

Proposal Full View

Applicant Information

Organization Name: San Diego County Water Authority *

Tax ID: 95600276

Proposal Name: San Diego IRWM Implementation Grant Proposal-Round 2 *

Proposal Objective: This San Diego IRWM Implementation Grant Proposal – Round 2 is a compilation of projects that will diversify water supply, improve water quality, restore native habitat, and manage flood flows throughout the region. This proposal includes the suite of projects best suited to meeting the current and future challenges of the San Diego Region. Each of these projects further contains synergies and linkages with other projects included in this Proposal, resulting in a truly integrated suite of projects that, when implemented together, will assist the region in meeting its critical water management needs in a real and measurable fashion. *

Budget

Other Contribution	\$2,325,407.00
Local Contribution	\$17,500,018.00
Federal Contribution	\$1,550,271.00
Inkind Contribution	\$0.00
Amount Requested	\$10,511,225.00 *
Total Project Cost	\$31,886,921.00 *

Geographic Information

Latitude *: DD(+/-) 32 MM 59 SS 33

Longitude *: DD(+/-) -116 MM 55 SS 39

Longitude/Latitude Clarification: <http://itouchmap.com/latlong.html>

Location: San Diego IRWM Region

County: San Diego *

Ground Water Basin: Batiquitos Lagoon Valley, Cottonwood Valley, El Cajon Valley, Escondido Valley, Mission Valley, Otay Valley, Pamo Valley, Potrero Valley, Poway Valley, Ranchita Town Area, San Diego River Valley, San Dieguito Creek, San Elijo Valley, San Luis Rey Valley, San Marcos Area, San Mateo Valley, San Onofre Valley, San Pasqual Valley, Santa Margarita Valley, Santa Maria Valley, Sweetwater Valley, Tia Juana, Warner Valley

Hydrologic Region: South Coast

Watershed: Carlsbad, Otay River, Pueblo, Penasquitos, San Diego River, San Dieguito River, San Juan, San Luis Rey River, Santa Margarita River, Sweetwater River, Tijuana River

Legislative Information

Assembly District: 71st Assembly District, 75th Assembly District, 76th Assembly District, 77th Assembly District, 78th Assembly District, 79th Assembly District, 80th Assembly District *

Senate District: 36th Senate District, 38th Senate District, 39th Senate District, 40th Senate District *

US Congressional District: District 42 (CA), District 49 (CA), District 50 (CA), District 51 (CA), District 52 (CA), District 53 (CA) *

Project Information

Project Name	Rural Disadvantaged Community Partnership F
Implementing Organization	n/a
Secondary Implementing Organization	Rural Community Assistance Corporation (RCAC) - primary implementing organization
Proposed Start Date	10/1/2013
Proposed End Date	1/1/2018
Project Scope	Provide funding to address inadequate water supply and water quality affecting rural DACs, including tribal communities.
	The Rural DAC Partnership Program, administered by RCAC, will fund critical water supply and water quality projects in rural DACs in San Diego County. Rural DACs lack the technical expertise and financial resources necessary to assemble the information needed to complete a complex grant application. Water supply infrastructure deficiencies will be identified and prioritized by the Rural DAC Stakeholder Committee and then funding will be provided via grant reimbursements to resolve those deficiencies. This program helps meet the critical DAC need for

<p>Project Description</p>	<p>safe, healthy, potable, supplies of water that are adequate to meet basic household and fire protection demands, while at the same time recognizing and responding to DACs' needs for technical and managerial support to even request funding for these basic water needs. RCAC will manage the Rural DAC Partnership Program to address inadequate water supply and water quality in rural DACs, including tribal communities, with populations less than 10,000. DACs will be selected using 2010 Census data. Projects will be selected based on need and priorities established by the Rural DAC Stakeholder Committee with an emphasis on critical water supply and water quality issues. Opportunities to merge related projects will be evaluated. Projects will be selected from both tribal and non-tribal rural DACs. In every case, RCAC will look at other available funding resources to leverage Prop 84 grant dollars. All projects will address inadequate, unsafe, or unreliable water supply and water quality in rural DACs based on priorities already identified by the Rural DAC Stakeholder Committee.</p>
<p>Project Objective</p>	<p>The project objectives are to: • Support rural DACs, including tribal communities, in implementing projects that will solve critical water or wastewater system issues. • Provide outreach and funding to DACs, including tribal communities, to achieve capacity development and sustainability. Support solutions that address public health risks. • Outreach to rural DACs, including tribal communities, to promote capacity development, sustainable infrastructure, and green operations.</p>
<p>Project Benefits Information</p>	

Project Objective

Budget

Other Contribution	2325407
Local Contribution	0
Federal Contribution	1550271
Inkind Contribution	0
Amount Requested	1943610
Total Project Cost	5819288

Geographic Information

Latitude DD(+/-)	32	MM 49	SS 47
Longitude DD(+/-)	-117	MM 7	SS 27
Longitude/Latitude Clarification		Location	San Diego IRWM Region - Rural outside

County San Diego Ground Water Basin Cottonwood Valley, El Cajon Valley, Pamo Valley, Potrero Valley, San Diego River Valley, San Luis Rey Valley, San Pasqual Valley, Santa Maria Valley, Warner Valley Hydrologic Region South Coast WaterShed
 Carlsbad, Otay River, Pueblo, San Diego River, San Dieguito River, San Luis Rey River, Santa

Legislative Information

Assembly District	71st Assembly District, 75th Assembly District, 77th Assembly District
Senate District	38th Senate District, 40th Senate District
US Congressional District	District 50 (CA), District 51 (CA), District 52 (CA), District 53 (CA)

Project Information

Project Name	Turf Replacement and Agricultural Efficiency P
Implementing Organization	San Diego County Water Authority
Secondary Implementing Organization	City of San Diego
Proposed Start Date	10/1/2013
Proposed End Date	12/31/2015
Project Scope	Promote outdoor water use efficiency through financial incentives.
Project Description	The Turf Replacement and Agricultural Irrigation Efficiency Program will provide financial incentives, technical assistance, on-site support and guidance, training, and resource lists to encourage and support projects that improve irrigation efficiency and reduce water use in urban landscapes and agricultural lands. There are two components of this program: 1. Turf Replacement Program: Turf replacement and irrigation upgrades will be incentivized through cash rebates once projects are completed according to program guidelines. The San Diego County Water Authority will manage the overall grant and administer the incentive program for customers participating throughout its service area, except for those customers located within the City of San Diego's (City's) service area. The City of San Diego Public Utilities Department (Water Conservation Program) will administer the incentive program for customers within its own service area and service areas for which it supplies wholesale water such as Coronado and Imperial Beach. The City of San Diego Transportation & Storm Water Department (Think Blue/Storm Water Pollution

	<p>Prevention Program) will provide education and outreach regarding the incentive program with an emphasis on dry weather runoff prevention and water quality protection that are achieved with improvements to irrigation efficiency within the City. This program component has been implemented by the Water Authority and the City for several years, and is ready for continued implementation. 2. Agricultural Irrigation Efficiency Program: The Water Authority will also administer a program component that provides incentives for agricultural customers to retrofit on-site potable irrigation systems to recycled water irrigation systems. This program component has been designed, and is ready for implementation.</p>
<p>Project Objective</p>	<p>The project objectives are to: • Reduce urban outdoor water use. • Reduce agricultural water use. • Reduce stormwater runoff by reducing outdoor water use. • Reduce green waste production. • Increase the amount of potable water available to other users through implementation of water use efficiency measures and conversion to recycled water. • Increase environmental stewardship and awareness by implementing visible conservation programs that promote water-efficient landscaping.</p>
<p>Project Benefits Information</p>	

Project Objective

Budget

Other Contribution	0
Local Contribution	191831
Federal Contribution	0
Inkind Contribution	0
Amount Requested	592760
Total Project Cost	784591

Geographic Information

Latitude DD(+/-)	32	MM 49	SS 47
Longitude DD(+/-)	-117	MM 7	SS 27

Longitude/Latitude Clarification Location San Diego IRWM Regic

County San Diego Ground Water Basin Batiquitos Lagoon Valley, Cottonwood Valley, El Cajon Valley, Escondido Valley, Mission Valley, Otay Valley, Pamo Valley, Potrero Valley, Poway Valley, Ranchita Town Area, San Diego River Valley, San Dieguito Creek, San Elijo Valley, San Luis Rey Valley, San Marcos Area, San Mateo Valley, San Onofre Valley, San Pasqual Valley, Santa Margarita Valley, Santa Maria Valley, Sweetwater Valley, Tia Juana, Warner Valley Hydrologic Region South Coast WaterShed Carlsbad, Otay River, Pueblo, Penasquitos, San Diego River, San Dieguito River, San Juan, Sa

Legislative Information

Assembly District	71st Assembly District, 75th Assembly District, 76th Assembly District, 77th Assembly District, 78th Assembly District, 79th Assembly District, 80th Assembly District
Senate District	36th Senate District, 38th Senate District, 39th Senate District, 40th Senate District
US Congressional District	District 49 (CA), District 50 (CA), District 51 (CA), District 52 (CA), District 53 (CA)

Project Information

Project Name	Sustaining Healthy Tributaries to the Upper Sai
Implementing Organization	n/a
Secondary Implementing Organization	San Diego River Park Foundation (primary implementing organization)
Proposed Start Date	7/1/2013
Proposed End Date	1/31/2017
Project Scope	Protect and restore Boulder Creek and collect data to establish a baseline for creek health in the San Diego River Watershed
Project Description	This project will restore and maintain a portion of Boulder Creek, an important tributary to the El Capitan Reservoir in the San Diego River Watershed that captures rain, snow melt, and spring water and drains into El Capitan Reservoir. Boulder Creek is of unique significance because it is used to transfer water between Helix Water District's Lake Cuyamaca and the City of San Diego's El Capitan Reservoir where water is stored until treated for potable use. As part of this project, the community will be engaged in restoring approximately 4.4 acres of degraded riparian and associated buffer habitat on Boulder Creek. The project will also include monitoring of Boulder Creek and surrounding creeks to increase knowledge of the creeks and provide baseline information that will allow for early actions to be taken in the event that the creek begins to degrade. With a relatively small investment now, the creek and watershed can remain healthy, improving the health of the environment and reducing potential water treatment costs. Boulder Creek is one of two known creeks in the San Diego River Watershed that supports wild

	rainbow trout. The presence of trout indicates a high quality stream with cold water. These unique conditions offer the potential to use Boulder Creek and nearby creeks as baselines for monitoring the overall health of the watershed. This project includes field surveys of other creeks that drain into the El Capitan Reservoir. Monitoring will include real-time monitoring stations, biological assessments, and invasive animal and plant surveys. Education elements will provide information to private land owners in the area on how to reduce pollutant loading and activities that result in erosion and sedimentation, and will include outreach to three Native American Tribes in the area to provide training to empower their members to survey their tribal lands.
Project Objective	Project objectives are: • To restore 4.4 acres of riparian habitat and associated buffer habitat along Boulder Creek • To develop and begin implementing an integrated and robust monitoring and assessment program for the Upper San Diego River Watershed • To engage the community in becoming stewards of the project area so that water quality within the natural streams and the downstream El Capitan Reservoir is better protected and to reduce the potential need for future improvements

Project Benefits Information

Project Objective

Budget

Other Contribution	0
Local Contribution	175224
Federal Contribution	0
Inkind Contribution	0
Amount Requested	536630
Total Project Cost	711854

Geographic Information

Latitude DD(+/-)	32	MM 57	SS 50
Longitude DD(+/-)	-116	MM 41	SS 6
Longitude/Latitude Clarification		Location	Boulder Creek, San Die
County San Diego Ground Water Basin Hydrologic Region South Coast WaterShed San Diego River			

Legislative Information

Assembly District	71st Assembly District
Senate District	38th Senate District
US Congressional District	District 50 (CA)

Project Information

Project Name	Chollas Creek Integration Project – Phase II
Implementing Organization	n/a
Secondary Implementing Organization	Jacobs Center for Neighborhood Innovation (primary implementing organization), Groundwork San Diego (secondary)
Proposed Start Date	6/1/2012
Proposed End Date	6/1/2016
Project Scope	Improve water quality and prevent flooding in Chollas Creek, engage community members in hands-on water quality monitoring.
Project Description	The Chollas Creek Integration Project - Phase II aims to improve water and habitat quality in a Chollas Creek segment at Northwest Village, and engage members of the surrounding DAC in water quality monitoring along Chollas Creek. A. Creek Restoration: Construction will accomplish flood damage reduction and water quality improvement through 1) creek re-alignment 2) inlet installation 3) drop structure installation 4) construction of inlets 5) non-native removal/restoration.. Specifically, two 3-foot drop structures (rip-rap) will be developed along the northwest and southwest segments of this creek section to slow the creek flow at these points. B. Habitat Improvement: Invasives removal and restoration will improve water quality through erosion control and pollution uptake, and will contribute to improved habitat values for wildlife. Recreational and public access benefits will also be achieved. This Phase II project will support a comprehensive invasives removal effort. C. Water Pollution Activities: Phase II will build upon Chollas Creek Integration Project - Phase I's engagement of institutional stakeholders in the determination of water quality, natural resource, and environmental justice opportunities/constraints. Phase II will expand stakeholder outreach to include residents in water quality monitoring, and conduct targeted educational messaging. Thirty (30) area youth will

	<p>be trained and employed as water quality monitors. Water quality monitoring will utilize existing City of San Diego stormwater data for pollution source tracking, and will expand upon the San Diego Coastkeeper's Citizen Science Monitoring and Pollution/Conservation Education programs. The project will also partner with Groundwork's Green Team Community Service Project for engagement of student volunteers, and a coalition of institutional stakeholders in the determination of water quality, natural resource, and environmental justice opportunities/constraints.</p>
<p>Project Objective</p>	<p>Project objectives include: • Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding. • Improve channel hydraulics to reduce the potential for flood damage • Effectively reduce sources of pollutants and environmental stressors. • Protect, restore and maintain habitat and open space.</p>

Project Benefits Information

Project Objective

Budget

Other Contribution	0
Local Contribution	163723
Federal Contribution	0
Inkind Contribution	0
Amount Requested	515000
Total Project Cost	678723

Geographic Information

Latitude DD(+/-)	32	MM 42	SS 33
Longitude DD(+/-)	-117	MM 5	SS 7
Longitude/Latitude Clarification		Location	Chollas Creek, San Die
County San Diego Ground Water Basin Sweetwater Valley Hydrologic Region South Coast WaterShed Pueblo			

Legislative Information

Assembly District	80th Assembly District
Senate District	40th Senate District
US Congressional District	District 51 (CA)

Project Information

Project Name	North San Diego County Regional Recycled W
Implementing Organization	Olivenhain MWD
Secondary Implementing Organization	Leucadia WWD, Vallecitos WD, Vista ID, Rincon MWD, Santa Fe ID, Carlsbad MWD, Escondido, Oceanside, San Elijo JPA
Proposed Start Date	10/1/2013
Proposed End Date	8/31/2017
Project Scope	Regional recycled water project that involves ten partnering agencies to maximize benefits and reduce costs.
Project Description	<p>North San Diego County Regional Recycled Water Project-Phase II will increase the production and use of recycled water produced in the Region. By increasing the capacity and connectivity of the recycled water storage and distribution systems of the Project Partners, NSDCRRWP-Phase II encourages recycled water use, reduces costs, reduces imported water demand, and creates a more efficient system than could be completed the ten Project Partners on an individual basis. Included project components will replace potable water pipelines and irrigation systems with recycled water systems, convert numerous facilities to recycled water service, connect discrete recycled water systems to one another, increase recycled water storage capacity, and redistribute recycled water to more effectively meet demands.</p> <p>The proposed project includes 10 components designed to regionalize recycled water facilities so that agencies with the ability to generate recycled water in excess of local demand (i.e., within their service area) can provide recycled water to areas where additional supplies are needed. Together, the pipelines, pump stations, storage tanks, and interties constructed in this project will cumulatively produce an estimated 6,790 acre-feet per year (AFY) of recycled water and reduce the region's potable water demands. This will directly offset the use of potable supplies imported through the State Water Project (SWP) and the Colorado River Authority (CRA) via the San Diego County Water Authority and the Metropolitan Water District. The project partners include: 1. Leucadia Wastewater District (LWD) 2. Vallecitos Water District (VWD) 3. Vista Irrigation District (VID) 4. Rincon del Diablo</p>

	Municipal Water District (RMWD) 5. Olivenhain Municipal Water District (OMWD) 6. Santa Fe Irrigation District (SFID) 7. Carlsbad Municipal Water District (Carlsbad MWD) 8. City of Escondido (Escondido) 9. City of Oceanside (Oceanside) 10. San Elijo Joint Powers Authority (SEJPA)
Project Objective	The objectives of this project are to: Increase the storage, production, and use of recycled water, Reduce dependence on imported water, Reduce the amount of wastewater sent to the ocean, Improve water supply reliability, Achieve better economy of scale/provide cost-effective recycled water supplies, Expand interagency cooperation, Improve the implementation process for recycled water systems, Assist agencies in meeting the State target of reducing potable water use by 20% by 2020
Project Benefits Information	

Project Objective

Budget

Other Contribution	0
Local Contribution	15594668
Federal Contribution	0
Inkind Contribution	0
Amount Requested	3555560
Total Project Cost	19150228

Geographic Information

Latitude DD(+/-)	33	MM 8	SS 40
Longitude DD(+/-)	-117	MM 12	SS 27
Longitude/Latitude Clarification		Location	North County San Diego
County San Diego Ground Water Basin Batiquitos Lagoon Valley, Escondido Valley, San Dieguito Creek, San Elijo Valley, San Luis Rey Valley, San Marcos Area Hydrologic Region South Coast WaterShed San Luis Rey River, Carlsbad, San Dieguito River, Pefasquitos			

Legislative Information

Assembly District	71st Assembly District, 75th Assembly District, 76th Assembly District
Senate District	36th Senate District, 38th Senate District, 39th Senate District
US Congressional District	District 49 (CA), District 50 (CA), District 52 (CA)

Project Information

Project Name	Failsafe Potable Reuse at the Advanced Water
Implementing Organization	n/a
Secondary Implementing Organization	WaterReuse Research Foundation (primary implementing organization), City of San Diego (secondary implementing org.)
Proposed Start Date	8/1/2012
Proposed End Date	9/30/2015
Project Scope	Develop and test proper design and process engineering treatment trains for potable reuse without an environmental buffer.
Project Description	The Failsafe Potable Reuse at the Advanced Water Purification Demonstration Facility project will provide comprehensive testing, evaluation, and demonstration of sequential failsafe treatment steps (treatment trains) for potable reuse without an environmental buffer. To accomplish this, the project will draw upon active potable reuse research projects in the United States, Singapore, South Africa, and Australia in addition to worldwide potable reuse applications and practices used and researched in these same countries. Highlighted by a workshop on hazard analysis, critical control points, and redundancy requirements, this project will convene national and international health, treatment, and water quality experts to establish an appropriate framework for demonstration of failsafe potable reuse at the City of San Diego's existing advanced water purification demonstration facility (demonstration facility). This demonstration facility is designed as an educational facility as well, offering tours and education programs that allow the treatment process and the science behind it to be transparent. This project consists of four distinct phases: Phase 1 – Develop expert panel guidelines on hazard analysis, redundancy, reliability and monitoring requirements for potable reuse without an environmental buffer. Phase 2 - Develop a comprehensive test plan for a failsafe potable reuse system that incorporates failsafe guidelines from previous WRRF studies. Phase 3 – Perform bench-scale, pilot-scale and demonstration-scale testing at the City of San Diego's water purification demonstration plant. Phase 4 – Prepare Final report on complete strategy for failsafe potable reuse. WRRF is actively funding nearly \$3 million in research to better develop potable reuse as a supplemental water supply.

Project Objective	<p>This project leverages the expertise from those investments and combines them to demonstrate failsafe potable reuse at the City of San Diego's demonstration facility.</p> <p>The project objectives are to: • Facilitate public education and awareness regarding potable reuse, and the San Diego Region's efforts to diversify local water supplies • Conduct research and testing of failsafe mechanisms for potable reuse to provide additional information about the viability and potential regulations that would be required to permit and implement potable reuse projects in California • Develop and implement guidelines for potable reuse through an expert panel</p>
Project Benefits Information	

Project Objective

Budget

Other Contribution	0
Local Contribution	975313
Federal Contribution	0
Inkind Contribution	0
Amount Requested	2176390
Total Project Cost	3151703

Geographic Information

Latitude DD(+/-)	32	MM 52	SS 44
Longitude DD(+/-)	-117	MM 11	SS 55
Longitude/Latitude Clarification		Location	Advanced Water Purification Facility, located at the N
County San Diego Ground Water Basin Hydrologic Region South Coast WaterShed Carlsbad			

Legislative Information

Assembly District	77th Assembly District
Senate District	39th Senate District
US Congressional District	District 52 (CA)

Project Information

Project Name	Implementing Nutrient Management in the San
Implementing Organization	County of San Diego
Secondary Implementing Organization	Rancho California Water District
Proposed Start Date	6/1/2010
Proposed End Date	9/29/2017
Project Scope	Work to establish nutrient water quality goals for the Santa Margarita River to develop nutrient site specific objectives.
Project Description	<p>This project aims to establish the science and seek stakeholder consensus to develop nutrient water quality goals that are protective of beneficial uses and could be employed in the development of alternative nutrient water quality objectives (WQOs) for the SMR Watershed in response to the Water Quality Control Plan for the San Diego Basin (Basin Plan) Triennial Update. This is the second phase of work, which consists of continued stakeholder facilitation and continued monitoring, modeling, and data analyses to determine nutrient water quality goals. The project benefits the SMR watershed and the region by providing scientifically-based nutrient water quality goals that will ultimately conserve water and control eutrophication. Stakeholders believe that since the estuary through which the SMR flows is open to the ocean during the winter (the wet season), nutrients in the river only have a short residence time before they enter the ocean. This effort will counteract hydromodifications and lead to improved protection and restoration of habitat and open space, optimize water-based recreational opportunities, and enhance the maintenance of water resources. Within the region, the project will further the technical foundation of water management by demonstrating a science-based approach to establishing nutrient water quality goals that can be developed jointly with the regulatory agencies. If warranted by the results, the scientific studies will provide the underpinnings necessary to support Nutrient Site-Specific Objectives (SSOs) that require a Basin Plan amendment. This effort will serve as a template for similar efforts within the region.</p>
Project Objective	<p>Objectives include: Facilitate a watershed stakeholder group that will provide feedback and achieve consensus on the proposed nutrient water quality goals; Conduct monitoring and/or special studies to address gaps in data required to develop the nutrient water quality goals for the SMR River; Develop proposed</p>

nutrient water quality goals for the SMR River that are protective of beneficial uses; Encourage the implementation of BMPs to reduce nutrient runoff from wet and dry weather sources

Project Benefits Information

Project Objective

Budget

Other Contribution	0
Local Contribution	399259
Federal Contribution	0
Inkind Contribution	0
Amount Requested	1191275
Total Project Cost	1590534

Geographic Information

Latitude DD(+/-) MM SS
 Longitude DD(+/-) MM SS
 Longitude/Latitude Clarification Location
 County San Diego,Riverside Ground Water Basin Santa Margarita Valley,Temecula Valley Hydrologic Region South Coast WaterShed
 Santa Margarita River

Legislative Information

Assembly District	73rd Assembly District,75th Assembly District,76th Assembly District
Senate District	28th Senate District,36th Senate District
US Congressional District	District 42 (CA),District 49 (CA),District 50 (CA)

Section : Applicant Information Question Tab

APPLICANT INFORMATION QUESTION TAB

01. PROPOSAL DESCRIPTION

Provide a brief abstract of the Proposal, including a listing of individual project titles. Please note which projects, if any, directly address a critical water supply or water quality issue for DACs or Native American Tribal communities.

The San Diego IRWM Region is committed to implementing the regional goals and objectives established in the 2007 San Diego IRWM Plan including (1) optimizing water supply reliability, (2) protecting and enhancing water quality, (3) providing stewardship of our natural resources, and (4) coordinating and integrating water resources management. This San Diego IRWM Implementation Grant Proposal-Round 2 contains authorization documentation, proof of formal adoption, work plans, budgets, schedules, and other project details for the 7 projects proposed in this funding package. A brief description of each project is provided below. Note that one project, the Rural DAC Partnership Program, directly address a critical water supply/water quality issue for DACs in the Region. 1.North San Diego County Regional Recycled Water Project-Phase II: This is the second part of a plan by North San Diego County water and wastewater agencies to regionalize recycled water systems. It implements new agency interconnections, seasonal storage opportunities and indirect potable water uses that will maximize supplies, reduce discharges to ocean, reduce energy consumption due to diminished delivery of imported water and allow recycled water to play a more significant role in meeting future water needs. 2.Turf Replacement and Agricultural Irrigation Efficiency Program: This will expand outreach and rebate program targeted to urban and agricultural water users to encourage customers to replace turf with water-wise landscaping. It will also encourage conversion of agricultural irrigation from potable to recycled water. 3.Rural Disadvantaged Community (DAC) Partnership Program: This will provide funding to address inadequate water supply and water quality affecting rural DACs, including tribal communities. It will reduce potential for high public health risks in water and wastewater systems. It will promote environmental justice in rural communities by providing outreach to rural DACs for available infrastructure projects, while promoting IRWM goals. 4.Failsafe Potable Reuse Advanced Water Purification Facility: This project will develop and test a failsafe treatment train for potable reuse without an environmental buffer. The data gathered through the process may be used by the California Department of Public Health (CDPH) in assessing the future potential of direct potable reuse facilities. 5.Sustaining Healthy Tributaries of the Upper San Diego River: This project will protect and restore 3,000 feet of functioning riparian habitat and associated buffer habitat along Boulder Creek, and collect data to use as a baseline for other streams in the San Diego River watershed. It will also conduct education and outreach to backcountry areas, including tribal communities, about invasive species and their impacts on watershed habitats. 6.Chollas Creek Integration Project-Phase II: This project will improve water quality and prevent flooding through (1) engineering modifications to the channel via installation of headwalls and drop structures that will modify creek flow and prevent erosion, (2) contaminant uptake and natural filtration through the installation of headwalls and drop structures with native species, and (3) engagement of community volunteers in water quality monitoring and hands-on watershed education. 7.Implementing Nutrient Management in the Santa Margarita River Watershed-Phase II: The project aims to establish nutrient water quality goals for the Santa Margarita River Watershed that may lead to development of nutrient site-specific objectives by the San Diego Regional Water Quality Control Board (RWQCB) in the of the river that are protective of beneficial uses. The project consists of three major activities: facilitate discussions among a SMR watershed stakeholder group to guide project activities, conduct monitoring and special studies, and develop nutrient water quality goals for the Lower SMR.

02. PROJECT DIRECTOR

Provide the name and details of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.

Mr. Mark Stadler Principal Water Resources Specialist Water Resources Department San Diego County Water Authority 4677 Overland Avenue San Diego CA 92123 (858) 6735 MStadler@sdcwa.org

03. PROJECT MANAGEMENT

Provide the name and contact information of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Mr. Mark Stadler Principal Water Resources Specialist Water Resources Department San Diego County Water Authority 4677 Overland Avenue San Diego CA 92123 (858) 6735 MStadler@sdcwa.org

Q4. APPLICANT INFORMATION

Provide the agency name, address, city, state and zip code of the applicant submitting the application.

San Diego County Water Authority 4677 Overland Avenue San Diego CA 92123 (858) 522-6735

Q5. ADDITIONAL INFORMATION

Provide the IRWM funding area(s) in which projects are locate.

Visit the following website to locate the IRWM funding area(s).

<http://www.water.ca.gov/irwm/grants/fundingarea.cfm>

The projects are located within the San Diego IRWM Region and the Upper Santa Margarita River Watershed IRWM Region, both of which are located within the San Diego Funding Area.

Q6. DAC WAIVER COST SHARE REQUEST:

Are you applying for a DAC cost share waiver? If yes, complete attachment 10.

No

Q7. RESPONSIBLE REGIONAL WATER QUALITY CONTROL BOARD(S) (RWQCB)

List the name of the Regional Water Quality Control Board (RWQCB) in which your proposal is located. For a region that extends beyond more than one RWQCB boundary, list the name of each Board.

Visit the following website to find the RWQCB for a particular location:

http://www.waterboards.ca.gov/waterboards_map.shtml

The San Diego IRWM Region lies within the San Diego Regional Water Quality Control Board (Region 9).

Q8. ELIGIBILITY

The Implementation Grant Program requires a minimum funding match of 25% of total project cost unless there is a DAC project included in the proposal. Requirements for DAC funding match reductions are included in Exhibit E of this PSP. Are your matching funds less than 25%? If so, please explain.

This proposal meets the requirements of Proposition 84 regarding a minimum funding match of 25%. The projects within this proposal have a cumulative funding match of 60 total project costs.

Q9. ELIGIBILITY

Does the application represent a single application from an IRWM Region approved in the RAP? To verify, see RAP website:

<http://www.water.ca.gov/irwm/grants/rap.cfm> If yes, include the name of the IRWM Region. If no, please explain.

Yes, the application represents a single application from an IRWM Region approved in the RAP. The San Diego IRWM Region was approved in the 2009 RAP cycle.

Q10. ELIGIBILITY

Please specify whether the applicant is a local public agency or non-profit organization as defined in Appendix B of the 2012 Guidelines.

Yes, the San Diego County Water Authority (representing the RWMG in submitting this application) is a local public agency as defined in Appendix B of the Grant Guidelines.

Q11. ELIGIBILITY

List the urban water suppliers that will receive funding from the proposed grant. Please provide the agency name, a contact phone number and e-mail address.

Those listed must submit self certification of compliance with CWC §525 et seq. and AB 1420, see Attachment 11. Answer "NA", if there are no urban water suppliers that will receive funding from the proposed grant.

The urban water suppliers that will receive funding from the proposed grants include: San Diego County Water Authority and Olivenhain Municipal Water District . 1. Agency Name: San Diego County Water Authority (Water Authority) - Contact Name: Mark Stadler - Contact Phone Number: (858) 522-6735 - Contact Email Address: mstadler@sdcwa.org 2. Agency Name: Olivenhain Municipal Water District (OMWD) - Contact Name: Joey Randall - Contact Phone Number: (760) 753-6466 - Contact Email Address: jrandall@olivenhain.com Both the Water Authority and OMWD have received written confirmation from DWR that they are eligible to receive water management or loan funds due to compliance with AB 1420 requirements.

Q12. ELIGIBILITY

Have all of the urban water suppliers, listed in Q11 above, submitted complete Urban Water Management Plans (UWMPs), to DWR? Have those plans been verified as complete by DWR? If not, explain and provide the anticipated date for having a complete UWMP.

Answer "NA" if no urban water supplier identified in Q11 above.

Yes, the Water Authority and OMWD have both submitted complete 2010 UWMPs to DWR. Those plans have been verified by DWR, because they are included on DWR website of compiled 2010 UWMPs: <http://www.water.ca.gov/urbanwatermanagement/2010uwmps/>

Q13. ELIGIBILITY

Answer "NA" if no urban water supplier identified in Q11 above.

Yes, the Water Authority and OMWD both submitted an AB1420 Self-Certification Statement - Table 1 & 2 to DWR with the Proposition 84-Round 1 Implementation Grant Proposal in 2011). Based on DWR's review, the Water Authority and OMWD are both currently implementing the BMPs consistent with AB 1420 and, therefore, are eligible to receive water management grant or loan funds.

Q14. ELIGIBILITY

Does the Proposal include any groundwater projects or other projects that directly affect groundwater levels or quality? If so, provide the name(s) of the project(s) and list the agency(ies) that will implement the project(s).

Answer "NA" if the Proposal does not include groundwater projects or other projects that directly affect groundwater levels or quality.

None of the projects in this proposal will directly affect groundwater levels or quality.

Q15. ELIGIBILITY

For the agency(ies) listed in Q14, how has the agency complied with CWC §10753 regarding Groundwater Management Plans (GWMPs), as described in Section III.B of the 2012 Guidelines?

Answer "NA" if the Proposal does not include groundwater projects or other projects that directly affect groundwater levels or quality.

N/A

Q16. ELIGIBILITY

Does the IRWM region receive water supplied from the Sacramento-San Joaquin Delta? Please answer yes or no. If no, please explain.

Yes, the San Diego IRWM Region receives imported water supplies through the State Water Project.

Q17. ELIGIBILITY

Does the existing IRWM Plan help reduce dependence on the Sacramento-San Joaquin Delta for water supply? Please answer yes or no. If no, please explain. If yes, please complete attachment 13.

Yes, the San Diego IRWM Plan reduces dependence on future additional imported water supplies through water conservation, source substitution, and recycling.

Q18. ELIGIBILITY

If an update to the IRWM plan will take place in the near future, will the updated plan continue to reduce dependence on the Sacramento-San Joaquin Delta for water supply? Please answer yes or no. If no, please explain. If yes, please complete Attachment 13.

Yes, the San Diego IRWM Plan Update (currently under development) will continue to reduce dependence on additional Delta water supplies.

Q19. ELIGIBILITY

List the agricultural water suppliers that will receive funding from the proposed grant. Please provide the agency/organization name, a contact phone number and e-mail address. If there are none, please indicate so.

There are no agricultural water suppliers that will receive funding from the proposed grant.

Q20. ELIGIBILITY

Have all of the agricultural water suppliers, listed in Q19 above, submitted complete Agricultural Water Management Plan to DWR? Have those plans been verified as complete by DWR? If the plan has not been submitted, please indicate the anticipated submittal date.

Answer "NA" if no agricultural water suppliers identified in Q19 above.

N/A

Q21. ELIGIBILITY

List the surface water diverters that will receive funding from the proposed grant. Please provide the agency/organization name, a contact phone number and e-mail address. If there are none, please indicate so.

There are no surface water diverters that will receive funding from the proposed grant.

Q22. ELIGIBILITY

Have all of the surface water diverters, listed in Q21 above, submitted to the State Water Resources Control Board surface water diversion reports in compliance with requirements outlined in Part 5.1 (commencing with §5100) of Division 2 of the CWC? If not, explain and provide the anticipated date for meeting the requirements.

Answer "NA" if no surface water diverters identified in Q21 above.

N/A

Q23. ELIGIBILITY

List the groundwater users that will receive funding from the proposed grant. Please provide the agency/organization name, a contact phone number and e-mail address. If there are none, please indicate so.

There are no groundwater users that will receive funding from the proposed grant.

Q24. ELIGIBILITY

Have all of the groundwater users, listed in Q23 above, met the requirements of DWR's CASGEM Program:

<http://www.water.ca.gov/groundwater/casgem/> ? If not, explain and provide the anticipated date for meeting the requirements.

Answer "NA" if no groundwater users identified in Q23 above.

N/A

Section : Application Attachments Tab

APPLICATION ATTACHMENTS TAB

ATTACHMENT 1: AUTHORIZATION AND ELIGIBILITY REQUIREMENTS

Ensure file name is consistent with Section V of the P84 Round 2 Implementation PSP.

Upload authorization and eligibility documentation here. This field is mandatory.

Last Uploaded Attachments: Att1_IG2_Eligible_1of1.pdf

Upload additional authorization and eligibility documentation here, if necessary.

ATTACHMENT 2: ADOPTED PLAN AND PROOF OF FORMAL ADOPTION

Ensure file name is consistent with Section V of the P84 Round 2 Implementation PSP.

Upload adopted plan and proof of formal adoption documentation here. This field is mandatory.

Last Uploaded Attachments: Att2_IG2_Adopt_1of1.pdf

Upload additional adopted plan and proof of formal adoption documentation here, if necessary.

Upload additional adopted plan and proof of formal adoption documentation here, if necessary.

ATTACHMENT 3: WORK PLAN

Ensure file name is consistent with Section V of the P84 Round 2 Implementation PSP.

Upload work plan documentation here. This field is mandatory.

Last Uploaded Attachments: Att3_IG2_WorkPlan_1of1.pdf

Upload additional work plan components here, if necessary.

ATTACHMENT 4: BUDGET

Ensure file name is consistent with Section V of the P84 Round 2 Implementation PSP.

Upload budget documentation here. This field is mandatory.

Last Uploaded Attachments: Att4_IG2_Budget_1of1.pdf

Upload additional budget components here, if necessary.

Upload additional budget components here, if necessary.

Upload additional budget components here, if necessary.

ATTACHMENT 5: SCHEDULE

Ensure file name is consistent with Section V of the P84 Round 2 Implementation PSP.

Upload schedule documentation here. This field is mandatory.

Last Uploaded Attachments: Att5_IG1_Schedule_1of1.pdf

Upload additional schedule components here, if necessary.

Upload additional schedule components here, if necessary.

ATTACHMENT 6: MONITORING, ASSESSMENT, AND PERFORMANCE MEASURES

Ensure file name is consistent with Section V of the P84 Round 2 Implementation PSP.

Upload monitoring, assessment, and performance measures documentation here. This field is mandatory.

Last Uploaded Attachments: Att6_IG2_Measures_1of1.pdf

Upload additional monitoring, assessment, and performance measures here, if necessary.

Upload additional monitoring, assessment, and performance measures here, if necessary.

ATTACHMENT 7: TECHNICAL JUSTIFICATION OF PROJECT PHYSICAL BENEFITS

Ensure file name is consistent with Section V of the P84 Round 2 Implementation PSP.

Upload technical justification of project physical benefits documentation here. This field is mandatory.

Last Uploaded Attachments: Att7_IG2_TechJust_1of1.pdf

Upload additional technical justification of project physical benefits here, if necessary.

Upload additional technical justification of project physical benefits here, if necessary.

Upload additional technical justification of project physical benefits here, if necessary.

ATTACHMENT 8: BENEFITS AND COST ANALYSIS

Ensure file name is consistent with Section V of the P84 Round 2 Implementation PSP.

Upload benefits and cost analysis documentation here. This field is mandatory.

Last Uploaded Attachments: Att8_IG2_BenCost_1of1.pdf

Upload additional benefits and cost analysis documentation here, if necessary.

Upload additional benefits and cost analysis documentation here, if necessary.

Upload additional benefits and cost analysis documentation here, if necessary.

ATTACHMENT 9: PROGRAM PREFERENCES

Ensure file name is consistent with Section V of the P84 Round 2 Implementation PSP.

Upload program preferences documentation here. This field is mandatory.

Last Uploaded Attachments: Att9_IG2_Preference_1of1.pdf

Upload additional program preferences documentation here, if necessary.

ATTACHMENT 10: DISADVANTAGED COMMUNITY ASSISTANCE

This attachment is required only if the proposal includes a project that specifically addresses a need of a DAC. Please refer to PSP for detail information.

If this attachment does not apply to your proposal, you MUST still upload a document that indicates this attachment is not applicable. If the upload field to this attachment is left blank, your proposal cannot be saved or completed.

Ensure file name is consistent with Section V of the P84 Round 2 Implementation PSP.

Upload disadvantaged community assistance documentation here. This field is mandatory.

Last Uploaded Attachments: Att10_IG2_DAC_1of1.pdf

Upload additional disadvantaged community assistance documentation here, if necessary.

Upload additional disadvantaged community assistance documentation here, if necessary.

ATTACHMENT 11: GWMP, AB 1420, AND WATER METER COMPLIANCE INFORMATION

If your proposal does not include 1) a groundwater project or a project that directly affects groundwater levels or quality, or 2) an urban water supplier who would receive grant funding, you **MUST** still upload a document that indicates this attachment is not applicable to your proposal. If the upload field to this attachment is left blank, your proposal cannot be saved or completed.

Ensure file name is consistent with Section V of the P84 Round 2 Implementation PSP.

Upload GWMP, AB1420, and water meter compliance documentation here. This field is mandatory.

Last Uploaded Attachments: Att11_IG2_SelfCert_1of1.pdf

Upload additional GWMP, AB1420, and water meter compliance information documentation here, if necessary.

Upload additional GWMP, AB1420, and water meter compliance information documentation here, if necessary.

Upload additional GWMP, AB1420, and water meter compliance information documentation here, if necessary.

Upload additional GWMP, AB1420, and water meter compliance information documentation here, if necessary.

ATTACHMENT 12. CONSENT FORM

This attachment is required only if the proposal is utilizing an IRWM Plan that was adopted on or before September 30, 2008. The Consent Form contained in Exhibit F of the PSP must be signed and submitted in hard copy. Please refer to PSP for more information.

If this attachment does not apply to your proposal, you **MUST** still upload a document that indicates this attachment is not applicable. If the upload field to this attachment is left blank, your proposal cannot be saved or completed.

Ensure file name is consistent with Section V of the P84 Round 2 Implementation PSP.

Upload the signed consent form here. This field is mandatory.

Last Uploaded Attachments: Att12_IG2_Consent_1of1.pdf

ATTACHMENT 13: IRWM PLAN - REDUCED DELTA WATER DEPENDENCE

This attachment is required only if the IRWM region receives water supplied from the Sacramento-San Joaquin Delta. Attachment 13 must summarize the portions of the plan that address how implementation of the IRWM Plan will help reduce dependence on the Sacramento-San Joaquin Delta for water supply, and include relevant plan excerpts to support the summary. Please refer to PSP for detail information.

If this attachment does not apply to your proposal, you **MUST** still upload a document that indicates this attachment is not applicable. If the upload field to this attachment is left blank, your proposal cannot be saved or completed.

Ensure file name is consistent with Section V of the P84 Round 2 Implementation PSP.

Upload the summary of IRWM Plan here. This field is mandatory.

Last Uploaded Attachments: Att13_IG2_Delta_1of1.pdf
