

AGENDA
IRWMP STAKEHOLDER MEETING
Wednesday, September 18, 2013
City of Palmdale – Larry Chimbole Cultural Center
38350 Sierra Highway
9:00 – 11:00 a.m.

- 1) Welcome and Self-Introductions (5 min)
- 2) Progress on Reviews (15 min)
 - IRWMP sections
 - Tech memos
- 3) Section 3 - Issues and Needs Discussion (30 min)
- 4) New Project Recommendation (5 min)
 - AVEK Water Supply Stabilization Program (WSSP) – Westside Expansion
- 4) Project Prioritization Method (20 min)
- 5) Preliminary Results of Prioritization (40 min)
- 6) Next Steps (5 min)

Adjourn

Attachments:

- Project Prioritization for AV IRWM Plan
- Conceptual Projects for AV IRWM Plan

Note: this meeting will be followed by a Salt/Nutrient Management Meeting from 11-12 pm

Project Prioritization for AV IRWM Plan

(Note: Shaded projects are already complete)

Sponsor	Project Name	Type	Rank
Antelope Valley Water Storage	Antelope Valley Water Bank	Implementation	HIGH
AVEK	Water Supply Stabilization Project – Westside Project (WSSP-2)	Implementation	HIGH
LACSD	Lancaster WRP Stage V	Implementation	HIGH
LACSD	Palmdale WRP Stage V	Implementation	HIGH
LACWD 40	North Los Angeles/Kern County Regional Recycled Water Project - Phase 2	Implementation	HIGH
LACWD 40	North Los Angeles/Kern County Regional Recycled Water Project - Division Street Corridor	Implementation	HIGH
LACWD 40	North Los Angeles/Kern County Regional Recycled Water Project - Phase 1b	Implementation	HIGH
AVEK	Eastside Baking & Blending Project	Implementation	HIGH
AVEK	South Antelope Valley Intertie Project	Implementation	HIGH
AVEK	AVEK Strategic Plan	Study/Report	HIGH
AVEK	Water Supply Stabilization Project (WSSP) – Westside Expansion	Implementation	HIGH
Boron CSD	BCSD Arsenic Management Feasibility Study and Well Design	Study/Report	HIGH
City of Lancaster	Antelope Valley Recycled Water Master Plan	Study/Report	HIGH
City of Lancaster	Pierre Bain Park Recycled Water Conversion	Implementation	HIGH
City of Lancaster	Whit Carter Park Recycled Water Conversion	Implementation	HIGH
City of Lancaster	Division Street and Avenue H-8 Recycled Water Tank	Implementation	HIGH
City of Lancaster	Lancaster National Soccer Center Recycled Water Conversion	Implementation	HIGH
City of Palmdale	Upper Amargosa Creek Flood Control, Recharge, and Habitat Restoration Project	Implementation	HIGH
LACWD 40	North Los Angeles/Kern County Regional Recycled Water Project - Phase 3	Implementation	HIGH
LACWD 40	North Los Angeles/Kern County Regional Recycled Water Project - Phase 4	Implementation	HIGH
Palmdale Water District	Littlerock Dam Sediment Removal	Implementation	HIGH
Palmdale Water District	Littlerock Creek Groundwater Recharge and Recovery Project	Implementation	HIGH

Sponsor	Project Name	Type	Rank
Antelope Valley Conservancy	Antelope-Fremont Watershed Assessment Plan	Study/Report	MEDIUM
LACSD	Lancaster WRP Effluent Management Sites	Implementation	MEDIUM
LACSD	Palmdale WRP Effluent Management Sites	Implementation	MEDIUM
Antelope Valley Duck Hunting	Multi-use/Wildlife Habitat Restoration Project	Implementation	MEDIUM
City of Lancaster	Amargosa Creek Pathways Project	Implementation	MEDIUM
City of Lancaster	Tertiary Treated Water Conveyance and Incidental Groundwater Recharge of Amargosa Creek Avenue M to Avenue H	Implementation	MEDIUM
City of Palmdale	Palmdale Power Plant Project	Implementation	MEDIUM
City of Palmdale	45th Street East Groundwater Recharge and Flood Control Basin	Implementation	MEDIUM
City of Palmdale	Avenue R and Division Street Groundwater Recharge and Flood Control Basin	Implementation	MEDIUM
City of Palmdale	Lower Amargosa Creek Recharge Project	Implementation	MEDIUM
LACWD 40	Aquifer Storage and Recovery Project: Injection Well Development	Implementation	MEDIUM
LACWD 40	Aquifer Storage and Recovery Project: Additional Storage Capacity	Implementation	MEDIUM
LACWD 40	Partial Well Abandonment of Groundwater Wells for Arsenic Mitigation	Implementation	MEDIUM
Palmdale Recycled Water Authority	Palmdale Recycled Water Authority – Phase 2 Distribution System	Implementation	MEDIUM

Conceptual Projects for AV IRWM Plan

Sponsor	Conceptual Projects
City of Lancaster	<ul style="list-style-type: none"> • Ecosystem and Riparian Habitat Restoration of Amargosa Creek Ave J to Ave H
City of Palmdale	<ul style="list-style-type: none"> • Avenue Q and 20th Street East Groundwater and Flood Control Basin (Q-West Basin) • Barrel Springs Groundwater Recharge and Flood Control Basin • Hunt Canyon Groundwater Recharge and Flood Control Basin • 42nd Street East, Sewer Installation
EAFB	<ul style="list-style-type: none"> • Antelope Valley Watershed Surface Flow Study
LACDPW	<ul style="list-style-type: none"> • Quartz Hill Storm Drain • Little Rock Creek In-River Spreading Grounds; Big Rock Creek In-River Spreading Grounds • Solar Power System at K-8 Division • Solar Power System at Avenue H & 20th St. West • Solar Power System at Sewer Maintenance North Yard
LACWD 40	<ul style="list-style-type: none"> • Water Conservation School Education Program • Avenue K Transmission Main, Phases I-IV; Avenue M and 62th Street West Tanks • Implement ET Controller Program • Ultra-Low Flush Toilet Change-out Program • Waste Water Ordinance
Leona Valley Town Council	<ul style="list-style-type: none"> • Stormwater Harvesting; Precision Irrigation Control System
North Edwards WD	<ul style="list-style-type: none"> • Arsenic Contamination Project • Consolidation with North Edwards WD
Palmdale Water District	<ul style="list-style-type: none"> • New PWD Treatment Plant • ET Based Controller Program; Water Conservation Garden
QHWD	<ul style="list-style-type: none"> • QHWD Partial Well Abandonment
Road Maintenance Division (LACDPW)	<ul style="list-style-type: none"> • Flooding issues Avenue P-8, between 160th and 170th Street East • Flooding issues Avenue W, near 133rd Street East • Build a bridge at the existing dip crossing of Mt. Emma Road @ Littlerock Creek
Rosamond CSD	<ul style="list-style-type: none"> • Tropico Park Pipeline Project • KC & LAC Interconnection Pipeline • Place Values and Turnouts on Reclaimed Water Pipeline • RCSD Wastewater Pipeline • Arsenic Remediation Project for the William Fisher Memorial Water Co. • Purchasing Spreading Basin Land • Deep Wells to Recapture Banked Water • Gaskell Road Pipeline

**Antelope Valley Integrated Regional Water Management Plan
Stakeholders
09/18/2013**

Last Name	First Name	Title	Organization	Address	City	State	Zip	Phone	Fax	E-Mail	Signature
Armstrong	Scott	Vice President	Paleo Solutions	911 S Primrose Ave, Unit J	Monrovia	CA	91016	949-813-1240	949-813-1240	scott@paleosolutions.com	
Baker	Jess	Manager	White Fence Farm #3	PO Box 3411	Quartz Hill	CA	93586	816-1741	943-2127		
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Copeland	Patrice	Senior Engineering Geologist	Lahontan Regional Water Quality Control Board					760-241-7404		pcopeland@waterboards.ca.gov	
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Kyle	Julie	VP	Kyle & Kyle Ranches	12345 E. Ave. J	Lancaster	CA	93535	661-946-1784		gitrdunkyle@msn.com	
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Nelson	Vickie		Antelope Acres Town Council					661-942-2198		bvnelson1@verizon.net	
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**Antelope Valley Integrated Regional Water Management Plan
Stakeholders
09/18/2013**

Last Name	First Name	Title	Organization	Address	City	State	Zip	Phone	Fax	E-Mail	Signature
Ospina	Lorena	Consultant for RCSD	GEI Consultants	101 N. Brand Blvd. #1780	Glendale	CA	91203	818-552-6412		lospina@geiconsultants.com	
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Rizzo	David	Director	AVEK	P.O. Box 893	Lancaster	CA	93584	661-305-7658	661-946-8253	daverizzo@gmail.com	
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Tyler	Larry		Leona Valley Town Council	40255 98th Street West	Leona	CA	93551	661-270-1070	661-270-3212	tccprez@roadrunner.com	
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**Antelope Valley Integrated Regional Water Management Plan
Stakeholders
09/18/2013**

Last Name	First Name	Title	Organization	Address	City	State	Zip	Phone	Fax	E-Mail	Signature
Vidal	Chris	Eng/Plan	Palmdale Water District			CA	93550	661-947-4111		cvidal@palmdalewater.org	<i>Chris</i>
Welling	James		Kern Co. - Don Maben					661-824-7000		wellingj@co.kern.ca.us	
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Wise	Cindy	Staff Environmental Scientist	Lahontan Regional Water Quality Control Board	2501 Lake Tahoe Blvd.	South Lake Tahoe	CA	96150	530-542-5408	530-544-2271	cwise@waterboards.ca.gov	
Wong	Jennifer	Water Resources Engineer	CA Dept of Water Resources	770 Fairmont Ave Suite 102	Glendale	CA	91203	818-500-1645 x262	818-543-4604	jenwong@water.ca.gov	<i>JW</i>
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Zimmerman	Jan	Geologist	Lahontan Regional Water Quality Control Board					760-241-7376		zimmerman@waterboards.ca.gov	
Smith	Brach	crew lead	R.C.S.D	3179 35th west	Rosamond	CA	93560	661 256 3411			<i>Brach Smith</i>
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Hickling	NORM	SR. Respon	County of LA.	1113 AVE H-4, PALMDALE, CA	Palmdale	CA	93551	661-726-3600		nhickling@LACSDS.org	<i>Norm</i>



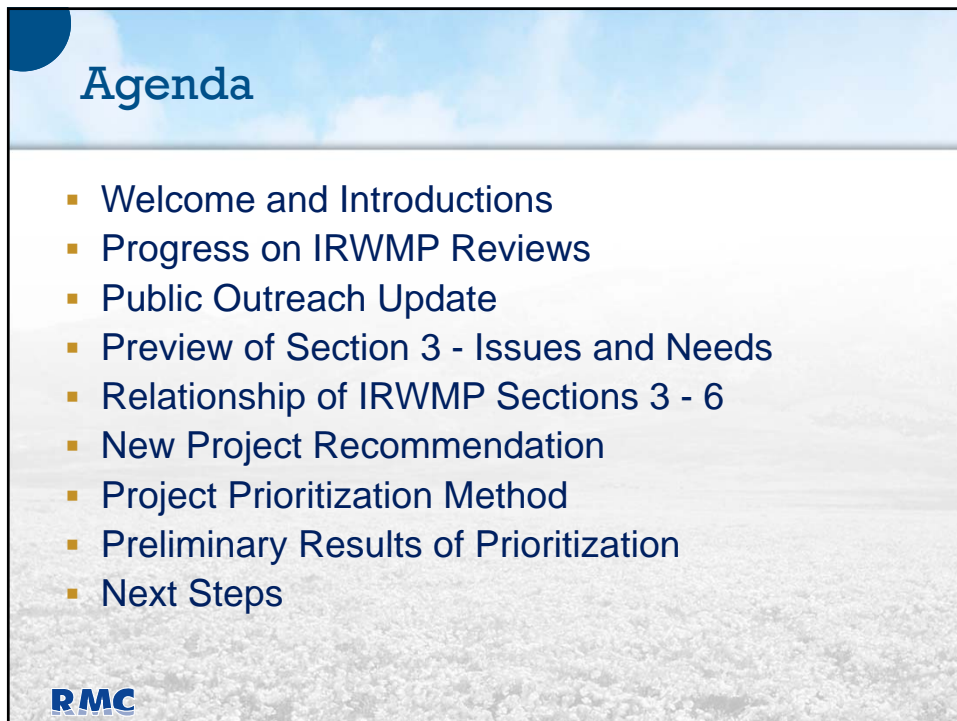
Antelope Valley
Integrated Regional Water Management Plan
2007 Update

Tenth Stakeholder Meeting

Presenter:
Brian Dietrick, P.E.

RMC *Innovative Solutions for
Water and the Environment*

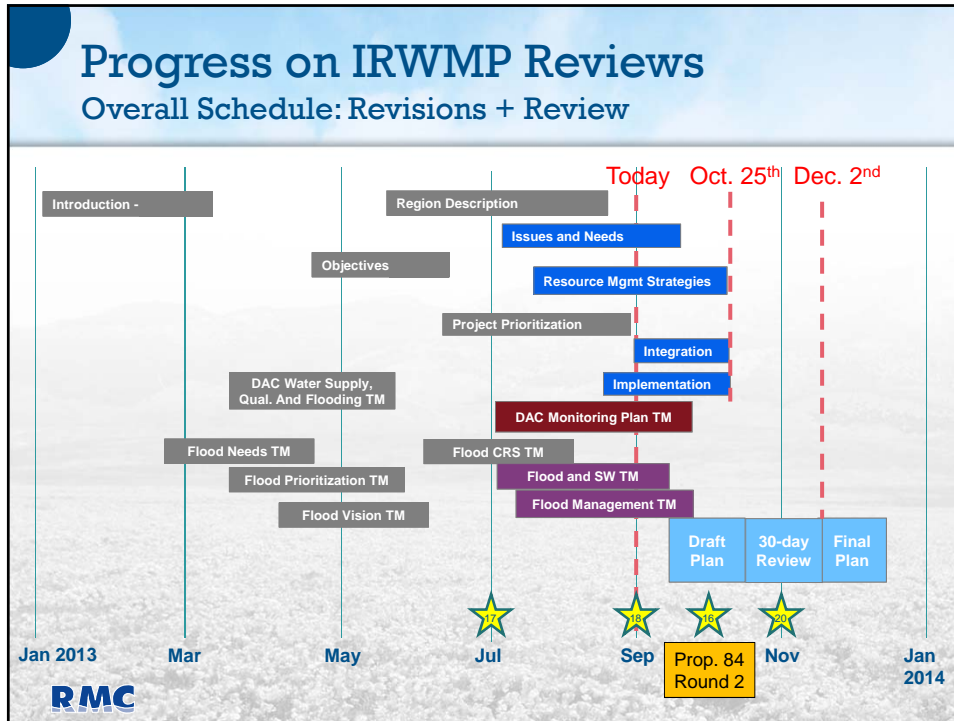
September 18, 2013



Agenda

- Welcome and Introductions
- Progress on IRWMP Reviews
- Public Outreach Update
- Preview of Section 3 - Issues and Needs
- Relationship of IRWMP Sections 3 - 6
- New Project Recommendation
- Project Prioritization Method
- Preliminary Results of Prioritization
- Next Steps

RMC



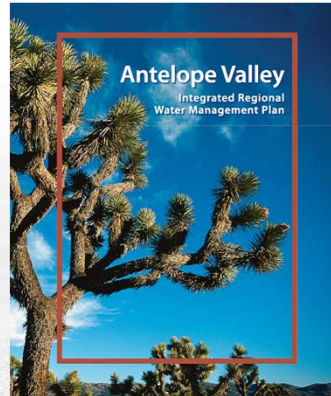
Public Outreach Update

- Vicki Medina, A-Team coordinator
- Events attended
- Planned events

RMC

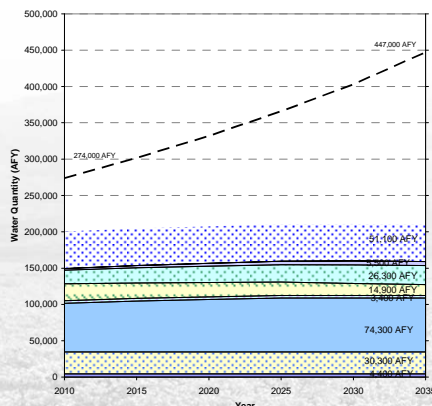
Preview of Section 3

- Supply
 - Supply/Demand Mismatch
 - 6-month Interruption Scenario
- Natural Recharge and Return Flow assumptions
- Water Quality
- Integrated Flood Management
- Land Use
- Climate Change



Section 3 - Supply/Demand Mismatch

Water Supply for an Average Year



- Changes from 2007:
 - Lower population/ urban demand
 - Lower Ag acreage/ Ag demand
 - Recycled water flows lower
 - ASR is lower
 - Natural recharge – adjudication?
 - Return flows – adjudication or calculate?

Need stakeholder consensus



Section 3 - 6-Month Interruption Scenario

- Groundwater Storage
- Surface Storage
- Pumping Capacity
- Recycled Water
- Increased Stormwater Capture

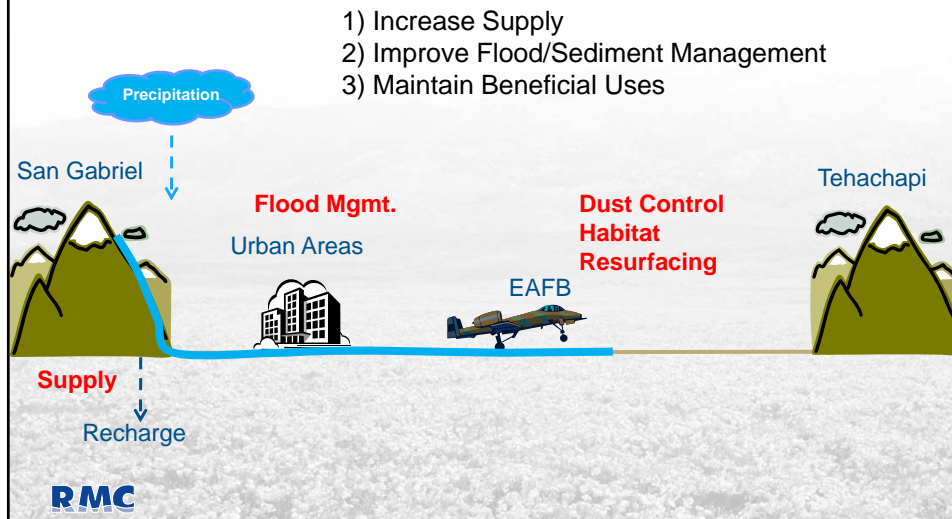
RMC

Section 3 - Water Quality

- Groundwater
 - TDS and nutrients
 - Arsenic
- Recycled Water
 - Groundwater recharge requirements
 - Pathogens
 - TOC
 - TDS and nutrients
- Surface Water
 - Sediment

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Section 3 - Integrated Flood Management



Section 3 - Environmental Resource Management and Land Use

- Environmental Resource Management
 - Desire for growth vs. preserving open space
 - Threatened and endangered species
 - Non-native species
- Land Use
 - Recreation
 - Pressure for growth
 - Culture and values protection

Section 3 - Climate Change

High Priority Issues Determined in Workshops

- **Water Demand/Supply:** Limited ability to meet summer demand and decrease in seasonal reliability
- **Flooding:** Increases in flash flooding, with particular attention paid to the balance of flood control with habitat/EAFB needs
- **Water Supply:** Lack of groundwater storage to buffer drought
- **Water Supply:** Decrease in imported supply
- **Water Supply:** Invasive species can reduce supply available
- **Ecosystem and Habitat:** Increased impacts to water dependent species and decrease in environmental flows
- **Water quality:** Increased constituent concentrations

Relationship of IRWMP Sections 3 through 6

Section 3	Section 4	Section 5	Section 6
Issues and Needs →	Objectives →	Water Management Strategies →	Integration & Objectives Assessment
<ul style="list-style-type: none"> •Supply •Water Quality •Flood •Environmental •Land Use •Climate change 	<ul style="list-style-type: none"> •Specific •Measurable •Attainable •Realistic •Timeline 	<ul style="list-style-type: none"> •Existing •Planned (implementation projects) 	<ul style="list-style-type: none"> •Progress since 2007 •What additional measures are needed to fully meet objectives? (conceptual projects + "hypothetical") •How can we integrate projects?



New Project Recommendation

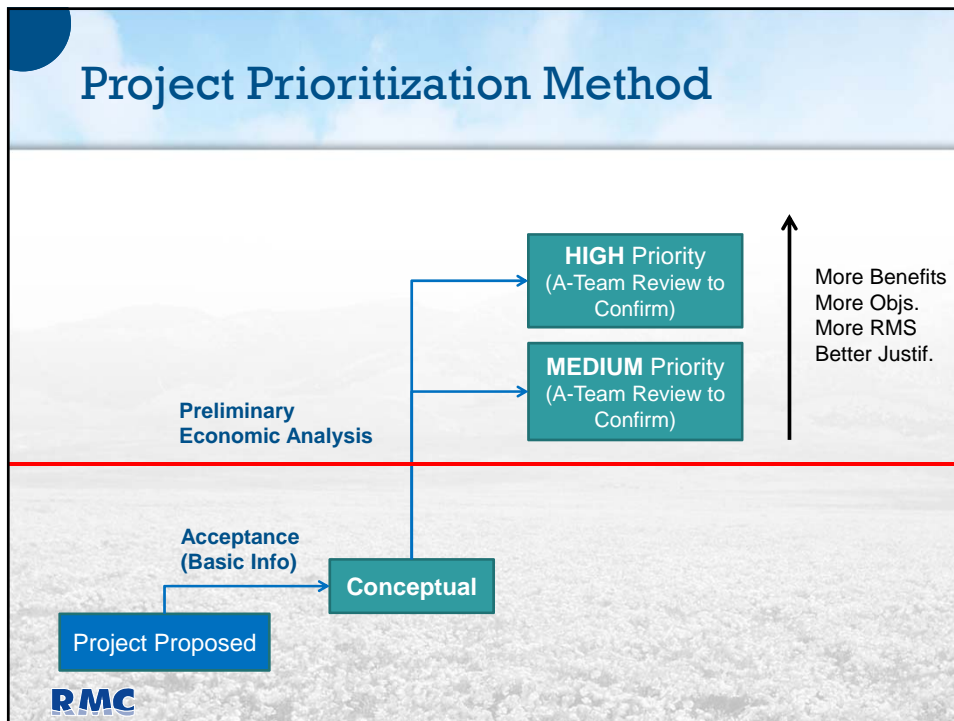
Need stakeholder consensus

- A-Team Meeting held Sept. 9th at L.A. County Farm Bureau
- AVEK: Water Supply Stabilization Project (WSSP) – Westside Expansion
 - Increases the delivery of AVEK’s State Water Project (SWP) water into the region’s western area for groundwater recharge
 - Supplements supply required during summer peaking demand and anticipated dry years
 - Land and facilities necessary for up to an additional 500,000 AF of water storage
 - The project can be integrated with other regional water supply projects for increased reliability

RMC

Project Prioritization Method

Criterion	Conceptual	Implementation	Scoring to Determine Medium/High Priority
General Information	Project description, location, and general info	Project description, location, and general info	---
Prelim. Economic Analysis	NO	YES	---
Project Benefits	At least one	At least one	Per Benefit: 3 pts = good justification 2 pts = fair justification 1 pts = poor justification
IRWMP Objectives	At least one	At least one	1 pt per Objective
Resource Mgmt. Strategies	At least one	At least one	1 pt per RMS
DAC/Tribal/Env. Justice	Sufficient information	Sufficient information	For each: Yes = 3 pts No = 0 pts
Project Costs	Sufficient information for level of design	Sufficient information for level of design	For Implementation Projects: 5 = highest 3 = medium 0 = lowest For Studies/Reports: 5 = sufficient information 0 = insufficient information
Technically Feasible	At least one supporting document	At least one supporting document	---
Readiness to Proceed	Status clearly defined	Status clearly defined	---
Climate Change	Sufficient information	Sufficient information	---



Preliminary Results of Prioritization

(see meeting agenda)

- A-Team Meeting held Sept. 9th at L.A. County Farm Bureau
- Preliminary list of prioritized projects was reviewed with A-Team
- Need feedback from stakeholders
- Looking forward:
 - Submittal will continue until Oct. 4th
 - Updated prioritization list at Oct. 16th Stakeholder
 - Submittals after Oct. 4th will continue on website

RMC

Next Steps

- **Additional Info for Projects**
 - Submittal will continue until Oct. 4th for 2013 Update
 - Submittal to AVWATERPLAN.ORG will be on-going after that
 - RMC to email all proponents with Conceptual projects
- **IRWM Plan**
 - Section 3 (Issues and Needs) – review in Sept./Oct.
 - Section 5 (Resource Management Strategies) – review in Oct.
 - Section 6 (Project Integration & Objs Assessment) – review in Oct.
 - Section 8 (Framework for Implementation) – review in Oct.
- **Flood**
 - Last TM review in Sept./Oct.
- **DAC**
 - Last DAC TM review in Sept./Oct.
- **A-Team meeting** – week of Oct. 7th
- **Stakeholder meeting** – Oct. 16th (Palmdale Water District?)

RMC



AV IRWMP Tenth Stakeholder Meeting

Wednesday, September 18, 2013

Minutes taken by: Brenda Ponton

The Tenth Antelope Valley Integrated Regional Water Management Plan (IRWMP) 2007 Update Stakeholder meeting was held from 9-11 am on September 18, 2013, at the City of Palmdale Larry Chimbole Cultural Center – Lilac Room.

1. Welcome and Introductions

- a. The meeting was opened and led by Brian Dietrick (RMC) and called to order at 9:05 am
- b. An electronic copy of the PowerPoint presentations and sign-in sheet are attached

2. Progress on Reviews

- a. Brian announced that the remaining sections will be out for review within the next few weeks
- b. The 30-day public review period for the Draft 2013 Antelope Valley IRWMP will be during the month of November and ending December 2nd
 - There was stakeholder consensus that this was an adequate amount of time for review despite the holidays during this period

3. Public Outreach Update

- a. Vicki announced that the media was present at the last meeting and there is a news article about the IRWMP efforts
- b. Carlyle attended Thursday Night on the Square and Farmer's Market, and spoke with people about the IRWMP, including students who showed an interest in water issues
 - Outreach materials can be picked up from Carlyle at his office
 - RMC will bring the posters to the next stakeholder meeting and post PDFs on the AV website

4. Preview of Section 3 – Issues and Needs

- a. Supply/Demand Mismatch
 - Brian asked the group whether adjudication numbers should be used for natural recharge and return flow estimates
 - Gene stated that the court has currently calculated the safe yield at 110,000 AFY, but the estimate may change and different parts of the Valley have different safe yields
 - Gene stated the court is investigating a range for natural recharge of 60,000 AFY to 190,000 AFY
 - Bob suggested that because of climate change, long-term planning should be considered

- It was suggested that grant money be pursued to determine a more accurate range for natural recharge estimates
 - b. Integrated Flood Management
 - Brian explained how the Flood Management portion of Section 3 will discuss Integrated Flood Management – there is a need to balance the different impacts of flood waters to simultaneously (1) increase recharge/supply, (2) decrease flooding in urban areas, and (3) leave enough water downstream to maintain habitat, control dust, and provide sediment for resurfacing Edwards Air Force Base emergency landing areas
 - c. Additional Section 3 topics were briefly presented including a 6-Month interruption of State Water Project supply, Water Quality, Environmental Resource Management, Land Use, and Climate Change
 - d. Relationship of Sections 3 through 6
 - Brian explained how Section 3 will quantify the water management issues in the Antelope Valley, Section 4 will present the Objectives developed to address these issues, Section 5 will explain the strategies to help achieve those objectives, and Section 6 will show how far the Valley has come in terms of meeting the Objectives and what projects need to be considered to help meet Objectives that have not been met
5. New Project Recommendation
- a. AVEK Water Supply Stabilization Program (WSSP) – Westside Expansion
 - A-Team agreed to accepting the project during the September 9th meeting
 - Project will allow the WSSP-2 project to bank more SWP water, and includes increasing pumping capacity pipeline placement
 - The stakeholder group motioned to accept the project into the plan
 - b. Review and acceptance process
 - New projects will continue to be reviewed, evaluated, and prioritized by the A-Team and then presented to the stakeholders for acceptance after the completion of the 2013 IRWMP Update
6. Project Prioritization Method
- a. Brian reviewed the criteria for acceptance into the plan and how implementation projects are scored
 - To be considered as an implementation project, there must be enough cost and benefit information to conduct a preliminary economic analysis
7. Preliminary Results of Prioritization
- a. Preliminary prioritization results are listed on the back of the meeting agenda
 - b. Open Discussion:
 - Aracely noted that some projects on the list are not currently in the AV website database – RMC will forward project information to Waterworks

- GEI mentioned that they have a preliminary engineering report for the Rosamond CSD Arsenic Remediation project that includes a preliminary economic analysis

8. Next Steps

- Additional Info for projects
 - Submittal will continue until Oct. 4th for inclusion into the 2013 Update (i.e., the hard copy version); but project information may be submitted to the website at any time
 - RMC will email proponents with conceptual projects to request additional info. that might be available
- IRWM Plan
 - Section 3 (Issues and Needs) – out for review by the end of September
 - Section 5 (Resource Management Strategies) – out for review in October
 - Section 6 (Project Integration and Objs Assessment) – out for review in October
 - Section 8 (Framework and Implementation) – out for review in October
- Flood
 - Last TM out for review the end of September
- DAC
 - Last DAC TM out for review the end of September
- A-Team meeting – week of October 7th
- Stakeholder meeting – The next stakeholder meeting will be held October 16th at Palmdale Water District (RMC to confirm location)

9. Follow Up Discussion on Adjudication Numbers

- Brian suggested having a documented low and a documented high natural recharge range with the adjudication estimate falling somewhere in between
 - Gene stated the adjudication safe yield is 110,000 AFY with 60,000 AFY for natural recharge, around 23,000 AFY for agricultural return flow, and around 27,000 AFY in imported water return flow
- It was suggested to have a footnote stating the range used in the 2013 Update is consistent with adjudication rulings as of the time of the 2013 Update instead of specifically using adjudication numbers
- While the highest natural recharge value considered in the adjudication is currently 190,000 AFY, the stakeholder group did not see this number as a reasonable high estimate for the purposes of IRWMP
- Carlyle motioned to use the 60,000 estimate for natural recharge in the IRWMP 2013 Update
- It was agreed that RMC may determine a low and high documented/defeasible range for the natural recharge and return flows and will provide access to supporting references

10. Meeting was adjourned at 11:00 am

ACTION ITEMS:

1. RMC to secure meeting space for next stakeholder meeting at Palmdale Water District
2. RMC to email all proponents of conceptual projects to request any information necessary for the projects to be scored as implementation
3. RMC to update prioritization list before the October stakeholder meeting
4. RMC to email LA Waterworks project info not already included on the AV website
5. LA Waterworks to update the website with the revised project info
6. RMC to get a copy of the AV IRWMP article to put in the plan
7. RMC to bring outreach posters to the October stakeholder meeting
8. RMC to post copies of the outreach materials on the AV website
9. RMC to determine defensible natural recharge and return flow estimates and confirm with the A-Team at the October A-Team meeting; these values will also be documented in Section 3 (distributed for review in September)
10. RMC to complete Section 3, Section 5, Section 6, Section 8, Flood TM, and DAC TM, and upload to FTP site for review
11. Vicki M. and Rick C. to handle notifications for stakeholder meetings

DRAFT