara River Integrated Regional Water Management Plan  
*Project Identification – Long Form (Revised September 2007)*

To the extent possible this form should be electronically filled out and e-mailed BY OCTOBER 19, 2007 to: [MeredithClement@KennedyJenks.com](mailto:MeredithClement@KennedyJenks.com).

Part 1. Lead Implementing Agency/Organizational Information

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

**Implementing Agency/ Organization / Individual:**

County of Los Angeles Department of Public Works Waterworks Division

**Agency / Organization / Individual Address:**

900 S. Fremont Ave  
Alhambra, CA 91802

**Name:**

TJ Kim

**Title:**

Civil Engineer

**Telephone:**

626-300-3327

**Fax:**

626-300-3385

**Email:**

tjkim@dpw.lacounty.gov

**Website:**

www.lacwaterworks.org

**Project Name:**

North Tank Pump Station

**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:** N 34 ° 28' 32.0"

**Project Longitude:** W 118 ° 10' 16.6"

<b>Location Description:</b>	Los Angeles County Waterworks District No. 37, Acton Intersection of Soledad Canyon Road and Aliso Canyon Road
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**Possible Partnering and/or Cooperating Agencies:**

Agency Name	Address	Contact Name/Phone Number

**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 one 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 Crown Valley Pump station is over demanded as its main inlet is undersized for the current flow.

### 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 one 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 constructing a new pump station newar the intersection of Aliso Canyon and Soledad Canyon to reduce he demand on the Crown Valley pump station. The main inlet into the Crown Valley pump station is undersized for the current flow. In addition to a new pump station, a segment of pipe would have to be constructed from the pump station along Soledad Canyon Road to an intersection point with the 3483 pressure zone to direct the flow to the North Tank.

**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:**

• Concept Report for North Tank Pump Station
•
•

**Please indicate California Water Plan strategies addressed by the proposed project and provide written descriptions where indicated. (Check all that apply)**

<b>Reduce Water Demand</b>			
<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
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Other (Please State):_____

Describe how the project contributes toward meeting the objective <b>Reduce Water Demand</b> :	
Describe how the project's contribution toward meeting the <b>Reduce Water Demand</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Replace up to 4,300 outdated water meters per year.</li> </ul>	Quantify:

<b>Improve Operational Efficiency and Transfers</b>	
<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary <input type="checkbox"/> NA	Conveyance
<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	Transfers
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State): _____

<p>Describe how the project contributes toward meeting the objective <b>Improve Operational Efficiency</b>:</p> <p>The new pump station will relieve the Crown Valley pump station from being overloaded and thus improves the efficiency of the system.</p>	
<p>Describe how the project's contribution toward meeting the <b>Improve Operational Efficiency</b> could be measured:</p> <p>This projects improvement could be measured by evaluating the flow pumped through the new station, relieved from the old station.</p>	
<p>Please <b>quantify</b> to what extent the project would meet the objective measures of:</p>	
<ul style="list-style-type: none"> <li>Perform electrical audit on all wholesale and purveyor water facilities once every five years.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.</li> </ul>	Quantify:

<b>Increase Water Supply</b>			
<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	Reduced Reliance on Imported Water
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Other (Please State): <u>Additional Pump Station</u>

Describe how the project contributes toward meeting the objective **Increase Water Supply**:  
 --The new pump station will provide additional flow capacity, relieved from the Crown Valley pump station and directs it the North Tank.

Describe how the project’s contribution toward meeting the **Increase Water Supply** objective could be measured:  
 This projects improvement could be measured by the quantity of water supplied from the new pump station in excess of what was previously supplied by only Crown Valley pump station.

Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Increase use of recycled water by up to 17,400 afy by 2030, consistent with health and environmental requirements.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 afy by year 2010 and 11,000 afy by year 2030.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Increase water supply as necessary to meet anticipated peak demands at buildout in the LA County Waterworks District #37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd).</li> </ul>	Quantify:

<b>Improve Water Quality</b>	
<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	Urban Runoff Management
<input type="checkbox"/> Primary <input type="checkbox"/> Secondary <input checked="" type="checkbox"/> NA	Other (Please State) _____

Describe how the project contributes toward meeting the objective <b>Improve Water Quality</b> :	
Describe how the project's contribution toward meeting the <b>Improve Water Quality</b> objective could be measured:	
Please <b>quantify</b> to what extent the project would meet the objective measures of:	
<ul style="list-style-type: none"> <li>Meet all drinking water standards.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Prevent migration of contaminant plumes.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Comply with existing and future Total Maximum Daily Loads.</li> </ul>	Quantify:

<b>Promote Resource Stewardship</b>			
<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	Floodplain Management
<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input checked="" type="checkbox"/> NA	Recharge Areas Protection
<input checked="" type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> NA	Urban Land Use Management
<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): _____

Describe how the project contributes toward meeting the objective **Promote Resource Stewardship**: Greater supply promotes growing region.

---

Describe how the project's contribution toward meeting the **Promote Resource Stewardship** objective could be measured:

---

Please **quantify** to what extent the project would meet the objective measures of:

<ul style="list-style-type: none"> <li>• Remove the following non-native species from the Santa Clara River and its 500-year floodplain.                             <ol style="list-style-type: none"> <li>1. Santa Clara River-Angeles Forest Highway to Acton, 2.5 acres tamarisk</li> <li>2. Santa Clara River-Acton to Spring Canyon, 111 acres arundo, 30 acres tamarisk</li> <li>3. Santa Clara River-Spring Canyon to Sand Canyon, 70 acres arundo, 21 acres tamarisk</li> <li>4. Santa Clara River-Sand Canyon to Bouquet Canyon, 98 acres, 202 acres tamarisk</li> <li>5. Santa Clara River-Bouquet Canyon to Ventura County Line, 464 acres arundo, 190 acres tamarisk</li> </ol> </li> </ul>	Quantify:
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<ul style="list-style-type: none"> <li>Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.</li> </ul>	Quantify:
<ul style="list-style-type: none"> <li>Purchase private property from willing sellers in the 100-year floodplain.</li> </ul>	Quantify:

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	_____
Proposed Construction/Implementation Start Date:	<u>2012</u>
Proposed Construction/Implementation Completion Date	<u>2012</u>
Ready for Construction Bid	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Item	Status (e.g., not initiated, in process, complete, not applicable)	Date Available
Conceptual Plans	<u>NI</u>	_____ (mm/dd/yyyy)
Land Acquisition/Easements	<u>NI</u>	_____ (mm/dd/yyyy)
Preliminary Plans	<u>NI</u>	_____ (mm/dd/yyyy)
CEQA/NEPA	<u>NI</u>	_____ (mm/dd/yyyy)
Permits	<u>NI</u>	_____ (mm/dd/yyyy)
Construction Drawings	<u>NI</u>	_____ (mm/dd/yyyy)
Funding	<u>NI</u>	_____ (mm/dd/yyyy)

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

--

Part 4. Project Benefits

**Please provide a one paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits.**

The new pump station will relieve the Crown Valley pump station from being overloaded and will provide additional capacity to the North Tank and service to the growing Acton region.
---

**Please describe the dominant existing land use type for the proposed project location.**

The pump station location falls in a sparsely populated residential area.
---

**Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location**

Upstream:
Downstream:

**Does the project address any known environmental justice issues?**

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure
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**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 provide the following project benefit information for all applicable components of the proposed project. Benefit categories include things such as water quality / flood management, water supply, and resource stewardship. PLEASE ATTEMPT TO SUPPLY ALL INFORMATION RELEVANT TO YOUR PROJECT. THIS INFORMATION WILL BE USED TO ANALYZE AND ASSESS PROJECT FOR FUTURE FUNDING.**

**WATER QUALITY BENEFITS / FLOOD MANAGEMENT BENEFITS**

<b>Water Quality Benefit Information</b>	
Treatment technologies	_____
Design operational treatment capacity (million gallons/day)	_____
Targeted Contaminants (Check all that apply):	
<input type="checkbox"/> Chloride <input type="checkbox"/> Nitrogen Compounds <input type="checkbox"/> Coliform Bacteria <input type="checkbox"/> Other (describe): _____	
<b>Flood Management Benefit Information</b>	
Maximum volume of temporary storage of storm runoff (acre-feet)	_____
Maximum increased conveyance capacity (cubic feet/second)	_____
Estimated area benefiting from flood damage reduction (acres)	_____
Estimated level of flood protection resulting from project implementation	_____
Estimated annual value of flood damage reduction provided by project (\$/year)	_____
Acreage required for project implementation	_____

**WATER SUPPLY BENEFITS**

Project information provided will help to quantify water supply benefits from enhanced local water supply or reduced potable water demand.

Enhanced Water Supply or Demand Reduction Benefit Information			
<b>Source of Increased Supply or Demand Reduction</b>			
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Groundwater treatment	<input type="checkbox"/> Increased surface water storage	
<input type="checkbox"/> Recycled water	<input type="checkbox"/> Conservation/ water use efficiency	<input type="checkbox"/> Ocean desalination	
<input type="checkbox"/> Transfer	<input checked="" type="checkbox"/> Other (describe): <u>Additional pump station</u>		
Type of enhanced supply or demand reduction: _____			
Annual Yield of Supply (acre-feet): _____			
<b>Availability by Water-Year Type (acre-feet per year):</b>			
Average Year	_____		
Dry Year	_____		
Wet Year	_____		
<b>Availability by Season (check all that apply):</b>			
<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input checked="" type="checkbox"/> Winter
<b>Does the project have the potential to displace demands on the Bay/Delta/Estuary?</b>			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure	

**For projects that include detention and groundwater recharge, please complete the following:**

How many acres of land drain into this detention basin? (acres)	_____
Detention Basin area (acres)	_____
Detention basin max. operational depth (ft.)	_____
% of basin covered by wetlands	_____
Soil type	_____
If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year)	_____
Estimated basin annual inflow (acre-feet/year)	_____
Estimated basin annual outflow (acre-feet/year)	_____

**RESOURCE STEWARDSHIP BENEFITS**

**Project information provided will help to quantify the benefits associated with projects related to resource stewardship and land management.**

Non-treatment wetland area (acres)	_____
Treatment wetland area (acres)	_____
Riparian habitat area (acres)	_____
Non-developed open space area (acres)	_____
Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:	
Single Sport Athletics	_____
Multiple Sport Athletics Acres	_____
Other Recreation Acres	_____
Pedestrian Trail Acres	_____
Equestrian Trail Acres	_____
Other Passive Activity	_____
Other Acres (describe)	_____
Description	_____
Total Project area (acres)	_____

## Part 5. Project Cost Estimate

**Project cost information is needed to assist in comparing benefits and cost. 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 (\$): 2000000

Upper estimated total capital cost (\$): 2000000

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):  
700000

Annual Operation and Maintenance  
Cost (\$): \_\_\_\_\_

Does your organization have a mechanism or  
other means to cover O&M for the life of project?  
Please describe: \_\_\_\_\_

Design Life of Project (years): 20

By June 2008, will there be enough information on the project to identify specific work items (e.g., pilot testing, construction) and their estimated cost?

### Identify proposed funding sources:

- Grants
- Capital Improvements Budget
- 
- 

What percent matching funding will be provided? (at least 10% is required):

Part 6. Other Topics

<b>Is the project sponsor eligible to receive grant funds? (please check one of the following):</b>	
<input checked="" type="checkbox"/> Public Agency	<input type="checkbox"/> 501(c)3, 501(c)4, or 501(c)5 Non-Profit

<b>Can the project be completed during the life of a grant? (~3.5 years)</b>	<input checked="" type="checkbox"/> Yes
	<input type="checkbox"/> No

<b>Name the applicable Urban Water Management Plan for the area where the project will be implemented:</b>	
<b>Does the project affect or utilize groundwater? If yes, please name the applicable AB3030 Groundwater Management Plan for the area where the project would affect or utilize groundwater (e.g., the CLWA area is covered by the Groundwater Management Plan for the Santa Clara River Valley Groundwater Basin, East Subbasin).</b>	

**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, 1000 Hill Road, Ventura, CA 93003 OR electronically filled out and e-mailed **BY MAY 22, 2007** to: MeredithClement@kennedyjenks.com.

General Information				
Project Name:	Santa Clara River Floodplain Acquisition			
Project Sponsor:	SCOPE			
If Joint Project, Other Partners:	We would hope to partner with County Flood Control and/or the Nature Conservancy			
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
Lynne Plambeck/Cam Noltemeyer	661 255-6899			
Project Description				
Project Description (1 -2 sentences):				
Acquisition of available Santa Clara River floodplain lots east of Bouquet Cyn Rd. that conform to the Nature Conservancy's report on habitat acquisition priorities.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
This project would provide flood control by leaving the flood plain in its natural state so that flood waters can spread out. This concept has been used extensively in Northern California (for example, the Yolo by-pass on the Sacramento River). It would provide habitat for wildlife. It would accomodate a trail, providing recreational oppurtunities. It would provide water quality benefits by using natural bioremediation to clean urban run-off before it reaches the river. If the acquisition is located in a suitable site, it could also enhance ground water re-charge, increasing water supply in this area of the river.				
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.):				
Any available floodplain lots of the Santa Clara River (not the river itself) in the eastern reaches from Bouquet Canyon Rd. to Aqua Dulce that have been identified as acquisition habitat by the Nature Conservancy Report.				
Latitude/Longitude - info available at:	<a href="http://geocoder.us/">http://geocoder.us/</a>	Lat:	Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	\$2-4 million	<\$100K <input type="checkbox"/>	\$100K - \$1M <input 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:	No construction needed unless a trail is planned in the area			
Project Benefits				
Water Supply: <i>New Supply Created (AFY)</i> (Check one)	<input type="checkbox"/>	1-100 AF	<input type="checkbox"/>	100-1000AF
above			<input type="checkbox"/>	1000+ AF
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> )				

See above

## 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.

### Statewide Priorities

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues
- Implementation of Total Maximum Daily Loads that are established or under development
- Implementation of Regional Board (RWQCB) Watershed Management Initiative Chapters, plans and policies
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan
- Assist in meeting Delta Water Quality Objectives; IRWM Grant Program Guidelines 6
- Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan
- Address environmental justice concerns
- Assist in achieving one or more goals of the CALFED Bay-Delta Program

### Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities

### CA Water Plan - Water Management Strategies

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

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

**Project Identification Short Form**

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General Information				
Project Name:	Upper Santa Clara River Recycled Water Sanitation Plant Expansion			
Project Sponsor:	SCOPE (project submitter, not sponsor)			
If Joint Project, Other Partners:	Proposed - Sanitation District, County Flood Control, SMMC, Water Agencies			
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
Lynne Plambeck/Cam Noltemeyer	661 255-6899			
Project Description				
Project Description (1-2 sentences):				
Build a small tertiary treatment sanitation facility in the Sand Canyon, upper Santa Clara River Watershed area to treat effluent from housing in the upper watershed and use the recycled water to re-charge the upper watershed with recycled water. Effluent discharge would be to a bioremediation area, thus increasing water quality and providing habitat and re-charge to the area.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
This project would provide a means of reducing the effluent flow into the Valencia treatment plant by providing a plant in the upper watershed. It would provide a new water source for this area, encourage habitat restoration, and reduce possible flooding west of I-5 that may occur in a high rainfall event that is unavoidably augmented by substantial effluent released from the Valencia treatment plant.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
The project could be built instead of the next stage expansion of the Valencia treatment plant				
Project Location				
Descriptive (Description of property location etc.):				
Santa Clara River Floodplain North of Sand Canyon				
Latitude/Longitude - info available at: <a href="http://geocoder.us/">http://geocoder.us/</a>		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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	100-1000AF
	<input type="checkbox"/>		<input checked="" type="checkbox"/>	1000+ AF
Water Quality	Area Drained: and/or		Volume Treated:	Same
Public Access, Open Space, Habitat, Recreation ( <i>acres created/restored</i> ):				
Other: ( <i>Describe X amount of benefit</i> )				
This project would provide a means of reducing the effluent flow into the Valencia treatment plant by providing a plant in the upper watershed. It would provide a new water source for this area, encourage habitat restoration, and reduce possible flooding				

## 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.

### Statewide Priorities

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues
- Implementation of Total Maximum Daily Loads that are established or under development
- Implementation of Regional Board (RWQCB) Watershed Management Initiative Chapters, plans and policies
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan
- Assist in meeting Delta Water Quality Objectives; IRWM Grant Program Guidelines 6
- Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan
- Address environmental justice concerns
- Assist in achieving one or more goals of the CALFED Bay-Delta Program (regional self-sufficiency)

### Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities

### CA Water Plan - Water Management Strategies

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