Coachella Valley IRWM
DAC OUTREACH PROGRAM
Public Workshop

September 13, 2012
Agenda

- Welcome - Introductions
- Overview of CV IRWM DAC Program
- Introduction to CV IRWM Planning
- DAC Outreach Efforts and Planning
- Initial DAC Characterization Maps
- 501(c)3 Participation in DAC Characterization/Mapping
- Groundwater Quality and Flood Risk Studies
- Issue Identification and Project Development
- How You Can Participate
Overview of DAC Program

- Expanded DAC outreach activities
- Use of GIS data to identify and characterize smaller DAC areas and flood control needs
  - Research by local non-profit organizations
- Identification of DAC issues
- Identification DAC projects
- Development of engineering and management plans for priority projects
- Coordination with IRWM Plan Update
Introduction to IRWM Plan

- Integrated Regional Water Management (IRWM) goals
  - Develop long-term water supply reliability,
  - Improve water quality, and
  - Protect natural resources.

- The CV IRWM Region published its first IRWM Plan in 2010 (www.cvrwmg.org)
- $4 million received in 2011 from DWR for projects
Where is Coachella Valley IRWM Region?

- Generally follows the Whitewater River watershed, also known as the Coachella Valley.
- Primarily within Riverside County, some portions of San Bernardino and San Diego counties.
Who is Leading the Coachella Valley IRWM Program?

- The Coachella Valley Regional Water Management Group (CVRWMG), which is composed of the five Coachella Valley water purveyors.
  - Coachella Water Authority
  - Mission Springs Water District
  - Coachella Valley Water District
  - Desert Water Agency
  - Indio Water Authority
IRWM Accomplishments

- $1 million IRWM Planning Grant Awarded: February 2011
- $4 million IRWM Implementation Grant Awarded: August 2011
- $1 million IRWM Disadvantaged Community (DAC) Outreach Grant Awarded: February 2012
- DAC Outreach Program: Now - 2013
- Process to Update IRWM Plan: Now - 2014
CVIRWM Plan Organization

Coachella Valley Planning Partners
- CVRWMG
- Issues Group Leaders

Issue Group #1
- County of Riverside, Cities, Community Councils

Issue Group #2
- Mutual Water Companies

Issue Group #3
- Self-Supplied Users, Farmers

Issue Group #4
- Native American Tribes

Issue Group #5
- Environment & Recreation

Business & Industry, CVAG
Disadvantaged Communities
Wastewater & Flood Control
Regulatory Agencies (Fed & State)
IRWM PLAN UPDATE
KEY COMPONENTS

- Outreach
- DAC Water Quality Evaluation
- Salt & Nutrient Planning
- Integrated Flood Management Planning
- Groundwater Elevation Monitoring Strategy
- IRWM Plan Update
DAC 2010 IRMW Plan
Outreach Efforts and Planning

- DAC Issues Group
- DAC-specific issues identified
- Grant funding awarded to projects that benefit DACs:
  - Short-Term Arsenic Treatment Project awarded approximately $550,000.
    - Project involves installation of reverse osmosis systems in DACs in the East Valley to address arsenic concerns from non-municipal groundwater wells
    - Sponsored by a local non-profit serving DACs: Pueblo Unido CDC
  - Groundwater Quality Protection Program – Desert Hot Springs awarded approximately $1,000,000
    - Project involves extending a municipal wastewater collection system to eliminate the need for on-site septic systems. This project will benefit DACs in Desert Hot Springs.
    - Sponsored by a public agency: Mission Springs Water District
Overview of DAC-specific issues identified in the 2010 IRWM Plan

**DAC Water-Related Issues**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Issue Statement</th>
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<tbody>
<tr>
<td>Affordability</td>
<td>Addressing DAC water-related issues without increasing rates.¹</td>
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<tr>
<td>Connection to the Sewer System</td>
<td>The need for septic to sewer conversion is great, but jurisdictional issues or high costs may delay or prohibit project construction.¹</td>
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<td>Water Supply</td>
<td>Other groundwater sources, such as wells above the perched aquifer, hot water basin wells, and agricultural wells, are not suitable for drinking. In places where wells are contaminated, other water sources such as hauled water can be scarce or entirely inaccessible.¹</td>
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<tr>
<td>Water Supply</td>
<td>Many DACs are not within urban areas, making water supply even more difficult. One example is concentrated communities of farm workers in rural areas. Rural water treatment systems (point of source or other new technologies) and training are needed in these rural/remote areas.¹</td>
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<td>Flooding and Stormwater</td>
<td>Flooding and storm water management improvements are needed to address flooding hazards in DAC areas, particularly in unincorporated communities.²</td>
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¹. CVRWMG DAC meeting - May 20, 2010
². 2007 DAC Community Planning Group Notes; CVRWMG DAC meeting - May 20, 2010
DAC Outreach Program
Companion Project to IRWM Plan Update

Planning
- Coordination with IRWM Plan Update
- Funding from and Coordination with DWR Pilot Outreach Program

Outreach Activities
- Meetings - Project Partners, Issue Groups, DAC Workshops, Public Stakeholders
- Communications – Press Releases, Emails, Notices, Website

Outcomes
- Identification of Issues and Projects
- GIS Mapping of Smaller Communities, Flood Control Mapping
- Project Development, Identification, Planning and Engineering
- DAC Outreach Program Model
Interaction between the DAC Program and IRWMP Update

<table>
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<th>IRWM Plan Update</th>
<th>DAC Program</th>
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<td>Public/Tribal Outreach</td>
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<td>DAC Water Quality Evaluation</td>
<td>DAC Issue Characterization</td>
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<td>Integrated Flood Management</td>
<td>DAC Flood Risk Mapping</td>
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<td>DAC Technical Support</td>
<td>DAC Project Technical Support</td>
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CVIRWM DAC Program Organization

Coachella Valley Planning Partners
  • CVRWMG
  • Issues Group Leaders

Issue Group DACs

Native American Tribes
DACs
Wastewater & Flood Control
Outreach

- Engage Planning Partners – July
- Expand to agencies and non-profit groups in workplan – July and August
- Expand with recommendations from above and from DAC Workshop - September
- Mail, email, phone, web, fliers
- All contact information added to DAC outreach database
- Expand to broader community as appropriate - October/January
Disadvantaged Community (DAC) Outreach Project

Background Info

The Coachella Valley Regional Water Management Group (CVRWMG) has entered into a contract with the Department of Water Resources (DWR) to develop a Disadvantaged Community (DAC) Outreach Demonstration Program for the Coachella Valley Integrated Regional Water Management Region.

The CVRWMG has contracted with RMC Water and Environment, Inc., and Integrated Planning and Management Inc., to perform outreach and work with DAC groups related to water in the Coachella Valley.

Project Scope

The DAC Program methods will include expanded outreach efforts, the development and use of mapping data to characterize smaller DAC areas and flood control needs within DAC areas, a needs assessment for DACs in the Region, identification of existing or proposed projects intended to benefit DACs, development of engineering and project management plans for priority DAC projects, and work items to ensure that information and outcomes from the DAC Program are included within the Coachella Valley IRWM Plan Update. This 12-16 month project along with four others will inform DWR’s statewide DAC program in the future.

Project Documents
- Workplan
- Contact Update Form
- DAC Library

Project Links
- DAC Mailing List Add or Update

City of Coachella
## Characterization of DAC Areas and Groups

### DAC Groups
- Characterize regarding water needs and issues
- Characterize groups that are not involved with water but related
- Area/issue served
- Form to complete
- Other sources

### DAC Areas
- More detailed view
- Map/GIS based information
- Census and beyond
- Other sources
  - WQ issues
  - Affordability
  - WW issues
  - Anomalies
Characterization and Maps

- Characterize Areas and Neighborhoods
  - Census and Demography
  - Tapestry Community Data
  - Comparative measures for DAC
    - DWR
    - Local Indicators and Data
    - Geographic Economic Data
- Areas of focus
- Additional information and mapping
Study Area

- IRWM Areas
- DAC Areas according to DWR
- Water Districts for Reference
- Later Slides show DAC status
- MHI = $60,882 (2010)
- DAC = 80% MHI $48,706
- SDAC = 60% MHI $36,529
Maps

- Characterize the area
- Census and Demography
- Comparative measures for DAC
- DWR
- Local Indicators
- Geographic Economic Data

Areas of focus

- Additional information and mapping
Maps

- Characterize the area
- Census and Demography
- Comparative measures for DAC
- DWR
- Local Indicators
- Geographic Economic Data

Areas of focus

Additional information and mapping
The versatility of Community Tapestry provides several methods of dividing the 65 segments into summary groups for a broader view of U.S. neighborhoods.

- **LifeMode**: 12 summary groups based on lifestyle and lifestage
- **Urbanization**: 11 summary groups based on geographic and physical features along with income
- **Custom or industry specific**: Optimizing groups to provide more focused applications

### LifeMode Group Segment Codes

- **L1 High Society**: 01, 02, 03, 04, 05, 06, 07
- **L2 Upscale Avenues**: 09, 10, 11, 13, 16, 17, 18
- **L3 Metropolis**: 20, 22, 45, 51, 54, 62
- **L4 Solo Acts**: 08, 23, 27, 36, 39
- **L5 Senior Styles**: 14, 15, 29, 30, 43, 49, 50, 57, 65
- **L6 Scholars and Patriots**: 40, 55, 63
- **L7 High Hopes**: 28, 48
- **L8 Global Roots**: 35, 38, 44, 47, 52, 58, 60, 61
- **L9 Family Portrait**: 12, 19, 21, 59, 64
- **L10 Traditional Living**: 24, 32, 33, 34
- **L11 Factories and Farms**: 25, 37, 42, 53, 56
- **L12 American Quilt**: 26, 31, 41, 46
Tapestry Community

- Characterize neighborhoods

Maps

- Characterize the area
- Census and Demography
- Comparative measures for DAC
- DWR
- Local Indicators
- Geographic Economic Data

Areas of focus

- Additional information and mapping
Northern/West
South/East
Maps

- Characterize the area
- Census and Demography
- Comparative measures for DAC
- DWR
- Local Indicators
- Geographic Economic Data

Areas of focus

Additional information and mapping

Northern and Southern CVRWMG Study Area

Water Agencies
- Coachella Valley Water District
- Coachella Water Agency
- Desert Water Agency
- Indio Water Agency
- Mission Springs Water Agency
- DAC
- NON DAC
- DAC
Indio NDAC Population Density and MHI

Median Household Income Indio NDAC
- 0 - 36529 (SDAC)
- 36530 - 48706 (DAC)
- 48707 - 55689
- 55690 - 70087

Population per Square Mile Indio NDAC
- 0 - 10
- 11 - 100
- 101 - 2000
- 2001 - 4500
- 4501 - 7000
Maps

- Characterize the area
- Census and Demography
- Comparative measures for DAC
- DWR
- Local Indicators
- Geographic Economic Data

Areas of focus

Additional information and mapping
Characterization and Maps

- Characterize Areas and Neighborhoods
  - Census and Demography
  - Tapestry Community Data
  - Comparative measures for DAC
    - DWR
    - Local Indicators and Data
    - Geographic Economic Data
    - Are these accurate characterizations?
- Areas of focus
- Additional outreach, information and mapping
DAC Mapping - Non-Profit Assistance

- Non-profits hired to conduct research to identify location of smaller DAC communities
- September 13 Workshop - Fill out “CV IRWM DAC Identification Project - Non-Profit Participation Form”
  - Form sent to known DAC stakeholders
- Late September – Non-profit interviews conducted. Selection based on past project work, type of expertise, and geographical focus area
- Project work completed in January 2013
DAC Groundwater Quality Evaluation - Work Flow Diagram

1. Collect & Evaluate Data
2. Identify Areas of Concern
3. Identify Groundwater Quality & COCs in Areas of Concern
4. Collect existing monitoring plans
5. Identify and prioritize data gaps
6. Recommend specific studies to address data gaps
7. IRWMP Projects to directly address DAC needs
8. Identify & evaluate projects to restore drinking water quality
Coachella Valley Groundwater Basins
DAC Areas of Concern
List of Data Requested

- **Groundwater Quantity Data**
  - Groundwater elevations
  - DAC and/or municipal supply well locations
  - Well construction details (specifically screened depths)

- **Groundwater Quality Data**
  - Water quality/monitoring data
  - Information to establish the water-bearing zone that correlates with the water quality data
  - Geostatistical analyses
  - Plume delineations (natural and man-induced plumes), including depths
  - Information regarding existing groundwater treatment systems

- **Monitoring**
  - Monitoring programs
  - Location and screened depths of wells being monitored
  - Water quality sampling and analysis parameters
  - Frequency of sampling/data evaluation
  - Reporting methodologies

- **Other Information**
  - Location of septic systems
  - Groundwater Management Plans
  - Groundwater-specific studies
Example: GAMA Data
Example: USGS Groundwater Quality Study

Source: Ground-Water Quality Data in the Coachella Valley Study Unit, 2007: Results from the California GAMA Program
Constituents Analyzed

- Dissolved oxygen
- pH
- Alkalinity
- Turbidity
- Volatile Organic Compounds
- Polar pesticides & degredates
- Pesticides & degredates
- Pharmaceutical compounds
- Dissolved Organic carbon
- Wastewater indicator compounds
- Perchlorate
- 1,2,3-trichloropropane
- Nutrients
- Major and minor ions and trace elements
- Arsenic, chromium and iron
- Hydrogen & oxygen isotopes
- Carbon & Carbon14 isotopes
- Uranium isotopes
- Radioactivity
- Noble gases
- Bacterial indicators
- Viral indicators
Flood Management Study

- Identify and characterize flooding locations
- Utilize existing information – FEMA
- Add State info - “Flood Future: Recommendations for Managing CA’s Flood Risk” Report
- Identify current and planned flood control projects
FEMA Flood Hazards
Existing Information on Flooding (FEMA)
Flood Hazard with Landuse Encroachments
Existing Information on Flooding (FEMA)
Flood Hazard with Landuse Encroachments
Identification of DAC Issues – Preliminary List

- Issue - Cost of conversion to combined/advanced treatment or connection to sewer
- Issue - Provision of quality water supply and wastewater services
- Issue - Accurate DAC stakeholder data
- Issue - Coordination between cities, tribes, county, and water agencies
Project Identification and Development

- Identify potential DAC projects
- Project selection – Round 2 Prop 84 Implementation Grant
  - Fast tracking “ready-to-go” project(s)
  - Enter project into database from September 10 - October 19
  - Project evaluated by Planning Partners and CVRWMG
- Future rounds of Prop 84
  - Enter project into database
  - Round 3 in 2015
How We Can Help You With Your Project

- Provide technical support with workplan, budget, schedule, and supporting materials
- Guidance on what makes a project more competitive
- Entering project into database
- If selected, support developing budget, workplan, and schedule
How You Can Participate in this Program

- Participate in our DAC Workshops
- Help us reach out to other DAC stakeholders
  - Complete Stakeholder Contact and Issues Update form
- Contact us if your Non-Profit Organization is interested in working on DAC characterization
  - Complete the Non-Profit Participation Form
- Join the DAC Issues Group, to get more involved
  - Complete Stakeholder Contact and Issues Update form
### Contact Information

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<tr>
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