

Coachella Valley Integrated Regional Water Management Planning Partners

**Thursday June 13, 2013
1:00 – 3:00 p.m.**

**Coachella Valley Association of Governments
Conference Room #115
73-710 Fred Waring Drive
Palm Desert, CA 92260**

AGENDA

Meeting Objectives:

- A. Keep Planning Partners Up-to-Date on the Coachella Valley IRWM Program, including Salt and Nutrient, Groundwater Quality, and Flood Management Activities
- B. Update on Disadvantaged Community (DAC) Outreach Efforts
- C. Discuss IRWM Goals, Objectives, and Targets for the IRWM Plan Update

Agenda:

- 1. Welcome and Introductions
- 2. Status of IRWM Planning Activities and Schedule
- 3. Overview of IRWM Grant Program and Other Grant Opportunities
- 4. Update on Coachella Valley IRWM Technical Evaluations
 - a. Integrated Flood Management
 - b. DAC Groundwater Quality Evaluation
- 5. Update on DAC Outreach and Assistance
 - a. Current Status
 - b. Overview of Surveying Effort
 - c. Project Concept Exercise
- 6. IRWM Plan Goals, Objectives, and Targets
 - a. Planning Partners Input
- 7. Next Steps
 - a. Items for Future Planning Partners Meetings
 - b. Next Meeting – September 12, 2013

Coachella Valley Integrated Regional Water Management Plan

Planning Partners Meeting

June 13, 2013

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Coachella Valley IRWM Plan Update: Key Activities

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Coachella Valley IRWM Plan Update: Overall Schedule

Tasks	2012	2013	2014
Meetings/Workshops	[Bar chart showing activity across 2012, 2013, and 2014]		
DAC Water Quality Evaluation	[Bar chart showing activity across 2012, 2013, and 2014]		
Salt & Nutrient Planning	[Bar chart showing activity across 2012, 2013, and 2014]		
Integrated Flood Management	[Bar chart showing activity across 2012, 2013, and 2014]		
Groundwater Elevation	[Bar chart showing activity across 2012, 2013, and 2014]		
IRWM Plan Update	[Bar chart showing activity across 2012, 2013, and 2014]		
DAC Outreach Program	[Bar chart showing activity across 2012, 2013, and 2014]		

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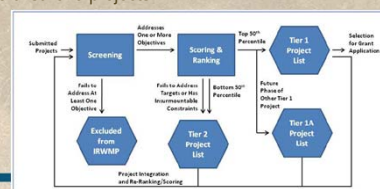
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IRWM Grant Program: Prop 84-Round 2 Project Selection

- CVRWGM completed scoring and ranking of projects in accordance with the adopted IRWM Plan
- Top 21 projects in "Tier 1" were considered further
- CVRWGM reviewed top 21 projects in detail, narrowing down to a "short list" of 9 projects



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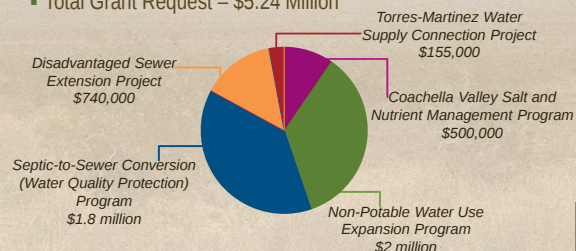
IRWM Grant Program: Prop 84-Round 2 Project Selection

- CVRWGM conducted interviews with top 9 project applicants on December 6, 2012
- Following project interviews, CVRWGM compiled a recommendation based on secondary criteria
- Planning Partners reviewed and approved the proposed grant package at December meeting
- CVRWGM worked with project sponsors developing and submitting grant application to State
 - Still waiting on draft award announcements from State

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IRWM Grant Program: Prop 84-Round 2 Grant Application

- Submitted March 2013 – Draft Awards Expected August 2013
- Total Grant Request – \$5.24 Million



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Other Grant Opportunities

- CDPH Safe Drinking Water Revolving Fund Universal Pre-Application
 - **Deadline July 8, 2013**
- California Financing Coordinating Committee (CFCC)
 - Free Funding Fairs throughout California (see handout)
 - August 22, 2013: Ukiah, CA
 - September 12, 2013: Salinas, CA
 - September 24, 2013: Visalia, CA
 - **September 26, 2013: Cathedral City, CA**
 - October 15, 2013: Sacramento, CA

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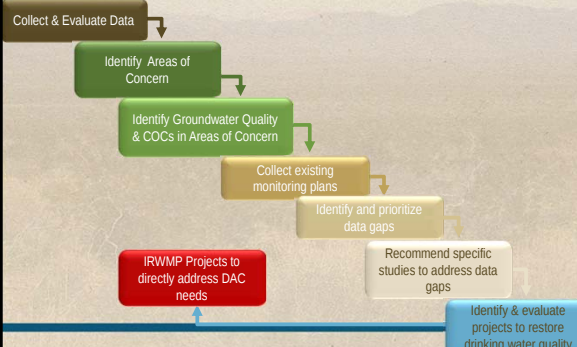
Integrated Flood Management

- **Purpose:** To develop multi-benefit flood control projects that also enhance water quality, habitat, and recharge
- State's Flood Futures Report recently released
- First workgroup meeting held on **Tuesday January 15th**
- Second workgroup meeting pending



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DAC Groundwater Quality Study

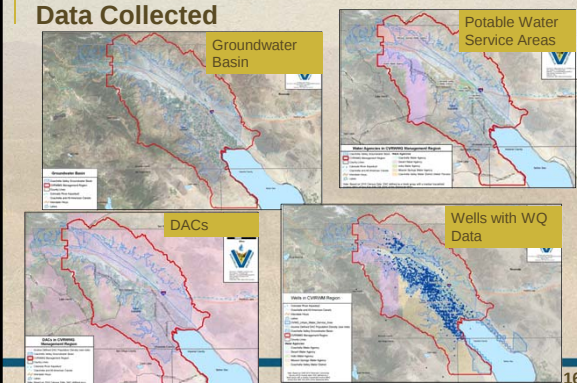


DAC Groundwater Quality Study: Data Collection and Analysis

- Groundwater Basins – DWR
- Geology/Hydrogeology – DWR, USGS
- Potable Water Service Areas – Water Agencies
- DACs – 2010 Census
- Well Construction Information - DWR
- Water Quality Data
 - GeoTracker-GAMA
 - Water Quality Portal

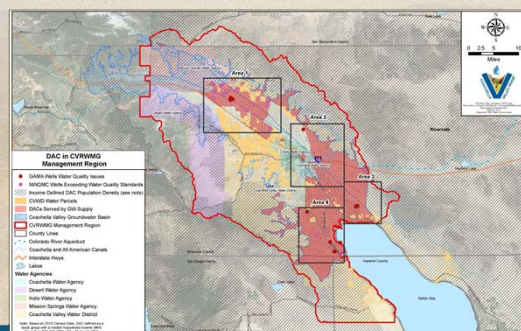
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DAC Groundwater Quality Study: Data Collected



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DAC Groundwater Quality Study: Areas of Concern



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DAC Groundwater Quality Study: Identified Constituents of Concern

Constituent of Concern	Primary MCL	Average Concentration	No. of Sampling Points
Arsenic	10 µg/L	237 mg/L	8
Fluoride	2 mg/L	6.6 mg/L	200
Nitrate - N	10 mg/L	30.2 mg/L	302
Uranium	30 mg/L/20 pCi/L	28.6 pCi/L	52
Hexavalent Chromium	*	9.1 µg/L	392

No MCL presently exists for hexavalent chromium. Public Health Goal of 0.02 µg/L set in 2011.

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DAC Groundwater Quality Study: So What Do We Do About It?

- Four constituents above Primary MCL
- Fifth possible constituent of concern
- Know general areas of concern
- Many DACs are in rural or outlying areas
- Some DACs are within or adjacent to existing water agency service areas

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DAC Groundwater Quality Study: Treatment Alternatives

COC	Adsorptive Media	Aeration/Air Stripping	Biological Filtration	Biological Treatment	Chemical Treatment	Chloramine	Chlorine	Chlorine Dioxide	Conventional Treatment	Direct Filtration	Electrodialysis	GAC	Ion Exchange	Membrane Filtration	Membrane Separation	Ozone	Potassium Permanganate	PAC	Precipitative Softening	Slow Sand Filtration	Ultraviolet Irradiation
Arsenic	++	•	+	+	+	–	PT	–	++	++		•	++	++	++	++	++		++	++	–
Fluoride	++			+	+				+				+		++				++	+	
Uranium	++			+					++			++	++	–	++				++		
Nitrate				+	+						++		++		++						
Hexavalent Chromium	+								++			•	++		++				++		

• effective – not effective
++ very effective • somewhat effective

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DAC Groundwater Quality Study: Best Available Technology (BAT)

Constituent	Adsorptive Media	Conventional Treatment	Direct Filtration	Ion Exchange	Membrane Separation (Reverse Osmosis)	Precipitative Softening
Arsenic	✓	✓	✓	✓	✓	✓
Fluoride	✓			•	✓	
Uranium	✓	✓		✓	✓	✓
Nitrate				✓	✓	
Hexavalent Chromium		✓		✓	✓	✓

Note: BAT is USEPA definition of 'best available economically achievable performance'

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DAC Groundwater Quality Study: Best Delivery Alternatives

Delivery Method	Advantages	Disadvantages
Point of Use (POU)	Treats water where it's used	Only delivers treated water at one location (typical for consumption)
Point of Entry (POE)	Treats water for all uses in the house	- Most costly than POU - Water at all taps treated
Wellhead Treatment	- Efficient for single or multiple wells - Cost-effective - Centralized monitoring and maintenance	Not as cost-effective for single wells
Public Water System	- No treatment required by residents - Cost-effective - Ongoing monitoring and maintenance	- Cost of connection to system may be expensive - Location of resident relative to system is a key factor

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DAC Groundwater Quality Study: Conclusions

- Many DACs are in rural or outlying areas
- Some DACs are within or adjacent to existing water agency service areas
- Only membrane separation treats all five possible COCs
- POU, POE and/or wellhead treatment would be most effective
- Need to evaluate potential for connecting to existing potable system
- Membrane separation (RO) is best treatment alternative

Onsite treatment methods (POU, POE, wellhead) already implemented by NGOs in the eastern Coachella Valley found to be technologically and economically effective in addressing DAC water quality concerns

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DAC Groundwater Quality Study: Monitoring Program

- Program development in progress
- Using existing programs as basis
- Assume CASGEM monitoring covers water level monitoring
- Increase water elevation monitoring in Mission Creek and Desert Hot Springs subbasins
- Use CASGEM wells to address water quality monitoring
- Water quality sampling methodologies follow CDPH and USEPA protocols
- Ensure upload of water quality data to State database (GAMA-GeoTracker)
- Expanded analysis for fluoride, uranium, arsenic and hexavalent chromium (outside public water service area)

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DAC Groundwater Quality Study: Project Development

- Model POU/POE project that can easily be implemented by local DAC organizations
- Work to date indicate Short-term Arsenic Treatment Project is on right track and could act as model for similar programs in the region
- Planned meetings in June with Pueblo Unido CDC to discuss lessons learned and hurdles
- Model development to follow



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DAC Outreach Program

Program goals include:

- Expand upon previous DAC outreach to target individuals and groups representing DAC issues
- Engage DAC community in identify DAC water management issues and projects to address issues



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DAC Outreach Program: Timeline 2012-2013

Tasks	2012	2013
Outreach Plan		
Meetings/Workshops		
DAC Mapping		
Project Development		
Prj Planning/Engineering		
DAC IRWM Plan Element		
Model Program Preparation		

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DAC Outreach Program: Current Efforts

- Emphasis on completing mapping (surveying) portion of project
 - 214 surveys completed to-date
- Contracts established with and through local NGOs:
 - Loma Linda University
 - El Sol Neighborhood Educational Center
 - Pueblo Unido Community Services District
- Survey process completed by June 14, 2012

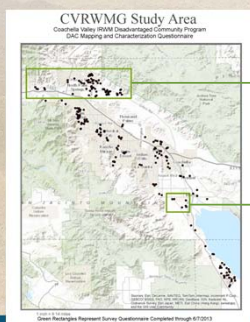
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DAC Outreach Program: DAC Surveying

- Survey questions developed
- Selection of survey sites
 - Random selection throughout the Valley
 - Including incorporated and unincorporated areas
- Surveying in the field
 - Training of promotores, students, and volunteers
 - Revisions to survey
- Progress to date

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DAC Outreach Program: Survey Locations



West Valley Survey Area
166 Surveys Completed

East Valley Survey Area
48 Surveys Completed

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DAC Outreach Program: West and East Valley Workshops

- Your attendance is requested!
 - Stakeholder input on DAC water/wastewater issues gathered through an interactive mapping exercise
 - Preliminary survey data revealed
- Contact Kathy Caldwell for more information
 - kcaldwell@mcwater.org or (310) 566-6460

Western Coachella Valley

DATE: June 20th, 2013
TIME: 5 p.m. - 7 p.m.
LOCATION: DHS Family Resource Center (in the Kmart shopping center)
14201 Palm Drive Suite 108
Desert Hot Springs, CA

Child Care
Provided

Eastern Coachella Valley

DATE: June 18th, 2013
TIME: 5 p.m. - 7 p.m.
LOCATION: San Jose Community and Learning Center
69455 Pierce Street
Thermal, CA

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DAC Outreach Program: DAC Project Development

- Several DAC-targeted projects identified to-date
 - Many submitted projects are difficult to implement due to high construction costs
- DAC projects granted engineering support through the IRWM Program must be cost effective, near-term solutions with near-term benefits
- Objective: validate and identify other fundable near-term solutions for development and preliminary engineering

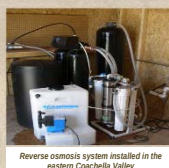
Wastewater Lagoons Adjacent to the San Antonio
del Desierto Mobile Home Park
Project included in Round 2-Prop 84
Implementation Grant Application



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DAC Outreach Program: DAC Project Development

- Projects identified to date – Materials provided in email
- Group discussion – input from Planning Partners



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DAC Outreach Program: Project Concepts

- Scope from DWR Requires:
 - Collecting needs and identifying projects (project concepts)
 - Preparing planning and engineering support for project concepts
- Current List of Projects:
 - Onsite groundwater treatment
 - Septic system replacement/rehabilitation
 - Flood control

➤ See Handouts!

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DAC Outreach Program: Next Steps

- Next Planning Partners Meeting (September 12th) will be co-hosted with a DAC Workshop to:
 - Review DAC characterization (surveying results)
 - Discuss status of DAC project development
 - Present draft DAC Outreach Report
 - IRWM Plan Element
 - Outreach White Paper

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IRWM Plan Update Exercise: Goals, Objectives, and Targets

- IRWM Goals, Objectives, and Targets:
 - Backbone of the IRWM Plan
 - Defines regional priorities for State funding
 - Provides a mechanism for measuring implementation success
- Developed by CVRWMG and Planning Partners during inaugural IRWM Plan development in 2010

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IRWM Plan Update Exercise: Goals, Objectives, and Targets

- Purpose:
 - Validation of IRWM Plan objectives – Which objectives are most important?
 - Water management issues – What issues does each Plan objective address?
 - Targets/Measurements – What do we want to accomplish through Plan implementation?
 - Basis for targets – source/reference?

➤ **See Handout!**

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Next Steps

- Next Planning Partners Meeting – September 12, 2013
 - Working meeting on IRWM Plan topics
 - Presentations on remaining technical studies
- Draft IRWM Plan Release – November 2013
 - 45-day public review period
 - Public workshops



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Coachella Valley
Regional Water Management Group






Coachella Valley Integrated Regional Water Management Plan

Planning Partners Meeting

June 13, 2013

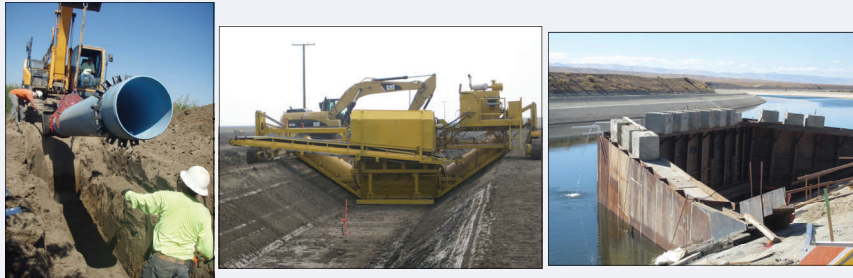
2013 CFCC Funding Fairs

Please join the California Financing Coordinating Committee (CFCC) for this **no-cost** event.



CFCC agencies fund the following types of eligible infrastructure projects including:

- Drinking water
- Wastewater
- Water quality
- Water supply
- Water conservation
- Solid waste
- Energy efficiency
- Flood management
- Streets and highways
- Emergency response vehicles
- Water use efficiency
- Community facilities



AGENDA

At each location, the Funding Fair Agenda is as follows:

Check in: 8 a.m.-8:30 a.m.

Agency Presentations: 8:30 a.m.-Noon

Discuss your projects: Noon-3 p.m.

ATTENDEE REGISTRATION

Go to www.cfcc.ca.gov and click on **Funding Fairs**

Funding Fair Questions?

Please call (916) 447-9832 x 1029

2013 SCHEDULE

April 10, 2013

City of West Sacramento
1110 West Capitol Avenue
West Sacramento, CA 95691

August 22, 2013

Ukiah Valley Conference Center
200 South School Street
Ukiah, CA 95482

September 12, 2013

Steinbeck Institute of Art and Culture
940 N. Main St
Salinas, CA

September 24, 2013

Visalia Convention Center
303 E. Acequia Avenue
Visalia, CA 93291

September 26, 2013

Cathedral City, City Hall
68-700 Avenida Lalo Guerrero
Cathedral City, CA 92234

October 15, 2013

Cal/EPA Headquarters
Coastal Hearing Room
1001 "I" Street
Sacramento, CA 95814

The Sacramento workshop will be webcast. Access to the webcast will be available online at: <http://www.calepa.ca.gov/broadcast>.

For more information, please visit our web site at: www.cfcc.ca.gov





California Financing Coordinating Committee (CFCC)

What is CFCC?

The California Financing Coordinating Committee (CFCC) was formed in 1998 and is made up of seven funding members: five state, two federal. CFCC members facilitate and expedite the completion of various types of infrastructure projects helping customers combine the resources of different agencies. Project information is shared between members so additional resources can be identified. CFCC members conduct free funding fairs statewide each year to educate the public and potential customers about the different member agencies and the financial and technical resources available.

Purpose of CFCC Funding Fairs

CFCC Funding Fairs provide opportunities to obtain information about currently available infrastructure grant, loan and bond financing programs and options. Each attendee receives a copy of all slide presentations and additional useful infrastructure financing material. Funding Fairs also provide an opportunity for attendees to speak directly with program staff about specific projects and issues affecting their community.

Who should attend?

Public works and local government representatives including city managers and planners, economic development and engineering professionals, officials from privately owned facilities, water and irrigation district managers, financial advisors and project consultants.

Eligible Project Types

CFCC Agencies fund the following types of eligible projects such as drinking water, waste water, solid waste, water quality, water supply, water conservation, energy efficiency, flood management, community facilities, streets and highways, and emergency response vehicles.

CFCC Information

Please log on to the CFCC website at www.cfcc.ca.gov for the upcoming 2013 Funding Fair schedule, CFCC Member Directory and general information.



Preliminary List of Disadvantaged Community (DAC) Implementation Projects

Coachella Valley IRWM Program - May 2013

1. Onsite Groundwater Treatment Project

Background/Issue Statement:

There is an identified need to address localized groundwater quality issues, particularly in groundwater wells that pump from the shallow aquifer in the eastern Coachella Valley. Identified constituents in groundwater wells include fluoride, arsenic, uranium, nitrate, and total dissolved solids (TDS). Although not currently considered a constituent of concern, it is possible that hexavalent chromium (chromium VI) will need to be treated from local groundwater wells due to pending water quality regulations.

Project Description:



Reverse osmosis system installed in the eastern Coachella Valley

Onsite point-of-use (POU), point-of-entry (POE), or wellhead treatment systems have been proven successful in treating constituents such as arsenic that impact water quality for DACs in the eastern Coachella Valley. Due to the success of existing POU/POE/wellhead treatment projects and the proven technological success of membrane separation systems (reverse osmosis) in removing multiple constituents, these systems can continue to be installed to treat groundwater for residents in areas with known water quality issues. Such small-scale, onsite treatment projects are particularly favorable in areas that are located at far distances from existing municipal water systems and in communities where more costly options such as drilling deeper groundwater wells are not economically feasible.

The proposed project would include development of a ready-to-proceed onsite treatment program for use by local non-governmental organizations and other interested parties. The program would articulate appropriate environmental conditions, preferred systems/vendors, installation recommendations, and operation protocols for onsite treatment.

2. Septic System Rehabilitation or Replacement Project

Background/Issue Statement:

Aging or failing septic systems have been cited as a potential source of water quality constituents such as bacteria and nitrates in local groundwater. Due to the importance of local groundwater quality throughout the Coachella Valley, there is a need to rehabilitate or replace aging or failing septic systems to protect the Region's groundwater supplies and prevent constituents of concern from entering the Salton Sea in areas where failing septic systems are located in the shallow groundwater aquifer. Stakeholders in the Region, particularly in the eastern Coachella Valley, have noted that failing septic systems (those with overflow issues) may not be properly sized and therefore experience overflows and leaks because they cannot handle the amount of flows needed to serve residents. Stakeholders have also noted that regular maintenance of septic systems may not occur due to cost and ownership issues in cases where property owners are unwilling to pay to maintain the systems.

WATER QUALITY CONTROL PLAN
COLORADO RIVER BASIN- REGION 7
Includes Amendments Adopted by the Regional Board through June 2008



The Basin Plan for the Colorado River Basin addresses potential impacts of septic systems on groundwater

Preliminary List of Disadvantaged Community (DAC) Implementation Projects

Coachella Valley IRWM Program - May 2013

2. Septic System Rehabilitation or Replacement Project

Project Description:

Septic systems can provide a reliable and sanitary method for disposing of wastewater, provided that systems are appropriately designed and engineered and properly maintained. Due to the extensive nature of septic systems throughout the Coachella Valley, it is possible that septic system rehabilitation or replacement projects could be implemented to: 1) assess current issues with failing septic systems (determine why they are failing), and 2) implement actions necessary to resolve septic system issues – replacing, rehabilitating, or completing maintenance on the systems, based on identified issues. Septic system rehabilitation and replacement projects are optimal in areas that are located at far distances from municipal sewer systems, and in communities where connecting to the municipal sewer system may be too costly for residents or not desired by landowners.

The proposed project would include development of a septic system rehabilitation program for use by local non-governmental organizations and other interested parties. The program would articulate appropriate environmental conditions, sizing procedures, preferred retrofit/rehabilitation techniques and recommendations, and maintenance protocols for septic systems.

3. Flood Control Coordination



Flooding in the Coachella Valley

Background/Issue Statement:

The 2010 IRWM Plan identified areas within the Region, particularly in the eastern Coachella Valley, that are not protected by the regional flood control system and are therefore subject to alluvial-fan flash flooding from surrounding mountain ranges. Further information from stakeholders has indicated that small, onsite flood control projects such as detention basins can be difficult to permit due to potential issues with disease vectors such as mosquitoes. Due to the large costs associated with regional flood control projects, and the potential permitting issues associated with small-scale flood control projects, there is a regional need to identify flood-prone areas and coordinate with regional regulatory agencies to determine economically and technically feasible projects that minimize or prevent property damage from occurring during flash flood events.

Project Description:

Extensive flood mapping is currently being conducted as part of the Coachella Valley IRWM Plan Update and the DAC Outreach Program. While these efforts will identify flood-prone areas, there is still a need to coordinate with regulatory agencies and stakeholders to identify projects that can mitigate flood events in an economically-efficient manner.

The proposed project would clarify the specific location of flooding hot spots and complete concept-level engineering to resolve those flooding issues. This concept design would address the necessary sizing and retention capacity of the flood structure.

Coachella Valley IRWM Plan Goals, Objectives, and Targets: 2010 IRWM Plan

Goals	Objectives	Qualitative and Quantitative Targets/Measurements
1. Optimize water supply reliability.	A. Provide reliable water supply for residential and commercial, agricultural community, and tourism needs.	• Provide average year, single-year dry, and multi-year dry supplies to meet projected demand
	B. Manage groundwater levels to reduce overdraft, manage perched water, and minimize subsidence.	• Stabilize groundwater levels at or near current groundwater levels • Limit further subsidence due to groundwater overdraft to an acceptable level in Palm Desert, Indian Wells, and La Quinta
	C. Secure reliable imported water supply, including restoring/improving reliability of State Water Project supply and securing other imported water supplies.	• Secure 40,000 AFY new imported water supply • Contribute to restoring/improving reliability of State Water Project supply
	D. Maximize local supply opportunities, including water conservation, water recycling and source substitution, and capture and infiltration of runoff.	• Achieve compliance with SB7x7 for conservation savings • Maximize recycled water use to 90% of available supplies • Expand stormwater capture and infiltration over current levels • Establish drain water desalination capacity of 11,000 AFY
2. Protect or improve water quality.	E. Protect groundwater quality and improve, where feasible.	• Maintain West Valley groundwater quality at or above current conditions when economically feasible • Reduce the arsenic concentration in East Valley drinking water • Convert 2 percent per year of existing septic systems that are failing or identified as degrading water quality to municipal sewer • Reduce the frequency and volume of sanitary sewer overflows • Develop and implement a regional Salt and Nutrient Management Plan Strategy in accordance with the State's Recycled Water Policy
	F. Preserve and improve surface water quality by maintaining integrity of agricultural drainage systems, protecting the quality of natural runoff used for potable supply, and reducing pollution in stormwater runoff.	• Implement TMDL requirements according to adopted schedules • Preserve natural runoff in Chino Creek, Snow Creek, and Falls Creek for drinking water needs

Goals	Objectives	Qualitative and Quantitative Targets/Measurements
3. Provide stewardship of our water-related natural resources.	G. Preserve local environment and restore, where feasible.	• Conserve or protect native water-related habitats • Provide restoration consistent with the CVMSHCP
	H. Manage flood risks, including current acute needs and needs for future development.	• Provide flood protection to existing properties where benefits exceed costs • Develop new flood control facilities in conjunction with new development
4. Coordinate and integrate water resource management.	I. Optimize conjunctive use of available water resources.	• Implement projects coordinating management of surface and groundwater resources consistent with the CVWMP
	J. Maximize stakeholder involvement and stewardship in water resource management.	• Develop CVRWGM website to provide centralized access to water resources data • Conduct outreach and education on water resources topics/projects to the Valley population through conservation programs • Provide “hands-on” water resources stewardship opportunities to the Valley population through conservation programs
5. Ensure cultural, social, and economic sustainability of water in the Valley.	K. Address water-related needs of local Native American culture.	• Address Native American needs through ongoing communication with local tribes • Support protection of culturally-significant resources on tribal lands
	L. Address water and sanitation needs of disadvantaged communities, including those in remote areas.	• Address DAC needs through ongoing communication with an increasing number of organizations and participants. • Improve well conditions in DACs to meet drinking water standards, where feasible • Convert 50% or more septic systems that are failing or degrading water quality in DACs to municipal sewer
	M. Maintain affordability of water.	• Manage rate increases to \$/AF • Maintain average cost to income ratio at current levels