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## Upper Santa Margarita Watershed IRWM Plan Update

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### 2015 PROJECT NOMINATION FORM

The Project Nomination Form is for projects that will meet the goals, objectives and priorities of the 2014 USMW IRWM Plan Update.

The Project Nomination Form provides the essential information of a proposed project to be considered as either a *conceptual project* or an *IRWM Plan project*, defined as follows:

- ***Conceptual projects*** are implementation projects that are still in the planning stages and not ready to proceed, but meet the goals and objectives of the 2014 USMW IRWM Plan. *To have your project be considered as a conceptual project* for further development as part of the USMW IRWM Program, you must be able to complete at least the first portion of this form highlighted in orange.

- ***IRWM Plan projects*** are implementation projects that meet the goals, objectives and priorities of the 2014 USMW IRWM Plan and have been developed sufficiently to meet specific criteria provided by the California Department of Water Resources. *To have your project considered as an IRWM Plan project*, you must be able to complete all questions in this form, in both the sections highlighted in orange and blue.

*Complete the form and return with supporting attachments, as needed, to the USMW IRWM Program Manager at [irwm@ranchowater.com](mailto:irwm@ranchowater.com).*

*If you prefer a Word version of this PNF or have questions, contact Denise Landstedt at Rancho California Water District, [irwm@ranchowater.com](mailto:irwm@ranchowater.com) or (951) 296-6916*

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Newly Submitted Project

Previously Submitted Project

**1. General Project Information (Required for all projects)**

a. Project Title

b. Potential Project Benefits (Check all that specifically apply)

Increase diversification of water supply portfolio

Maximize groundwater potential

Protect and improve local surface water quality

Promote integrated flood management

Protect, restore and enhance aquatic/riparian habitat

Promote economic, social, land use and environmental sustainability

c. Project Type

Construction

Program

Study/Investigation

d. Project Description

e. Project Status, Timeline, and Readiness to Proceed

*Include anticipated start and completion dates; status of planning, design, or construction; status of environmental documentation; status of permitting – local or regional, status of approval to implement the project, other items to demonstrate readiness to proceed.*

f. Project Location

g. Purpose and Need



**2. Project Sponsor/Lead Agency Information (Required for all projects)**

a. Agency/Organization Name

b. Contact Person (name and title)

c. Email

d. Phone

e. Address

f. Adopted the USMW IRWM Plan: Y/N

g. Urban water supplier: Y/N

i. If yes, status of 2010 Urban Water Management Plan:

ii. If yes, status of AB1420 compliance:

**3. Project Partners (Required for all projects - note if not applicable)**

a. Agency/Organization Name:

b. Contact Person (name and title):

c. Email:

d. Phone:



e. **Cell Phone (optional):**

f. **Address:**

g. **Project Partner Type:**

- Collaborative Planning
- Direct Funding
- In-Kind Services
- Co-Operator/Co-Manager

#### 4. Project Goals and Objectives (Required for inclusion in the IRWM Plan)

a. List the Project's Goals and Objectives:

- 1.
- 2.
- 3.

b. Check which IRWM Plan Goals and Objectives the project meets :

*Goal 1: Increase diversification of water supply portfolio*

Reduce regional potable water consumption.

Increase local supply development.

*Goal 2: Maximize groundwater potential*

Improve quality and ability to access and increase groundwater supply.

Increase knowledge of groundwater supply potential.

*Goal 3: Protect and improve local surface water quality*

Reduce controllable pollutant sources to 303(d) listed receiving waters.

*Goal 4: Promote integrated flood management*



- Enhance regional flood control by implementing multiple benefit
- Reduce municipal and private property damage risk.

*Goal 5: Protect, restore and enhance aquatic/riparian habitat*

- Protect and create aquatic/riparian habitat.
- Enhance riparian corridors on existing land use.

*Goal 6: Promote economic, social, land use and environmental sustainability*

- Support water resources projects that positively impact DACs.
- Improve recreation opportunities and open space through multiple benefit projects.
- Adapt to and mitigate against climate change by promoting adaptation strategies and reducing water related greenhouse gas emissions.

c. Check which California Water Plan Resource Management Strategies the project meets:

<b>Reduce water demand</b>	<input type="checkbox"/> Agricultural water use efficiency	<input type="checkbox"/> Conveyance - Regional/local
	<input type="checkbox"/> Urban water use efficiency	<input type="checkbox"/> System reoperation
	<input type="checkbox"/> Improve operational efficiency and transfers	<input type="checkbox"/> Water transfers
	<input type="checkbox"/> Conveyance - Delta	
<b>Increase water supply</b>	<input type="checkbox"/> Conjunctive Management & Groundwater	<input type="checkbox"/> Recycled municipal water
	<input type="checkbox"/> Desalination	<input type="checkbox"/> Surface storage - CALFED
	<input type="checkbox"/> Precipitation enhancement	<input type="checkbox"/> Surface storage - Regional/Local



<b>Improve water quality</b>	<input type="checkbox"/> Groundwater/Aquifer Remediation	<input type="checkbox"/> Pollution prevention
	<input type="checkbox"/> Surface storage - Regional/Local	<input type="checkbox"/> Salt and Salinity Management
	<input type="checkbox"/> Drinking water treatment and distribution	<input type="checkbox"/> Urban runoff management
<b>Practice Resources Stewardship</b>	<input type="checkbox"/> Agricultural lands stewardship	<input type="checkbox"/> Land use planning and management
	<input type="checkbox"/> Economic incentives	<input type="checkbox"/> Recharge areas protection
	<input type="checkbox"/> Ecosystem restoration	<input type="checkbox"/> Water-dependent recreation
	<input type="checkbox"/> Forest management	<input type="checkbox"/> Watershed management
<b>Improve Flood Management</b>	<input type="checkbox"/> Flood risk management	
<b>Other Strategies</b>	<input type="checkbox"/> Forest management	<input type="checkbox"/> Irrigated land retirement
	<input type="checkbox"/> Dewvaporation or atmospheric pressure desalination	<input type="checkbox"/> Rainfed agriculture
	<input type="checkbox"/> Fog collection	<input type="checkbox"/> Waterbag transport/storage technology

d. Check which Proposition 84 project elements the project meets:

- Water supply reliability, water conservation, and water use efficiency
- Stormwater capture, storage, clean-up, treatment, and management
- Removal of invasive, non-native species, the creation and enhancement of wetlands, and the acquisition, protection, and restoration of open space and watershed lands
- Non-point source pollution reduction, management, and monitoring
- Groundwater recharge and management projects



- Contaminant and salt removal through reclamation, desalting, and other treatment technologies and conveyance of reclaimed water for distribution to users
- Water banking, exchange, reclamation, and improvement of water quality
- Planning and implementation of multipurpose flood management and programs
- Watershed protection and management
- Drinking water treatment and distribution
- Ecosystem and fisheries restoration and protection

e. Check which sustainability features are part of the project:

- Measures to reduce greenhouse gas (GHG) emissions
- Measures to increase energy efficiency
- Measures to adapt to potential effects of climate change

## 5. Project Benefits and Benefit Accrual Locations (Required for inclusion in the IRWM Plan)

a. Project Benefits: Provide **quantification** of the benefits which the project will provide. *Please include units for all quantities.*

### Goal: Increase diversification of water supply portfolio

- Average annual yield of water supply reliability, conservation and water use efficiency
- Average annual yield of groundwater pumping
- Average annual yield of stormwater capture
- Average annual yield of recycled water
- Average annual yield of desalination
- Other (please describe):

### Goal: Maximize groundwater potential

- Capacity of groundwater treatment



Capacity of recharge facility

Other (please describe):

**Goal: Protect and improve local surface water quality**

Capacity of stormwater treatment project

Other (please describe):

**Goal: Promote integrated flood management**

Area that will benefit from improved flood management

Estimated annual value of flood damage reduction

Other (please describe):

**Goal: Protect, restore and enhance aquatic/riparian habitat**

Area of protected aquatic/riparian habitat

Area of enhanced aquatic/riparian habitat

Area of created aquatic/riparian habitat

Other (please describe):

**Goal: Promote economic, social, land use and environmental sustainability**

DAC population positively impacted

Area of recreation and/or open space improved

Estimated decrease in greenhouse gas emissions

Other (please describe):

**b. Location of Project Benefits**

Latitude

Longitude

Provide description of location of project benefits:



## 6. Integration and Regionality Elements of Project (Required for inclusion in the IRWM Plan)

*Identify any integration elements of your proposed project; this includes synergies or linkages with other projects in the region that result in added value or require coordinated implementation or operation (see definition below).*

**Integration Defined:** *Integrated project solutions ensure a greater level of benefits for the region and make project more viable within an IRWM grant program. Integration includes:*

- *Partnerships – Establishing partnerships creates efficiencies through sharing data, funds, resources and infrastructure.*
- *Benefits – Multiplying benefits provide opportunities for reaching multiple regional goals.*
- *Geography – Implementing watershed-wide or regional-scale projects can benefit from economies of scale and address multiple watershed functions to resolve conflicts between uses.*

## 7. Disadvantage Communities (DAC) and Native American Tribal Communities (NATC) (Required for inclusion in the IRWM Plan)

- a. Project provides benefits to DAC
- b. Project provides benefits to NATC
- c. Describe the benefits to the DAC and/or NATC
- d. Describe any Environmental Justice Concerns the project addresses:  
*Environmental Justice definition: "the fair treatment and meaningful involvement of all people regardless of race, color, sex, national origin, or income with respect to the development, implementation and enforcement of environmental laws, regulations, and policies."*



## 8. Project Cost and Funding (Required for inclusion in the IRWM Plan)

- a. Fill in project cost and funding information

Funding	Amount (\$)
<b>Total Project Cost</b>	
<b>Anticipated Funding</b>	
<b>Match Contribution</b>	
<b>Local</b>	
<b>Federal</b>	
<b>In-Kind</b>	
<b>Other</b>	

- b. Explain source and commitment of match funding
- c. Estimated annual operations and maintenance (O&M) costs
- d. Explain sources and certainty of O&M funding
- e. Has an economic or cost/benefit analysis been conducted for the project?  
If so, please describe the results.

## 9. Other Project Information Not Discussed Elsewhere in this Nomination Form



## Upper Santa Margarita Watershed IRWM Plan Update

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### 2013 PROJECT NOMINATION FORM

The Project Nomination Form is for projects that will meet the goals, objectives and priorities of the 2014 USMW IRWM Plan Update.

The Project Nomination Form provides the essential information of a proposed project to be considered as either a *conceptual project* or an *IRWM Plan project*, defined as follows:

- *Conceptual projects* are implementation projects that are still in the planning stages and not ready to proceed, but meet the goals and objectives of the 2014 USMW IRWM Plan. *To have your project be considered as conceptual project* for further development as part of the USMW IRWM Program, you must be able to complete at least the first portion of this form highlighted in orange.
- *IRWM Plan projects* are implementation projects that meet the goals, objectives and priorities of the 2014 USMW IRWM Plan and have been developed sufficiently to meet specific criteria provided by the California Department of Water Resources. *To have your project considered as an IRWM Plan project*, you must be able to complete all questions in this form, in both the sections highlighted in orange and blue.

*Complete the form and return with supporting attachments, as needed, to Denise Landstedt at [landstedtd@ranchowater.com](mailto:landstedtd@ranchowater.com).*

*Questions: Contact Denise Landstedt, Rancho California Water District, (951) 296-6916*

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This is a newly submitted project.

## 1. General Project Information (Required for all projects)

### a. Project Title

Anza-Terwilliger Valley Groundwater Recharge Map and Recharge Monitoring Program

### b. Potential Project Benefits (Check all that specifically apply)

The project would:

- Increase diversification of water supply portfolio
- Maximize groundwater potential
- Improve surface water quality
- Promote integrated flood control management
- Protect, restore, and enhance aquatic/riparian habitat
- Promote economic, social, land use and environmental sustainability

### c. Project Type

Pre-construction project siting  
Groundwater Recharge Monitoring Program  
Study/Investigation

### d. Project Description

The proposed project would provide two essential components of a future groundwater management plan; a recharge map and a groundwater recharge monitoring program. The recharge map would also provide a preliminary design-level siting opportunities and constraints map for implementation of multipurpose groundwater recharge facilities within both the Anza-Borrego and Santa Margarita Watershed portions of the project area. The groundwater recharge monitoring program would provide wells and a steam gauge, and associated monitoring, needed for a basic groundwater recharge monitoring program in the project area. Both components of the project would be used in the engineering analysis to site, size and design multipurpose recharge sites within the project area. A minimum of three potential multipurpose groundwater recharge sites would be proposed by the completion of the proposed project.

The multipurpose groundwater recharge facilities that would be built in a future project would be designed to provide de-silting, nutrient removal and groundwater recharge of runoff, enhance wildlife habitat, provide passive recreation opportunities, and provide flood control facilities.

### Groundwater Recharge Map

A Groundwater Recharge Map is needed to determine optimal replenishment sites within the Anza-Terwilliger Valley and would provide a tool to guide general groundwater management activities in support of the IRWMP efforts. As an integral part of a future GWMP, it would also be



used to site recharge projects prior to GWMP adoption.

The proposed layered map would include areas within both the Santa Margarita and Anza Borrego watersheds. It would assist in identifying areas that provide opportunities for and constraints to recharging water in the Anza-Terwilliger Valley. Existing information on soils, geology, slopes, hydrology, vegetation, ownership, existing and planned land uses, groundwater basin objectives and other applicable information, would be utilized where available from local, regional, State and federal agencies. Required information that is not available, or needs to be updated, would be developed as part of the project. Each data layer (soils, geology, slopes, hydrology, vegetation, etc..) could also be used separately or with other layers to assist communication with cooperating agencies and the general public.

#### Groundwater Recharge Monitoring Program

Two multiple completion, multi-depth monitoring wells would be installed in the deeper alluvial part of the Anza aquifer. Each well will contain between 4 to 6 casings monitoring deep and shallow zones of the aquifer for collection of water level and water quality data. These wells would provide valuable information on the relationship between the deep and shallow alluvial layers along with water quality trends.

An outflow gauge would be installed in the Cahuilla Creek to estimate runoff from the basin within the Santa Margarita watershed. The data collected would be used to estimate how much water is recharged into the groundwater aquifer and how much is discharged as runoff during precipitation events.

#### **e. Project Status, Timeline, and Readiness to Proceed**

*Include anticipated start and completion dates; status of planning, design, or construction; status of environmental documentation; status of permitting – local or regional, status of approval to implement the project, other items to demonstrate readiness to proceed.*

##### Anticipated start and completion dates:

The proposed project will start dependent on approval of funding and will take approximately two years to complete. This will include time for any permitting required. The recharge map will be completed within the first year of the project completion period. The well siting and construction would occur concurrently with the stream gauge installation and is anticipated to also occur within the first year of the project completion period. By the end of the second year of the proposed project completion period, a full year of monitoring data would be available from the wells and the stream gauge. A minimum of three potential multipurpose recharge sites would also be proposed for further engineering studies by the end of the project completion period.

##### Status of planning, design or construction:

The proposed project is in the planning stage. No design or construction has occurred.

##### Status of environmental documentation:



The proposed project would require CEQA documentation for the monitoring wells. The CEQA process could be completed within one month of the project start date as the wells qualify for a Categorical Exemption under section 15306 Of the CEQA Guidelines.

The recharge map and identification of potential multipurpose recharge sites would not require any CEQA documentation as no physical impacts to the environment would occur as a result of this component of the project.

Status of permitting:

The monitoring wells will require permits from the County of Riverside. The process for permit approval will begin when the well sites are determined after the project start date.

The stream gauge may require an encroachment permit from CALTRANS as it would be located within the Highway 371 right-of-way. The process for permit approval will begin after the project start date.

f. **Project Location**

The proposed project would include the entire Anza-Terwilliger Valley in rural southwest Riverside County.

g. **Purpose and Need**

The Anza-Terwilliger Valley relies entirely on groundwater for its water supply. Recharging storm water, and other sources of water, is needed in order to ensure community sustainability as there is significant groundwater pumping and variable precipitation in the project area. The proposed project would assist in determining the quality and amount of groundwater available and identify specific recharge sites that could be used for groundwater replenishment. The recharge sites would be multipurpose in that, in addition to acting as water harvesting facilities, they would also serve to create or enhance habitat, increase flood control options, treat non-point source pollution and provide passive recreation opportunities for the community.

**2. Project Sponsor/Lead Agency Information (Required for all projects)**

a. **Agency/Organization Name**

The High Country Conservancy

b. **Contact Person (name and title)**

Joanna Crombie, Member, Board of Directors, The High Country Conservancy

c. **Email**

crombieconsulting@gmail.com

d. **Phone**

(951) 306-8174



- e. **Address**  
PO Box 391608 Anza, CA
- f. **Adopted the USMW IRWM Plan: Y/N**  
No
- g. **Urban water supplier: Y/N**  
No
  - g.i. **If yes, status of 2010 Urban Water Management Plan:**  
N/A
  - g.ii. **If yes, status of AB1420 compliance:**  
N/A

### 3. Project Partners (Required for all projects - note if not applicable)

- a. **Agency/Organization Name:**  
Anza Ground Water Association (AGWA)
- b. **Contact Person (name and title):**  
Elena Mafla, Steering Committee Chair, AGWA
- c. **Email: emafila@boojum.org**
- d. **Phone: (951) 763-2261**
- e. **Cell Phone (optional): (951) 750-4170**
- f. **Address: 43205 Chapman Road, Anza, CA 92539**
- g. **Project Partner Type:**  
Collaborative Planning  
In-Kind Services

### 4. Project Goals and Objectives (Required for inclusion in the IRWM Plan)

- a. **List the Project's Goals and Objectives:**

1. The proposed project would provide two general groundwater management tools that would be used in on-going efforts to manage water resources in the Anza-Terwilliger Valley area and become components in a Groundwater Management Plan.
2. The proposed project would result in identifying at least three



multipurpose groundwater recharge facility sites for preliminary engineering/feasibility studies.

3. The proposed project would integrate groundwater water resource management with the objectives of general land use stewardship, habitat enhancement and community sustainability.

b. Check which IRWM Plan Goals and Objectives the project meets :

*Goal 1: Increase diversification of water supply portfolio*

X Increase local supply development.

*Goal 2: Maximize groundwater potential*

X Improve quality and ability to access and increase groundwater supply.

X Increase knowledge of groundwater supply potential.

*Goal 3: Protect and improve local surface water quality*

X Reduce controllable pollutant sources to receiving waters.

*Goal 4: Promote integrated flood management*

X Enhance regional flood control by implementing multiple benefit.

X Reduce private property damage risk.

*Goal 5: Protect, restore and enhance aquatic/riparian habitat*

X Protect and creates aquatic/riparian habitat.

X Enhance riparian corridors on existing land use.

*Goal 6: Promote economic, social, land use and environmental sustainability*

X Support water resources projects that positively impact DACs.

X Improve recreation opportunities and open space through multiple benefit projects.

X Adapt to and mitigate against climate change by promoting adaptation strategies and reducing water related greenhouse emissions.

c. Check which California Water Plan Resource Management Strategies the project meets:



Reduce water demand	N/A	N/A
Increase water supply	X Conjunctive Management and Groundwater	X Surface storage-Regional/Local
Improve water quality	X Groundwater/Aquifer Remediation X Surface storage - Regional/Local	X Pollution prevention X Runoff management
Practice Resources Stewardship	X Agricultural lands stewardship	X Land use planning and management X Recharge areas protection X Watershed management
Improve Flood Management	X Flood risk management	
Other Strategies	N/A	N/A

d. Check which Proposition 84 project elements the project meets:

- X Water supply reliability, water conservation, and water use efficiency
- X Stormwater capture, storage, clean-up, treatment, and management
- X Removal of invasive, non-native species, the creation and enhancement of wetlands, and the acquisition, protection, and restoration of open space and watershed lands
- X Non-point source pollution reduction, management, and monitoring
- X Groundwater recharge and management projects

- X Water banking, exchange, reclamation, and improvement of water quality
- X Planning and implementation of multipurpose flood management and programs
- X Watershed protection and management



X Ecosystem and fisheries restoration and protection

- e. Check which sustainability features are part of the project:
- X Measures to reduce GHG emissions
  - X Measures to increase energy efficiency
  - X Measures to adapt to potential effects of climate change

5. Project Benefits and Benefit Accrual Locations (Required for inclusion in the IRWM Plan)

- a. **Project Benefits: Provide quantification of the benefits which the project will provide. Please include units for all quantities.**
- The proposed project would provide benefits in each of the goals listed. However, quantification of the benefits of the goals cannot be determined accurately at this time and would be determined as part of the project.

**Goal: Increase diversification of water supply portfolio**

**Average annual yield of water supply reliability, conservation and water use efficiency** Amount of Conservation to be determined as part of the project.

**Average annual yield of groundwater pumping** N/A

**Average annual yield of stormwater capture** Amount of Conservation to be determined as part of the project.

**Average annual yield of recycled water** N/A, however, agricultural runoff may be captured.

**Average annual yield of desalination** N/A

**Other (please describe):** N/A

**Goal: Maximize groundwater potential**

**Capacity of groundwater treatment** N/A

**Capacity of recharge facility** To be determined as part of the project.

**Other (please describe):** N/A

**Goal: Protect and improve local surface water quality**

**Capacity of stormwater treatment project** To be determined as part of



the project.

**Other (please describe):** N/A

**Goal: Promote integrated flood management**

**Area that will benefit from improved flood management** To be determined as part of the project.

**Estimated annual value of flood damage reduction** To be determined as part of the project.

**Other (please describe):** N/A

**Goal: Protect, restore and enhance aquatic/riparian habitat**

**Area of protected aquatic/riparian habitat** To be determined as part of the project.

**Area of enhanced aquatic/riparian habitat** To be determined as part of the project.

**Area of created aquatic/riparian habitat** To be determined as part of the project.

**Other (please describe):** N/A

**Goal: Promote economic, social, land use and environmental sustainability**

**DAC population positively impacted** The proposed project is within a DAC. The community would benefit from increased water supply reliability. Quantities of water recharged and economic benefit to be determined.

**Area of recreation and/or open space improved** To be determined as part of the project.

**Estimated decrease in greenhouse gas emissions** Decrease in emissions would be realized from stabilizing groundwater levels and reducing need for pumping water from increasing depths of aquifer. Also includes sequestering of carbon in vegetation in enhanced/created habitat. To be determined as part of the project.

**Other (please describe):** To be determined as part of the project.

**b. Location of Project Benefits**

**The center approximate center of the project area has the coordinates:**

**Latitude 33°33'18.97" N**

**Longitude 116°40'27.06" W**

Provide description of location of project benefits:

The proposed project encompasses the entire Anza-Terwilliger area overlying the Lower Cahuilla, Upper Cahuilla, Anza, Burnt Valley and Terwilliger subbasins.





## 6. Integration and Regionality Elements of Project (Required for inclusion in the IRWM Plan)

*Identify any integration elements of your proposed project; this includes synergies or linkages with other projects in the region that result in added value or require coordinated implementation or operation (see definition below).*

**Integration Defined:** *Integrated project solutions ensure a greater level of benefits for the region and make project more viable within an IRWM grant program. Integration includes:*

- **Partnerships** – *Establishing partnerships creates efficiencies through sharing data, funds, resources and infrastructure.*
- **Benefits** – *Multiplying benefits provide opportunities for reaching multiple regional goals.*
- **Geography** – *Implementing watershed-wide or regional-scale projects can benefit from economies of scale and address multiple watershed functions to resolve conflicts between uses.*

The partnership between The High Country Conservancy and the Anza Groundwater Association will lead to integration of water resources goals with land use and habitat resource stewardship in the Anza area. This is a long term community goal.

The proposed project will gather information and provide planning and preliminary siting tools for water management facilities in parts of two watersheds that have little up to date information and no integrated management plans. It will also make information available to public agencies, such as The County of Riverside Conservation and Flood Control District, which may lead to future multi-purpose projects with partnership opportunities within the area.

The proposed project would assist in addressing conflicts between water users by siting potential water recharge facilities that could be used to increase overall water supply reliability.

## 7. Disadvantaged Communities (DAC) and Native American Tribal Communities (NATC) (Required for inclusion in the IRWM Plan)

a.

**Project provides benefits to DAC**

The proposed project area is a DAC. The project would benefit all stakeholders within the DAC by providing information that would be used to increasing water supply reliability.



b. **Project provides benefits to NATC**  
The proposed project location includes tribal lands. The project would benefit the NATCs by providing data, and , eventually, increased water supply reliability.

c. **Describe the benefits to the DAC and/or NATC**  
The proposed project is located in a DAC and within tribal lands that rely on groundwater as the sole source of water supply. By identifying recharge sites that could be used to treat and recharge stormwater and/or agricultural runoff, at the same time as providing flood mitigation, water reliability could be enhanced. Increased water supply reliability would make it more likely that more businesses would be established in the area. General economic development, and with it job opportunities, would be facilitated by increased water supply reliability.

d. **Describe any Environmental Justice Concerns the project addresses:**  
***Environmental Justice definition:*** "the fair treatment and meaningful involvement of all people regardless of race, color, sex, national origin, or income with respect to the development, implementation and enforcement of environmental laws, regulations, and policies."  
The proposed project would benefit the all people within the Anza-Terwilliger community and surrounding areas by providing tools that would be used to site water recharge facilities and increase water supply reliability for all stakeholders. Community outreach activities would include efforts to inform and obtain input from all concerned area residents and businesses.

**8. Project Cost and Funding (Required for inclusion in the IRWM Plan)**

a. Fill in project cost and funding information

Funding	Amount (\$)
<b>Total Project Cost (preliminary estimate)</b> Recharge Map Monitoring Wells Stream Gauge First year O&M Technical Review and Public <u>Outreach</u> <b>Total Cost</b>	 \$75,000 \$180,000 \$50,000 \$40,000  <u>\$24,000</u> <b>\$419,000.00</b>
<b>Anticipated Funding</b>	<b>\$395,000.00</b>
<b>Match Contribution</b>	<b>0</b>
<b>Local</b>	<b>0</b>
<b>Federal</b>	<b>0</b>



In-Kind (AGWA Technical Review Committee and public outreach)	\$24,000.00
Other	0

b. **Explain source and commitment of match funding**  
N/A

c. **Estimated annual operations and maintenance (O&M) costs.**  
Approximately \$40,000 for groundwater recharge monitoring program  
(monitoring wells and stream gauge).

d. **Explain sources and certainty of O&M funding**  
The first year of O&M costs will be included in the request for funding. Options for covering O&M costs after the first year are uncertain. However, these options are currently being explored. They include funding and/or in-kind services from the United States Geological Survey (USGS) as part of their current and on-going efforts to gather data in the Anza-Terwilliger area.

e. **Has an economic or cost/benefit analysis been conducted for the project? If so, please describe the results.**  
No



**9. Other Project Information Not Discussed Elsewhere in this Nomination Form**

N/A

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)**  
**Upper Santa Margarita Watershed (USMW) Region**  
**Updated Project Summary Information**  
**May 2, 2011**

**PROJECT NOMINATION FORM**  
**Due Date: Monday, June 6, 2011**

**INSTRUCTIONS:**

Due to updated guidelines and requirements from the California Department of Water Resources (DWR), **all** project proponents must submit an updated project summary information form in order to be a part of the Upper Santa Margarita Watershed Integrated Regional Water Management Plan and be eligible for grants requiring inclusion in the approved project list of the IRWM region.

- All project proponents must complete pages 3-7 of the attached Project Nomination Form.
- Implementation project proponents must also complete page 8 of the attached Project Nomination Form.
- Planning project proponents also complete page 9 of the attached Project Nomination Form.

Your attention to this request will help our region to be successful in planning, integration, and future grant efforts.

**Planning project defined:** Planning projects are either projects that will assist in the development of updating and/or improving the existing IRWM Plan or projects that assist with resource planning. Projects may fill knowledge gaps and/or improve sections of the existing IRWM Plan.

According to DWR's Round 1 Planning Grant Proposal Solicitation Package, dated August 2010,

*"Eligible projects are planning actions related to development, updating, or improvement of an IRWM Plan. This may include focused, topic-specific planning efforts such as salt/nutrient management planning or enhanced integration of flood management issues into an IRWM Plan. Applicants must make it apparent within the Work Plan that the end result of the proposed work effort is a complete IRWM Plan. Therefore, applicants must demonstrate, in the Proposal, which specific section or sections of the Work Plan support the completion of an IRWM Plan as a product. IRWM planning activities that are interregional in nature and are a component to the IRWM Plan such as, but not limited to, climate change analysis and salt/nutrient management need to demonstrate how it will be incorporated into individual IRWMPs."*

[http://www.water.ca.gov/irwm/docs/PlanningGrants/Prop84\\_Round1/Final\\_PLANNING%20PSP\\_072010.pdf](http://www.water.ca.gov/irwm/docs/PlanningGrants/Prop84_Round1/Final_PLANNING%20PSP_072010.pdf)

**Implementation project defined:** Implementation projects are projects involving construction of physical facilities or implementation of non-structural actions. These projects are consistent with objectives and priorities established in the IRWM plan.

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

According to DWR's Round 1 Implementation Grant Proposal Solicitation Package, dated August 2010,

*"Guidelines Section III.C provides specific detail on eligible project types. Eligible projects must be consistent with an adopted IRWM Plan (PRC §75026.(a)). Consistency with an adopted IRWM Plan means either the project is included as an implementation project for the adopted IRWM Plan, or the project has been added to the IRWM Plan implementation list after adoption, but in accordance with the procedures in the adopted IRWM Plan. If the IRWM Plan is silent regarding a process to update or change the project list, the proposal must include documentation demonstrating that those projects added to the implementation project list after the IRWM Plan's adoption have been fully vetted by the IRWM Region. As described in the Guidelines, there are two exceptions to this eligibility criterion, projects that directly address a critical water quality or supply issue in a DAC and urban water suppliers implementing BMPs as described in the Guidelines. These exceptions are being made to encourage assistance to DACs and implementation of BMPs by urban water suppliers. Such projects must still be consistent with the IRWM Plan objectives."*

[http://www.water.ca.gov/irwm/docs/ImplementationGrants/Prop84\\_Round1/Imp\\_PSP\\_Final\\_10\\_7\\_10\\_Public.pdf](http://www.water.ca.gov/irwm/docs/ImplementationGrants/Prop84_Round1/Imp_PSP_Final_10_7_10_Public.pdf)

**DUE DATE: MONDAY, JUNE 6, 2011**

**SUBMISSION: Please submit completed forms and attachments to:  
Denise Landstedt ([landstedtd@ranchowater.com](mailto:landstedtd@ranchowater.com))  
and  
Wendy Katagi ([katagiwr@cdm.com](mailto:katagiwr@cdm.com))**

**Contact and Questions:**

**Denise Landstedt  
Rancho California Water District  
([landstedtd@ranchowater.com](mailto:landstedtd@ranchowater.com))  
(951) 296-6916**

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

Check the applicable box to indicate if this is a new project not previously included as part of the IRWM Plan or the project is a revised project previously considered as part of the IRWM Plan:

New Project Nomination Form	✓
Revised Project Nomination Form	

<b>Project Title:</b> Native Botanical Garden	
<b>Agency Name and/or Lead Proponent:</b> Hamilton Museum, Mountain Communities of Resilience, The High Country Conservancy	
<b>Address:</b> Contreras Rd, Anza	
<b>Contact Name:</b> Marea Stinnett-Levine	
<b>Telephone:</b> (951) 541-4503	<b>E-Mail:</b> mstinnettlevine@gmail.com
<b>Fax:</b> (951) 240-3404	<b>Web Site:</b>
<b>Estimated Project Readiness Date:</b> Spring 2012	
<b>Project Description:</b>  To create a botanical garden using native plants at the Hamilton Museum in Anza. The garden will be used to educate the community of Anza on understanding how protecting the local native ecosystem protects water quality and use of native vegetation in landscapes can improve water quality and reduce water use.	

**DWR REQUIRED PROJECT ELIGIBILITY INFORMATION**

<b>USMW IRWMP Objectives Addressed by the Project (Check all that Apply)</b>	
<input type="checkbox"/>	Objective 1: Develop a more reliable and diverse portfolio of water supplies
<input checked="" type="checkbox"/>	Objective 2: Promote economic, social, and environmental sustainability
<input checked="" type="checkbox"/>	Objective 3: Improve water quality
<input checked="" type="checkbox"/>	Objective 4: Restore, enhance and maintain habitats and open space
<input type="checkbox"/>	Objective 5: Promote sustainable floodplain management
<input checked="" type="checkbox"/>	Objective 6: Promote appropriate recreational opportunities
<input checked="" type="checkbox"/>	Objective 7: Promote appropriate land use planning
<input checked="" type="checkbox"/>	Objective 8: Increase stakeholder involvement and stewardship
<input type="checkbox"/>	Objective 9: Maximize implementation of water resources projects

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

<b>Resource Management Strategies in the California Water Plan Update 2009 (Check all that Apply)</b>		
<b>Reduce Water Demand</b>	<input type="checkbox"/> Agricultural Water Use Efficiency	<input type="checkbox"/> Conveyance – Regional/local
	<input checked="" type="checkbox"/> Urban Water Use Efficiency	<input type="checkbox"/> System Reoperation
	<input type="checkbox"/> Improve Operational Efficiency and Transfers	<input type="checkbox"/> Water Transfers
	<input type="checkbox"/> Conveyance – Delta	
<b>Increase Water Supply</b>	<input type="checkbox"/> Conjunctive Management & Groundwater	<input type="checkbox"/> Recycled Municipal Water
	<input type="checkbox"/> Desalination	<input type="checkbox"/> Surface Storage – CALFED
	<input checked="" type="checkbox"/> Precipitation Enhancement	<input type="checkbox"/> Surface Storage – Regional/local
<b>Improve Water Quality</b>	<input type="checkbox"/> Drinking Water Treatment and Distribution	<input checked="" type="checkbox"/> Pollution Prevention
	<input type="checkbox"/> Groundwater Remediation/Aquifer Remediation	<input type="checkbox"/> Salt and Salinity Management
	<input type="checkbox"/> Matching Quality to Use	<input checked="" type="checkbox"/> Urban Runoff Management
<b>Improve Flood Management</b>	<input type="checkbox"/> Flood Risk Management	
<b>Practice Resources Stewardship</b>	<input type="checkbox"/> Agricultural Lands Stewardship	<input type="checkbox"/> Recharge Area Protection
	<input type="checkbox"/> Economic Incentives (Loans, Grants and Water Pricing)	<input type="checkbox"/> Water-Dependent Recreation
	<input checked="" type="checkbox"/> Ecosystem Restoration	<input checked="" type="checkbox"/> Watershed Management
	<input type="checkbox"/> Forest Management	
<b>Other Strategies</b>	<input type="checkbox"/> Crop Idling for Water Transfers	<input type="checkbox"/> Irrigated Land Retirement
	<input type="checkbox"/> Dewvaporation or Atmospheric Pressure Desalination	<input type="checkbox"/> Rainfed Agriculture
	<input type="checkbox"/> Fog Collection	<input type="checkbox"/> Waterbag Transport/Storage Technology
<b>Does the Project Meet Prop 84 Water Goals?</b>		
Does the project increase supply reliability (conservation, local projects, new annual yield)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the project provide for stormwater management (capture, storage, treatment cleanup, etc)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does the project provide ecosystem/habitat restoration (wetlands creation, invasive species removal, etc.)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does the project provide open space/parks/recreation (open space/parks created)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the project reduce non-point source pollution?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the project provide for groundwater recharge and storage?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does the project remove salts (through desalination, recycling, treatment, etc)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does the project provide multi-purpose flood management?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does the project provide for drinking water treatment and distribution?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

Please provide technical basis supporting "yes" responses.

Project increases supply reliability through conservation of water by planting less non-native vegetation and using more native vegetation in residential and commercial landscape. Native vegetation relies upon rain water.

Project will create a recreational park area for the community.

Non-point source pollution is reduced through the botanical garden's educational outreach programs for land stewardship to develop better land management methods for private and public lands. Reducing unnecessary removal of vegetation and restoring ecosystems will prevent and improve water runoff, erosion and increase nitrogen uptake of vegetation.

**Where do the Benefits of the Project Accrue**

What percentage of the watershed population will directly benefit from this project?  0-33%  34-66%  67-100%

**Does the Project Provide Environmental Justice Benefits?**

Does the project negatively impact disadvantaged or tribal communities?  Yes  No

Does the project provide direct benefits to disadvantaged communities (including tribal communities meeting disadvantaged community description)?  Yes  No

**What Costs Are Associated with the Project?**

What is the capital cost for the project? \$ 117,110.00 Million

What is the projected annual O&M budget? \$ 25,410.00 Million

Are funds available to cover O&M costs identified?  Yes  No

**Does the Project Have Match Funding Secured?**

Has DWR waived the matching requirement?  Yes  No

Does the project have the full required funding match secured for the funding program (25% for Planning and Implementation grants, 50% for Stormwater grant, etc.)?  Yes  No

**Are There Sustainability Features in the Project?**

Does the project provide measures to reduce greenhouse gas emissions?  Yes  No

Does the project provide measures to increase energy efficiency?  Yes  No

Will the project achieve LEED (Leadership in Energy and Environmental Design) certification?  Yes  No

Does the project incorporate LID (Low Impact Development) techniques?  Yes  No

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

Please provide technical basis supporting "yes" responses.

Use of solar lighting in pathways means no fossil fuel burned source of power.

Native plants do not need watering, so less energy is used for pumping water

Project teaches low impact landscape development and management techniques.

**What is the Status of Your Project Readiness?**

Item	Complete	In process	Not initiated
Conceptual Plans	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Land Tenure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preliminary Plans	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CEQA/NEPA Date Completed or Expected: <u>n/a</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permits	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Construction Drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Is the Project Proponent/Agency an Urban Water Supplier?**

*(if yes, please complete the following boxes)*

Urban Water Suppliers who will receive funding from the proposed grant:  Yes  No

Those listed must submit self certification of compliance with California Water Code (CWC) § 525 et seq. and AB1420.  Complete

Have all urban water suppliers submitted complete urban water management plans to DWR? Have those plans been verified as complete by DWR?  Yes  No

If not, please explain:

Projects main purpose is educational to improve water and land conservation for protection of water supply and quality.

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

<b>Geographic and Legislative Information</b>	
Latitude and Longitude	
Assembly District	
Senate District	
US Congressional District	

**PROJECT BUDGET SUMMARY**

Other Contribution	\$
Local Contribution	\$
Federal Contribution	\$
In-kind Contribution	\$ 13,591.80
Amount Requested	\$ 117,100.00
Total Project Cost	\$ 130,691.80

**DWR REQUIRED ATTACHMENTS**

**INSTRUCTIONS FOR ATTACHMENTS**

Until the Round 2 Implementation and Planning Grant Proposal Solicitation Packages (PSPs) are released by DWR, please refer to the Round 1 Proposal Solicitation Packages, dated August 2010, and the examples (USMW Round 1 Implementation Grant and Planning Grant Submittals to DWR).

**DWR Round 1 Proposal Solicitation Packages:**

**Implementation Grant:**

**[http://www.water.ca.gov/irwm/docs/ImplementationGrants/Prop84\\_Round1/Imp\\_PSP\\_Final\\_10\\_7\\_10\\_Public.pdf](http://www.water.ca.gov/irwm/docs/ImplementationGrants/Prop84_Round1/Imp_PSP_Final_10_7_10_Public.pdf)**

**Planning Grant:**

**[http://www.water.ca.gov/irwm/docs/PlanningGrant/Prop84\\_Round1/Final\\_Planning%20PSP\\_072010.pdf](http://www.water.ca.gov/irwm/docs/PlanningGrant/Prop84_Round1/Final_Planning%20PSP_072010.pdf)**

**USMW Round 1 Implementation and Planning Grant Submittals to DWR:**

**<https://www.ranchowater.com/irwmp.aspx>**

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
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**Implementation Grant Projects**

<p><b>Attachment A: Work Plan</b></p> <p>The goals and objectives of the Proposal must be identified. Based on the goals and objectives of the Proposal, a description of all work that will be necessary to complete the project or suite of projects (if a component of a larger project) must be included in this section. The Work Plan should include a description of work to be performed under each task and deliverables for assessing progress and accomplishments. The description should include as much detail as possible, and explain all tasks necessary to complete the Proposal and how the applicant will coordinate with the DWR. The tasks described in the Work Plan must agree with the tasks shown on the Budget and Schedule. Additionally, the application must describe how the Proposal is consistent with the adopted IRWM Plan.</p>	<input type="checkbox"/> <b>Attached</b>
<p><b>Attachment B: Budget</b></p> <p>The Proposal must provide a detailed estimate of costs. The estimate must at a minimum include the following:</p> <ul style="list-style-type: none"> <li>• Land costs, planning and design costs, environmental compliance and documentation costs; construction costs shown by project task or phase; and contingency amount for the Proposal</li> <li>• All sources of the funding match; eligible funding match amounts can include, subject to DWR approval, prior costs borne by the project proponent after September 30, 2008.</li> <li>• The amount of funding match applied to each task, eligible costs consist of those costs incurred after the date of the grant agreement is executed.</li> <li>• Any other State funds being used that will not come from this grant.</li> <li>• Tasks that are complete supported by funding match.</li> </ul> <p>The detailed budget should be commensurate with the design stage that is being submitted and be broken out by task used in the work plan.</p>	<input checked="" type="checkbox"/> <b>Attached</b>
<p><b>Attachment C: Schedule</b></p> <p>Provide a schedule for implementation of the Proposal showing the sequences and timing of the project. The schedule must show start and end dates as well as milestones for each task contained in the Work Plan and should be in a horizontal bar or Gantt chart format. The schedule should also illustrate any dependencies or predecessors by showing links between tasks.</p>	<input type="checkbox"/> <b>Attached</b>
<p><b>Attachment D: Monitoring, Assessment, and Performance Measures</b></p> <p>Describe the performance measures that will be used to quantify and verify project performance. Provide a discussion of the monitoring system to be used to verify project performance with respect to the project benefits or objectives identified in the Proposal. Indicate where the data will be collected and the types of analysis to be used. Include a discussion of how monitoring data will be used to measure the performance in meeting the goals and objectives of the IRWM Plan.</p>	<input type="checkbox"/> <b>Attached</b>
<p><b>Attachment D: Economic Analysis: Water Supply Costs and Benefits</b></p> <p>Water Supply Benefits may include, but are not limited to:</p> <ul style="list-style-type: none"> <li>• Avoided water supply purchases, including those for environmental purposes</li> <li>• Avoided water supply projects</li> <li>• Avoided water shortage costs</li> <li>• Avoided operations and maintenance costs</li> </ul> <p>If possible, each such benefit should be quantified and presented in physical or economic terms, using existing information or reasonable effort. If benefits cannot be quantified, explain why and justify.</p>	<input type="checkbox"/> <b>Attached</b>
<p><b>Attachment E: Water Quality and Other Expected Benefits</b></p> <p>If the Project does not have Water Quality and Other Expected Benefits, applicants must describe such benefits. If possible, each such benefit should also be quantified and presented in physical or economic terms. If not possible to quantify the benefits, please include an explanation and justification of why it cannot be done.</p>	<input type="checkbox"/> <b>Attached</b>

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

**Planning Grant Projects**

<b>Attachment A: Work Plan</b>	<input type="checkbox"/> <b>Attached</b>
<p>Work plan tasks are specific tasks that will be performed as part of the proposal. These tasks should be consistent with the budget and schedule. If the proposal is selected for funding, the task descriptions will be used as the scope of work in a grant agreement. Therefore, task descriptions need to have sufficient detail such that the reviewer understands the work to be performed and is able to evaluate the adequacy of the proposal. The work plan must contain, as specific tasks, the submittal of: quarterly reports, a final report, and other written documents expected to be generated during performance of the proposal. Detailed task descriptions must be supported with the estimates used in the budget. Explain the applicants plan, proposed efforts, and approach to environmental compliance including addressing any California Environmental Quality Act (CEQA) obligations in connection with the proposal.</p>	
<b>Attachment B: Budget</b>	<input type="checkbox"/> <b>Attached</b>
<p>The budget must be consistent with the work plan and schedule. For each work plan task, a budget line item estimate should be presented, as well as a breakdown of the applicant's funding match and requested grant funds. The information presented should allow the reviewer to understand how the budget estimate was developed. Supporting information for the budget includes labor categories, hourly rates, labor time estimates, and subcontractor quotes. The minimum Funding Match is 50% of the total proposal costs. The sources for funding match must be identified. Applicants should read the discussion on reimbursement of costs in section V.K of the Guidelines. Applicants are encouraged to limit direct project administrative expenses to less than 5% of the total proposal costs. Such administrative expenses are the necessary costs incidentally, but directly related to the proposal.</p>	
<b>Attachment C: Schedule</b>	<input type="checkbox"/> <b>Attached</b>
<p>Provide a schedule for implementation of the Proposal showing the sequences and timing of the project. The schedule must show start and end dates as well as milestones for each task contained in the Work Plan and should be in a horizontal bar or Gantt chart format. The schedule should also illustrate any dependencies or predecessors by showing links between tasks.</p>	

<p>Additional space for any text information extending beyond limits:</p> <p>Attachment A,C,D,E to be provided prior to implementation deadline.</p>
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**EXHIBIT 3: Project Description (maximum 3 pages)****“Meadowview Urban Stream Restoration”**

This project includes: (check all that apply)

Planning  Implementation  Acquisition  Public Access  Education

**Section 1: Current conditions and problems at the site.**

The Meadowview Home Owners' Association (HOA), Temecula, CA has approximately 370 acres of open space which is bisected by an ephemeral Meadowview Stream (MS).<sup>1</sup> The area of concern focuses on a 1.2 mile stretch where the natural meander was removed when it was mechanically straightened in the 1950s. Since then, its course has altered and widened, and in the last five years the creek banks comprising approximately ¾ mile (4,000 linear feet) have suffered significant erosion, leading to ten foot high banks in parts which are unstable, collapsing, and very dangerous. Since this open space is used by the public daily, as it is accessible to the 900 homes comprising the association, as well as the surrounding neighborhoods, and the impacts flowing into, within and from this creek are both a public risk and continuing to environmentally degenerate. Most troubling is the danger to the public, made tragically real when in 2012 an 11-year-old boy died in a bank failure in MS, just inches from Meadowview's property line. Also, the damage to infrastructure, water quality and habitat have become critical in that part of the watershed. The creek has partially undermined a main road and is threatening water utility lines immediately to the east. Erosion is impacting the City of Temecula, who has spent nearly \$100,000 since 2011 removing sediment and repairing drains from the basin immediately downstream. Sediment also affects downstream water quality. Riparian habitat is destroyed when emergency repairs are required to protect property. Aquifer recharge is sub-optimal.

**Section 2: Addressing the Problems**

The objective of this project is to restore/rehabilitate and maintain the MS urban stream, transforming it from a community and environmental liability into a sustainable natural, recreational and educational watershed asset, not only for the HOA, but also for the entire Temecula Valley. The HOA seeks for it to become a creek and meadow ecosystem showcase, promoting multiple uses, including recreation, education, wildlife and watershed restoration. While the problem is larger than what this particular grant's funds can address, nevertheless, they will be sufficient to meet the objective of removing the threat to public safety posed by the mass failure of creek banks, and improving water quality by reducing sediment transfer, benefitting people and the watershed. This project addresses the stream's problems in a holistic way that provide permanent solutions. It will do so through the following elements:

- **Community & Stakeholder Engagement:** This project includes stakeholder engagement at many levels including:
  - City of Temecula and Meadowview HOA – The co-sponsors of this grant proposal are engaging in educating and collaborating with each other on this particular stream restoration project
  - State & Local Agencies – Meadowview HOA and the City have already been working with a number of agencies in this process so far, and will be working with them on this grant. These include:
    - US Department of Fish & Wildlife
    - US Bureau of Reclamation
    - Riverside County Flood Control District
    - Elsinore-Murrieta-Anza Resource Conservation District
    - Rancho California Water District
    - California Fish and Wildlife
    - San Diego Regional Water Quality Control Board

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<sup>1</sup> Meadowview Stream was previously misnamed “Long Canyon Creek”. For the purposes of this project, we will refer to it as the “Meadowview Stream”, and through the term of this project, seek to obtain a formal name for this “blue line” creek.

- o Local Citizens – Both members of the HOA as well as concerned and involved citizens focused on environmental restoration and sustainability, will be engaged to participate in this project as volunteers in addition to public awareness on this project
- In addition to this collaborative educational and outreach process of performing the actual stream restoration, our team is proposing to work with the local Elsinore-Murrieta-Anza Resource Conservation District to provide the education outreach with three elements:
- o Workshops – hold 6 workshops throughout the course of the project, and docent-led site visits for local groups like the Sierra Club, SoS Hills, and student clubs.
  - o Materials – provide the materials for both the workshops as well as to support nature groups (e.g. like the Seeing Green committee of the Meadowview HOA)
  - o Personnel – provide management, administrative and intern personnel to lead, administer and implement the programs
- **Stream Restoration & Maintenance Plan:** Prior to restoration implementation, the MS stream needs a professional plan to guide the restoration and maintenance process. The team proposes seven elements to the plan design:
    - o Hydrologic study to determine average low-flows, frequent low intensity storm flows, less frequent channel forming flows and infrequent flood flows.
    - o
    - o Hydraulic analysis of the storm flows determined from the hydrologic study to understand the dynamics of the various flows within the existing stream channel and within any proposed channel configuration.
    - o
    - o Sediment transport analysis based on the composition of the channel bed and banks, and based on the hydraulic analysis. This study will help determine the sediment transport competency and capacity of the existing and proposed channel configurations..
    - o
    - o Geotechnical & Soils Analysis a geotechnical investigation and additional soils analyses will be needed in conjunction with the sediment transport analysis and geomorphic study.
    - o
    - o Biological Report – an additional biological report (extending what has already been performed; see “MS Plant list 20141224” and “Meadowview MS Flora current 2014 11 18”) will be needed. A biologist and stream restoration engineer will need to work together on the bioengineered design and implementation building on this information.
    - o Preliminary (CEQA) and Preliminary Designs – for CEQA, we will prepare preliminary drawings illustrating locations of various bioengineered solutions (both bed and bank), along with typical cross sections and profiles. The sum total of the above information will for a preliminary design for the construction.
  - **Design & Engineering**
    - o Feasibility Assessment – the above information will be synopsized into an assessment of the feasibility of this project.
    - o Final Designs – Following preliminary design, construction drawings will need to be prepared for the portions of the overall project that would be included in Phase 1, which would be determined based on priorities and availability of funds.
  - **Physical and Biological Restoration Implementation Phases:** The project leaders fully intend to use bioengineered solutions to implement the project. However, since the final decision will depend on the results of the detailed, professional, Project Plan and Design (above) the proposed physical and biological restoration solutions must be considered preliminary, and the budget will be allocated according to the dictates of the Plans study results.
    - o Project Coordination/Project Management and Construction Oversight - an experienced, qualified project manager is being retained to run the overall project process, and having an experienced stream restoration team to oversee the restoration contractors are both essential. While this project will use extensive volunteer help, nevertheless, all the elements of planning, outreach and construction will be led and managed by qualified

professionals, in addition to collaboration and integration of all the elements of the entire project.

- o Natural Rock Purchase – preliminary assessments (to be confirmed in the Plan analysis steps) indicate some small to large rock, will be needed to stabilize the banks and to slow the flow with pools and riffles. There are currently no rock surfaces in the natural stream bed.
- o Grading & Rock Placement – some grading of the eroded banks will be required to eliminate the hazardous and eroding condition. As this is performed, there will be strategic placement of the rock throughout the streambed. We currently intend to keep all the soil onsite.
- o Greenloxx & Filtersoxx – During construction and post construction there will be a need to stabilize the banks so that vegetation can become established. This will be achieved using Filtersoxx to greatly reduce further erosion while at the same time filtering any runoff. In addition, where lateral constraints may exist, sensitive stream banks can be stabilized with LivingWalls®, particularly the Greenloxx approach, acquired from Filtrexx.
- o Plants Purchase & Installation – once the grading, rock placement and bank stabilization has been achieved, there will be the purchasing and planting of plants according to the plan.

The three project elements of 1) planning (and the studies that need to be performed in order to write an actionable plan), 2) outreach (at all levels of collaboration and education) and 3) bioengineered construction, will all be seamlessly integrated, as much as possible, by the project management co-leaders, along with the hired professional consultants. In addition, the exact construction elements and steps are only a professional, educated proposal at this time. They will, of necessity, need to be reworked and made much more specific once the planning phase is complete (see Work Plan and Schedule.

### **Section 3: Changing and Improving Stream Functions**

As described Section 2 (above), and in more detail in the Work Plan, the objective is to restore the entire natural Meadowview grassland ecosystem, with the Meadowview Stream being a central feature. With the restoration/rehabilitation of Meadowview Stream, as outlined in Section 2 above, the currently degraded condition and associated impacts will be replaced with a “stable” riparian ecosystem. Restored and improved stream functions will include:

- A stream in dynamic equilibrium – the sediment balance will be restored through careful planning, design, implementation and management.
- Riparian Habitat – the rock features and native vegetation will not only stabilize the stream, but also create habitat essential to the overall health of the ecosystem.
- Groundwater recharge – the slower water movement will result in more infiltration of storm flows.
- Storm water quality – both the vegetation and the increased infiltration will reduce pollutants downstream (including water temperatures and excess sediment).
- Wildlife Corridor – more vegetation will provide cover for area wildlife.
- Flood attenuation and floodplain – the design of the project will slow down flood flows and spread them out more, thus reducing the flood risk downstream.
- 

### **Section 4: Project Benefits**

The Meadowview Urban Stream Restoration project will yield at least the following benefits:

- **Working Plan:** Provide a professionally researched and drafted plan for the sustainable restoration/rehabilitation *and maintenance* of this unique meadow community.
- **Reduce Erosion:** By slowing the flow, stabilizing the banks, and enhancing the native vegetation, erosion of the stream banks will be reduced by greater than 90%.
- **Reduce Sediment Pollution:** As a result of the greatly reduced erosion, this will mostly eliminate the sediment that is forming downstream and allow for the building of the soil in banks and beds. Saving the city about \$30,000 per year in sedimentation removal and disposal costs.
- **Eliminate Bank Collapse Hazard:** By grading and stabilizing the banks, the lethal hazard of collapsing dirt banks will be eliminated, making the area safe for recreation.
- **Reduce Flooding & Road Damage:** By slowing the water during rain events, the project will reduce downstream flooding of Via Norte road, as well as eliminating the road damage.
- **Create more riparian vegetation:** The native vegetation will create more of a living stream bed.

- **Innovative Bioengineered Solutions:** Both the natural rock and the LivingWall stream banks provide an innovative approach to ephemeral stream restoration.
- **Integrated & Sustained Improvement:** By integrating the community of HOA owners, stream restoration professionals in government and local industry with community volunteers and native/urban interface education and recreation it creates a unique convergence of local people, environment and sustainable investment.
- **Showcase for Community Engagement and Education:** The Meadowview Urban Stream Restoration can be a show case for Southern California stream restoration. Because there is unrestricted access to these 370 acres, it can be used by schools, Universities, RCD's and environmental groups as a prime example of creating a sustainable suburban/urban stream from a very real liability, into a sustainable community asset.

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

According to DWR's Round 1 Implementation Grant Proposal Solicitation Package, dated August 2010,

*"Guidelines Section III.C provides specific detail on eligible project types. Eligible projects must be consistent with an adopted IRWM Plan (PRC §75026.(a)). Consistency with an adopted IRWM Plan means either the project is included as an implementation project for the adopted IRWM Plan, or the project has been added to the IRWM Plan implementation list after adoption, but in accordance with the procedures in the adopted IRWM Plan. If the IRWM Plan is silent regarding a process to update or change the project list, the proposal must include documentation demonstrating that those projects added to the implementation project list after the IRWM Plan's adoption have been fully vetted by the IRWM Region. As described in the Guidelines, there are two exceptions to this eligibility criterion, projects that directly address a critical water quality or supply issue in a DAC and urban water suppliers implementing BMPs as described in the Guidelines. These exceptions are being made to encourage assistance to DACs and implementation of BMPs by urban water suppliers. Such projects must still be consistent with the IRWM Plan objectives."*

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**DUE DATE: MONDAY, JUNE 6, 2011**

**SUBMISSION: Please submit completed forms and attachments to:  
Denise Landstedt ([landstedtd@ranchowater.com](mailto:landstedtd@ranchowater.com))  
and  
Wendy Katagi ([katagiwr@cdm.com](mailto:katagiwr@cdm.com))**

**Contact and Questions:**

**Denise Landstedt  
Rancho California Water District  
([landstedtd@ranchowater.com](mailto:landstedtd@ranchowater.com))  
(951) 296-6916**

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

Check the applicable box to indicate if this is a new project not previously included as part of the IRWM Plan or the project is a revised project previously considered as part of the IRWM Plan:

New Project Nomination Form	<input type="checkbox"/>
Revised Project Nomination Form	<input checked="" type="checkbox"/>

<b>Project Title:</b> Anza Aguanga Groundwater Phase 2	
<b>Agency Name and/or Lead Proponent:</b> Anza grant Writing Group	
<b>Address:</b> PO Box 391677 Anza, Ca. 92539	
<b>Contact Name:</b> Nancy Swanson and Pam Nelson	
<b>Telephone:</b> (951) 763-4444	<b>E-Mail:</b> nancyswanson2@gmail.com & Pam emarcd@yahoo.com
<b>Fax:</b> (951) 763-0347	<b>Web Site:</b>
<b>Estimated Project Readiness Date:</b> Plan project submitted by USGS 2007	
<b>Project Description:</b> <p>Phase 2, of the Multi-phased project will develop a greater understanding of the geohydrology of the Anza-Terwilliger area and help develop a management and monitoring plan to evaluate the potential hydrologic effects of future development. This phase of the project will develop a linked surface water/groundwater flow model to (1) help quantify the amount of groundwater recharge and (2) provide a tool to help evaluate and manage the water resources of the area. Climate data sets needed as input for the linked surface water/groundwater flow model will be developed for the study area. An interpretive report summarizing the geohydrologic framework, hydrologic budget, and results from the linked surface water/groundwater flow will be completed to finalize the project.</p> <p>A calibrated surface-water /ground-water model will be used to evaluate future water-management plans in the study area. Of particular importance will be the evaluation of the planned conversion of agricultural land to a rural village (fig.1) . The USGS will work with Riverside county in developing different management scenarios to test with the model.</p>	

**DWR REQUIRED PROJECT ELIGIBILITY INFORMATION**

<b>USMW IRWMP Objectives Addressed by the Project (Check all that Apply)</b>	
<input checked="" type="checkbox"/>	Objective 1: Develop a more reliable and diverse portfolio of water supplies
<input checked="" type="checkbox"/>	Objective 2: Promote economic, social, and environmental sustainability
<input checked="" type="checkbox"/>	Objective 3: Improve water quality
<input checked="" type="checkbox"/>	Objective 4: Restore, enhance and maintain habitats and open space
<input checked="" type="checkbox"/>	Objective 5: Promote sustainable floodplain management
<input type="checkbox"/>	Objective 6: Promote appropriate recreational opportunities
<input checked="" type="checkbox"/>	Objective 7: Promote appropriate land use planning
<input checked="" type="checkbox"/>	Objective 8: Increase stakeholder involvement and stewardship
<input checked="" type="checkbox"/>	Objective 9: Maximize implementation of water resources projects

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
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<b>Resource Management Strategies in the California Water Plan Update 2009</b> (Check all that Apply)		
<b>Reduce Water Demand</b>	<input checked="" type="checkbox"/> Agricultural Water Use Efficiency	<input type="checkbox"/> Conveyance – Regional/local
	<input type="checkbox"/> Urban Water Use Efficiency	<input type="checkbox"/> System Reoperation
	<input type="checkbox"/> Improve Operational Efficiency and Transfers	<input checked="" type="checkbox"/> Water Transfers
	<input type="checkbox"/> Conveyance – Delta	
<b>Increase Water Supply</b>	<input checked="" type="checkbox"/> Conjunctive Management & Groundwater	<input type="checkbox"/> Recycled Municipal Water
	<input checked="" type="checkbox"/> Desalination	<input type="checkbox"/> Surface Storage – CALFED
	<input checked="" type="checkbox"/> Precipitation Enhancement	<input checked="" type="checkbox"/> Surface Storage – Regional/local
<b>Improve Water Quality</b>	<input type="checkbox"/> Drinking Water Treatment and Distribution	<input checked="" type="checkbox"/> Pollution Prevention
	<input checked="" type="checkbox"/> Groundwater Remediation/Aquifer Remediation	<input checked="" type="checkbox"/> Salt and Salinity Management
	<input checked="" type="checkbox"/> Matching Quality to Use	<input type="checkbox"/> Urban Runoff Management
<b>Improve Flood Management</b>	<input checked="" type="checkbox"/> Flood Risk Management	
<b>Practice Resources Stewardship</b>	<input checked="" type="checkbox"/> Agricultural Lands Stewardship	<input checked="" type="checkbox"/> Recharge Area Protection
	<input type="checkbox"/> Economic Incentives (Loans, Grants and Water Pricing)	<input type="checkbox"/> Water-Dependent Recreation
	<input checked="" type="checkbox"/> Ecosystem Restoration	<input checked="" type="checkbox"/> Watershed Management
	<input type="checkbox"/> Forest Management	
<b>Other Strategies</b>	<input type="checkbox"/> Crop Idling for Water Transfers	<input type="checkbox"/> Irrigated Land Retirement
	<input type="checkbox"/> Dewvaporation or Atmospheric Pressure Desalination	<input checked="" type="checkbox"/> Rainfed Agriculture
	<input type="checkbox"/> Fog Collection	<input type="checkbox"/> Waterbag Transport/Storage Technology
<b>Does the Project Meet Prop 84 Water Goals?</b>		
Does the project increase supply reliability (conservation, local projects, new annual yield)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the project provide for stormwater management (capture, storage, treatment cleanup, etc)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the project provide ecosystem/habitat restoration (wetlands creation, invasive species removal, etc.)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the project provide open space/parks/recreation (open space/parks created)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does the project reduce non-point source pollution?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the project provide for groundwater recharge and storage?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the project remove salts (through desalination, recycling, treatment, etc)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the project provide multi-purpose flood management?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the project provide for drinking water treatment and distribution?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

Please provide technical basis supporting "yes" responses.

- a.) This project will provide reliable current information which will be used in water management plans designed to increase water supply reliability, water use efficiency and conservation.  
The result of the research and studies included in this project will result in the development of a tool which will help quantify the amount of groundwater recharged and will help manage ground water use, In doing so the region will understand what needs exist as in terms of additional conservation efforts to increase groundwater levels or how better to efficiently manage the existing groundwater, such as limiting development or requiring new developments to implement recharge projects to offset their demand on the limited supply.
- b.) Storm water capture, storage, treatment, and management.
- c.) NPS pollution reduction, management, and monitoring.
- d.) Groundwater recharge and management projects; this project will result in a tool used to help quantify groundwater recharge and evaluate water resource use throughout the area.
- e.) Contaminant and salt removal through reclamation, desalting and other treatment technologies.
- f.) Water banking, water exchange, water reclamation, and improvement of water quality.
- g.) Planning and implementation of multipurpose flood control programs that protect property, and improve water quality, storm water capture and percolation and protect or improve wildlife habitat. This project will result in a tool which will help identify current storm water capture and percolation capacity in local aquifers.
- h.) Watershed management planning and implementation and demonstration projects to develop new drinking water treatment and distribution methods..

**Where do the Benefits of the Project Accrue**

What percentage of the watershed population will directly benefit from this project?  0-33%  34-66%  67-100%

**Does the Project Provide Environmental Justice Benefits?**

Does the project negatively impact disadvantaged or tribal communities?  Yes  No  
 Does the project provide direct benefits to disadvantaged communities (including tribal communities meeting disadvantaged community description)?  Yes  No

**What Costs Are Associated with the Project?**

What is the capital cost for the project? \$ 1.38 Million  
 What is the projected annual O&M budget? \$ 0.00 Million  
 Are funds available to cover O&M costs identified?  Yes  No

**Does the Project Have Match Funding Secured?**

Has DWR waived the matching requirement?  Yes  No  
 Does the project have the full required funding match secured for the funding program (25% for Planning and Implementation grants, 50% for Stormwater grant, etc.)?  Yes  No

**Are There Sustainability Features in the Project?**

Does the project provide measures to reduce greenhouse gas emissions?  Yes  No  
 Does the project provide measures to increase energy efficiency?  Yes  No  
 Will the project achieve LEED (Leadership in Energy and Environmental Design) certification?  Yes  No  
 Does the project incorporate LID (Low Impact Development) techniques?  Yes  No

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
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Please provide technical basis supporting "yes" responses.

Anza is a small Disadvantaged Community of 10,000 or more inhabitants. The mapping of census data done for the IRWMP (2007) shows that the entire area lies well below the 80% median household income level specified in the Prop84 bond act. Additionally, note that Anza's K-12 schools are designated as Title-1 schools because 90% of the last school year's students qualified for free or reduced-cost lunch program, the qualification being based on below-normal household income. The USGS was prepared to contribute \$495,175 of the \$1.38 million needed for the entire USGS project. It may be possible to again obtain a federal cost-sharing commitment.

**What is the Status of Your Project Readiness?**

Item	Complete	In process	Not initiated
Conceptual Plans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Tenure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preliminary Plans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CEQA/NEPA Date Completed or Expected: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Is the Project Proponent/Agency an Urban Water Supplier?**

*(if yes, please complete the following boxes)*

Urban Water Suppliers who will receive funding from the proposed grant:  Yes  No

Those listed must submit self certification of compliance with California Water Code (CWC) § 525 et seq. and AB1420.  Complete

Have all urban water suppliers submitted complete urban water management plans to DWR? Have those plans been verified as complete by DWR?  Yes  No

If not, please explain:

N/A

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

<b>Geographic and Legislative Information</b>	
Latitude and Longitude	33.555028-116.67363
Assembly District	64
Senate District	37
US Congressional District	45

**PROJECT BUDGET SUMMARY**

Other Contribution	\$
Local Contribution	\$
Federal Contribution Possible contribution based on the 2007 estimate	\$ 495.88
In-kind Contribution	\$
Amount Requested	\$
Total Project Cost	\$ 1,377,750.00

**DWR REQUIRED ATTACHMENTS**

**INSTRUCTIONS FOR ATTACHMENTS**

Until the Round 2 Implementation and Planning Grant Proposal Solicitation Packages (PSPs) are released by DWR, please refer to the Round 1 Proposal Solicitation Packages, dated August 2010, and the examples (USMW Round 1 Implementation Grant and Planning Grant Submittals to DWR).

**DWR Round 1 Proposal Solicitation Packages:**

**Implementation Grant:**

**[http://www.water.ca.gov/irwm/docs/ImplementationGrants/Prop84\\_Round1/Imp\\_PSP\\_Final\\_10\\_7\\_10\\_Public.pdf](http://www.water.ca.gov/irwm/docs/ImplementationGrants/Prop84_Round1/Imp_PSP_Final_10_7_10_Public.pdf)**

**Planning Grant:**

**[http://www.water.ca.gov/irwm/docs/PlanningGrant/Prop84\\_Round1/Final Planning%20PSP\\_072010.pdf](http://www.water.ca.gov/irwm/docs/PlanningGrant/Prop84_Round1/Final_Planning%20PSP_072010.pdf)**

**USMW Round 1 Implementation and Planning Grant Submittals to DWR:**

**<https://www.ranchowater.com/irwmp.aspx>**

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

**Implementation Grant Projects**

<p><b>Attachment A: Work Plan</b></p> <p>The goals and objectives of the Proposal must be identified. Based on the goals and objectives of the Proposal, a description of all work that will be necessary to complete the project or suite of projects (if a component of a larger project) must be included in this section. The Work Plan should include a description of work to be performed under each task and deliverables for assessing progress and accomplishments. The description should include as much detail as possible, and explain all tasks necessary to complete the Proposal and how the applicant will coordinate with the DWR. The tasks described in the Work Plan must agree with the tasks shown on the Budget and Schedule. Additionally, the application must describe how the Proposal is consistent with the adopted IRWM Plan.</p>	<input type="checkbox"/> <b>Attached</b>
<p><b>Attachment B: Budget</b></p> <p>The Proposal must provide a detailed estimate of costs. The estimate must at a minimum include the following:</p> <ul style="list-style-type: none"> <li>• Land costs, planning and design costs, environmental compliance and documentation costs; construction costs shown by project task or phase; and contingency amount for the Proposal</li> <li>• All sources of the funding match; eligible funding match amounts can include, subject to DWR approval, prior costs borne by the project proponent after September 30, 2008.</li> <li>• The amount of funding match applied to each task, eligible costs consist of those costs incurred after the date of the grant agreement is executed.</li> <li>• Any other State funds being used that will not come from this grant.</li> <li>• Tasks that are complete supported by funding match.</li> </ul> <p>The detailed budget should be commensurate with the design stage that is being submitted and be broken out by task used in the work plan.</p>	<input type="checkbox"/> <b>Attached</b>
<p><b>Attachment C: Schedule</b></p> <p>Provide a schedule for implementation of the Proposal showing the sequences and timing of the project. The schedule must show start and end dates as well as milestones for each task contained in the Work Plan and should be in a horizontal bar or Gantt chart format. The schedule should also illustrate any dependencies or predecessors by showing links between tasks.</p>	<input type="checkbox"/> <b>Attached</b>
<p><b>Attachment D: Monitoring, Assessment, and Performance Measures</b></p> <p>Describe the performance measures that will be used to quantify and verify project performance. Provide a discussion of the monitoring system to be used to verify project performance with respect to the project benefits or objectives identified in the Proposal. Indicate where the data will be collected and the types of analysis to be used. Include a discussion of how monitoring data will be used to measure the performance in meeting the goals and objectives of the IRWM Plan.</p>	<input type="checkbox"/> <b>Attached</b>
<p><b>Attachment D: Economic Analysis: Water Supply Costs and Benefits</b></p> <p>Water Supply Benefits may include, but are not limited to:</p> <ul style="list-style-type: none"> <li>• Avoided water supply purchases, including those for environmental purposes</li> <li>• Avoided water shortage costs</li> <li>• Avoided water supply projects</li> <li>• Avoided operations and maintenance costs</li> </ul> <p>If possible, each such benefit should be quantified and presented in physical or economic terms, using existing information or reasonable effort. If benefits cannot be quantified, explain why and justify.</p>	<input type="checkbox"/> <b>Attached</b>
<p><b>Attachment E: Water Quality and Other Expected Benefits</b></p> <p>If the Project does not have Water Quality and Other Expected Benefits, applicants must describe such benefits. If possible, each such benefit should also be quantified and presented in physical or economic terms. If not possible to quantify the benefits, please include an explanation and justification of why it cannot be done.</p>	<input type="checkbox"/> <b>Attached</b>

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

**Planning Grant Projects**

**Attachment A: Work Plan**

**Attached**

Work plan tasks are specific tasks that will be performed as part of the proposal. These tasks should be consistent with the budget and schedule. If the proposal is selected for funding, the task descriptions will be used as the scope of work in a grant agreement. Therefore, task descriptions need to have sufficient detail such that the reviewer understands the work to be performed and is able to evaluate the adequacy of the proposal. The work plan must contain, as specific tasks, the submittal of: quarterly reports, a final report, and other written documents expected to be generated during performance of the proposal. Detailed task descriptions must be supported with the estimates used in the budget. Explain the applicants plan, proposed efforts, and approach to environmental compliance including addressing any California Environmental Quality Act (CEQA) obligations in connection with the proposal.

**Attachment B: Budget**

**Attached**

The budget must be consistent with the work plan and schedule. For each work plan task, a budget line item estimate should be presented, as well as a breakdown of the applicant's funding match and requested grant funds. The information presented should allow the reviewer to understand how the budget estimate was developed. Supporting information for the budget includes labor categories, hourly rates, labor time estimates, and subcontractor quotes. The minimum Funding Match is 50% of the total proposal costs. The sources for funding match must be identified. Applicants should read the discussion on reimbursement of costs in section V.K of the Guidelines. Applicants are encouraged to limit direct project administrative expenses to less than 5% of the total proposal costs. Such administrative expenses are the necessary costs incidentally, but directly related to the proposal.

**Attachment C: Schedule**

**Attached**

Provide a schedule for implementation of the Proposal showing the sequences and timing of the project. The schedule must show start and end dates as well as milestones for each task contained in the Work Plan and should be in a horizontal bar or Gantt chart format. The schedule should also illustrate any dependencies or predecessors by showing links between tasks.

Additional space for any text information extending beyond limits:

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)**  
**Upper Santa Margarita Watershed (USMW) Region**  
**Updated Project Summary Information**  
**May 2, 2011**

**PROJECT NOMINATION FORM**  
**Due Date: Monday, June 6, 2011**

**INSTRUCTIONS:**

Due to updated guidelines and requirements from the California Department of Water Resources (DWR), **all** project proponents must submit an updated project summary information form in order to be a part of the Upper Santa Margarita Watershed Integrated Regional Water Management Plan and be eligible for grants requiring inclusion in the approved project list of the IRWM region.

- All project proponents must complete pages 3-7 of the attached Project Nomination Form.
- Implementation project proponents must also complete page 8 of the attached Project Nomination Form.
- Planning project proponents also complete page 9 of the attached Project Nomination Form.

Your attention to this request will help our region to be successful in planning, integration, and future grant efforts.

**Planning project defined:** Planning projects are either projects that will assist in the development of updating and/or improving the existing IRWM Plan or projects that assist with resource planning. Projects may fill knowledge gaps and/or improve sections of the existing IRWM Plan.

According to DWR's Round 1 Planning Grant Proposal Solicitation Package, dated August 2010,

*"Eligible projects are planning actions related to development, updating, or improvement of an IRWM Plan. This may include focused, topic-specific planning efforts such as salt/nutrient management planning or enhanced integration of flood management issues into an IRWM Plan. Applicants must make it apparent within the Work Plan that the end result of the proposed work effort is a complete IRWM Plan. Therefore, applicants must demonstrate, in the Proposal, which specific section or sections of the Work Plan support the completion of an IRWM Plan as a product. IRWM planning activities that are interregional in nature and are a component to the IRWM Plan such as, but not limited to, climate change analysis and salt/nutrient management need to demonstrate how it will be incorporated into individual IRWMPs."*

[http://www.water.ca.gov/irwm/docs/PlanningGrants/Prop84\\_Round1/Final\\_PLANNING%20PSP\\_072010.pdf](http://www.water.ca.gov/irwm/docs/PlanningGrants/Prop84_Round1/Final_PLANNING%20PSP_072010.pdf)

**Implementation project defined:** Implementation projects are projects involving construction of physical facilities or implementation of non-structural actions. These projects are consistent with objectives and priorities established in the IRWM plan.

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

According to DWR's Round 1 Implementation Grant Proposal Solicitation Package, dated August 2010,

*"Guidelines Section III.C provides specific detail on eligible project types. Eligible projects must be consistent with an adopted IRWM Plan (PRC §75026.(a)). Consistency with an adopted IRWM Plan means either the project is included as an implementation project for the adopted IRWM Plan, or the project has been added to the IRWM Plan implementation list after adoption, but in accordance with the procedures in the adopted IRWM Plan. If the IRWM Plan is silent regarding a process to update or change the project list, the proposal must include documentation demonstrating that those projects added to the implementation project list after the IRWM Plan's adoption have been fully vetted by the IRWM Region. As described in the Guidelines, there are two exceptions to this eligibility criterion, projects that directly address a critical water quality or supply issue in a DAC and urban water suppliers implementing BMPs as described in the Guidelines. These exceptions are being made to encourage assistance to DACs and implementation of BMPs by urban water suppliers. Such projects must still be consistent with the IRWM Plan objectives."*

[http://www.water.ca.gov/irwm/docs/ImplementationGrants/Prop84\\_Round1/Imp\\_PSP\\_Final\\_10\\_7\\_10\\_Public.pdf](http://www.water.ca.gov/irwm/docs/ImplementationGrants/Prop84_Round1/Imp_PSP_Final_10_7_10_Public.pdf)

**DUE DATE: MONDAY, JUNE 6, 2011**

**SUBMISSION: Please submit completed forms and attachments to:**

**Denise Landstedt ([landstedtd@ranchowater.com](mailto:landstedtd@ranchowater.com))**

**and**

**Wendy Katagi ([katagiwr@cdm.com](mailto:katagiwr@cdm.com))**

**Contact and Questions:**

**Denise Landstedt  
Rancho California Water District  
([landstedtd@ranchowater.com](mailto:landstedtd@ranchowater.com))  
(951) 296-6916**

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

Check the applicable box to indicate if this is a new project not previously included as part of the IRWM Plan or the project is a revised project previously considered as part of the IRWM Plan:

New Project Nomination Form	<input type="checkbox"/>
Revised Project Nomination Form	<input checked="" type="checkbox"/>

Project Title: <b>Anza Aguanga Groundwater Phase 2</b>	
Agency Name and/or Lead Proponent: <b>Anza grant Writing Group</b>	
Address: <b>PO Box 391677 Anza, Ca. 92539</b>	
Contact Name: <b>Nancy Swanson and Pam Nelson</b>	
Telephone: <b>(951) 763-4444</b>	E-Mail: <b>nancyswanson2@gmail.com &amp; Pam emarcd@yahoo.com</b>
Fax: <b>(951) 763-0347</b>	Web Site:
Estimated Project Readiness Date: <b>Plan project submitted by USGS 2007</b>	
<p><b>Project Description:</b></p> <p>Phase 2, of the Multi-phased project will develop a greater understanding of the geohydrology of the Anza-Terwilliger area and help develop a management and monitoring plan to evaluate the potential hydrologic effects of future development. This phase of the project will develop a linked surface water/groundwater flow model to (1) help quantify the amount of groundwater recharge and (2) provide a tool to help evaluate and manage the water resources of the area. Climate data sets needed as input for the linked surface water/groundwater flow model will be developed for the study area. An interpretive report summarizing the geohydrologic framework, hydrologic budget, and results from the linked surface water/groundwater flow will be completed to finalize the project.</p> <p>A calibrated surface-water /ground-water model will be used to evaluate future water-management plans in the study area. Of particular importance will be the evaluation of the planned conversion of agricultural land to a rural village (fig.1) . The USGS will work with Riverside county in developing different management scenarios to test with the model.</p>	

**DWR REQUIRED PROJECT ELIGIBILITY INFORMATION**

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<input checked="" type="checkbox"/>	Objective 3: Improve water quality
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**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

<b>Resource Management Strategies in the California Water Plan Update 2009</b> (Check all that Apply)		
<b>Reduce Water Demand</b>	<input checked="" type="checkbox"/> Agricultural Water Use Efficiency	<input type="checkbox"/> Conveyance – Regional/local
	<input type="checkbox"/> Urban Water Use Efficiency	<input type="checkbox"/> System Reoperation
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<b>Increase Water Supply</b>	<input checked="" type="checkbox"/> Conjunctive Management & Groundwater	<input type="checkbox"/> Recycled Municipal Water
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<b>Practice Resources Stewardship</b>	<input checked="" type="checkbox"/> Agricultural Lands Stewardship	<input checked="" type="checkbox"/> Recharge Area Protection
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<b>Other Strategies</b>	<input type="checkbox"/> Crop Idling for Water Transfers	<input type="checkbox"/> Irrigated Land Retirement
	<input type="checkbox"/> Dewvaporation or Atmospheric Pressure Desalination	<input checked="" type="checkbox"/> Rainfed Agriculture
	<input type="checkbox"/> Fog Collection	<input type="checkbox"/> Waterbag Transport/Storage Technology
<b>Does the Project Meet Prop 84 Water Goals?</b>		
Does the project increase supply reliability (conservation, local projects, new annual yield)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the project provide for stormwater management (capture, storage, treatment cleanup, etc)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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Does the project provide open space/parks/recreation (open space/parks created)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does the project reduce non-point source pollution?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the project provide for groundwater recharge and storage?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the project remove salts (through desalination, recycling, treatment, etc)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the project provide multi-purpose flood management?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the project provide for drinking water treatment and distribution?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

Please provide technical basis supporting "yes" responses.

- a.) This project will provide reliable current information which will be used in water management plans designed to increase water supply reliability, water use efficiency and conservation.  
The result of the research and studies included in this project will result in the development of a tool which will help quantify the amount of groundwater recharged and will help manage ground water use. In doing so the region will understand what needs exist as in terms of additional conservation efforts to increase groundwater levels or how better to efficiently manage the existing groundwater, such as limiting development or requiring new developments to implement recharge projects to offset their demand on the limited supply.
- b.) Storm water capture, storage, treatment, and management.
- c.) NPS pollution reduction, management, and monitoring.
- d.) Groundwater recharge and management projects; this project will result in a tool used to help quantify groundwater recharge and evaluate water resource use throughout the area.
- e.) Contaminant and salt removal through reclamation, desalting and other treatment technologies.
- f.) Water banking, water exchange, water reclamation, and improvement of water quality.
- g.) Planning and implementation of multipurpose flood control programs that protect property, and improve water quality, storm water capture and percolation and protect or improve wildlife habitat. This project will result in a tool which will help identify current storm water capture and percolation capacity in local aquifers.
- h.) Watershed management planning and implementation and demonstration projects to develop new drinking water treatment and distribution methods..

**Where do the Benefits of the Project Accrue**

What percentage of the watershed population will directly benefit from this project?  0-33%  34-66%  67-100%

**Does the Project Provide Environmental Justice Benefits?**

Does the project negatively impact disadvantaged or tribal communities?  Yes  No  
 Does the project provide direct benefits to disadvantaged communities (including tribal communities meeting disadvantaged community description)?  Yes  No

**What Costs Are Associated with the Project?**

What is the capital cost for the project? \$ 1.38 Million  
 What is the projected annual O&M budget? \$ 0.00 Million  
 Are funds available to cover O&M costs identified?  Yes  No

**Does the Project Have Match Funding Secured?**

Has DWR waived the matching requirement?  Yes  No  
 Does the project have the full required funding match secured for the funding program (25% for Planning and Implementation grants, 50% for Stormwater grant, etc.)?  Yes  No

**Are There Sustainability Features in the Project?**

Does the project provide measures to reduce greenhouse gas emissions?  Yes  No  
 Does the project provide measures to increase energy efficiency?  Yes  No  
 Will the project achieve LEED (Leadership in Energy and Environmental Design) certification?  Yes  No  
 Does the project incorporate LID (Low Impact Development) techniques?  Yes  No

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

Please provide technical basis supporting "yes" responses.

Anza is a small Disadvantaged Community of 10,000 or more inhabitants. The mapping of census data done for the IRWMP (2007) shows that the entire area lies well below the 80% median household income level specified in the Prop84 bond act. Additionally, note that Anza's K-12 schools are designated as Title-1 schools because 90% of the last school year's students qualified for free or reduced-cost lunch program, the qualification being based on below-normal household income. The USGS was prepared to contribute \$495,175 of the \$1.38 million needed for the entire USGS project. It may be possible to again obtain a federal cost-sharing commitment.

**What is the Status of Your Project Readiness?**

Item	Complete	In process	Not initiated
Conceptual Plans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Tenure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preliminary Plans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CEQA/NEPA Date Completed or Expected: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Is the Project Proponent/Agency an Urban Water Supplier?**

*(if yes, please complete the following boxes)*

Urban Water Suppliers who will receive funding from the proposed grant:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Those listed must submit self certification of compliance with California Water Code (CWC) § 525 et seq. and AB1420.	<input type="checkbox"/> Complete	
Have all urban water suppliers submitted complete urban water management plans to DWR? Have those plans been verified as complete by DWR?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

If not, please explain:

N/A

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

<b>Geographic and Legislative Information</b>	
Latitude and Longitude	33.555028-116.67363
Assembly District	64
Senate District	37
US Congressional District	45

**PROJECT BUDGET SUMMARY**

Other Contribution	\$
Local Contribution	\$
Federal Contribution Possible contribution based on the 2007 estimate	\$ 495.88
In-kind Contribution	\$
Amount Requested	\$
Total Project Cost	\$ 1,377,750.00

**DWR REQUIRED ATTACHMENTS**

**INSTRUCTIONS FOR ATTACHMENTS**

Until the Round 2 Implementation and Planning Grant Proposal Solicitation Packages (PSPs) are released by DWR, please refer to the Round 1 Proposal Solicitation Packages, dated August 2010, and the examples (USMW Round 1 Implementation Grant and Planning Grant Submittals to DWR).

**DWR Round 1 Proposal Solicitation Packages:**

**Implementation Grant:**

**[http://www.water.ca.gov/irwm/docs/ImplementationGrants/Prop84\\_Round1/Imp\\_PSP\\_Final\\_10\\_7\\_10\\_Public.pdf](http://www.water.ca.gov/irwm/docs/ImplementationGrants/Prop84_Round1/Imp_PSP_Final_10_7_10_Public.pdf)**

**Planning Grant:**

**[http://www.water.ca.gov/irwm/docs/PlanningGrant/Prop84\\_Round1/Final\\_Planning%20PSP\\_072010.pdf](http://www.water.ca.gov/irwm/docs/PlanningGrant/Prop84_Round1/Final_Planning%20PSP_072010.pdf)**

**USMW Round 1 Implementation and Planning Grant Submittals to DWR:**

**<https://www.ranchowater.com/irwmp.aspx>**

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

**Implementation Grant Projects**

<p><b>Attachment A: Work Plan</b></p> <p>The goals and objectives of the Proposal must be identified. Based on the goals and objectives of the Proposal, a description of all work that will be necessary to complete the project or suite of projects (if a component of a larger project) must be included in this section. The Work Plan should include a description of work to be performed under each task and deliverables for assessing progress and accomplishments. The description should include as much detail as possible, and explain all tasks necessary to complete the Proposal and how the applicant will coordinate with the DWR. The tasks described in the Work Plan must agree with the tasks shown on the Budget and Schedule. Additionally, the application must describe how the Proposal is consistent with the adopted IRWM Plan.</p>	<input type="checkbox"/> <b>Attached</b>
<p><b>Attachment B: Budget</b></p> <p>The Proposal must provide a detailed estimate of costs. The estimate must at a minimum include the following:</p> <ul style="list-style-type: none"> <li>• Land costs, planning and design costs, environmental compliance and documentation costs; construction costs shown by project task or phase; and contingency amount for the Proposal</li> <li>• All sources of the funding match; eligible funding match amounts can include, subject to DWR approval, prior costs borne by the project proponent after September 30, 2008.</li> <li>• The amount of funding match applied to each task, eligible costs consist of those costs incurred after the date of the grant agreement is executed.</li> <li>• Any other State funds being used that will not come from this grant.</li> <li>• Tasks that are complete supported by funding match.</li> </ul> <p>The detailed budget should be commensurate with the design stage that is being submitted and be broken out by task used in the work plan.</p>	<input type="checkbox"/> <b>Attached</b>
<p><b>Attachment C: Schedule</b></p> <p>Provide a schedule for implementation of the Proposal showing the sequences and timing of the project. The schedule must show start and end dates as well as milestones for each task contained in the Work Plan and should be in a horizontal bar or Gantt chart format. The schedule should also illustrate any dependencies or predecessors by showing links between tasks.</p>	<input type="checkbox"/> <b>Attached</b>
<p><b>Attachment D: Monitoring, Assessment, and Performance Measures</b></p> <p>Describe the performance measures that will be used to quantify and verify project performance. Provide a discussion of the monitoring system to be used to verify project performance with respect to the project benefits or objectives identified in the Proposal. Indicate where the data will be collected and the types of analysis to be used. Include a discussion of how monitoring data will be used to measure the performance in meeting the goals and objectives of the IRWM Plan.</p>	<input type="checkbox"/> <b>Attached</b>
<p><b>Attachment D: Economic Analysis: Water Supply Costs and Benefits</b></p> <p>Water Supply Benefits may include, but are not limited to:</p> <ul style="list-style-type: none"> <li>• Avoided water supply purchases, including those for environmental purposes</li> <li>• Avoided water shortage costs</li> <li>• Avoided operations and maintenance costs</li> <li>• Avoided water supply projects</li> </ul> <p>If possible, each such benefit should be quantified and presented in physical or economic terms, using existing information or reasonable effort. If benefits cannot be quantified, explain why and justify.</p>	<input type="checkbox"/> <b>Attached</b>
<p><b>Attachment E: Water Quality and Other Expected Benefits</b></p> <p>If the Project does not have Water Quality and Other Expected Benefits, applicants must describe such benefits. If possible, each such benefit should also be quantified and presented in physical or economic terms. If not possible to quantify the benefits, please include an explanation and justification of why it cannot be done.</p>	<input type="checkbox"/> <b>Attached</b>

**INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWM Plan)  
Upper Santa Margarita Watershed (USMW) Region**

**Planning Grant Projects**

<b>Attachment A: Work Plan</b>	<input type="checkbox"/> <b>Attached</b>
<p>Work plan tasks are specific tasks that will be performed as part of the proposal. These tasks should be consistent with the budget and schedule. If the proposal is selected for funding, the task descriptions will be used as the scope of work in a grant agreement. Therefore, task descriptions need to have sufficient detail such that the reviewer understands the work to be performed and is able to evaluate the adequacy of the proposal. The work plan must contain, as specific tasks, the submittal of: quarterly reports, a final report, and other written documents expected to be generated during performance of the proposal. Detailed task descriptions must be supported with the estimates used in the budget. Explain the applicants plan, proposed efforts, and approach to environmental compliance including addressing any California Environmental Quality Act (CEQA) obligations in connection with the proposal.</p>	
<b>Attachment B: Budget</b>	<input type="checkbox"/> <b>Attached</b>
<p>The budget must be consistent with the work plan and schedule. For each work plan task, a budget line item estimate should be presented, as well as a breakdown of the applicant's funding match and requested grant funds. The information presented should allow the reviewer to understand how the budget estimate was developed. Supporting information for the budget includes labor categories, hourly rates, labor time estimates, and subcontractor quotes. The minimum Funding Match is 50% of the total proposal costs. The sources for funding match must be identified. Applicants should read the discussion on reimbursement of costs in section V.K of the Guidelines. Applicants are encouraged to limit direct project administrative expenses to less than 5% of the total proposal costs. Such administrative expenses are the necessary costs incidentally, but directly related to the proposal.</p>	
<b>Attachment C: Schedule</b>	<input type="checkbox"/> <b>Attached</b>
<p>Provide a schedule for implementation of the Proposal showing the sequences and timing of the project. The schedule must show start and end dates as well as milestones for each task contained in the Work Plan and should be in a horizontal bar or Gantt chart format. The schedule should also illustrate any dependencies or predecessors by showing links between tasks.</p>	

<p>Additional space for any text information extending beyond limits:</p>
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# **ACTION ITEMS/DISCUSSION CALENDAR**

**MEMORANDUM OF UNDERSTANDING BY AND  
BETWEEN THE WESTERN RIVERSIDE COUNTY  
REGIONAL CONSERVATION AUTHORITY AND  
THE INLAND EMPIRE RESOURCE  
CONSERVATION DISTRICT REGARDING HABITAT  
MANAGEMENT PURSUANT TO THE WESTERN  
RIVERSIDE COUNTY HABITAT CONSERVATION  
PLAN**

This Memorandum of Understanding ("MOU") is entered into by and between the Western Riverside County Regional Conservation Authority ("RCA"), a public agency and joint powers authority, and the Inland Empire Resource Conservation District ("IERCD"), a California public agency, as of the date set forth below. RCA and IERCD are sometimes referred to in this MOU individually as a "Party," or collectively as the "Parties."

**RECITALS**

**WHEREAS**, RCA is a public agency and joint powers authority created pursuant to the provisions of Government Code section 6500 et seq. The RCA is composed of nineteen (19) member agencies, including the County of Riverside and eighteen cities within the western part of the County, for purposes of wildlife and plant life conservation and to provide primary policy direction for implementation of the Western Riverside County Multiple Species Habitat Conservation Plan ("MSHCP");

**WHEREAS**, IERCD is a resources conservation district formed and governed under Division 9 of the California Public Resources Code, and for the purposes of providing conservation, restoration and education and outreach services within its service area.

**WHEREAS**, the Parties share a common interest in sustaining the integrity of regional biological and natural systems and the human and economic values they support in Western Riverside County;

**WHEREAS**, the MSHCP, of which RCA was a signatory, went into effect in June 2004, and was designed to meet the challenge of rapid urbanization by providing for the conservation of significant habitat and the preservation of endangered, threatened, and rare species in a coordinated and efficient manner; and

**WHEREAS**, one of RCA's primary responsibilities is to acquire or document the acquisition of property for assembly of the MSHCP Conservation Area, including lands qualifying as Additional Reserve Lands, defined as conserved habitat totaling approximately 153,000 acres needed to meet the goals and objectives of the MSHCP (MSHCP Implementing Agreement, section 3.3 at p. 4), and Public/Quasi-Public Lands, meaning that subset of MSHCP Conservation Area lands totaling approximately 347,000 acres of lands known to be in public/private ownership and expected to be managed for open space value and/or in a manner that contributes to the conservation of species covered by the MSHCP (MSHCP Implementing Agreement, section 3.90 at p. 13).

**WHEREAS**, efforts to coordinate conservation programs among local, state, and federal agencies in California are well-established. This MOU establishes a partnership between the RCA and IERCD to cooperate in the implementation of the MSHCP.

**WHEREAS**, one of RCA's responsibilities is to encourage the exchange of information regarding Public/Quasi-Public (PQP) Lands, meaning that subset of MSHCP Conservation Area lands totaling approximately 347,000 acres of lands known to be in public/private ownership and that are managed for conservation and/or open space value and/or in a manner that contributes to the conservation of species covered by the MSHCP (MSHCP Implementing Agreement, section 3.90 at p. 13);

**WHEREAS**, one purpose of this MOU is to encourage the IERCD to manage self-sustaining conservation areas with three primary management goals, 1) maintain or improve habitat conditions and ecosystems functions within the MSHCP Conservation Area, 2) manage natural processes so that species diversity is maintained along with overall ecosystem health, 3) reduce disturbance regimes and minimize threats that affect habitats and natural communities in the MSHCP Conservation Area.;

**WHEREAS**, as further identified in Exhibit "A" IERCD owns certain parcels of land in fee title or under conservation easements that are located within the Criteria Cells ("ARL Interests"); and

**WHEREAS**, a second purpose of this MOU is to confer take to IERCD pursuant to Sections 13.1 and 18.0 of the Implementing Agreement to conduct management and monitoring activities on IERCD-controlled property in compliance with the Implementing Agreement, the Permits and the MSHCP (including, but not limited to, page 7-66); and

**WHEREAS**, the Parties desire to enter into this MOU to satisfy the goal of management and adaptive management practices of conserved land in accordance with Section 5.2 of the MSHCP.

**NOW, THEREFORE, in consideration of the covenants and conditions set forth herein, RCA and IERCD hereto agree as follows:**

1. Incorporation of Recitals. The Parties hereby affirm the facts set forth in the Recitals above and agree to the incorporation of the Recitals as though fully set forth herein.

2. Definitions. Unless otherwise defined by this MOU, all capitalized terms in this MOU will have the same definition as the MSHCP and the Implementing Agreement. Specifically,

(a) “General Management Measures” is defined in Section 5 of the MSHCP, specifically starting at page 5-4.

(b) “Habitat” is defined in Section 3.53 of the Implementing Agreement.

3. Authority. This MOU does not modify or supersede existing statutory direction of the signatories.

4. Management.

(a) Management Goals. The overriding management goal of the MSHCP is to establish and maintain a self-sustaining MSHCP Conservation Area, which focuses on conserving Covered Species and their Habitats. In furtherance of the satisfaction of this goal, IERCD agrees to manage its PQP [and ARL] Lands as identified in Exhibit A consistent with the MSHCP by maintaining and/or improving habitat conditions and ecosystem functions on such lands.

(1) The RCA agrees to provide any available digital files and hard copy maps of the PQP and ARL Lands to IERCD upon request. IERCD likewise agrees to provide the RCA with any available digital files and hard copy maps of the same. The IERCD will provide updated information by December 31 of each year.

(2) IERCD further agrees to provide any further information it possesses regarding types of vegetation and quality of vegetation on the lands it manages within the MSHCP Plan Area to the RCA.

(b) General Management Measures. In connection with its management of the PQP and ARL Lands identified in Exhibit A, IERCD will not undertake any action that will be adverse to the General Management Measures identified in Section 5 of the MSHCP, which General Management Measures address the processes, threats, and disturbances that affect habitat and on sustaining sufficient species diversity to maintain the health of the particular ecosystem. IERCD’s management will include reasonable measures to control disturbance regimes that include illegal trespass (e.g., dumping, vandalism and off-road vehicle use); altering the natural fire regime (fires too frequent or too infrequent); and habitat disturbance. Typical responses to these disturbance regimes may include, in IERCD’s discretion, controlling public access through appropriate fencing, gates, and signage, and trash removal.

(c) Monitoring. IERCD will grant a right of entry onto the PQP and ARL Lands by RCA staff, or its designees, to carry out biological monitoring activities required by the MSHCP.

5. Management Take. IERCD agrees to comply with the MSHCP Management Guidance Document (October 2010, or any amendment or updates thereto), Implementation for Non-RCA Participating Reserve Managers, when requesting take for management activities.

6. Costs and Expenses. The Parties agree that additional costs that may be related to or a result of "Adaptive Management" or increased management costs which may occur under the Adaptive Management Program (Section 5.2 of the MSHCP) may be agreed to in advance of implementation and reimbursed to the IERCD by the RCA from MSHCP Reserve Management Budget funds approved by the RCA Board.

7. Term. The term of this MOU shall continue for the life of the 75 year permit [i.e., until 2079]. The Parties intend for this MOU to remain enforceable for the life of the MSHCP and any successor conservation plan.

8. Additional Lands. IERCD may include additional fee title ownership or conservation easements within the MSHCP under the terms of the MOU by submitting a grant deed or recorded easement to the RCA.

9. Termination. This MOU can be terminated by either party with 90 days notice. Take granted for monitoring or management to the IERCD will terminate on the same date as the MOU termination.

10. Dispute Resolution. The Parties will work collaboratively to resolve issues associated with management take by taking the following steps:

(a) The Parties will make every effort to expeditiously resolve any disagreements. If resolution cannot be accomplished promptly during regularly scheduled meetings and conference calls, a further attempt to reach resolution will be promptly attempted in an interim meeting or conference call dedicated to the purpose of resolving the disagreement. All Parties agree to elevate the decision to successively higher levels within each organization until consensus is reached.

11. Notices. The persons and their addresses having authority to give and receive notices under this MOU are:

IERCD:  
Inland Empire RCD  
25864-K Business Center Drive  
Redlands, CA 92374  
Attn: District Manager  
Phone: (909) 799-7407

RCA:  
Western Riverside County Regional  
Conservation Authority  
Attention: Executive Director  
P.O. Box 1667  
3403 Tenth St., Suite 320  
Riverside, CA 92502-1667  
Phone: (951) 955-9700  
Facsimile: (951) 955-8873

Any notices from either Party to the other shall be given in writing to the attention of the persons listed above, or to other such addresses or addressees as may hereafter be designated in writing for notices by either Party to the other. Notice shall be served personally, sent by facsimile, overnight mail by a reputable courier, or by first class mail, postage prepaid.

12. Indemnification. RCA shall indemnify and hold IERCD, its officers, agents and employees free and harmless from liability to any person or entity not a Party to this MOU from any damage, loss or injury to person and/or property which relates to or arises from the negligence or willful misconduct of the RCA, its officers, agents or employees in the execution or implementation of this MOU. IERCD shall indemnify and hold RCA, its officers, agents, or employees free and harmless from liability to any person or entity not a Party to this MOU from any damage, loss or injury to person and/or property which relates to or arises from the negligence or willful misconduct of IERCD, its officers, agents or employees in the execution or implementation of this MOU.

13. Authority. This MOU does not modify or supersede existing statutory direction to any signatory to the MSHCP or the provisions of the MSHCP and is voluntarily entered into between the Parties.

14. Miscellaneous.

(a) Neither Party may assign its rights or obligations under this MOU without the express written consent of the other Party.

(b) This MOU contains the entire understanding between the Parties with respect to its subject matter, and supersedes all prior agreements, oral or written, and all prior or contemporaneous discussions or negotiations between the Parties. This MOU cannot be amended except in writing signed by both Parties.

(c) The Parties shall fully cooperate with one another, and shall take any additional acts or sign any additional documents as may be necessary, appropriate, or convenient to attain the purposes of this MOU.

(d) If any portion of this MOU is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.

(e) No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a Party shall give the other Party any contractual rights by custom, estoppel, or otherwise.

(f) This MOU and all documents executed and delivered in connection herewith shall be governed by the laws of the State of California. The Parties agree to the jurisdiction and venue of the appropriate court(s) in the County of Riverside, State of California.

(g) If any legal action or other proceeding is brought for the enforcement of this MOU, the prevailing Party shall be entitled to recover reasonable attorneys' fees, expenses, and other costs incurred in that action or proceeding in addition to any other relief to which such Party may be entitled.

IN WITNESS WHEREOF, the Parties have executed this Memorandum of Understanding as of the last date set forth below ("Effective Date").

[INLAND EMPIRE RESOURCE  
CONSERVATION DISTRICT, a public  
agency

WESTERN RIVERSIDE COUNTY  
REGIONAL CONSERVATION  
AUTHORITY, a public agency and joint  
powers authority

Date: 9-13-2012

Date: 10/2/2012

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: Paul C. Williams

Name: \_\_\_\_\_

Paul Williams  
President, Board of Directors

Charles V. Landry  
Executive Director

*Approved as to Form:*

Name: \_\_\_\_\_

Best Best & Krieger LLP  
General Counsel

**EXHIBIT A  
ARL LANDS**

**LEGAL DESCRIPTION AND DEPICTION OF PROPERTY**

# IERCD Goose Creek Golf Club Conservation Easement

117°33'0"W

117°32'0"W

117°31'0"W

EXHIBIT A

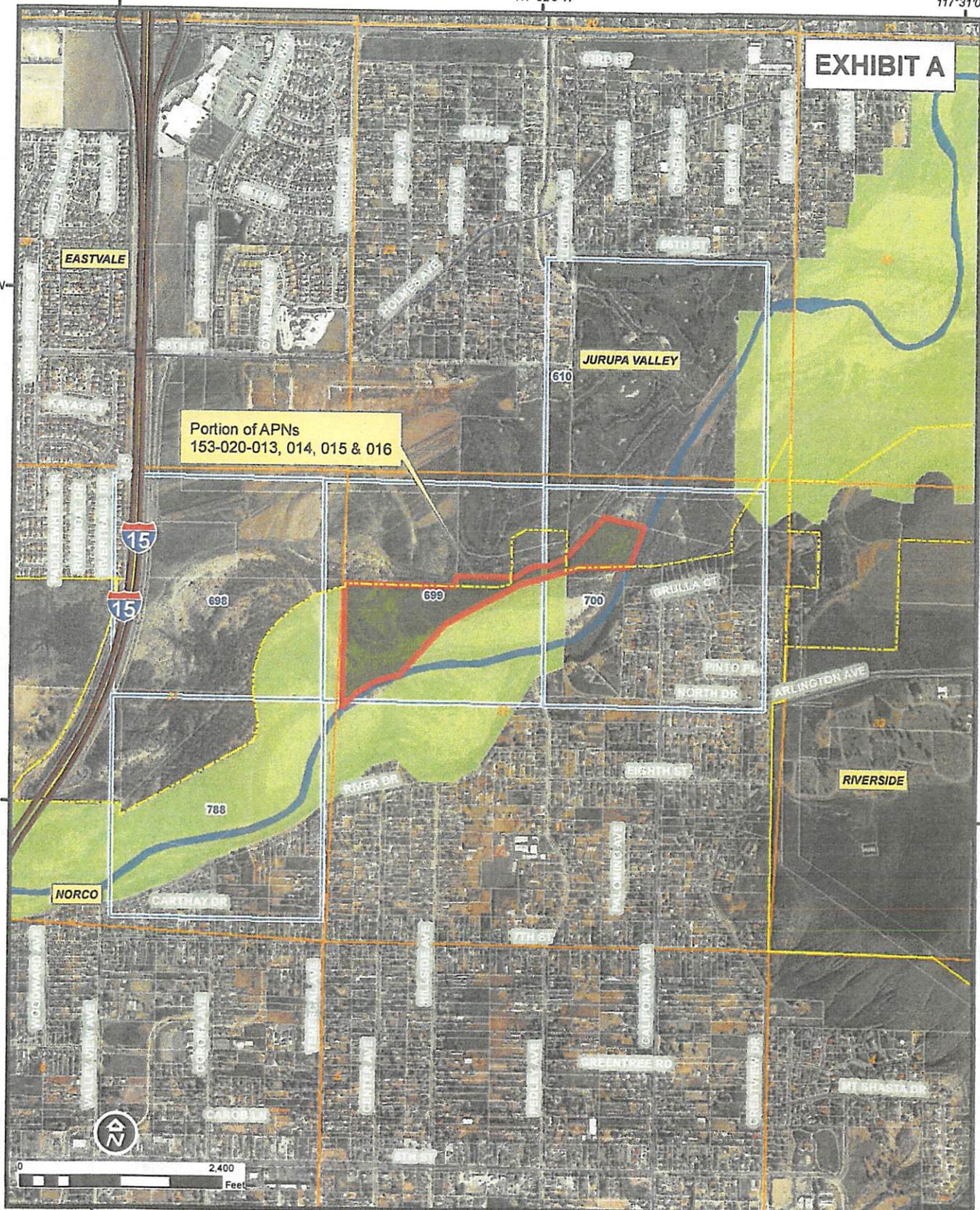
33°58'0"N

33°58'0"N

Portion of APNs  
153-020-013, 014, 015 & 016

33°57'0"N

33°57'0"N



117°33'0"W

117°32'0"W

117°31'0"W

- IERCD ARL Conservation Easement
- RCA MSHCP Conserved Lands
- Public Quasi/Public Conserved Lands
- RCA MSHCP Conservation Easements

- Criteria Cells
- City Boundaries
- Major Lakes and Rivers
- Sections
- Highways



Rough Step Unit 1  
Portion of Section 32, T2S R6W

October 2, 2012

# **OLD BUSINESS**



ELSINORE-MURRIETA-ANZA RESOURCE CONSERVATION DISTRICT  
WELCOMES YOU TO THE  
CARCD SPRING 2016 SOCAL INLAND REGION MEETING  
SATURDAY, MAY 14<sup>TH</sup>  
11 AM – 2 PM

**DRAFT AGENDA**

- Location:** *Fazeli Winery, 37320 De Portola Road, Temecula, CA 92590*  
*1-951-303-3366*
- 11:00 AM. Registration
- 11:15 AM Welcome from EMA Acting President Rose Corona and EMARCD Board of Directors  
Roll call and introductions  
Approval of the Minutes from the Fall 2015 Area Meeting and Spring 2016 Special Meeting  
Treasurer's report
- 11:30 AM Presentation: Speaker TBD; National Oceanic and Atmospheric Administration (NOAA);  
addressing membership in El Niño's impact on California's megadrought
- 12:00 PM Lunch  
Speaker: Fazeli family representative presenting on green initiatives at the winery  
SoCal Inland Region Auction
- 12:30 PM Action Items  
  1. Discussion and Possible Approval of SoCal Inland Region Name Change
  2. Discussion and Possible Approval of Bank Signature Card List
- 1:00 PM Discussion Items  
  1. Review and Discussion of SoCal Inland Leadership Handbook
- 1:30 PM Agency Reports:  
Natural Resources Conservation Service (NRCS)  
California Association of Resource Conservation Districts (CARCD)  
California Department of Conservation (DOC)  
So Cal Inland Region Resource Conservation Districts- Brief Updates & Reports
- 2:00 PM. Adjourn



## Site Description

Victor & Martha Cohen Acct. #5 [REDACTED]

Crop Type	Avocado	Crop Age	30 years	Sprinkler Type/GPH*	8.5
Acres	13	Canopy Diameter	16	Wetted Radius*	7.5
Tree Spacing	20 by	20	Wetted Area	177 ft2	
Sprinklers per tree	1				
Meter Size	1 1/2"	Submain Size	2" & 1 1/2" PVC	max emitters/lateral	14
Main Line Size	2" PVC	Lateral Type/Size	1/2" poly	max emitters/set	350

## Soil Type

### Sandy Loam

Available Water Holding Capacity	0.14 inches per inch
Root Depth	20 inches

## Summary of Audit Findings

Audit Date	4/11/2016
Average Lateral Line Pressure	23 PSI
Average Sprinkler Flow	8 GPH
Distribution Uniformity Findings	91%

## Audit Data

Audit Data is included on separate page

## Recommendations for Improvements

System looks great!

\*\*Receipts were given to auditor at time of inspection and Mission RCD will submit receipts to RCWD

Recommended Sprinkler Flow	8.5 GPH	Wetted Radius	7.5 feet
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## Parts List and Cost Estimate (please include list of parts or attach quote/invoice)

Part	Cost	Quantity	Total
------	------	----------	-------

Total \$0.00

## Estimated Water Savings Resulting From Improvements

Budget Based on Current Uniformity	Budget Based on Improved Uniformity
4.18 AF per acre per year	4.23 AF per acre per year

10 Years of Water Savings	-5.99 AF	50% of Equipment Costs	\$0
Potential Funding from MWD	-\$1,168.38		

## **Irrigation Schedule\***

	<b>Runtime</b>	<b>Frequency</b>	
JAN	10.9 hours	every	10.5 days
FEB	10.9 hours	every	11.4 days
MAR	10.9 hours	every	6.5 days
APR	10.9 hours	every	7.4 days
MAY	10.9 hours	every	5.5 days
JUN	10.9 hours	every	4.9 days
JUL	10.9 hours	every	4.9 days
AUG	10.9 hours	every	5.1 days
SEP	10.9 hours	every	5.9 days
OCT	10.9 hours	every	8.3 days
NOV	10.9 hours	every	9.6 days
DEC	10.9 hours	every	10.1 days

\*This irrigation schedule is a general estimate based on 2006/2007 weather conditions. The schedule does not take into account irrigation system inefficiencies, rainfall, or leaching requirements. Please review your property's water allocation before considering the implementation of this schedule.

Pressure			Flow			Combined Block Summary	
BLOCK 1	BLOCK 2	BLOCK 3	BLOCK 1	BLOCK 2	BLOCK 3		
8 values	8 values	8 values	20 values	20 values	20 values		
26	25		100	130		Pressure (average all)	23
24	24		150	130		Pressure (average low 1/4)	21
22	23		150	120		Overall Pressure Uniformity	90%
21	22		130	130		Flow (average all)	8.5
22	24		160	140		Flow (average low 1/4)	7.8
21	22		150	130		Overall Flow Uniformity	92%
25	20		120	130		Overall Global Uniformity	91%
23	21		130	130			
			130	140			
			130	140			
			130	120			
			130	130			
			140	130			
			130	140			
			130	130			
			120	150			
			140	140			
			140	140			
			140	130			
			130	130			
						Block Identification	

	Individual Block Uniformity	BLOCK 1	BLOCK 2	BLOCK 3
	Pressure (average all)	23	23	#DIV/0!
	Pressure (average low 1/4)	21	20.5	#NUM!
	Pressure Uniformity	91%	91%	#NUM!
	Max Pressure	26	25	0
	Min Pressure	21	20	0
	Flow (average all)	8.5	8.4	#DIV/0!
	Flow (average low 1/4)	7.6	8.0	#NUM!
	Flow Uniformity	90%	95%	#NUM!
	Max Flow Rate	10.2	9.5	0.0
	Min Flow Rate	6.4	7.6	0.0
	Individual Block Uniformity	90%	93%	#NUM!



P.O. BOX 562, TEMECULA, CA 92593  
 (RANCHO CALIFORNIA INDUSTRIAL PARK)  
 28074 DEL RIO ROAD, TEMECULA, CA 92590  
 PH: (951) 676-5678 • FAX: (951) 676-0764

Customer No. [REDACTED]	Job No. [REDACTED]	Purchase Order No. [REDACTED]	Reference	NET 30 DAYS	TERMS	DCH	Clerk	3/25/16	8:29
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Sold To  
**VICTOR & MARTHA COHEN**  
 [REDACTED]

Ship To  
 [REDACTED]

DOC# [REDACTED]  
 \*\*DUPLICATE\*\*  
 \* INVOICE \*  
 \*\*\*\*\*  
 TERM# 555  
 DH DOUG HARRIS  
 003 OUT OF STATE/MAIL ORD  
 SLSPR:  
 TAX :

SHIPPED	ORDERED	UM	SKU	DESCRIPTION	UNITS	PRICE/PER	EXTENSION	
40	EA	IPSI00430	3/8" STAKE & TUBE ASSY (SSA&SAM)	SUGG	40	.682/EA	27.28 N	
50	EA	5102202	SPOT 3/8" MIPT x 10/32 ADAPT		50	.33 /EA	16.50 N	
50	EA	TORNADO	TORNADO RAY JET		50	.178/EA	8.90 N	
4	EA	NDS12	DURA RECT. 12" VALVE BOX & LID		4	20.705/EA	82.82 N	
1	EA	2150	IRROMETER SERVICE KIT		1	52.50 /EA	52.50 N	
							TAXABLE	0.00
							NON-TAXABLE	188.00
							SUBTOTAL	188.00
							TAX AMOUNT	0.00
							TOTAL AMOUNT	188.00

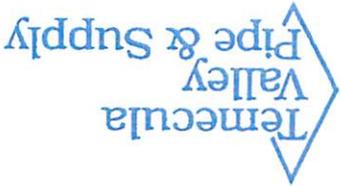
\*\* PAYMENT RECEIVED \*\*  
 \*\* PAID IN FULL \*\*

Return Policy 60 Days with receipt.

BANKCARD PAYMENT  
 [REDACTED]

X

PLEASE PRINT NAME  
 Received By



P.O. BOX 562, TEMECULA, CA 92593  
 (RANCHO CALIFORNIA INDUSTRIAL PARK)  
 28074 DEL RIO ROAD, TEMECULA, CA 92590  
 PH: (951) 676-5678 • FAX: (951) 676-0764

Customer No. [REDACTED]	Job No.	Purchase Order No.	Reference	Terms NET 30 DAYS	Clerk JOSE	Date 3/28/16	Time 8:04
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Sold To  
 VICTOR & MARTHA COHEN  
 [REDACTED]  
 [REDACTED]

Ship to  
 [REDACTED]

DOC# E89141  
 \*\*DUPLICATE\*\*  
 \* INVOICE \*  
 \*\*\*\*\*  
 TERM#561  
 TAX : 003 OUT OF STATE/MAIL ORD

SHIPPED	ORDERED	UM	SKU	DESCRIPTION	SUGG	UNITS	PRICE/PER	EXTENSION
5	FT	4012	1 1/4" X 20' SCH 40 PVC BELL END	.69	5	.431/FT	2.15 N	



\*\* PAYMENT RECEIVED \*\*  
 \*\* CHANGE GIVEN \*\*  
 CASH PAYMENT  
 3.00 TAXABLE  
 0.84 NON-TAXABLE  
 2.16 SUBTOTAL  
 0.00 TAX AMOUNT  
 2.16 TOTAL AMOUNT

Return Policy: 60 Days with receipt.

PLEASE PRINT NAME

Received By

X

**DRAFT ROLLING CALENDAR-SAMPLE ONLY**

PROJECT NAME	REQUIRED WORK	Time Frame	DUE BY/DEADLINE	CONTACT CLIENT/COMPANIES	RFP OUT BY?	RFP DEADLINE	VOTED ON BY	ALSO FOR?	DUE
Greer Ranch	Yearly Report	July-August	August of each yr	Advise June RFP	June 1 each year	7/1/2016	CLOSEST MTG	CDFW ANNUAL REPORT	April 1 each yr
	Quarterly Visits			1st of each qtr	ema to visit HOA				
Adeline Farms	Yearly Report	July August	August of each yr	Advise June RFP	June 1 each year	7/1/2016	CLOSEST MTG	CDFW ANNUAL REPORT	April 1 each yr
Clinton Keith	Yearly Report	August-September	October, 2015	July 15 each year	June 1 each year	7/1/2016	CLOSEST MTG	CDFW ANNUAL REPORT	April 1 each yr
Fairway Estates	vegetation removal	Sept 15-March 15	Prior/after nesting season	July 15 each year		7/15/2016	8/15/2016	CLOSEST MTG	CDFW ANNUAL REPORT
Annual Audit	yearly audit report	July1, 2015-June 30, 2016	October, 2015	April each year		4/16/2016	6/1/2016	6/9/2016	Board of Supervisors
Year end financials	Financials for year	July1, 2015-June 30, 2016	August 1 of each year	April of each year		4/16/2016	6/1/2016	6/9/2016	State
State Report		July1, 2015-June 30, 2016	August 1 of each year	April of each year		4/16/2016	6/1/2016	6/9/2016	State
Form 700 Filings	Conflict of Interest file	Year to yr-Jan-December	April 1 each year	January-make board aware	n/a	n/a	n/a	State Requirement	April 1 each yr



April 15, 2014

**Joanna Gibson**  
Environmental Scientist  
CALIFORNIA DEPARTMENT OF FISH AND GAME  
3602 Inland Empire Boulevard  
Suite C-220  
Ontario, CA 91764

**REGARDING:** NOTICE OF COMPLETION HABITAT CREATION AND RESTORATION - ONSITE. FOR MORGAN HILL RESIDENTIAL DEVELOPMENT, TEMECULA, CA, APNs 966-390-001 966-390-002, 966-390-003 AND 966-390-004, COUNTY OF RIVERSIDE, CALIFORNIA. (SAA NO. 1600-2011-0254-R6)

Dear Ms. Gibson:

L & L Environmental, Inc. (L&L), on behalf of D.R. Horton, is submitting this notice of completion for SAA 1600-201100254-R6 Section 3.1, 3.2 and 3.4.

**3.1 Habitat Creation and Restoration - Onsite. Permittee shall mitigate permanent project impacts to 0.474 acres of ephemeral streambed and riparian habitat through the creation and restoration of 1.29 acres of ephemeral streambed and riparian habitat onsite, within Drainage 1. Habitat "creation" activities shall include: Site preparation such as engineering, grading, and the removal of non-riparian/ wetland plant species, all nonnative plant species, trash and debris; Installation of temporary irrigation; and the installation of riparian and riparian upland transitional plant species where appropriate. Habitat "restoration" activities shall include: removal of nonnative plant species, trash, and debris; installation of temporary irrigation; and the installation of riparian and riparian-upland transitional plant species where appropriate. All onsite habitat creation and restoration activities described above shall be completed within 30 days of project completion. Permittee shall submit a report and photographs to DFG documenting the completion of the onsite riparian habitat and streambed creation and restoration within 60 days of project completion.**

*L: \SERVER\PROJECT FILES\UNIFIED PROJECTS\DRH-04-552 Doyle Ranch\Preconstruction Clearances - No Original Documents\Compliance\Notice of Completion of Conservation Area DRH-040552.doc*

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*Mailing Address: 700 East Redlands Blvd, Suite U, PMB#351, Redlands CA 92373  
Corporate Address: 5455 Morgan Ave, Riverside, CA 92509  
Delivery Address: 721 Nevada Street, Suite 307, Redlands, CA  
• Phone 951.681.4929 & 909-335-9897 • Fax 951.681.6531 & 909-335-9893*

Site preparation grading, and the removal of non-riparian/ wetland plant species completed on January 21, 2014. This completed grading and initial removal of non-riparian/ wetland plant species including removal of all trash and debris. Additional removal of non-riparian/ wetland plant species was completed on April 10, 2014.

Installation of temporary irrigation was completed September 25, 2013. System tested for coverage and met 100 percent coverage of habitat.

Initial Installation of riparian and riparian-upland transitional plant species completed on January 20, 2014. Watering commenced. Replacement of unhealthy riparian/wetland plant species completed April 15, 2014.

**3.2 Plant Palette. All plant species installed within the restoration sites shall include only local California native container plants, cuttings, and/or seed mix, and shall be typical of the existing native plant species present in the existing riparian areas within and adjacent to the project site. DFG recommends that plant material be installed between October 1 and April 30 to maximize the benefits of the winter rainy season.**

Hydro Seeding completed April 11, 2014. Final inspection and validation of plant placement completed April 15, 2014.

**3.4 Protection of Creation and Restoration Site. To protect the 1.29-acre creation and restoration site, Permittee shall place appropriate fencing and signage around the perimeter of the creation and restoration site to protect the site in perpetuity.**

Fencing of habitat completed January 15, 2014.

Signage completed April 11, 2014.

Should you have any questions or concerns, Please contact L&L at (909) 335-9897.

Sincerely,  
**L&L Environmental, Inc.**

Ann M. Lopez  
Regulatory Permitting

Cc: Vicki M. Gullion, D.R. Horton  
Courtney Stevens, ACOE File No. SPL-2011-01093-CLD  
Darren Bradford, RWQCB File No. 11C-101



Fencing North



Fencing South West



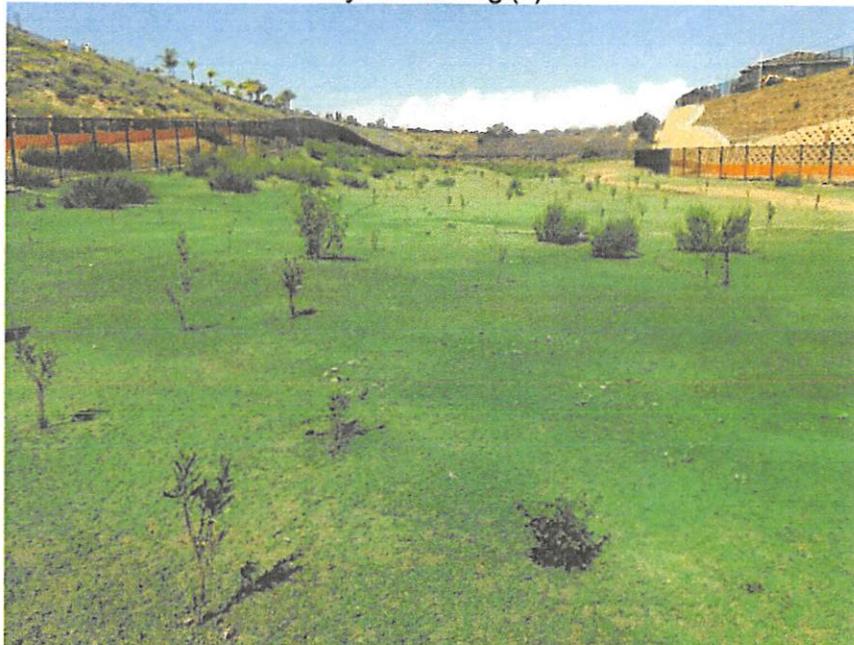
Temporary Irrigation (1)



Temporary Irrigation (2)



Hydro Seeding (1)



Hydro Seeding (2)



Final Inspection (1)



Final Inspection (2)

# **NEW BUSINESS**

# **ORAL/WRITTEN REPORTS**