

1.2.2.11 Media

Representatives of the Antelope Valley Press and the Mojave Desert News regularly attend RWMG stakeholder meetings and informed their readership of the goals and objectives of this IRWM Plan. Progress was reported on in these two major area newspapers as well as other local newsletters.

1.2.2.12 Others

Other agencies involved in the planning process include the Antelope Valley Board of Trade, Boron Community Services District (Boron CSD), the Mojave Chamber of Commerce, California City Economic Development Commission, the Association of Rural Town Councils, and individual town councils throughout the Antelope Valley Region. The various town councils' roles are to ensure that their water, natural resource, fire suppression, flood control, and land-use planning goals are incorporated in this IRWM Plan. Other groups promote commercial activity in the Region. A copy of a sign-in sheet from one of the many Stakeholder meetings can be found in Appendix B.

1.2.3 Activities

This IRWM Plan was developed to evaluate and address regional issues while recognizing and honoring local conditions and preferences. In order to accomplish this delicate balance, an effective process to involve stakeholders and incorporate their input has been implemented. The process centers on regular stakeholder meetings open to the public where attendees are invited to participate in several ways. During the preparation of the 2013 IRWM Plan updates, attendees were asked to participate in facilitated discussions of major items of interest, to review draft Plan chapters and other prepared documents, and to provide input on the agenda for upcoming stakeholder meetings. These meetings were announced to a broad distribution list via e-mail and all materials developed for use in stakeholder meetings were made available on the project website. The methods for stakeholder involvement and input are described below:

- **Notification of Intent (NOI):** An NOI to prepare an update to the 2007 IRWM Plan was published in three local newspapers on July 15, 2013 and on July 22, 2013. A copy of the notice is provided in Appendix C. The published NOI contained the following language:

“The Antelope Valley Integrated Regional Water Management (IRWM) Program is preparing an update to the Antelope Valley IRWM Plan adopted in 2007. IRWM Plans are regional plans designed to improve collaboration in water resources management. The first IRWM Plan for Antelope Valley was published in 2007, following a multi-year effort among water retailers, wastewater agencies, storm water and flood managers, watershed groups, the business community, agriculture representatives, and non-profit stakeholders to improve water resources planning in the Antelope Valley IRWM Region.

In response to changes in the State’s integrated planning requirements, the Antelope Valley IRWM Program is preparing an update to the 2007 IRWM Plan. This update is an opportunity to incorporate additional stakeholder interests into the IRWM Plan, and revisit the Plan in light of changes that have occurred since 2007.

The 2007 IRWM Plan and information concerning the update may be viewed online at <http://avwaterplan.org>.

Questions regarding the AV IRWM update should be directed to: Aracely Jaramillo at AJaramillo@dpw.lacounty.gov

This public notice is being published in accordance with section 10543 of the California Water Code.”

- **Review of Plan Sections:** This IRWM Plan synthesizes and extends a significant body of work related to water supply, water quality, flood management, environmental resources, and open space for the Antelope Valley Region. The original sections of the 2007 IRWM Plan were updated and Stakeholders were also provided the opportunity to review the draft 2013 IRWM Plan updates and the material was adopted only after the stakeholders reached facilitated broad agreement on the material. The subjects of the sections include: introduction, Region description, issues and needs, objectives, resource management strategy development, project integration and objectives assessment, Plan and project evaluation and prioritization, and framework for implementation. These sections incorporate and integrate stakeholder-generated information and aggregate this information from across the entire Antelope Valley Region.
- **Stakeholder Meetings:** These meetings provide background on the planning process; identify issues, opportunities and constraints; consider opportunities for project integration, and identify comments on the chapters and draft plans. They also provide a forum for more detailed discussion of the issues related to revision of this IRWM Plan, including the prioritization and selection of projects for IRWM grant funding.
- **Project Website:** A project website was developed (www.avwaterplan.org) to facilitate the distribution of project information to stakeholders. The website contains background information about Plan development, a schedule of meetings, and contact information. The website also includes a database tool through which stakeholders can submit or review projects or project concepts. A print out of the home page is included in Appendix C.
- **Electronic and Written and Communications:** Electronic mail was the main tool used to maintain a high level of stakeholder communication and engagement. All meetings and public notices were sent as far in advance as possible to stakeholders. Various stakeholder groups also forwarded these messages to their constituencies, thereby reaching additional stakeholders. In addition, written communications in the form of letters to cities and press releases to the media were utilized to expand awareness of, and participation in, this IRWM Plan development. Regular attendance at stakeholder meetings by members of the local press also allowed the residents of the Antelope Valley Region to be informed. Sample email notifications are provided in Appendix C.

1.2.4 Community Outreach

Community outreach within the Antelope Valley Region has been a key component to a successful IRWM Plan. Simply stated, a regional plan should have regional input, and should incorporate the widest variety of stakeholders possible. Initial outreach efforts began in 2007 and were targeted at improving overall stakeholder participation through increased agency and organized committee involvement, including disadvantaged, underserved, and smaller communities in the Region. A DAC Outreach Subcommittee had been formed to assist in outreach efforts. More information about these early efforts may be found in the 2007 IRWM Plan, Section 1.2.4.

For the 2013 IRWM Plan updates, outreach was focused on DAC areas but also extended to underserved and other rural communities. Efforts included presentations to the Antelope Valley Board of Trade and Quartz Hill Chamber of Commerce, as well as booths at the Thursday Night on the Square



Public Outreach Subcommittee members meet to discuss various opportunities to involve more Antelope Valley communities, including DACs.

event and the Antelope Valley Fair and Alfalfa Festival. Outreach materials for these events can be found in Appendix C.

While DAC outreach efforts were underway, additional steps to better identify environmental justice problems, underrepresented, and rural populations within the Region were taken.

1.2.4.1. Disadvantaged Communities

For the 2013 IRWM Plan updates, A DAC Outreach committee was formed to assist with data collection, outreach efforts, and project solicitation in DAC areas. The committee was composed of volunteer members representing a diverse cross section of the active Antelope Valley IRWM Plan stakeholders including DACs, DWR, and mutual water companies. The members soon developed and implemented a multifaceted outreach campaign to support the IRWM Plan that would more actively address the needs of DACs. Overall, the two main goals of the committee were to:

- Encourage participation by DACs and solicit input into Antelope Valley IRWM Plan updates, and
- Educate target audiences in DAC areas about the purpose and benefits of the Antelope Valley IRWM Plan.

After DAC areas were identified using mean household income (MHI) data from the DWR website, a coordination effort to speak at DAC community meetings was initiated. Initial contact was made with representatives from Lake Los Angeles, Mojave Public Utility, Boron Community Services District, North Edwards Water District, Edgemont Acres Mutual Water Company, California City, and others. Subsequent presentations at local community meetings were also arranged. In addition to PowerPoint presentations, handouts were provided at each meeting that included detailed schedules, project eligibility criteria, IRWM Plan goals, plan objectives, and technical assistance listings with contact information. Table 1-2 contains a list of the DAC outreach meetings scheduled for the 2013 IRWM Plan updates.

Table 1-2: DAC Outreach Meetings

Meeting/Event	Meeting Date
DAC Committee Meeting No. 1	April 18, 2012
Boron CSD	July 24, 2012
Mojave Public Utility District	August 14, 2012
North Edwards/Desert Lake CSD	August 14, 2012
Lake Los Angeles Town Council	August 28, 2012
DAC Committee Meeting No. 2	March 20, 2013
DAC Committee Meeting No. 3	May 15, 2013
Quartz Hill Chamber of Commerce	June 5, 2013
Littlerock Creek Irrigation District	June 12, 2013
Rosamond CSD	June 13, 2013
Lake Los Angeles conference call	August 7, 2013
Littlerock Creek Irrigation District	August 7, 2013

As defined by the 2012 IRWM Grant Program Guidelines-IRWM Plan Standards, DACs are defined as having an annual MHI that is less than 80 percent of the statewide annual median household income, which is \$48,706 using Census 2010 data. To confirm DAC areas in the Antelope Valley Region, committee members conducted an initial assessment of the Antelope Valley Region using

DWR's online DAC map for census "places", "tracts", and "blocks". This identified a number of DAC areas in the Region, as listed below.

Boron, Unincorporated Los Angeles County

- Concerns regarding high arsenic levels in groundwater – would like to implement groundwater projects that reduce the concentration of arsenic.

Lake Los Angeles, Unincorporated Los Angeles County

- Interest in restoring Lake Los Angeles - could create reservoir for farming, fire usage, recreation, tourism/commercial, possible groundwater recharge site, possible use of recycled water.
- Provide flood control at Big Rock Creek Wash - heavy rains cause flooding along local roads.
- Transition from septic systems to sewer - they have some sewer lines installed but have not been used.

Littlerock, Unincorporated Los Angeles County

- Would like to see the creation and enforcement of xeriscaping ordinances designed for their community.
- Interested in opportunities for water recharge, banking, and conservation – although no specific examples were cited at the time.
- Concern about growth of communities vs. water reliability for the Region.

Mojave, Unincorporated Kern County

- Water conservation concerns. Specifically, the Mojave School District is interested in constructing two new high schools in a water-efficient manner. The DAC Outreach Subcommittee put the School District in contact with Mojave Utilities District and Environmental Justice Coalition for Water (EJCW) representative, Cindy Wise.

Portions of the City of Lancaster

- Critical water-related needs to be determined at scheduled community meetings.

Portions of the City of Palmdale (Desert View Highlands)

- Critical water-related needs to be determined at scheduled community meetings.

Roosevelt, Unincorporated Los Angeles County

- Primarily concerned with protecting their wells, protecting agricultural water rights, and preventing LACSD from "wasting water" on "new farms." An LACSD Outreach Subcommittee member followed up directly with community member concerns about the current and future LACSD water usage in their area.

A subset of disadvantaged communities are underrepresented communities. These communities are composed of minority communities living within disadvantaged communities. There are two areas within the Antelope Valley Region that were identified to meet this criterion, and they are both contained within the Cities of Lancaster and Palmdale. These areas are represented in the IRWM process by stakeholders from each of the two cities.

Refer to Appendix D of the IRWM Plan for larger DAC Census Block and Residential Area Maps and Census data printouts. In addition, two technical memoranda were prepared to characterize DACs and to define issues related to DAC areas. These documents are included in Appendix D:

- DAC Water Supply, Quality and Flooding Data Final Draft TM
- DAC Monitoring Plan Final Draft TM

1.2.4.2 Rural/Isolated Communities

Many communities that do not face the economic constraints of disadvantaged communities must deal with obstacles due to limited resources and geographic location. Many smaller, rural communities in the Antelope Valley Region are isolated, both politically and physically, from the agency and organizational happenings in the Antelope Valley Region, and the committee agreed that these communities would also be incorporated into our IRWM Plan outreach efforts as a result of this isolation.

Outreach efforts were extended to all communities in the Region to include taking the IRWM Plan message to traditionally-isolated and more rural areas of the Antelope Valley to include the following communities (see Figure 1-2):

- Boron
- Lake Los Angeles
- Leona Valley
- Mojave
- Quartz Hill
- Sun Village
- The Lakes Community
- Three Points



Although they are not considered ‘disadvantaged,’ these are towns that are generally very small in population, have fewer resources, and thus, a smaller organizational structure. Most often, these towns are not able to participate in many of the larger projects that municipalities are engaging in with respect to water and environmental resource related issues in the Antelope Valley Region. However, these communities are eager to participate in a Regional group that promotes a collaborative effort. Areas like Antelope Acres, Boron, Leona Valley, and Three Points have relatively high median household incomes but have been frustrated in trying to get specific projects implemented or tying in to regional efforts because of the long distances which separate many communities in the Antelope Valley Region.

1.2.4.3 Native American Tribal Identification

Research and outreach efforts were also made to identify and contact local Native American tribal communities through contacts with other Antelope Valley community groups and research. No organized tribes were identified through this outreach process. Previous efforts at outreach had determined that some Native American individuals within the Antelope Valley Region had been reached but reported that their lineage groups were not land holders and, therefore, not recognized as tribes or nations.

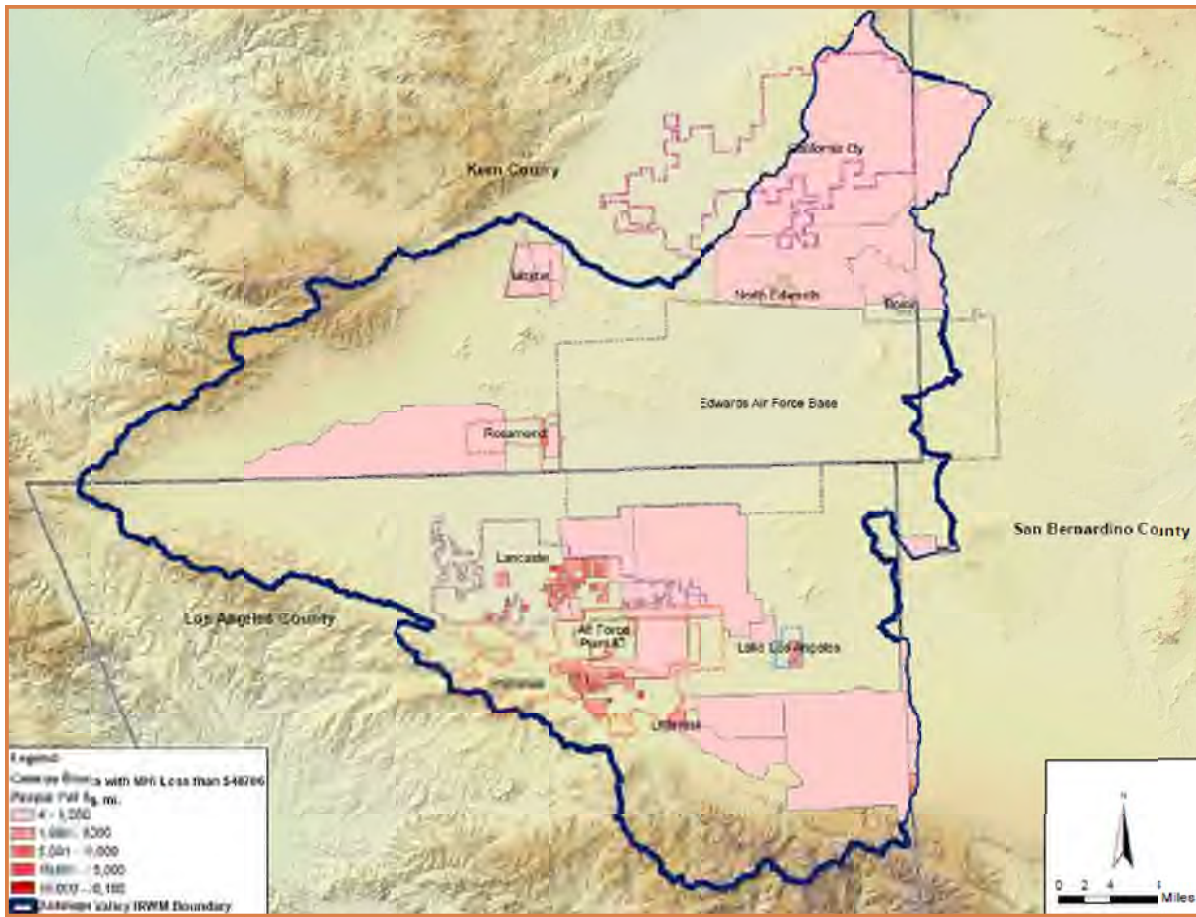
The Antelope Valley Indian Museum further reports that during the late 19th and early 20th centuries, most American Indian residents remaining in the Antelope Valley integrated with the ever-expanding European culture in Southern California, and the binding group ties of earlier times began to be erode the cultural base. As such, there are no formal reservations or rancherias in the Antelope Valley.

1.2.4.4 Environmental Justice Outreach

Environmental justice is important to every community, and the Antelope Valley Region is no exception to this rule. The United States Environmental Protection Agency (EPA) defines environmental justice as the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. Simply stated, this means that no group of people should bear a disproportionate share of negative environmental consequences resulting from industrial, governmental, and commercial operations or policies.

To begin identifying potential environmental justice issues facing the Antelope Valley, subcommittee members performed independent research and contacted the EJCW for further documented information and expert advice. The EJCW was not aware of any water-related environmental justice concerns in the Antelope Valley Region. Additionally, the committee used the EPA EnviroMapper maps found on www.city-data.com to locate hazardous waste sites within the Region. The EPA maps did show some hazardous waste landfills within the Region, but they did not appear to be located in populated areas or concentrated in any one community. Based on review of the EPA maps and discussions with EJCW, other non-governmental organizations and community members, it was discovered that there were no documented environmental justice issues in the Antelope Valley Region. Guidelines for incorporating DACs into the IRWM Plan that help prevent environmental justice issues from developing are detailed in the 2007 IRWM Plan and are repeated here.

Figure 1-2: Antelope Valley IRWM Disadvantaged Communities as Defined by Census Blocks and Population Densities



The major suggestions made by the EJCW were the following:

- Provide technical assistance, both to facilitate participation, and to assist with project development.
- Include an Environmental Justice Community representative on the governing body.
- Ensure that the on-going governance structure defined in the Plan includes a prominent role for Environmental Justice communities, including some influence over which projects are selected for future implementation grants.
- Ensure that there is a mechanism for Environmental Justice communities to participate in the evaluation of the plan over time.

Each of these suggestions are incorporated into the overall outreach strategy for the IRWM Plan except for the second bullet. There is no governing body representative for environmental justice.

As the Antelope Valley communities expand and evolve, the IRWM Plan Stakeholder group will continue to assess environmental justice concerns throughout implementation of the Plan.

1.2.4.5 Media Coverage of Plan Preparation

Progress of the 2013 IRWM Plan updates was also covered by reporters who attended stakeholder meetings representing the Antelope Valley Press and the Mojave Desert News. Committee members found that many residents were already aware of this IRWM Plan because of the coverage by these newspapers. Their exposure has greatly helped keep members of the general public and DACs informed about the IRWM Plan updates.

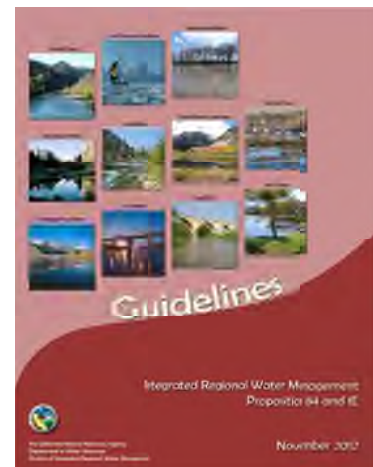
1.3 Plan Updates

This subsection provides a brief overview of the planning process utilized to update the IRWM Plan to comply with the 2012 IRWM Grant Program Guidelines-IRWM Plan Standards.

1.3.1 Region Goals and Planning Objectives

The primary reason for this IRWM Plan is to develop a broadly supported water resource management plan that defines a meaningful course of action to meet the expected demands for water and other resources within the entire Antelope Valley Region through 2035. Region goals were originally developed in 2007 and were updated during the 2013 IRWM Plan updates. This IRWM Plan will address:

- How to reliably provide the quantity and quality of water that will be demanded by a growing population;
- Options to satisfy agricultural users' demand for reliable supplies of reasonable cost irrigation water; and
- Opportunities to protect, enhance, and manage current water resources and the environmental resources for human and natural benefit within the Antelope Valley Region.



In order to achieve these goals, a list of planning objectives for the IRWM Plan was developed back in 2007. This list is reproduced below. The 2013 IRWM Plan updates were completed in a fashion that preserves the original intent of these planning objectives.²

1. Develop and Adopt an Integrated Regional Water Management Plan for a planning period between 2005 and 2035 by December 31, 2007 that:
 - a. is written to be a useful tool to a broad range of organizations within our region;
 - b. describes reasonably foreseeable water demands for our region during the planning period;
 - c. characterizes the available water supplies for our region during the planning period;
 - d. describes and evaluates potential management actions that we can take to meet the expected water demand of everyone within the Region during the planning period;
 - e. sets workable planning targets to be accomplished by specified future dates within the planning period;
 - f. identifies potential and promising sources of money to pay to implement this IRWM Plan;
 - g. sets priorities for implementation;
 - h. is flexible and responsive to changing conditions;
 - i. satisfies the guidelines published by DWR for IRWM Plans;
 - j. satisfies the requirements published by DWR for AB 3030 groundwater management plans; and
 - k. qualifies entities within our region to apply for water related grant funds from State sources such as Proposition 50, and Proposition 84, and Proposition 1E.
2. Discuss and describe how all broad-based regional planning efforts are related and how they will be coordinated:
 - a. IRWM Plan;
 - b. Adjudication;
 - c. Water Storage District Proposal;
 - d. Water Banking JPA; and
 - e. others.
3. Establish cooperative relationships, new partnerships, and an optimistic approach to create a useful regional plan.
4. Each member of the RWMG will take ownership in this IRWM Plan and collaborate to produce, implement, and update a widely accepted plan.
5. Conduct strategic education and outreach to the public informing the target audiences of the following:
 - a. the need for regional planning;

² These planning objectives should not be confused with the Region Objectives in Section 4. Planning objectives apply to the IRWM Plan document itself. Region Objectives apply to the Antelope Valley.

- b. benefits of a cooperative approach;
- c. the priorities for implementation;
- d. how the public can participate; and
- e. others?

6. Identify a back-up plan for meeting grant application deadlines.

Many of these objectives were reached by the end of 2007. Others are ongoing in nature and apply to the 2013 IRWM Plan updates. Again, it is the intent of these 2013 IRWM Plan updates to preserve the intent of the planning objectives.

1.3.2 Process for 2013 Updates

This planning process recognized the importance of three key elements to any successful public policy planning exercise: people, information, and action. It was designed to provide a forum for safe and effective dialogue among the various stakeholders. During the development of the 2007 IRWM Plan, the group agreed to the following steps for interaction through a professionally facilitated process. These steps were also implemented during the 2013 IRWM Plan updates:

1. Adopt Specific Measurable Attainable Relevant Time-based (SMART) goals;
2. Create a safe place for interaction;
3. Establish a clear course of action;
4. Demonstrate tangible progress; and
5. Iterate until group is satisfied.

The planning process was also designed to provide useful, broadly accepted information that supports clear action. The information gathering and generation portion of this process is summarized in Figure 1-3, Antelope Valley IRWM Plan Planning Process. It includes the following key steps that were repeated during the 2013 IRWM Plan updates:

- **Identify the Antelope Valley Region's issues and needs:** Illustrate the issues and needs of the Antelope Valley Region related to water resources in a manner that reflects the majority of Stakeholder concerns. These issues and needs are what drive the Stakeholders into taking action, and are discussed in Section 3. The Region issues and needs were revised with more current information during the 2013 IRWM Plan updates.
- **Identify clear plan objectives:** Collectively establish the quantifiable objectives that the regional entities will work together to accomplish between now and 2035. These Objectives and the Planning Targets that will be used to help measure their progress are discussed in Section 4. The Region Objectives and Planning Targets were revised during stakeholder meetings for the 2013 IRWM Plan updates.
- **Resource Management Strategy Development:** Involves reviewing existing documents to identify projects within the following resource management strategies (RMS) that could satisfy these IRWM Plan Region Objectives: water supply, water quality, flood management, environmental management, land use management, and climate change. Resource Management Strategy development is discussed in more detail in Section 5 and was revised during the 2013 IRWM Plan updates.
- **Integration:** Includes intra- and inter- resource management strategy integration between projects. Integration is discussed in more detail in Section 6, and the integration process was revised during the 2013 IRWM Plan updates.

- **Evaluation and Prioritization:** Includes identifying short-term and long-term regional priorities, evaluating and ranking Stakeholder-identified projects and management actions, and identifying which projects the group would take “action” on first. This step is presented in Section 7. This section also includes a discussion of the impacts and benefits of the IRWM Plan, and a discussion of the benefits and costs of the prioritized projects chosen for implementation. Project evaluation and prioritization was revisited during the 2013 IRWM Plan updates.
- **Plan for Implementation:** Finally, this planning process must empower the entities within the Antelope Valley Region to take meaningful action. The implementation plan presented in Section 8 provides the linkage to local planning entities, the governance structure and framework for implementing the Plan, options for financing, sources of funding and a list of performance measures that will be used to gauge progress, data management tools, and a process for updating the Plan in the future.

Throughout the development of the 2007 IRWM Plan and the 2013 Plan updates, public comments as well as Stakeholder comments have been reviewed, evaluated, discussed amongst the Stakeholder group as necessary, and incorporated into the document as appropriate.

The 2013 Plan Updates were presented for public review in draft form from November 12th through December 10th, 2013. Comments received on the draft Plan were incorporated into a Final Plan that was completed by December 31st, 2013. The comments for the Draft 2013 Plan updates have been summarized into a comment response matrix and can be found in Appendix E. After the Final IRWM Plan is submitted to DWR and is approved, members of the RWMG plan to present the document (with 2013 updates) to their boards in the first quarter of 2014 for adoption during public meetings.³

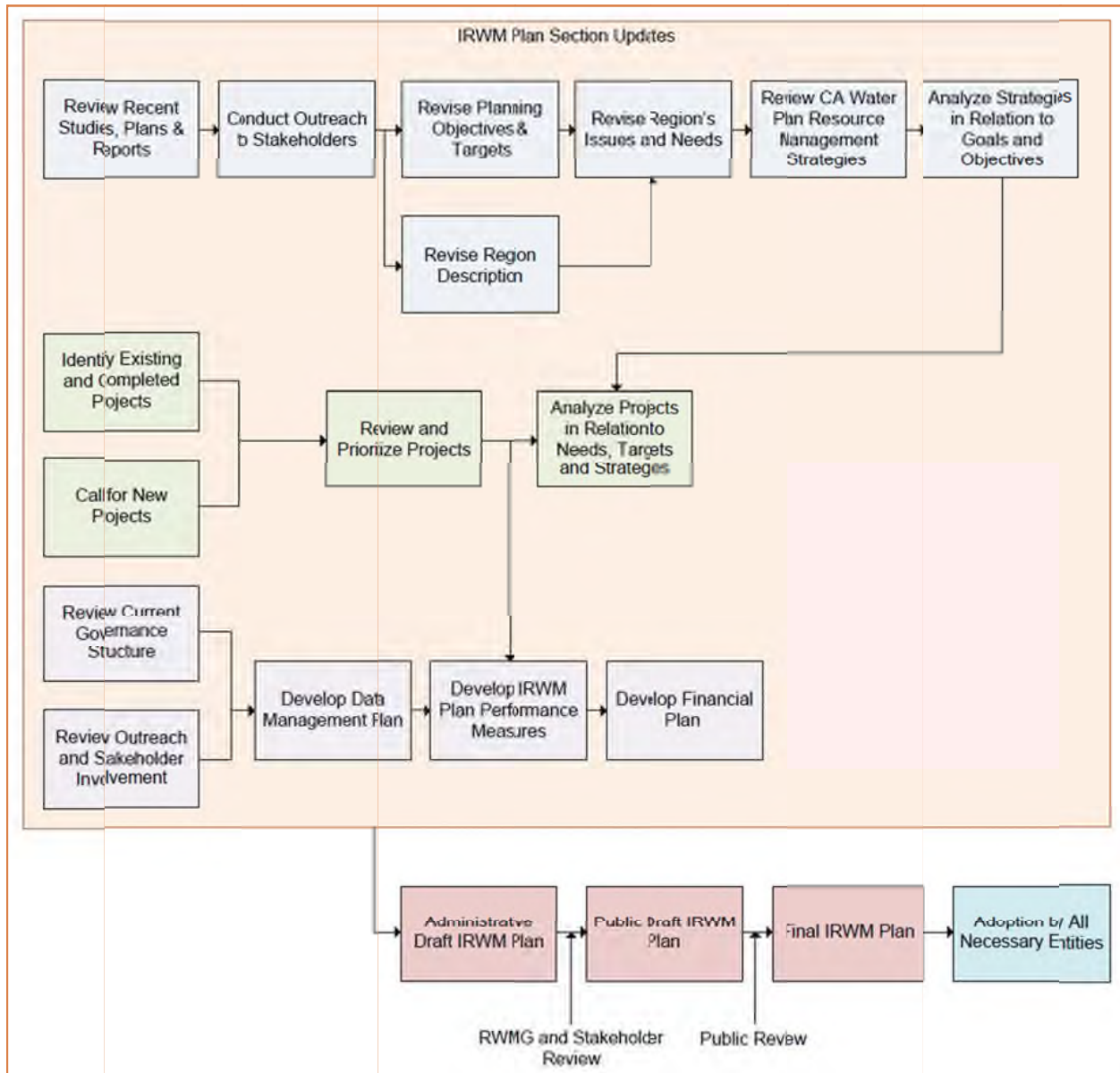
1.3.3 Potential Obstacles to Plan Implementation

One potential obstacle to implementation of the IRWM Plan is the pending adjudication of the Antelope Valley Groundwater Basin. The IRWM Plan’s water supply analysis is based on estimates made regarding availability and reliability of the groundwater supply and was used to identify specific objectives and planning targets for the IRWM Plan. Thus it is possible that the outcome of the adjudication may require a change in the estimates as well as the objectives and planning targets, which may delay implementation of the IRWM Plan. Additionally, the adjudication may place limitations not considered on the groundwater banking and recharge projects included for implementation.⁴ However, the IRWM Plan is meant to be a dynamic planning document and as such will be updated at a minimum of every five years with the project priority list being kept up-to-date as discussed in Section 7.4.2.

³ Some other agencies/stakeholders that are not RWMG members may also adopt the 2013 IRWMP Update.

⁴ The number for total sustainable yield used in this 2013 IRWMP Update is selected strictly for long-term planning purposes and is not intended to answer the questions being addressed within the adjudication process (see Section 3 – Issues and Needs).

Figure 1-3: Antelope Valley Integrated Regional Water Management Planning Process



1.3.4 Groundwater Management Plan

This IRWM Plan defines a clear vision and direction for the sustainable management of water resources in the Antelope Valley Region through 2035. Inherent to this discussion is how groundwater will be managed to help meet the needs within the Antelope Valley Region now and into the future. The 2007 IRWM Plan was designed to meet the requirements for an AB 3030 Plan and establish a groundwater management plan for the whole basin.

The Groundwater Management Act (California Water Code Part 2.75 Section 10753), originally enacted as Assembly Bill (AB) 3030 (1992) and amended by Senate Bill (SB) 1938 (2002), provides the authority to prepare groundwater management plans. The intent of AB 3030 is to encourage local public agencies and water purveyors to adopt formal plans to manage groundwater resources within their jurisdiction.

Within the scope of Water Code Section 10753.8, a local groundwater management plan can potentially include up to twelve technical components, although this IRWM Plan need not be restricted to those specific components. This IRWM Plan addresses all the relevant components related to Groundwater Management Plans in the Water Code, as well as the components recommended by the California DWR in California's Groundwater, Bulletin 118 (DWR, 2004). Nothing in this IRWM Plan will supersede or interfere with the pending adjudication of the Antelope Valley Groundwater Basin. Table 1-3 provides a checklist at the end of this section to indicate where in this IRWM Plan specific Groundwater Management Plan components are located.

1.3.5 Integrated Flood Management Planning

Integrated flood management (IFM) is an approach that varies from traditional flood protection by maximizing the efficient use of a floodplain while promoting public safety. IFM is a process that promotes an integrated, rather than fragmented, approach to flood management; and it recognizes the connection between flood management and water resources management, land use planning, environmental stewardship, and sustainability. Flood risk management balances current needs with future sustainability to enhance the performance of a watershed system as a whole.

The Region developed a set of comprehensive integrated flood management guidelines that identify the AV IRWM Region's flood protection needs. The guidelines prioritize opportunities to capture and utilize stormwater recharge in addition to mitigating flood impacts. The guidelines were developed in coordination with the Flood Management Committee formed from the AV IRWMP Stakeholder Group and AV RWMG. This group assisted with the technical development of the guidelines and provided recommendations for future flood management governance and funding strategies. Findings from this needs evaluation were then used to consider strategies for managing flood issues in the Region, and consider how flood management projects should be evaluated. A set of recommended actions for flood management in the Region was developed, including the recommendation that the Region take part in the National Flood Insurance Program (NIFIP) Community Rating System (CRS) to better map the Region's flood plains, and become eligible for flood insurance discounts. Finally, an assessment of existing and potential flood protection activities versus water quality enhancement activities was completed in order to make recommendations for more integrated flood management. The findings of these tasks culminated in the development of the Integrated Flood Management Summary Document.

The Integrated Flood Management Summary Document is included with this Plan in Appendix F.

Table 1-3: Groundwater Management Plan Checklist According To Required Components

Required Components		
Items to Address	Section of Law	Location in Plan
Provide documentation that a written statement was provided to the public describing the manner in which interested parties may participate in developing the groundwater management plan.	10753.4(b)	Section 1.2.3
Provide basin management objectives for the groundwater basin that is subject to this IRWM Plan.	10753.7(a)(1)	Section 4
Describe components relating to the monitoring and management of groundwater levels, groundwater quality, inelastic land surface subsidence and changes in surface flow and surface water quality that directly affect groundwater levels or quality or are caused by pumping.	10753.7(a)(1)	Section 2 and Section 3
Describe plan to involve other agencies that enables the local agency to work cooperatively with other public entities whose service area or boundary overlies the groundwater basin.	10753.7 (a)(2)	Section 1 and Section 8
Adoption of monitoring protocols for the components in Water Code Section 10753.7(a)(1)	10753.7 (a)(4)	Table 8-4
Provide a map showing the area of the groundwater basin as defined by DWR Bulletin 118 with the area of the local agency subject to this IRWM Plan as well as the boundaries of other local agencies that overlie the basin in which the agency is developing a groundwater management plan.	10753.7 (a)(3)	Figure 2-3, Figure 2-4, Figure 2-10

1.3.6 Climate Change

As part of the update of this IRWM Plan, the Region incorporated climate change considerations into various chapters, as shown below in Figure 1-4.

Figure 1-4: Incorporation of Climate Change into the Antelope Valley IRWM Plan

Chapter 2: Region Description	•Climate change effects and impacts
Chapter 3: Issues and Needs	•Climate change vulnerabilities
Chapter 4: Objectives	•Climate change related objective
Chapter 5: Resource Mangement Strategies	•Strategies to adapt to and mitigate against climate change
Chapter 6: Project Integration and Objectives Assessment	•Evaluation of how proposed projects will meet the Region's climate change related objective
Chapter 7: Project Submittal, Review, and Prioritization	•Climate change adaptation and mitigation included as part of prioritization
Chapter 8: Implementation	•Plan for further data gathering and analysis of vulnerabilities

A climate change committee was established in order to provide input on the Region's vulnerabilities and strategies for responding to climate change. Three meetings were conducted between September 2012 and November 2012 to vet climate change impacts, determine and prioritize vulnerabilities of the Region's water resources to climate change, assess strategies for responding to climate change and mitigating greenhouse gases (GHGs), incorporate climate change considerations into objectives and targets, and incorporate climate change adaptation and mitigation into the project prioritization process. Meeting agendas, notes, and presentation materials are available on the project website (www.avwaterplan.org).

1.3.7 Salt and Nutrient Management Plan

The AV IRWM Region is developing a regional Salt/Nutrient Management Plan (SNMP) to manage salts and nutrients from all sources within the basin to maintain regional water quality objectives and support beneficial uses. The SNMP was developed under the guidance of the SNMP committee who are active participants in the IRWM stakeholder group. A copy of the draft SNMP can be located in Appendix G, and is available on the www.avwaterplan.org website.

