

Public Workshops And DAC Meetings Synopsis

Mojave Integrated Regional Water Management Plan

In order to help guide the update of the Mojave Integrated Regional Water Management Plan, the Mojave Water Agency and other members of the Mojave Integrated Regional Water Management Plan (IRWM Plan) Project Team held a series of workshops and meetings throughout the Mojave Region to engage community members in the update process and identify their community-specific concerns and needs relating to water resources. Seven public meetings and workshops were conducted in various communities located throughout the Mojave Region to increase public participation and obtain meaningful input from a diverse range of community members.

All of the workshops and meetings had similar formats consisting of a brief presentation on the Mojave IRWM Plan Update process, small group discussion sessions, and ended with each small groups reporting to the larger collaborative group on their findings and conclusions.

Five common areas of concern emerged during the small group discussion sessions of all the meetings and workshops:

- Rising cost of water
- Declining water quality
- Limited water resources
- Limited funding resources to address water-related needs
- Need for regional collaboration to carry out projects

During the small group discussion sessions held during the meetings and workshops, participants also reviewed and prioritized a list of key water resource related topics for the Mojave IRWM Plan. The top three priority water-related topics that workshop and meeting participants across the Mojave Region ranked as most relevant in their community were 1) Water Supply and Conservation; 2) Water Quality; and 3) Cost of Water Resources.

INTRODUCTION

Meaningful participation and input from community members and stakeholders are key in developing objectives, projects and programs within the Mojave IRWM Plan to address water-related issues in the geographic area covered by the Mojave IRWM Plan (or Mojave Region). As such, it is important to encourage public participation and work in partnership with community members and stakeholders to identify the water-related challenges and opportunities in the Region. This has been a high priority during the update of the IRWM Plan. In order to provide ample opportunity for public participation, seven meetings were held throughout the Mojave Region. Four Public Workshops were intended for any and all members of the public, and three additional meetings were geared specifically to involve residents of Disadvantaged Communities (DAC) in the Mojave Region. Most of the Mojave Region is comprised of Disadvantaged Communities. Disadvantaged Communities are defined by the State of California as any community where the median household income (MHI) is below 80% of the statewide median household income (SMHI).

Since the intent of the outreach efforts was to identify the water-related challenges and opportunities of the Mojave Region at the community level, the Public Workshops and DAC Meetings were designed to provide the same information for the public and have similar formats. A benefit to making the meetings similar was that it allowed flexibility for people to attend a meeting and ensure that there were no gaps in the information provided across the Region. In addition, while the majority of the Mojave Region is considered to be disadvantaged, some members of those DAC may not be aware that they are considered as such and may have been more inclined to attend a Public Workshop instead of a Disadvantaged Community Meeting.

Because the information collected during the public workshops and DAC meetings is intended to help in the design of IRWM Plan objectives, projects and programs, this synopsis focuses on high-level priority issues identified by public input. In addition, the information presented herein is not intended to comprise a statistically representative sample of the Mojave Region population. Instead the intent is to provide a sense of the water-related priorities expressed by the community members who participated in the workshops and meetings and who were motivated to comment on water issues. In all the workshops and meetings the community members that participated expressed genuine concern and care about their water resources. The participants were also very knowledgeable about their local water conditions and provided meaningful input.

METHODOLOGY

A. Public Outreach

The Public Workshops and DAC Meetings were publicized on the project website (www.mywaterplan.com), with flyers posted in public areas, distributed via U.S. mail, and were advertised in local newspapers. A reproduction of the project website and the flyer are attached as Appendices A and B.

In order to engage a diverse range of community members, seven workshops and meetings were conducted in communities located throughout the Mojave Region. Each had a similar agenda and format, and participants were encouraged to attend at the most convenient time and location. Table 1 below provides details of meeting dates, times, locations and number of participants.

Table 1: Public Outreach

| Public Workshops | |
|--|--------------------------------|
| Date and Location | Number of Participants* |
| Lucerne Valley Tuesday, June 4, 2013 5:00 p.m. – 7:00 p.m. Lucerne Valley Senior Center 10431 Allen Way, Lucerne Valley, CA | 51 |
| City of Barstow Wednesday, June 5, 2013 7:00 p.m. – 9:00 p.m. Barstow Senior Center 555 Melissa Avenue, Barstow, CA | 18 |
| City of Victorville Thursday, June 5, 2013 6:30 p.m. – 8:30 p.m. Victorville City Hall – Conference Room D 14343 Civic Drive, Victorville, CA | 3 |
| Newberry Springs Saturday, June 8, 2013 1:00 p.m. – 3:00 p.m. Newberry Springs Community Center 30884 Newberry Road, Newberry Springs, CA | 22 |
| Disadvantaged Communities Meetings | |
| Date and Location | Number of Participants* |
| Piñon Hills/Phelan Monday, June 10, 2013 6:30 p.m. – 8:30 p.m. Piñon Hills CSD 10433 Mountain Avenue, Piñon Hills, CA | 10 |
| Helendale Tuesday, June 11, 2013 6:30 p.m. – 8:30 p.m. Helendale CSD 26540 Vista Road, Suite C, Helendale, CA | 8 |
| Town of Yucca Valley Wednesday, June 12, 2013 6:30 p.m. – 8:30 p.m. Yucca Valley Senior Center 57090 Twentynine Palms Highway, Yucca Valley, CA | 36 |

*Based on the number of attendees who signed in.

KEY FINDINGS

During the small group discussion sessions of the workshops and meetings, a member from the project team acted as facilitator and led discussions to solicit feedback on issues and opportunities related to the Mojave IRWM Plan Update. While various similar water issues and concerns emerged from the various communities during the workshops and meetings, the level of importance and the perception of those issues and concerns varied from community to community.

A. Overarching Themes and Concerns

Based on the information collected during the Public Workshops and DAC Meetings there were five general water-related challenges and opportunities shared by communities across the Mojave IRWM Plan Region. The following list is not organized by level of importance and only describes those issues and concerns that were common among most communities in the Region, as recorded during the workshops and meetings.

- **Cost of Water** – Many participants expressed that the high cost of water was a big concern resulting primarily from a decrease in the water supply due to a variety of factors. Some of the factors they reported were: lack of regulation of and over-pumping by larger water users and operators, new development and unstructured growth resulting in overdraft of local groundwater basins, and inadequate fee structures.
- **Low Water Quality** – Based on comments received during workshops and meetings, the quality of water in some communities in the Region is affected by high concentrations of septic systems in proximity to the groundwater basins that serve as the community's water source. According to several participants, low water quality is also a result of increased exposure to contaminants from other sources, including low-quality water migrating from adjacent basins. Other factors cited by participants were: irrigation and maintenance of recreation and agricultural uses (i.e. golf courses, alfalfa farms, etc.), industrial dumping, and mining activities. Participants also indicated that water contamination in some parts of the Region is resulting from improper use of abandoned wells - open wells are sometimes used for dumping and expose groundwater resources to surface contaminants during storm events.
- **Limited Water Resources** – Many of the participants from the workshops and meetings indicated much concern about diminishing water supplies. In some communities, participants indicated that overdraft conditions of local groundwater basins were due in part to large well owners and new developments pumping too much water, limiting the groundwater basins as a source of water. Increasing contamination of groundwater basins and diminishing water quality further limit the use of already limited resources. Other community members indicated that the amount of water that is imported to the Region is steadily decreasing and that the use of hauled water from other areas is also very limited.
- **Limited Funding Resources** – One of the toughest challenges identified during the workshops and meetings was the lack of monetary resources necessary to fund efforts to resolve local and regional water issues. In identifying specific water issues, many participants also identified opportunities for resolving said issues, including establishing a sewer system to replace septic systems, providing incentive programs to promote and increase conservation practices, and expanding and improving existing infrastructure to increase water efficiency. However, almost always following identification

of opportunities to resolve water issues, participants also acknowledged that getting funding for any special projects could prove to be difficult and therefore a major challenge for the Region.

- **Regional Collaboration** – During several of the workshops and meetings, participants pushed for more regional collaboration among agencies as a method for resolving water-related issues. Some participants said that agencies could work together in coordinating mutually beneficial projects to help offset the associated costs of the projects. In addition, some participants indicated that regional collaboration among agencies and communities could more significantly manage the demand on water resources.

B. Priority Water Topics Identified For The Mojave IRWM Plan Update

In the small group discussion sessions held during the meetings and workshops, participants reviewed and prioritized a list of key water resource related topics for the Mojave IRWM Plan. The following chart indicates the regional priority ranking and overall number of votes for each water-related topic per meeting and workshop. The top three priority water-related topics that workshop and meeting participants across the Mojave Region ranked as most relevant in their community were 1) Water Supply and Conservation; 2) Water Quality; and 3) Cost of Water Resources.

Regional Priority Ranking of Water-Related Topics in the Mojave Integrated Regional Water Management Plan Update

| Water-Related Topics | Lucerne Valley | Barstow | Victorville | Newberry Springs | Piñon Hills/Phelan | Helendale | Yucca Valley | Total Votes | % of All Votes |
|--|----------------|---------|-------------|------------------|--------------------|-----------|--------------|-------------|----------------|
| Water Supply and Conservation | 22 | 13 | 5 | 20 | 6 | 10 | 20 | 96 | 26% |
| Water Quality | 16 | 13 | 3 | 5 | 6 | 6 | 16 | 65 | 18% |
| Cost of Water Resources | 15 | 14 | 4 | 9 | | 3 | 14 | 59 | 16% |
| Water Rights | 19 | 2 | | 15 | 1 | 2 | 2 | 41 | 11% |
| Stormwater and Flood Management | 18 | | 1 | 4 | 6 | 1 | 9 | 39 | 11% |
| Growth and Land Use | 7 | | 4 | 3 | 6 | | 7 | 27 | 7% |
| Natural Resource Management (habitat protection) | 1 | | | 4 | 3 | 1 | 3 | 12 | 3% |
| *Education | | | 1 | | | | 7 | 8 | 2% |
| Climate Change | 1 | 1 | | 1 | | 1 | 3 | 7 | 2% |
| *Recycled Water | | | | | | 5 | | 5 | 1% |
| *Hauled Water Issues | 3 | | | | | | | 3 | 1% |
| *Gray Water Issues | 1 | | | | | | | 1 | 0.2% |
| *Grant Writing and Tracking – Connect the needs with the funding sources | | | | | | | | | |

*NOTE: This item was proposed by meeting and workshop participants as an additional important topic that needed to be addressed.

Draft Section 3 Water Supply and Demand

Mojave Integrated Regional Water Management Plan

The Draft Section 3 Water Supply and Demand is available for public review and comment (copies are available on the Mojave IRWM Plan website at: <http://www.mywaterplan.com/irwm-plan-documents.html>). Subsections included are:

- Water Supply and Demand Projections through 2035
- Water Quality Issues in Region
 - Surface Water
 - Potable Water
 - Wastewater and Recycled Water
- Flood Management
- Future Climate Vulnerability Section

Highlights and changes since the 2004 Regional Water Management Plan was completed by MWA include:

- Water Supply sources have been updated.
- Water Demands have been updated assuming water conservation and State water conservation requirements of Senate Bill 7 of Special Extended Session 7 (SBX7-7) to increase water use efficiency by calling for progress towards a 20 percent reduction in per capita water use by 2020.
- Water Quality sources: Lahontan and Colorado River Regional Boards, California Department of Public Health and Mojave Water Agency and United States Geologic Survey monitoring networks.
- Flood Management – Still need more resources for stormwater and flood management integration.
- Climate Section per DWR Guidelines – received US Bureau of Reclamation Draft Reports for 2 of 3 required tasks for section. Still waiting on for the Greenhouse Gas Emissions (GHGE) inventory of the Mojave Watershed's water sector.

Final Draft Mojave IRWM Plan Objectives¹

Mojave Integrated Regional Water Management Plan

1. (H, H) (By stakeholder vote) Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond.
 - a. Measured by forecasted average annual demand (adjusted by expected levels of conservation) at different times through the planning period compared with forecasted average annual available water supplies at different times through planning period.
2. (H, M) (By stakeholder vote) Continue improving regional water use efficiency ~~toward demand hardening, exceeding State conservation goals~~ by implementing a portfolio of conservation actions that are regionally cost-effective.
 - a. Continue reducing urban per-capita water use ~~toward demand hardening (demand hardening set by the lowest per capita water using areas in the region)~~ through all available actions that are regionally cost-effective. Measured by annual reductions in time series of annual per-capita water use.
 - b. Increase agricultural water use efficiency by establishing moving towards best efficient water management practices for sustainable agriculture. Measured by the number of farms switching to utilizing viable best management practices, including irrigation practices, equipment, and crop types.
 - c. Increase industrial water use efficiency by establishing moving towards applicable best management practices ~~for sustainable industry.~~ Measured by the number of industries using different practices, equipment, crop types utilizing viable best water conserving management practices, equipment and technologies.
3. (H, H) (By stakeholder vote) Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
 - a. Measured by long-term stability of groundwater levels in the regional monitoring well network and mass water balance calculations by subarea.
4. (H, M) (By Project Team Recommendation – stakeholder vote was M, M) Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons.

¹ See Handout 2 from June 6, 2013 IRWM Plan Stakeholder (TAC) Meeting for discussion on objectives ranked by importance and then urgency. When reporting priority, Importance is listed first, Urgency second, like (X,Y) pairs to match figure in Handout 2 from June 6.

- a. Measured by comparing banked or reserve water supplies with water needs to meet a 6-year drought or 3-year outage on the SWP.
5. (M, M) (By stakeholder vote) Optimize the use of the ~~region's~~ Region's water related assets to maximize available ~~State Water Project~~ supplies to meet projected demands while mitigating against ~~related risks associated with an increasingly unreliable SWP supply.~~ Assets ~~Water related assets~~ to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities ~~within the State Water Project Contract~~, available physical infrastructure, and management policies.
 - a. ~~Measured by the region's ability/capacity to utilize available SWP supplies.~~
 - b. ~~Measured by comparing banked or reserve water supplies with water needs to meet a 6-year drought or 3-year outage on the SWP.~~
 - a. Measured by ~~the Region's ability/capacity to utilize available imported supplies~~ available SWP supplies stored, used locally, transferred or exchanged vs. available SWP supplies unused or lost.
 6. (L, L) (By stakeholder vote) Prevent land subsidence throughout the Region.
 - a. Measured by monitoring land surface changes, every five years, in areas of known historic subsidence.
 7. (H, H) (By stakeholder vote) Provide ~~tools support and assistance~~ to disadvantaged communities ~~to and help~~ facilitate projects and programs that benefit those communities.
 - a. Measured by the ~~implementation number~~ of projects and programs implemented on an ongoing basis that benefit disadvantaged communities.
 8. (H, H) (Recommended by Project Team – no stakeholder vote was taken) Protect and restore sensitive environmental areas in coordination with ~~integrated~~ land use and conservation plans to support stewardship and awareness of environmental resources.
 - a. Measured by acres of sensitive environmental/habitat areas restored or new sensitive environmental/habitat areas set aside for protection.
 - b. Measured by the number of new recreational or educational projects that are connected to environmental stewardship programs.
 - ~~b.c.~~ Measured by protection and restoration of riparian habitat areas as identified in Exhibit H of the Mojave Basin Area Judgment.
 9. (H, H) (By stakeholder vote) Improve stormwater management throughout the Plan area.
 - a. ~~Increased coordination between public and private project development process to ensure watershed priorities and stakeholder priorities are considered.~~

- ~~b. Preserve floodplain functions through stricter management of development in floodplains~~
~~– limit project construction in areas subject to flooding.~~
 - a. Increase coordination between agencies to establish programs and projects that have multiple benefits / multiple uses. Measured by the number of new multi-benefit / multi-use projects or programs established.
 - b. Coordination between multiple agencies to reduce risk of flood damage through proactive operations along the flood prone areas. Measured by reduction in monetary impact of flood damage compared to damage caused by historical floods of similar magnitude.
- 10. (H, M) (Recommended by Project Team – no stakeholder vote taken) Stakeholders work collaboratively with entities that have a stake in water quality to ensure the preservation of Preserve water quality as it relates to local beneficial uses of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
 - a. Measured by policies and programs culminating from regional collaboration of multiple stakeholders and result resulting in sound public policies that protect water quality.
 - a-b. Regular summaries of key water quality constituents for various water supplies as they relate to the local beneficial uses.
- ~~11. Utilize available data and information to assess potential impacts to the Region from climate change and to make planning decisions regarding resource management strategies.~~
 - ~~a. Measured by tracking information as it evolves and repeat process every 10 years for inclusion into management action considerations~~
- ~~12.11.~~ (H, M) (By stakeholder vote) Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
 - a. Obtain outside financial assistance for small water systems, measured by the number of small systems that acquired outside funding and the amount of funding acquired.
 - b. Obtain outside financial assistance for other projects and programs, measured by the amount of outside funds acquired.
- ~~13.12.~~ (H, M) (Recommended by Project Team – no stakeholder vote taken) Increase educational opportunities to improve Improve public awareness of water supply, conservation, and water quality issues, and environmental stewardship challenges and opportunities throughout the planning horizon.
 - a. Measured by the results of ~~an annual survey~~ regular surveys that gauge awareness regarding these topics.
 - b. Measured by documented outreach to all stakeholder types as listed in the IRWM guidelines.

- ~~b.c.~~ Measured by the number of new recreational or educational projects that are connected with environmental stewardship efforts.
- ~~14.~~13. (H, M) (Recommended by Project Team – no stakeholder vote was taken) Identify and establish reliable funding sources to maintain, modernize and improve ~~or replace aging infrastructure systems over time~~ water infrastructure to ensure a high quality, resilient and reliable water supply.
- ~~a.~~ Measured by the number of previously unfunded infrastructure maintenance needs acquiring sustainable funding sources.
- a. Measured regularly by the estimated cost of deferred maintenance.
- b. Measured by the number of water systems ~~wh~~that improve operations to withstand or reduce the number of system failures and improve system efficiencies.
- ~~15.~~ Integrate recreation and public education opportunities with environmental stewardship efforts.
- ~~a.~~ Measured by the number of new recreational or educational projects that are connected to environmental stewardship programs.
- ~~16.~~14. (H, M) (By stakeholder vote) Increase the use of recycled water in the Rregion while maintaining compliance with the Mojave Basin Area Judgment as applicable.
- a. Measured by changes in the volume of recycled water being used in the Rregion.

Prioritized Final Draft Mojave IRWM Plan Objectives

Mojave Integrated Regional Water Management Plan

Tier 1 Priority Objectives (includes all objectives in the High Importance/High Urgency Quadrant)

1. (H, H) (By stakeholder vote) Balance average annual future water demands with available future supplies to ensure sustainability throughout the Region between now and the 2035 planning horizon and beyond.
 - a. Measured by forecasted average annual demand (adjusted by expected levels of conservation) at different times through the planning period compared with forecasted average annual available water supplies at different times through planning period.
3. (H, H) (By stakeholder vote) Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
 - a. Measured by long-term stability of groundwater levels in the regional monitoring well network and mass water balance calculations by subarea.
7. (H, H) (By stakeholder vote) Provide support and assistance to disadvantaged communities and help facilitate projects and programs that benefit those communities.
 - a. Measured by the number of projects and programs implemented on an ongoing basis that benefit disadvantaged communities.
8. (H, H) (Recommended by Project Team – no stakeholder vote was taken) Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
 - a. Measured by acres of sensitive environmental/habitat areas restored or new sensitive environmental/habitat areas set aside for protection.
 - b. Measured by the number of new recreational or educational projects that are connected to environmental stewardship programs.
 - c. Measured by protection and restoration of riparian habitat areas as identified in Exhibit H of the Mojave Basin Area Judgment.
9. (H, H) (By stakeholder vote) Improve stormwater management throughout the Plan area.
 - a. Increase coordination between agencies to establish programs and projects that have multiple benefits / multiple uses. Measured by the number of new multi-benefit / multi-use projects or programs established.

- b. Coordination between multiple agencies to reduce risk of flood damage through proactive operations along the flood prone areas. Measured by reduction in monetary impact of flood damage compared to damage caused by historical floods of similar magnitude.

Tier 2 Priority Objectives (includes all objectives in the High Importance/Medium Urgency Quadrant)

- 2. (H, M) (By stakeholder vote) Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
 - a. Continue reducing urban per-capita water use through all available actions that are regionally cost-effective. Measured by time series of annual per-capita water use.
 - b. Increase agricultural water use efficiency by moving towards efficient water management practices for sustainable agriculture. Measured by the number of farms utilizing viable best management practices, including irrigation practices, equipment, and crop types.
 - c. Increase industrial water use efficiency by moving towards applicable best management practices. Measured by the number of industries utilizing viable best water conserving management practices, equipment and technologies.
- 4. (H, M) (By Project Team Recommendation – stakeholder vote was M, M) Address the State policy goal of reducing reliance on the Delta by meeting water demands with alternative sources of supply during times when State Water Project (SWP) supplies are reduced or unavailable due to droughts, outages, environmental and regulatory restrictions, or other reasons.
 - a. Measured by comparing banked or reserve water supplies with water needs to meet a 6-year drought or 3-year outage on the SWP.
- 10. (H, M) (Recommended by Project Team – no stakeholder vote taken) Preserve water quality as it relates to local beneficial uses of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
 - a. Measured by policies and programs culminating from regional collaboration of multiple stakeholders resulting in sound public policies that protect water quality.
 - b. Regular summaries of key water quality constituents for various water supplies as they relate to the local beneficial uses.
- 11. (H, M) (By stakeholder vote) Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
 - a. Obtain outside financial assistance for small water systems, measured by the number of small systems that acquired outside funding and the amount of funding acquired.
 - b. Obtain outside financial assistance for other projects and programs, measured by the amount of outside funds acquired.

12. (H, M) (Recommended by Project Team – no stakeholder vote taken) Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
 - a. Measured by the results of regular surveys that gauge awareness regarding these topics.
 - b. Measured by documented outreach to all stakeholder types as listed in the IRWM guidelines.
 - c. Measured by the number of new recreational or educational projects that are connected with environmental stewardship efforts.

13. (H, M) (Recommended by Project Team – no stakeholder vote was taken) Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
 - a. Measured regularly by the estimated cost of deferred maintenance.
 - b. Measured by the number of water systems that improve operations to withstand or reduce the number of system failures and improve system efficiencies.

14. (H, M) (By stakeholder vote) Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment as applicable.
 - a. Measured by changes in the volume of recycled water being used in the Region.

Tier 3 Priority Objectives (includes all objectives in the Medium Importance/Medium Urgency Quadrant)

5. (M, M) (By stakeholder vote) Optimize the use of the Region’s water related assets to maximize available supplies to meet projected demands while mitigating against risks. Water related assets to be optimized include financial resources, groundwater storage programs, available imported water supplies, transfer and exchange opportunities, available physical infrastructure, and management policies.
 - a. Measured by available SWP supplies stored, used locally, transferred or exchanged vs. available SWP supplies unused or lost).

Tier 4 Priority Objectives (includes all objectives in the Low Importance/Low Urgency Quadrant)

6. (L, L) (By stakeholder vote) Prevent land subsidence throughout the Region.
 - a. Measured by monitoring land surface changes, every five years, in areas of known historic subsidence.

Summary of Project Selection and Prioritization Process

Mojave Integrated Regional Water Management Plan

The process used to identify projects to include in the Mojave IRWM Plan includes several steps:

1. Work with stakeholders throughout the Region to identify challenges and opportunities.
2. Based on the challenges and opportunities, develop Plan Objectives that identify the desired integrated water management outcomes for the Region.
3. Prioritize the Plan Objectives according to importance and urgency.
4. Describe water management strategies and desired integration.
5. Describe desired types of project proposals to be considered for inclusion in the Plan.
6. Issue a Call for Projects on July 1, 2013.
7. Project Proponents complete and submit Project Identification Form by August 1, 2013.
8. Project Team reviews proposed projects and makes recommendations.
 - a. Project Team compiles a list of submitted projects.
 - b. Project Team reviews proposed projects based on information provided by proponents according to the screening criteria.
 - c. Project Team identifies any proposed projects that do not meet the screening thresholds.
 - d. Project Team ranks the selected projects according to the priorities of the objectives they contribute toward and the other factors listed below.
9. Project Team presents initial recommendations based on results of screening, selection, and prioritization of projects during Stakeholder Meeting in August 2013.
10. Provide project proponents and other stakeholders opportunities for review, clarification, and refinement of proposed projects.
11. Project Team reviews comments, clarifications, and refinements of proposed projects and adjusts recommendations for project inclusion and prioritization as needed. Present recommendations and discuss during Stakeholder Meeting in October 2013.

Screening Criteria

In order to be included in the Mojave IRWM Plan, the proposed project needs to:

1. Contribute toward meeting one or more Plan objectives
2. Appear to be technically feasible
3. Appear to be economically feasible
4. Not cause significant unmitigated negative impacts
5. Have a committed project proponent that has the capacity to implement the project

Prioritization Scheme

The Plan objectives and projects will be ranked according to their *importance* and *urgency* and then grouped into up to four tiers of priority as shown in Figure 1. The “importance” assigned to each objective (or project) reflects the relative significance or consequence of satisfying this objective (or project) as compared to other objectives (or projects) within the Mojave Region. The “urgency” assigned to each objective (or project) reflects the relative degree to which this objective (or project) warrants speedy attention or action as compared to other objectives (or projects).

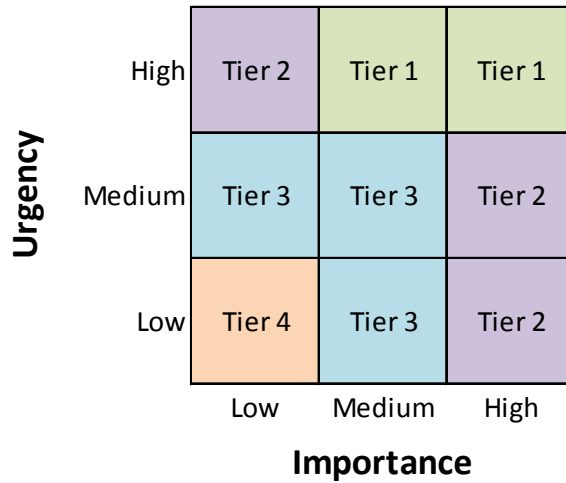


Figure 1 – Prioritization Scheme

Project Review and Prioritization

The projects that pass the screening criteria will be reviewed according to the following factors based on information provided by the project proponents:

1. How the project contributes to the Mojave IRWM Plan Objectives (projects with larger contributions and that address multiple objectives are preferred)
2. How the project is related to resource management strategies (projects that diversify the water management portfolio are preferred)
3. Technical feasibility of the project (projects with more definitive demonstration of technical feasibility are preferred)
4. Specific benefits to critical DAC water issues (projects that help address critical water supply and water quality needs of DACs are encouraged)
5. Specific benefits to critical water issues for Native American tribal communities (projects that help address critical water supply and water quality needs of Native American tribal communities are encouraged)
6. Environmental Justice Considerations (projects that can reduce inequitable distribution of environmental burdens (i.e. pollution, industrial facilities) and access to environmental goods (i.e. clean water and air, parks, recreation, nutritious foods, etc.) are preferred)
7. Project Costs and Financing (projects with well-defined costs and identified funding sources are preferred)
8. Economic Feasibility (projects shown to be either cost-effective or to have a positive benefit-cost ratio are preferred)
9. Project Status (readiness to proceed may influence the priority given)
10. Strategic considerations for IRWM Plan implementation (projects with clear analyses related to the proposed implementation approach and Plan objectives are preferred)
11. Contribution of the project in adapting to the effects of climate change (projects that contribute to adaptations that can lessen the negative impacts of climate change are encouraged)
12. Contribution of the project in reducing GHG emissions as compared to project alternatives (projects that help reduce the GHG emissions in the Region are preferred)

The projects that pass the screening criteria and are reviewed will be assigned a rating for importance and urgency and then placed into up to four tiers of projects as shown in Figure 1. The projects will be assigned a rating for importance and urgency after considering the priority of the objectives that they contribute to and the other factors listed above.

These recommendations for inclusion and priority will be discussed with the Stakeholders to reach broad agreement.

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Project Title)

| Project No. | Project Title | Lead Agency/Organization | Planned Project/Program Types and Activities | Comments/Review Questions | Project Submittal Acceptable (Y/N) or Need more Info? | Project Type |
|-------------|--|--------------------------------------|--|---|--|-----------------------|
| 1 | Agricultural Water Conservation Program | Mojave Water Agency | (Baja Sustainability Initiative #3)The general project concept is an agricultural water conservation program that will help farmers use water more efficiently and alleviate groundwater level declines (particularly in the Baja subarea). | Agricultural Conservation Programs from 2004 RWMP | Y | Implementable Program |
| 2 | Allocation of water ? | Submitted by Dean VanBasetlaar | When orchards are young they do not require as much water as they will as they grow and start to produce. During the 5 year period (86-90) when water allocation was being determined, it was not taken into consideration the water needed when the trees matured. Should of considered the studies done at that time. | | No objectives checked. Project appears to be related to overall challenges. | Conceptual |
| 3 | Ames/Reche Groundwater Storage and Recovery Program - Phase II Expansion | Mojave Water Agency | Expand the Ames/Reche Recharge Facility to accommodate the maximum potential delivery capacity of 3,000 AF/Yr. (currently permitted for 1,500 AF/Yr.). Pre-planning for expansion could include percolation tests to determine necessity for expansion of the existing BLM Lease, engineering design to minimize footprint and optimize percolation potential, CEQA and NEPA for Phase II. | | Y | Conceptual |
| 4 | Antelope Valley Wash Detention/Recharge Ponds | City of Hesperia/Mojave Water Agency | The Ponds would provide groundwater recharge upgradient from Hesperia Water District wells. The Hesperia Master Plan of Drainage identifies a 65 acre site for a storm water detention basin in the Antelope Valley Wash south of the newly constructed Rancho Road. In addition to storm water detention, the site would be able to accommodate groundwater recharge./The SBCFCD has stormwater detention basins planned on Antelope Wash. These basin can also be conjunctively used for groundwater recharge. | 2 applications - one from MWA and one from Hesperia - also Antelope Valley Wash Recharge Ponds from 2004 RWMP | Y | Conceptual Design |
| 5 | Aquaponics Demonstration Gardens | Mojave Water Agency | Construct two demonstration aquaponics sites to prove technology as a water efficient and profitable alternative to traditional agriculture and gardening. | | Y | Design/Implementable |
| 6 | Arsenic and Metering Project | Bar-Len Mutual Water Company | The project aims to address arsenic violations from the S.B. County Health Department, and to install water meters at residences to encourage water conservation and a usage-based billing formula. The water company has 45 customers. | | Y for now, please submit backup reports from DPH to give detail on well locations and cost estimates. Need statewide priorities, program preferences or RMS. | Conceptual |
| 7 | Assistance Program for Small Drinking Water Systems | Mojave Water Agency | Program would identify water supply, water quality and infrastructure needs of small drinking water systems within the IRWM Region and help connect them to available funding by identifying funding sources, assisting with grant applications and paperwork, etc. Sources of funding could include State and Federal funds from a variety of programs designed to help small systems. | | Y | Conceptual |
| 8 | Baja Major Storm Diversion Network | Mojave Water Agency | (Baja Sustainability Initiative #4) A major storm event diversion network to capture storm flows and transfer them to retention ponds that could then be disbursed on the south side of the valley to help facilitate recharge and recovery in areas that are unable to receive any natural benefit from storm flows that run down the river. A reduction in the velocity of the storm flows could also greatly assist in the prevention of scouring Cady Riparian Habitat. | combine with Project above (#9) - also Baja Storm Flow Retention - 2004 RWMP | N, same project as submitted by Baja sub-advisory (#9) but both applications each have objectives prioritized differently. Please coordinate and re-submit one application with the same prioritized objectives. Suggest promote stormwater obj. | Conceptual |

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|-------------|---|---|---|---|--|----------------------------------|
| 9 | Baja Storm Water Diversion and Retention Project | Baja Sub-Advisory Committee | Stormwater retention basin to provide temporary storage for runoff generated by large storm events. The development of irrigation channels to divert a pre-determined quantity of stormwater with weirs or other flow control devices to injection wells or percolation ponds for groundwater recharge. | combine with MWA project above (#8) - Baja Storm Flow Retention – 2004 RWMP | N, same project as submitted by MWA project (#8) but both applications each have objectives prioritized differently. Please coordinate and re-submit one application with the same prioritized objectives. | Conceptual |
| 10 | Baja Subarea Base Annual Production Right (BAP) Acquisition Program | Baja Sub-Advisory Committee | Voluntary program funded entirely from local, state, federal and/or water fee dollars that purchases base annual production rights (BAP) from stipulated parties under the Mojave Basin Area Judgment. All BAP will be purchased by the Mojave Water Agency and be permanently retired. Each producer's percentage share of BAP will determine the eligible amount of BAP that can be sold to MWA. | | Need more detail on how project would work. | Conceptual |
| 11 | Baja Water Budget | Mojave Water Agency, Military Bases, Fish and Wildlife, and | To have a viable number for what is sustainable for the Baja area. | Submitted by private residents (Jim and Ellen Johnson) | Need statewide priorities. General project description isn't clear. | Conceptual |
| 12 | Cadiz Valley Water Conservation, Recovery, and Storage Project | Cadiz Inc. | The project will implement a comprehensive, long-term groundwater management program for the groundwater basin underlying the Cadiz property. The project would produce 50,000 acre-feet per year of conserved water. | | Not clear what the project is for the IRWM Plan. | Implementable |
| 13 | Camp Cady: Tamarisk removal and riparian restoration | Mojave Desert Resource Conservation | Work with Quail Forever (Camp Cady manager) and DFW - tamarisk removal - provide areas of surface water - plant natives - etc. Use contractor for tamarisk if funding available. Possible new well at Camp. | | Y | Implementable Project |
| 14 | Cedar Street Detention/Recharge Basin | City of Hesperia/Mojave Water Agency | The Basin would provide groundwater recharge upgradient from Hesperia Water District wells. The Hesperia Master Plan of Drainage identifies a 120 acre site for a storm water detention basin at the east end of Cedar Street and southwesterly of the California Aqueduct. In addition to storm water detention, the site would be able to accommodate groundwater recharge./The SBCFCD has stormwater detention basins planned in Cedar Street. These basin can also be conjunctively used for groundwater recharge. | 2 applications - one from MWA and one from Hesperia - also Cedar Street Detention Basin - 2004 RWMP | Y | Conceptual Design |
| 15 | Center Water Company Wells, Infrastructure & Storage Project | Center Water Company | The company's system is divided into two parts as previously described. The west side currently has a dead end mainline coming from the leased wells on the east side of the flood channel to Highland Road, south on Highland to Furst St then west on Furst to a dead end. This side of the system would include a new well on Highway 18 then create a system loop from the new well south on Red Butte Ave to Furst St then east on Furst to tie into the existing dead end line. Also, from the new well site a new pipeline would run east along the highway to Highland Road, then north on Highland to point of connection with the existing mainline. The company proposes to use the two 10,000 gallon storage tanks at this new well site. | | Y | Conceptual Implementable Program |
| 16 | Channel Dredging and Vegetation Removal | Baja Sub-Advisory Committee | The Mojave River is choked with vegetation causing channel capacities to be exceeded during major flood events. Removing the vegetation and/or excavating the channel would increase the carrying capacity and decrease the flood risk for select areas. By allowing flood water to flow without restrictions, areas downstream might have a higher probability to be naturally recharged during small and large storm events. | | Y | Conceptual |
| 17 | City of Victorville VSD 4 Sewer Lift Station | City of Victorville | COV VSD 4 Lift Station will divert the remainder of the Federal Bureau of Prisons wastewater flow to the City's WWTP and blend the TDS from the WWTP's industrial wastewater flow down to a limit that will allow the sale of Title 22 recycled water for cooling purposes to the High Desert Power Project and a future second power plant in the area. | | Y | Design |
| 18 | Commercial/Industrial/Multi-Family Cash for Grass Program | Alliance for Water Awareness and Conservation | This project would expand the scope of turf removal projects in the Mojave region. Currently, there is a \$10,000 rebate cap for commercial, industrial, and multi-family units. This has discouraged larger scale landscape conservation projects. | | Need analysis to show how cash for grass saves water. See comment for Project #78. | Implementable Project |

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| 19 | Conceptual Planning for Hinkley's Community Drinking Water System | Mojave Water Agency/Hinkley Partnership for Healthy Living | Evaluate the concept of a community water system that draws water from a source of water that is not affected by the chromium plume. The water source must not be affected by plume expansion, remedial byproducts, or groundwater drawdown for the lifetime of the source and must be able to meet the water quality requirements. Water systems options, estimated costs and potential financing mechanisms will be included as part of the project. At least one community meeting will be conducted to present project results and to raise community awareness of a potential future water system. | Hinkley Water Supply Augmentation by SCWC - 2004 RWMP | Y | Conceptual |
| 20 | Continual rampdowns in the Baja Sub Basin | Watermaster and all Stakeholders | Eliminate carry over across the board and stop the continual rampdowns in Baja | Submitted by private residents (Jim and Ellen Johnson) | N, general project description may need additional info. | Conceptual |
| 21 | Dairy Nitrate Reduction | Mojave Desert Resource Conservation Dist.(MDRCD) | Obtain funding – to be matched with NRCS/USDA funding – a possible 25% contribution – to: 1) Help dairies pay to haul manure off-site – likely to fields distant from shallow groundwater and surface waters. 2) Help fund infrastructure designed to apply waste pond water directly to adjacent fields via irrigation systems, etc. – alleviating direct percolation to groundwater. Requires manure “manifest” to track movement and use of nutrients. BMP to effectively use nutrients – applied at agronomic rates. | | Y, consider evaluating project for Tier 1 objectives to improve ranking. Consider DACs. | Implementable – in association with the IRWMP Salt Mgt. Plan - with Lahontan concurrence |
| 22 | Deep Creek Off-River Recharge And Storage Basins | Mojave Water Agency | Off River recharge and storage basins on the Deep Creek Properties | Same project as the Recharge Facilities South of Apple Valley from the 2004 RWMP | no RMS | Conceptual Design |
| 23 | Desert Demonstration Garden | Newberry Community Services District | Construct a demonstration garden and education outreach program for Baja Subarea | | Y for now, but please submit planned site for demo garden. | Conceptual |
| 24 | Desert Wash Protection -Watershed Enhancement | Submitted by Jenny Wilder, Apple Valley resident | Protect desert washes by acquisition if necessary and restore to native function (allow use for foot traffic only) Encourage developed areas to enhance sponge-like native desert landscaping | Submitted by Jenny Wilder, Apple Valley resident | N, project unclear | Conceptual |
| 25 | Direct Delivery of State Project Water to Agricultural Uses (Baja Sustainability Initiative #1) | Mojave Water Agency | Raw water distribution network connecting to existing Mojave River Pipeline in Newberry springs and extending to agricultural water users in the Baja Subarea/Newberry Springs area. Would provide for the direct delivery of State Water Project (SWP) water to end agricultural users and allow for reduction of groundwater pumping. | | Project description needs additional explanation. | Conceptual |
| 26 | Domestic Water Well System Assistance Program | Baja Sub-Advisory Committee | Financial assistance program to provide low interest loans and grants to help low income individuals finance the costs for construction, refurbishment or service of their individual household water wells. | | Y | Conceptual |
| 27 | Dry Well Installation Program, Town wide, Town of Apple Valley | Town of Apple Valley | If awarded funding, the project would move directly forward with preparation of bid packages to advertise and award a contract for the next phase of program implementation. The contract will construct as many dry well structures as funding will allow. To date approximately 77 shallow dry well structures have been constructed in Apple Valley and are successfully alleviating | | Y | Implementation of Program, New Phase of ongoing |
| 28 | Fair Taxation of Water Rights Acquired Outside the Original Adjudication | Submitted by Pauline Hass | Have the State Board of Equalization rewrite and lower the taxation of water rights acquired outside the original adjudication. | | N, need more info. Objectives page missing from project submittal. Project appears to be related to overall challenges or a direct inquiry to MWA. | Conceptual |

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| 29 | Forks Dam Storm Water Detention | Mojave Water Agency | Although extremely variable on average 41,000 acre feet of storm water flow out of Afton Canyon every 6 years. Based on current State Water Project delivery costs this equates to approximately \$16 million worth of "lost" water. The project proposes that appropriate infrastructure could capture a significant portion of this water and allow it to recharge area groundwater systems. This could be accomplished through various diversion structures along the river or make use of the existing Forks Dam to impound storm water. Impounded storm water could be slowly released from the Forks Dam at a rate that would allow percolation rather than run-off through Afton Canyon. | | Y | Conceptual |
| 30 | Groundwater Education Program | Baja Sub-Advisory Committee | To provide guidance and further knowledge about water through education and outreach. To develop a consumer guide on groundwater, well construction, etc. in the Mojave Basin. (To provide literature about groundwater, wells, well construction, water systems, maintenance, record keeping, conservation and a list of licensed well contractors so that consumers can make an informed decisions). | | N, project need isn't clear. Consider integration with other education projects? | Conceptual |
| 31 | Helendale CSD - WWTP Effluent Distribution System | Helendale Community Services District | Design and construction of "Purple Pipe" pipeline system to convey effluent water to nearby Golf Course Irrigation system that currently uses pumped groundwater. | | Y | Conceptual |
| 32 | Helendale CSD Tertiary Treatment Upgrade | Helendale Community Services District | The District has completed a Recycled Water Facilities Plan which has identified a preferred treatment alternative and cost scenario estimated at \$2,670,000 for plant upgrades. The project is designed to produce recycled tertiary water for use within the District service area by improving the WWTP processes to provide unrestricted Title 22 recycled water. The delivery phase is two-stage with minor delivery required to move Title 22 water across the street to Helendale Community Park for landscape irrigation, and the second stage for delivery of Title 22 water to the Silver Lakes Association for golf course irrigation which would require an extensive pump station and force main. The next phase is recycled water storage required to store water during the wet months for use in the dry months and for use by the onsite farming operation. However, this stage of tertiary treatment can be reduced by the implementation of full phase 2 providing recycled water to the SLA golf course. | | Y | Design, Construction |
| 33 | High Desert Demonstration Gardens | Mojave Water Agency | Phase I: At Mojave Water Agency create a regional class garden destination. Phase II: With partners develop a series of demonstration gardens regionally. | | Y | Conceptual |
| 34 | Hydroelectric Facility at Deep Creek to generate power for R3 ground water wells | Mojave Water Agency | The Deep Creek Outlet to the Mojave River can generate electrical power for use by the Agency to power the R3 groundwater wells. Two options are possible: 1) construct Groundwater wells at Deep Creek FCF and extend the R3 pipeline to these wells. Our run Conduit and conductors from Deep Creek to the R3 Groundwater wells. | | Need program preferences or RMS. | Conceptual |
| 35 | Indian Cove Stormwater Capture and Recharge Project | Twentynine Palms Water District/Joshua Basin Water District | The Department of Water Resources has identified the safe yield for the Indian Cove groundwater basin, limiting production to 1,500 acre-feet per year to avoid overdraft. This project could mitigate past over-drafting and prevent future declines in water levels within this shared basin. | | Y | Conceptual - |
| 36 | Infrastructure Improvements Projects | Joshua Basin Water District | Design and Construction of infrastructure replacements to improve efficiency and increase conservation of resources. Particular emphasis on water booster station improvement to reduce energy impacts (i.e. reduce in-rush impacts on pump start-up and increase efficiency of equipment. | | Y | Planning, design and construction |
| 37 | Interconnection with Apple Valley Ranchos Water Company | Golden State Water Co - Apple Vly South | Install an interconnection with Apple Valley Ranchos Water Company to provide additional supply. The intended purpose is to participate in the Mojave Water Agency's Regional Recharge and Recovery Project (R-Cubed). The project includes study, design and facilities. | | Need statewide priorities, program preferences or RMS. | Study, design, facilities |
| 38 | JBWD Central Wastewater Treatment Plant Project | Joshua Basin Water District | Design and construction of required central WWTP to include plant siting, WWTP design, trunk sewer alignment and design, environmental compliance, permitting and construction. Central WWTP provides long-term control of nitrate contamination in groundwater basin, as well as other contaminants identified in past studies. | | Y | design and construction |

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| 39 | JBWD CUWCC Compliance Project - Leak Detection | Joshua Basin Water District | System-wide leak detection program to identify and eliminate potential water system leaks, thereby reducing water loss and conserving the regions available water supplies. | District also submitted a form for "CUWCC Projects;" seems to include this project. | Integrate with Project No. 99? | Planning, Design and Implementation of District-wide Leak Detection Program per CUWCC policies. |
| 40 | JBWD Graywater & Rainwater Harvesting Project | Joshua Basin Water District | Proposed program will develop standards and facilities for private property capture of graywater and rainwater to supplement local water resources. Project complements the District's new imported water recharge project, and educates property owners in how they can contribute to increasing local water supplies and conserve groundwater. | | N, project description isn't clear. Needs detail about implementation and how much water would be saved. | Conceptual and Implementation Project |
| 41 | JBWD Stormwater Recovery Project | Joshua Basin Water District | Proposed facilities will capture and divert stormwater from local arroyos to the District's newly constructed recharge basins to increase groundwater basin recharge and minimize downstream impacts, and increase graywater capture. Both options will decrease need for imported water supplies. | | N, project description isn't clear. Have studies been completed? | Design, Environmental and Construction |
| 42 | Johnson Valley Pressurized Water System | BDVWA | Approximately 1/3rd of the Agency's service area is without a pressurized water supply. Residents in these areas rely on hauled water (self-haul or commercial delivery). Property owners are now prohibited from building or improving their property using hauled water as the water supply. Project would bring a pressurized water distribution system to the area to improve quality of life, public health and provide for enhanced fire protection. Project should include additional studies for locating water supply wells (building on historical data and the existing conceptual model report) and CEQA/NEPA studies. | | Y | Conceptual |
| 43 | Kane Wash Spreading Basins | MWA | Provide storage of rainfall runoff; reduce overdraft in Baja Subarea. | Submitted by Wayne Snively and Linda Deluca Snively also from 2004 RWMP (Kane Wash Recharge Ponds) | Y | Conceptual |
| 44 | Lucerne Valley Small Water Systems Feasibility Study | LVEDA | Prepare a feasibility study to explore the consolidation of the ten mutual water companies, local school district, CDA 29 & Hitchin Lucerne Inc retail commercial property. This would be a two phase study addressing 1) managerial & resources consolidation & 2) physical infrastructure tie-in consolidation | | Y, integrate with BDVWAs Project #60? | Feasibility Study |
| 45 | Mesa Tank #4, Well #5, Well Generators, Booster Station Generator, etc. | Apple Valley Heights County Water District | District want to investigate avenues for fire protection, adequate water storage, energy costs, power loss protection. | | N, please confirm project is <u>NOT</u> within DAC boundary? | Implementable |
| 46 | Mojave Water Basin Judgment and how it affects Baja | Mojave Water Agency? | To have a fair and equitable solution to all stakeholders in the Baja area. | Submitted by private residents (Jim and Ellen Johnson) | Unclear whether this is actually supported by MWA. See Projects #8 & #9. All of these projects appear similar. | Conceptual |
| 47 | Mojave River Baja Subarea Flood Control Basin Storage | Mojave Water Agency | Construct minimum basins in river bottom. To retain storm flows in river. | Submitted by Wayne Snively and Linda Deluca Snively | Y | Conceptual |
| 48 | Mojave River Dam-Deep Creek Spillway Wetlands restoration | | Mojave River Dam-Deep Creek Spillway Wetlands restoration | Submitted by: Jenny Wilder, Apple Valley resident | Y | Conceptual |

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| 49 | Mojave River walk Trail | City of Victorville | Walking / biking trail along the Mojave River. Combined recreational and public education project involving multiple participating agencies. | | Project unclear | Conceptual |
| 50 | Morongo Basin Cooperative Projects | Joshua Basin Water District | Through a series of regional planning meetings, identify, design and implement a variety of projects with regional benefit, including water system interties, regional education and conservation programs, potential regional water storage & recovery projects, wastewater management strategies, and other identified project for regional benefit. | | N, project description unclear. Need detail for project and how much water would be saved. | Planning, design and construction |
| 51 | Multi-Jurisdictional Technology Integration Project | Joshua Basin Water District | Adjacent agencies have various forms of technologies (GIS, SCADA, CMMS, etc.) that can be standardized and integrated regionally to facilitate better communication and response in the event of a regional emergency. Project increase agency cooperation in normal operations as well by increasing regional communication. | | N, consider integrating with Project #60? | Planning, design and construction |
| 52 | New Well - Kiowa Well No. 1 | Golden State Water Co - Apple Vly South | Permit, design, drill, construct, and equip a municipal water supply well on an existing property in the Apple Valley South system. | | Need statewide priorities, program preferences or RMS. | Implementable Project |
| 53 | Oro Grande Region Flood Control - Riparian Protection | Mojave Desert Resource Conservation Dist.(MDRCD) | Design and reinstate a channel(s) through project area to carry storm flows to reduce flooding of improved parcels | | Y | Design/Implementable |
| 54 | Oro Grande Wash Groundwater Recharge Project | Mojave Water Agency | The Oro Grande Wash Groundwater Recharge Project has an ultimate delivery capacity for approximately 6,000 AF. The trunk facilities are designed to flow the full capacity. The Flow control facility and pipeline into the wash is designed to flow half of the capacity into a joint use San Bernardino County Flood Control Detention/Recharge Basin. The second phase of this project is to construct a second pipeline to the wash and another groundwater recharge area between Amethyst and Bear Valley Road | | Y | Implementable Project |
| 55 | Pipeline | Farmers Home Administration | Mojave River Pipeline project application for financial assistance (see pages 11 & 26) | Submitted by private residents (Jim and Ellen Johnson) | Most information filled out, but project itself is unclear | Conceptual |
| 56 | R3-ASR | Mojave Water Agency | An R3-ASR Project would rely on existing drinking water infrastructure. Many existing ASR projects make use of existing drinking water distribution systems to deliver water for injection. It is anticipated that most future ASR projects in California will maximize use of existing drinking water systems. (Waterboards, 2013). ASR regulations require that injected water be treated to drinking water standards. The R3 project is (already) a potable (drinking) water system, therefore no additional treatment would be required. At most only minor modification to existing well heads (to allow for backward injection flow) may be required. | 2004 RWMP project: Injection Wells in Victorville Area Water Treatment and Blending. | Y | Conceptual Implementable Project |
| 57 | Recycled Water Distribution System | City of Hesperia | Construct a water distribution system for the conveyance of recycled water from the proposed Subregional Treatment Plant in the City of Hesperia. The system would include a non-potable reservoir near the Subregional site, booster pumps, and approximately seven miles of "purple" pipeline to convey recycled water to the Hesperia Golf Club and several other users throughout the City. | | Where would recycled water go without distribution system? Objectives met? | Conceptual Design |
| 58 | Regional Aquifer Recharge Capacity | Mojave Water Agency | MWA has very little off-river aquifer recharge capacity. During wet periods, when SWP water is plentiful and "cheap," the river is likely to be full and unable to accept recharge. MWA needs to be able to accept large a quantity of water in a relatively short (wet) period. This could be accomplished through a variety of infrastructure. Once such infrastructure combination could include surface water impoundment for later distribution to recharge ponds, ASR injection wells, etc... In addition this project could easily be expanded to a water bank with an aqueduct pump-back component for "buy low/sell high" of banked water. | | Y | Conceptual |
| 59 | Regional Flood Control/Flood Management Plan | Mojave Water Agency | Prepare a multi-jurisdictional, regional flood control / flood management plan that integrates flood data and information, coordinates flood control efforts and infrastructure, and seeks to integrate flood management and water supply projects across the Mojave IRWM Region. | | Y | Design; planning document |

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| 60 | Reorganization between two adjacent small water agencies (BDVWA and CSA 70 Zone W-1 [Landers]) | Bighorn-Desert View Water Agency | Initiate reorganization through LAFCO. Provide for LAFCO processing fees, boundary map, preparation of TFM Report (Technical, Financial and Managerial plan for operation of consolidated entities. | Customers of CSA 70/Zone W-1 Landers have inquired about reorganization with BDVWA. LAFCO has granted the SOI, and BDVWA already serves | Y, possibly integrate with Lucerne's Project #44? | Conceptual - Restructuring of agencies |
| 61 | Reverse Osmosis Package Treatment Plant | City of Victorville | A small package reverse osmosis treatment plant with a capacity of approximately 300 gpm would lower the City of Victorville's IWWTP effluent TDS from the current 600 - 800 mg/L down to 450 mg/L. This removal of TDS would increase reuse of the Title 22 recycled water plant effluent. | | Y | Conceptual |
| 62 | San Bernardino County and the Mojave Water Agency water conservation unity | San Bernardino County and MWA | Water conservation ordinance in unincorporated areas of the S.B. County within the MWA Jurisdiction. | Submitted by private residents (Jim and Ellen Johnson) | N, have the two agencies been contacted and are they in support of this project? If not, project will be screened out. | Conceptual |
| 63 | Sheep Creek Wash Storm Water Retention | Phelan Piñon Hills Community Services District | Storm Water Capture | Sheep Creek Recharge Ponds - 2004 RWMP | Y | Conceptual |
| 64 | Silver Lakes Association Stormwater Debris - retention basin, Buckthorn Wash at Mountain Springs Road | Silver Lakes Association | Design and construction of a reinforced concrete storm water debris interceptor where Buckthorn Wash bisects the Silver Lakes Golf Course. Approx size (LWD): 60' x 10' x 6' | | Different than 2004 RMWP project called "In-Lieu Supply to Silver Lakes" - #45. | Conceptual, Design, Construct |
| 65 | State Water Project Utilization & Efficiency Strategy | Mojave Water Agency | Conceptual program with an overall goal to make the best use of the Region's State Water Project resources for maximum benefit to the Region. This would be an ongoing program with many possible elements and would explore a variety of opportunities to achieve the goal, including transfers, exchanges, purchases and sales of SWP water in concert with conjunctive use, groundwater and surface water storage programs, etc. | | Y | Conceptual |
| 66 | State Water Project Water Treatment Plant in conjunction with R3 project | Mojave Water Agency | Construct a Water treatment plant to treat State Water Project Water and deliver directly into the potable R3 water delivery system. This can be done instead of pumping groundwater wells. | 2004 RWMP Project Regional Surface Water Treatment Plant. | N, project form needs completion so benefits of project can be determined. Need objectives checked. | Conceptual |
| 67 | Stipulated Pistachio Orchards | Newberry Springs Hi-Desert Pistachio Association | During the 86-90 period when water allocations were being determined these orchards were using a minimal amount of water. | Submitted by private residents (Jim and Ellen Johnson) | N, project unclear. | Conceptual |
| 68 | Storm Water Retention and Percolation in Hondo Wash | Bighorn Desert View Water Agency and Mojave Water Agency (?) | Retain storm flows in Hondo Wash to enhance percolation potential into Ames groundwater basin (Pipes Subbasin) and provide a mechanism for flood control that does not currently exist. Includes studies to determine quantities of flow that could be captured annually, engineering feasibility for retention and percolation, and environmental impact overview (Initial Study). Water could be retained behind shallow berms or even dam structures along narrow sections of the wash. Water that is successfully captured and percolated minimizes downstream flood damage from scouring and preserves a resource that is otherwise wasted (flows to dry lake bed for evaporation). | | Y | Conceptual |
| 69 | Supervisory Control and Data Acquisition (SCADA) System for Operations and Security | Bighorn-Desert View Water Agency | Design and Install SCADA system to automate the acquisition of data and provide centralized control of well pumps, reservoirs, booster stations, flow meters and security monitoring (intrusion monitoring) of the water system. Project would include evaluation of various SCADA products and communication protocols. | | Y | Conceptual |

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| 70 | Supplemental Water | Watermaster and Fish and Wildlife | Watermaster and Fish and wildlife buy or lease supplemental FPA, BAP water | Submitted by private residents (Jim and Ellen Johnson) | General project description may need additional info. | Conceptual |
| 71 | The Baja Sustainability Initiative | Mojave Water Agency | This initiative addresses a multi-dimensional approach to issues and problems associated with over production of water, loss of storage, sand dune migration, insufficient infrastructure to adequately recharge the most needed areas due to geological issues such as faults and clay layers. Additionally, this initiative also seeks to help stave off loss of riparian habitats due to complex issues regarding plant drought stressing and scouring that occurs from major storm events. | | This initiative has been broken into four different projects within this list. | Conceptual |
| 72 | Twentynine Palms Fluoride Treatment Plant Expansion | Twentynine Palms Water District | The District maintains a fluoride variance from DPH due to naturally occurring, high levels of fluoride in the groundwater, the District's only source of supply. The variance expires in ten years and additional source development is needed to mitigate the water quality changes. In the Mesquite Springs aquifer of the Twentynine Palms Groundwater basin, a second Fluoride Treatment Plant is needed for system redundancy. Project engineering will determine the size and volume of the plant that will produce the most cost-effective results for additional source development within the aquifer, protecting safe yield and preventing drawdown of the Indian Cove and Fortynine Palms aquifers. | | Y | Implementable Project |
| 73 | Twentynine Palms Groundwater Protection Plan Septic System Management Element (SSME) | Twentynine Palms Water District/City of Twentynine Palms | The Regional Water Quality Control Board (Colorado Region) has adopted a septic rule in order to comply with the State Recycled Water Policy. In order to protect the groundwater quality within Twentynine Palms, the Groundwater Protection Plan has identified a Septic System Management Program for monitoring and maintenance of the community's only supply of water, groundwater. Indoor conservation and the reduction of outflow to septic systems will be a significant focus of the septic maintenance and informational outreach goals. | | Y | Implementable Project - Groundwater Protection |
| 74 | Water Infrastructure Restoration Program: Pipeline Installation/Replacement Project | Bighorn-Desert View Water Agency | The existing BDVWA infrastructure has deficiencies which prevent it from meeting fire flow due to heavy reliance on 6-inch water mains and Class B fire hydrants; an inability to refill most reservoirs overnight after a 500-gallons per minute fire; and inefficient operation of two zones (E-2 and E-3) due to the manner in which they were originally constructed. Project would improve pressure, fire protection and public safety. | | Y | Conceptual from BDVWA 2007 Water Master Plan |
| 75 | Water retention in the lower basin | Unknown | Retain storm flows in the river in the lower basin and retain storm flows in Kane wash area (possibly using the pit at Kewitt) | Submitted by private residents (Jim and Ellen Johnson) | Y | Conceptual |
| 76 | Water Transfers | Stipulators in Baja | One of the way to make the physical solution work for the whole of the Mojave Basin | Submitted by private residents (Jim and Ellen Johnson) | General project description may need additional info. | Conceptual |
| 77 | Water Treatment Plant | Golden State Water Co - Barstow | Build water treatment plant in the Barstow area | | Not clear why Project is needed. Need statewide priorities, program preferences or RMS. | study, design facilities. |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Project Title)

| Project No. | Project Title | Lead Agency/Organization | Planned Project/Program Types and Activities | Comments/Review Questions | Project Submittal Acceptable (Y/N) or Need more Info? | Project Type |
|-------------|---|---|--|--|--|---------------------------|
| 78 | Water University | Alliance for Water Awareness and Conservation | The Water University Program is a comprehensive educational and outreach program targeting teachers, real estate professionals, the business community, as well as the general public. This four-component program would offer curriculum for teachers to use in their classrooms for use in science and social studies classes. The second education component targets Fire Departments with education materials and presentations for greater water efficiencies. The third component targets businesses and the real estate community with water conservation information including native landscaping tips, and free water savings devices for the home including sprinkler nozzles, shower heads, etc. The fourth component targets irrigation supervisors and contractors by offering a certificate program in water efficiency. This component would include regular workshops and education materials. The final component is aimed at homeowners to better educate them on water conservation. This component includes an Annual Water Expo with demonstrations, information, workshops, and free giveaways including moisture meters, nozzles, showerheads, etc. | | Need Water Use Efficiency Strategic Plan or Water Conservation Plan data to determine how much water would be saved. | Implementable program |
| 79 | Watershed Educational Awareness Project | MWA | This project uses educational and public outreach materials including yearly surveys to encourage a conservation ethic based on basin-wide understanding of the role and value of water and the effects of personal actions on supply and demand. The project encompasses (but is not limited to) materials, teacher training, classroom visits and student and community activities related to water wise gardening, invasive plants, sheet flow (erosion from poor flood control management or removal of native vegetation), septic systems, many behavioral choices, recharge opportunity/necessity, and how the safety and quality of tap water is maintained. | | Consider integrating with Project #50 for better scoring. | Conceptual |
| 80 | Wellhead Treatment - Uranium | Bighorn-Desert View Water Agency | Wellhead treatment for groundwater sources with elevated radionuclides (Gross Alpha, Uranium). Project components include studies to determine treatment methods available and specific to systems with no access to sanitary sewer for reject waste streams, cost/benefit analysis of methodologies, cost analysis of operation/maintenance of systems and capital construction costs. Could include research of new treatment methodologies to meet challenges associated with rural areas (low overall production, lack of sanitary sewer for reject water (brine) disposal). | | Y | Conceptual |
| 81 | Wells/declining water levels | Small ag, domestic, and minimal producers | Need a quality of water for the many that cannot afford to replace a well on their own wells will start pumping mud when the depth of the well is no longer efficient for the water table | Submitted by private residents (Jim and Ellen Johnson) | General project description may need additional info. | Conceptual |
| 82 | Wrightwood Imported Water Project | Golden State Water Co - Wrightwood | Install a well near Desert Front Road, including a pump station and transmission main to import water from the lower elevations south of the town into the higher elevations in the north. Includes study, design and facilities. | | Need statewide priorities, program preferences or RMS. | study, design facilities. |
| 83 | Yermo CSD - Upgrade Water Comp (?) | Yermo Community Services District | Review existing water systems, plan new system, prepare construction plans | | Y, will need more backup eventually for how costs were derived. | Conceptual |
| 84 | Yermo Hellbro | Yermo Community Services District | Replace Yermo Hellbro water tank. It is leaking. Multiple repairs no longer repairable. Only storage tank on part of system. | | Project described as implementable, but no info on costs or status. Need program preferences. | Implementable Project |
| 85 | Yermo Marine Two | Yermo Community Services District | Replace Marine Two water storage tank. It is leaking & cannot be repaired. This is the only backup for the Marine One. | | Project described as implementable, but no info on costs or status. Need program preferences. | Implementable Project |
| 86 | Alta Loma Reservoir Replacement | Hi-Desert Water District | Increase of 1 MG in water storage capacity to ensure adequate emergency storage (current 250k deficit). | | Y | Conceptual |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Project Title)

| Project No. | Project Title | Lead Agency/Organization | Planned Project/Program Types and Activities | Comments/Review Questions | Project Submittal Acceptable (Y/N) or Need more Info? | Project Type |
|-------------|--|--------------------------|---|--|--|---|
| 87 | Capital Water Main Replacement Program - Airplane Project | Hi-Desert Water District | This project would include the replacement of 4,245 lineal feet of old; undersized steel water mains with that of PVC constructed water mains. | Consider combining Projects 87-91? Or some combination of? | Y | Construction |
| 88 | Capital Water Main Replacement Program – Antelope Project | Hi-Desert Water District | This project would include the replacement of 7,135 lineal feet of old; undersized steel water mains with that of PVC constructed water mains. During installation, new, properly spaced isolation valves and fire hydrants would also be installed along with service lines. | | Y | Construction |
| 89 | Capital Water Main Replacement Program – Balsa Ave. Project | Hi-Desert Water District | This project would include the replacement of 14,150 LF of old; undersized steel water mains with that of PVC constructed water mains. During installation, new, properly spaced isolation valves and fire hydrants would also be installed along with service lines. | | Y | Construction |
| 90 | Capital Water Main Replacement Program – Gates of Spain Project | Hi-Desert Water District | This project would include the replacement of 10,235 lineal feet of old; undersized steel water mains with that of PVC constructed water mains. During installation, new, properly spaced isolation valves and fire hydrants would also be installed along with service lines. | | Y | Construction |
| 91 | Capital Water Main Replacement Program – Pinion Dr. Project - | Hi-Desert Water District | This project would include the replacement of 11,175 LF of old; undersized steel water mains with that of PVC constructed water mains. During installation, new, properly spaced isolation valves and fire hydrants would also be installed along with service lines. | | Y | Construction |
| 92 | HDWD Wastewater Reclamation Project | Hi-Desert Water District | The Project has been determined to be the most viable method of ensuring the Town's compliance with the Regional Board's adoption of the septic tank discharge Prohibition. The project will provide centralized treatment of wastewater generated within the Town at a level consistent with that of the local discharge requirements of both the Regional Board and the CDPH. | From 2004 RWMP (Yucca Valley Treatment Plant) Resubmit application and clarify request for funding for which phase and for which specific task such as design and/or construction? Also, does project include the collection system design/construction? Maybe list in table by phase (and cost) to clarify. | Y | Construction Phase 1, Design and Construction Phases 2&3? |
| 93 | Apple Valley & Hesperia Subregional Water Reclamation Facilities | VVWRA | Two scalping facilities that will treat liquids from existing collection system and reuse for irrigation purposes. Once complete, each facility will be able to process up to 1 million gallons per day (MGD) with the opportunity to expand each to 4 MGD. | From 2004 RWMP (VVWRA Subregional Wastewater Treatment Plants). Is Apple Valley facility serving DACs? | N, please submit more detail for projects before we can rank them. | Construction |
| 94 | Adelanto Fluoride and Arsenic Treatment Plant | City of Adelanto | Construct an Arsenic and Fluoride Treatment System for Potable Well 8A. | | | Conceptual |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Project Title)

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|-------------|---|-----------------------------------|--|---------------------------|--|------------------------|
| 95 | Adelanto Pearmain Relief Sewer Line | City of Adelanto | The project would consist of the installation of 12 to 18 inch sewer main and manholes from the waste water treatment plant on Auburn to the intersection of Air Expressway and Pearmain | | | Construction ready |
| 96 | Adelanto R-Cubed Connection | City of Adelanto | Expand the existing R-Cubed project to allow for a direct turnout connection for the City of Adelanto | | | Conceptual |
| 97 | Adelanto Reclaimed Water Delivery Infrastructure | City of Adelanto | Coordinate the infrastructure needs of the City of Victorville for Reclaimed Water with the City of Adelanto's future ability to provide Reclaimed Water from their new 4.0 MGD Plant | | | Conceptual |
| 98 | Adelanto Sewage Lift Station at Muskrat and De Soto | City of Adelanto | Install new sewage lift station pit and pump station. Install new pumps and SCADA to same. | | N, need more info about project such as status and what type of project it is. Where did the concept come from? | Conceptual |
| 99 | JBWD CUWCC Compliance Project | Joshua Basin Water District | Urban water management planning requires planning, design and implementation of a variety of best management practices for the purposes of increasing conservation, educating the community on water issues, and reducing wasteful water practices. | | Integrate with Project No. 39? | Implementation Program |
| 100 | Thunderbird CWD Fluoride/Nitrate Treatment Plant | Thunderbird County Water District | Evaluate and install a Fluoride/Nitrate treatment system including one ground water well, high elevation storage tank and pipeline. | | N, more project info needed such as DAC applicable? Project Objectives need completing. Estimated amount of water savings needs to be provided. Why should project get put on list; what are the benefits? | Conceptual |
| 101 | Cushenbury Flood Detention Basin | MWA | Proposed to capture runoff from the San Bernardino Mountains in the Lucerne Valley Subbasin. Currently, large storm flows drain to dry lake beds in the area that have low percolation rates. Consequently, the majority of water that drains to the lake beds is lost to evaporation and never enters the basin. The project would divert storm flows to detention basins with high rates of percolation to decrease losses from evaporation. | 2004 RWMP | | Conceptual |
| 102 | Local Wastewater Treatment Plant (Lucerne) | MWA | Wastewater treatment in the region is currently provided by individual septic tank systems. It is likely that at some point in the future, a municipal wastewater treatment facility will have to be built. (description from 2004 RWMP) | 2004 RWMP | | Conceptual |
| 103 | Lucerne Valley Recharge Ponds | MWA | Provides an opportunity for recharge in the Este Subarea. Recharge sites have been contemplated both east and west of the Helendale Fault. The 1994 RWMP recommended constructing a facility east of the fault because the majority of pumping occurs east of fault. MWA has purchased land for a recharge facility, prepared preliminary construction plans, and performed the necessary environmental reviews. | 2004 RWMP | | Implementable Project |

Shaded red cells means the project form was not received in time for processing so project is not shown on this version of the Ranked Project Listing (Handout 5c).

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Project Title)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | |
|-------------|--|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 1 | Agricultural Water Conservation Program | 1 | 1 | 2 | | | 1 | | 2 | | | | | 1 | |
| 2 | Allocation of water ? | | | | | | | | | | | | | | |
| 3 | Ames/Reche Groundwater Storage and Recovery Program - Phase II Expansion | 1 | 1 | 1 | 2 | | 2 | 2 | 1 | 1 | | | 1 | | 2 |
| 4 | Antelope Valley Wash Detention/Recharge Ponds | 1 | 1 | | 2 | 1 | | 2 | 2 | | | 2 | 1 | | 2 |
| 5 | Aquaponics Demonstration Gardens | 2 | 2 | 2 | 2 | | 1 | 1 | 2 | | | | | 1 | |
| 6 | Arsenic and Metering Project | | | 1 | | | | 2 | | 1 | | | | | |
| 7 | Assistance Program for Small Drinking Water Systems | 2 | 2 | 1 | | | | 2 | 1 | 1 | | | | | |
| 8 | Baja Major Storm Diversion Network | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | 1 | | |

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|-------------|---|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 9 | Baja Storm Water Diversion and Retention Project | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| 10 | Baja Subarea Base Annual Production Right (BAP) Acquisition Program | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 |
| 11 | Baja Water Budget | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 |
| 12 | Cadiz Valley Water Conservation, Recovery, and Storage Project | 1 | 1 | | 2 | | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 |
| 13 | Camp Cady: Tamarisk removal and riparian restoration | | | 2 | 1 | | | | 2 | | | | | 2 | |
| 14 | Cedar Street Detention/Recharge Basin | 1 | 1 | | 2 | 1 | | 2 | 2 | | | 2 | 1 | | 2 |
| 15 | Center Water Company Wells, Infrastructure & Storage Project | | | 1 | | | | 2 | | 2 | | | | | |
| 16 | Channel Dredging and Vegetation Removal | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 |
| 17 | City of Victorville VSD 4 Sewer Lift Station | 1 | 1 | | | | | 1 | | | 1 | | | | |
| 18 | Commercial/Industrial/Multi-Family Cash for Grass Program | 1 | 1 | | | | 1 | | 2 | | | 1 | | 1 | |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Project Title)

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|-------------|---|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 19 | Conceptual Planning for Hinkley's Community Drinking Water System | | | 1 | | | | | 2 | | | | 2 | 2 | |
| 20 | Continual rampdowns in the Baja Sub Basin | 1 | 1 | 1 | | | 1 | | | | | | | | 1 |
| 21 | Dairy Nitrate Reduction | | | 2 | 2 | 2 | | 1 | 1 | 2 | 2 | | | 2 | |
| 22 | Deep Creek Off-River Recharge And Storage Basins | 1 | 1 | | | | | 1 | | | | 1 | 1 | | |
| 23 | Desert Demonstration Garden | | | 1 | 1 | | 2 | | | | | | | 1 | |
| 24 | Desert Wash Protection -Watershed Enhancement | 2 | 2 | 2 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | |
| 25 | Direct Delivery of State Project Water to Agricultural Uses (Baja Sustainability Initiative #1) | 1 | 1 | 2 | 2 | | | 2 | 1 | 2 | | | 2 | | |
| 26 | Domestic Water Well System Assistance Program | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 |
| 27 | Dry Well Installation Program, Town wide, Town of Apple Valley | 1 | 1 | | | 1 | 2 | 1 | 1 | | | 1 | 1 | 2 | |
| 28 | Fair Taxation of Water Rights Acquired Outside the Original Adjudication | | | | | | | | | | | | | | |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Project Title)

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|-------------|--|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 29 | Forks Dam Storm Water Detention | 1 | 1 | 2 | 2 | 1 | | 1 | 1 | 2 | 2 | 1 | 1 | | 1 |
| 30 | Groundwater Education Program | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 |
| 31 | Helendale CSD - WWTP Effluent Distribution System | 1 | 1 | | | | 2 | 2 | 2 | | 1 | 1 | | 2 | |
| 32 | Helendale CSD Tertiary Treatment Upgrade | 1 | 1 | | | | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | |
| 33 | High Desert Demonstration Gardens | 2 | 2 | 2 | 2 | | 1 | 2 | 2 | | | | | 1 | |
| 34 | Hydroelectric Facility at Deep Creek to generate power for R3 ground water wells | | | | | | | | | | | 1 | 1 | | |
| 35 | Indian Cove Stormwater Capture and Recharge Project | | 1 | 1 | | 2 | | 1 | 2 | 1 | | | | | |
| 36 | Infrastructure Improvements Projects | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | 2 | 2 | 2 | 2 |
| 37 | Interconnection with Apple Valley Ranchos Water Company | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 |
| 38 | JBWD Central Wastewater Treatment Plant Project | 1 | 1 | 1 | 2 | | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Project Title)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | |
|-------------|---|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 39 | JBWD CUWCC Compliance Project - Leak Detection | 1 | 1 | 2 | 1 | | 1 | 2 | 2 | 2 | | 1 | 1 | 1 | 2 |
| 40 | JBWD Graywater & Rainwater Harvesting Project | 1 | 1 | 1 | | 1 | 2 | 1 | 2 | | 2 | 1 | 1 | 2 | |
| 41 | JBWD Stormwater Recovery Project | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 2 | | 1 | 1 | 2 | 2 |
| 42 | Johnson Valley Pressurized Water System | 1 | 1 | 1 | | | | 2 | 1 | 1 | | | 1 | 2 | |
| 43 | Kane Wash Spreading Basins | 1 | 1 | 1 | 1 | 2 | | 1 | 2 | 2 | | | 2 | 1 | |
| 44 | Lucerne Valley Small Water Systems Feasibility Study | 2 | | 1 | | | 1 | | | 1 | | | 1 | | |
| 45 | Mesa Tank #4, Well #5, Well Generators, Booster Station Generator, etc. | 1 | | | | | 1 | | 1 | 1 | | | 1 | 1 | |
| 46 | Mojave Water Basin Judgment and how it affects Baja | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 47 | Mojave River Baja Subarea Flood Control Basin Storage | 2 | 1 | 1 | 1 | 1 | 2 | | 1 | | | | | 2 | 2 |
| 48 | Mojave River Dam-Deep Creek Spillway Wetlands restoration | | | 2 | 1 | | | | | | | | | 1 | |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Project Title)

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|-------------|---|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 49 | Mojave River walk Trail | | | 1 | 1 | 1 | 1 | | 1 | | | | | 1 | |
| 50 | Morongo Basin Cooperative Projects | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 |
| | | | | | | | | | | | | | | | |
| 51 | Multi-Jurisdictional Technology Integration Project | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| 52 | New Well - Kiowa Well No. 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 |
| 53 | Oro Grande Region Flood Control - Riparian Protection | 2 | 2 | 2 | 2 | 1 | | 2 | 1 | | | 2 | | 2 | |
| 54 | Oro Grande Wash Groundwater Recharge Project | 1 | 1 | | | | | | | | | 1 | 1 | | |
| 55 | Pipeline | 1 | 1 | 1 | 2 | | | 1 | | | | | 1 | | 1 |
| 56 | R3-ASR | 1 | 1 | 1 | 1 | 2 | | 1 | 2 | 2 | | 1 | 1 | | 1 |
| 57 | Recycled Water Distribution System | 1 | 1 | | | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 |
| 58 | Regional Aquifer Recharge Capacity | 1 | 1 | | 1 | 2 | | 1 | | | | | 1 | | 1 |
| 59 | Regional Flood Control/Flood Management Plan | 2 | | | 2 | 1 | | 2 | | 2 | | | | | |

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|-------------|---|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 60 | Reorganization between two adjacent small water agencies (BDVWA and CSA 70 Zone W-1 [Landers]) | 1 | | 1 | | | | 1 | 1 | 1 | | | | 2 | |
| 61 | Reverse Osmosis Package Treatment Plant | 1 | 1 | | | | | 2 | | | 1 | 2 | | | |
| 62 | San Bernardino County and the Mojave Water Agency water conservation unity | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 63 | Sheep Creek Wash Storm Water Retention | 2 | 1 | 1 | | 1 | 2 | 1 | | | 2 | 1 | | 1 | 2 |
| 64 | Silver Lakes Association Stormwater Debris - retention basin, Buckthorn Wash at Mountain Springs Road | | | | | 1 | | 1 | | | | | | 2 | |
| 65 | State Water Project Utilization & Efficiency Strategy | 2 | | | | | | 2 | 2 | | | 1 | 1 | | |
| 66 | State Water Project Water Treatment Plant in conjunction with R3 project | | | | | | | | | | | | | | |
| 67 | Stipulated Pistachio Orchards | | | 1 | | | | | | | | | 1 | | 1 |
| 68 | Storm Water Retention and Percolation in Hondo Wash | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | | 1 | 1 | 2 | |
| 69 | Supervisory Control and Data Acquisition (SCADA) System for Operations and Security | 2 | | 1 | | | 2 | | 1 | 1 | | 2 | 2 | | |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Project Title)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | | |
|-------------|--|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|---|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 | |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence | |
| 70 | Supplemental Water | 1 | 1 | 1 | | | 1 | 1 | 1 | | | | | 1 | | 1 |
| 71 | The Baja Sustainability Initiative | | | | | | | | | | | | | | | |
| 72 | Twentynine Palms Fluoride Treatment Plant Expansion | 1 | 1 | 2 | | | | 1 | 2 | | | | | | | |
| 73 | Twentynine Palms Groundwater Protection Plan Septic System Management Element (SSME) | | | 1 | | | 2 | 1 | 2 | 1 | | | | 1 | | |
| 74 | Water Infrastructure Restoration Program: Pipeline Installation/Replacement Project | | | 1 | | | | | 1 | 1 | | | 2 | | | |
| 75 | Water retention in the lower basin | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 76 | Water Transfers | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | | | 1 |
| 77 | Water Treatment Plant | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | | 2 |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Project Title)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | |
|-------------|---|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 78 | Water University | | | 1 | | | | | | | | 2 | | 1 | |
| 79 | Watershed Educational Awareness Project | | 2 | 2 | 1 | 2 | 1 | 2 | 1 | | | | | 1 | 2 |
| 80 | Wellhead Treatment - Uranium | 1 | | 1 | | | 2 | 1 | 1 | 1 | | | 1 | 2 | |
| 81 | Wells/declining water levels | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 |
| 82 | Wrightwood Imported Water Project | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 |
| 83 | Yermo CSD - Upgrade Water Comp (?) | | | 1 | | | | 1 | 1 | 1 | | | | 2 | |
| 84 | Yermo Hellbro | | 2 | | | | 1 | | | | | 2 | 1 | | |
| 85 | Yermo Marine Two | | | | | | 1 | | | | | 2 | 1 | | |
| 86 | Alta Loma Reservoir Replacement | | | 1 | | | | | | 1 | | | | | |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Project Title)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | |
|-------------|--|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 87 | Capital Water Main Replacement Program - Airplane Project | | | 1 | | | | | | 1 | | | | | |
| 88 | Capital Water Main Replacement Program - Antelope Project | | | 1 | | | | | | 1 | | | | | |
| 89 | Capital Water Main Replacement Program - Balsa Ave. Project | | | 1 | | | | | | 1 | | | | | |
| 90 | Capital Water Main Replacement Program - Gates of Spain Project | | | 1 | | | | | | 1 | | | | | |
| 91 | Capital Water Main Replacement Program - Pinion Dr. Project - | | | 1 | | | | | | 1 | | | | | |
| 92 | HDWD Wastewater Reclamation Project | | | 1 | | | | 1 | | 1 | | | | | |
| 93 | Apple Valley & Hesperia Subregional Water Reclamation Facilities | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| 94 | Adelanto Fluoride and Arsenic Treatment Plant | 1 | | | | | | | | 1 | | | | 1 | |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Project Title)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | |
|-------------|---|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 95 | Adelanto Pearmain Relief Sewer Line | | | 1 | | | | | | | | | | | |
| 96 | Adelanto R-Cubed Connection | | | 1 | | | | 1 | 1 | 1 | | | | | |
| 97 | Adelanto Reclaimed Water Delivery Infrastructure | | | 2 | | | | 1 | 1 | | 1 | | | | |
| 98 | Adelanto Sewage Lift Station at Muskrat and De Soto | | | | | | | | 1 | | | | | | |
| 99 | JBWD CUWCC Compliance Project | 1 | 1 | 2 | 1 | | 1 | 2 | 2 | 2 | | 1 | 1 | 1 | 2 |
| 100 | Thunderbird CWD Fluoride/Nitrate Treatment Plant | | | | | | | | | | | | | | |
| 101 | Cushenbury Flood Detention Basin | 1 | 1 | 1 | 1 | | | | | | | | | | |
| 102 | Local Wastewater Treatment Plant (Lucerne) | | | 1 | | | | | | | | | | | |
| 103 | Lucerne Valley Recharge Ponds | 1 | 1 | 1 | | | | | | | | | | | |

Shaded red cells means the project form was not received in time for processing so project is not shown on this version of the Ranked Project Listing (Handout 5c).

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Lead Agency/ Organization | Planned Project/Program Types and Activities | Comments/Review Questions | Project Type |
|-------------|---|---|--|---|-----------------------|
| 18 | Commercial/Industrial/Multi-Family Cash for Grass Program | Alliance for Water Awareness and Conservation | This project would expand the scope of turf removal projects in the Mojave region. Currently, there is a \$10,000 rebate cap for commercial, industrial, and multi-family units. This has discouraged larger scale landscape conservation projects. | | Implementable Project |
| 78 | Water University | Alliance for Water Awareness and Conservation | The Water University Program is a comprehensive educational and outreach program targeting teachers, real estate professionals, the business community, as well as the general public. This four-component program would offer curriculum for teachers to use in their classrooms for use in science and social studies classes. The second education component targets Fire Departments with education materials and presentations for greater water efficiencies. The third component targets businesses and the real estate community with water conservation information including native landscaping tips, and free water savings devices for the home including sprinkler nozzles, shower heads, etc. The fourth component targets irrigation supervisors and contractors by offering a certificate program in water efficiency. This component would include regular workshops and education materials. The final component is aimed at homeowners to better educate them on water conservation. This component includes an Annual Water Expo with demonstrations, information, workshops, and free giveaways including moisture meters, nozzles, showerheads, etc. | | Implementable program |
| 45 | Mesa Tank #4, Well #5, Well Generators, Booster Station Generator, etc. | Apple Valley Heights County Water District | District want to investigate avenues for fire protection, adequate water storage, energy costs, power loss protection. | Project added. (was not included in initial spreadsheet) | Implementable |
| 9 | Baja Storm Water Diversion and Retention Project | Baja Sub-Advisory Committee | Stormwater retention basin to provide temporary storage for runoff generated by large storm events. The development of irrigation channels to divert a pre-determined quantity of stormwater with weirs or other flow control devices to injection wells or percolation ponds for groundwater recharge. | combine with MWA project above (#8) - Baja Storm Flow Retention – 2004 RWMP | Conceptual |
| 10 | Baja Subarea Base Annual Production Right (BAP) Acquisition Program | Baja Sub-Advisory Committee | Voluntary program funded entirely from local, state, federal and/or water fee dollars that purchases base annual production rights (BAP) from stipulated parties under the Mojave Basin Area Judgment. All BAP will be purchased by the Mojave Water Agency and be permanently retired. Each producer's percentage share of BAP will determine the eligible amount of BAP that can be sold to MWA. | | Conceptual |
| 16 | Channel Dredging and Vegetation Removal | Baja Sub-Advisory Committee | The Mojave River is choked with vegetation causing channel capacities to be exceeded during major flood events. Removing the vegetation and/or excavating the channel would increase the carrying capacity and decrease the flood risk for select areas. By allowing flood water to flow without restrictions, areas downstream might have a higher probability to be naturally recharged during small and large storm events. | | Conceptual |
| 26 | Domestic Water Well System Assistance Program | Baja Sub-Advisory Committee | Financial assistance program to provide low interest loans and grants to help low income individuals finance the costs for construction, refurbishment or service of their individual household water wells. | | Conceptual |
| 30 | Groundwater Education Program | Baja Sub-Advisory Committee | To provide guidance and further knowledge about water through education and outreach. To develop a consumer guide on groundwater, well construction, etc. in the Mojave Basin. (To provide literature about groundwater, wells, well construction, water systems, maintenance, record keeping, conservation and a list of licensed well contractors so that consumers can make an informed decisions). | | Conceptual |
| 6 | Arsenic and Metering Project | Bar-Len Mutual Water Company | The project aims to address arsenic violations from the S.B. County Health Department, and to install water meters at residences to encourage water conservation and a usage-based billing formula. The water company has 45 customers. | | Conceptual |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Lead Agency/ Organization | Planned Project/Program Types and Activities | Comments/Review Questions | Project Type |
|-------------|--|--|---|---|--|
| 42 | Johnson Valley Pressurized Water System | BDVWA | Approximately 1/3rd of the Agency's service area is without a pressurized water supply. Residents in these areas rely on hauled water (self-haul or commercial delivery). Property owners are now prohibited from building or improving their property using hauled water as the water supply. Project would bring a pressurized water distribution system to the area to improve quality of life, public health and provide for enhanced fire protection. Project should include additional studies for locating water supply wells (building on historical data and the existing conceptual model report) and CEQA/NEPA studies. | Can't open excel file | Conceptual |
| 68 | Storm Water Retention and Percolation in Hondo Wash | Bighorn Desert View Water Agency and Mojave Water Agency (?) | Retain storm flows in Hondo Wash to enhance percolation potential into Ames groundwater basin (Pipes Subbasin) and provide a mechanism for flood control that does not currently exist. Includes studies to determine quantities of flow that could be captured annually, engineering feasibility for retention and percolation, and environmental impact overview (Initial Study). Water could be retained behind shallow berms or even dam structures along narrow sections of the wash. Water that is successfully captured and percolated minimizes downstream flood damage from scouring and preserves a resource that is otherwise wasted (flows to dry lake bed for evaporation). | | Conceptual |
| 60 | Reorganization between two adjacent small water agencies (BDVWA and CSA 70 Zone W-1 [Landers]) | Bighorn-Desert View Water Agency | Initiate reorganization through LAFCO. Provide for LAFCO processing fees, boundary map, preparation of TFM Report (Technical, Financial and Managerial plan for operation of consolidated entities. | Customers of CSA 70/Zone W-1 Landers have inquired about reorganization with BDVWA. LAFCO has granted | Restructuring of agencies |
| 69 | Supervisory Control and Data Acquisition (SCADA) System for Operations and Security | Bighorn-Desert View Water Agency | Design and Install SCADA system to automate the acquisition of data and provide centralized control of well pumps, reservoirs, booster stations, flow meters and security monitoring (intrusion monitoring) of the water system. Project would include evaluation of various SCADA products and communication protocols. | | Conceptual |
| 74 | Water Infrastructure Restoration Program: Pipeline Installation/Replacement Project | Bighorn-Desert View Water Agency | The existing BDVWA infrastructure has deficiencies which prevent it from meeting fire flow due to heavy reliance on 6-inch water mains and Class B fire hydrants; an inability to refill most reservoirs overnight after a 500-gallons per minute fire; and inefficient operation of two zones (E-2 and E-3) due to the manner in which they were originally constructed. Project would improve pressure, fire protection and public safety. | | Conceptual from BDVWA 2007 Water Master Plan |
| 80 | Wellhead Treatment - Uranium | Bighorn-Desert View Water Agency | Wellhead treatment for groundwater sources with elevated radionuclides (Gross Alpha, Uranium). Project components include studies to determine treatment methods available and specific to systems with no access to sanitary sewer for reject waste streams, cost/benefit analysis of methodologies, cost analysis of operation/maintenance of systems and capital construction costs. Could include research of new treatment methodologies to meet challenges associated with rural areas (low overall production, lack of sanitary sewer for reject water (brine) disposal). | | Conceptual |
| 12 | Cadiz Valley Water Conservation, Recovery, and Storage Project | Cadiz Inc. | The project will implement a comprehensive, long-term groundwater management program for the groundwater basin underlying the Cadiz property. The project would produce 50,000 acre-feet per year of conserved water. | Project added. (was not included in initial spreadsheet) | Implementable |
| 15 | Center Water Company Wells, Infrastructure & Storage Project | Center Water Company | The company's system is divided into two parts as previously described. The west side currently has a dead end mainline coming from the leased wells on the east side of the flood channel to Highland Road, south on Highland to Furst St then west on Furst to a dead end. This side of the system would include a new well on Highway 18 then create a system loop from the new well south on Red Butte Ave to Furst St then east on Furst to tie into the existing dead end line. Also, from the new well site a new pipeline would run east along the highway to Highland Road, then north on Highland to point of connection with the existing mainline. The company proposes to use the two 10,000 gallon storage tanks at this new well site. The east side of the system has a dead end line on Russell Lane, on Old Woman Springs Road and on Highway 247. This side of the system needs a new well as well as 50,000 gallon reservoir and also to loop the system mainlines at Russell south to Old Woman Springs Road, east along Old Woman Springs Road from Oracle road to Barstow Road, south along Barstow Road then west along Verdugo Road back to Oracle Road. These improvements will allow the system to be brought up to current safe drinking water system standards and insure to the community a viable commercial district. | | Implementable Program |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Lead Agency/ Organization | Planned Project/Program Types and Activities | Comments/Review Questions | Project Type |
|-------------|---|---|--|---|--|
| 57 | Recycled Water Distribution System | City of Hesperia | Construct a water distribution system for the conveyance of recycled water from the proposed Subregional Treatment Plant in the City of Hesperia. The system would include a non-potable reservoir near the Subregional site, booster pumps, and approximately seven miles of "purple" pipeline to convey recycled water to the Hesperia Golf Club and several other users throughout the City. | | Conceptual Design |
| 4 | Antelope Valley Wash Detention/Recharge Ponds | City of Hesperia/Mojave Water Agency | The Ponds would provide groundwater recharge upgradient from Hesperia Water District wells. The Hesperia Master Plan of Drainage identifies a 65 acre site for a storm water detention basin in the Antelope Valley Wash south of the newly constructed Rancho Road. In addition to storm water detention, the site would be able to accommodate groundwater recharge./The SBCFCD has stormwater detention basins planned on Antelope Wash. These basin can also be conjunctively used for groundwater recharge. | 2 applications - one from MWA and one from Hesperia - also Antelope Valley Wash Recharge Ponds from 2004 RWMP | Conceptual Design |
| 14 | Cedar Street Detention/Recharge Basin | City of Hesperia/Mojave Water Agency | The Basin would provide groundwater recharge upgradient from Hesperia Water District wells. The Hesperia Master Plan of Drainage identifies a 120 acre site for a storm water detention basin at the east end of Cedar Street and southwesterly of the California Aqueduct. In addition to storm water detention, the site would be able to accommodate groundwater recharge./The SBCFCD has stormwater detention basins planned in Cedar Street. These basin can also be conjunctively used for groundwater recharge. | 2 applications - one from MWA and one from Hesperia - also Cedar Street Detention Basin - 2004 RWMP | Conceptual Design |
| 17 | City of Victorville VSD 4 Sewer Lift Station | City of Victorville | COV VSD 4 Lift Station will divert the remainder of the Federal Bureau of Prisons wastewater flow to the City's WWTP and blend the TDS from the WWTP's industrial wastewater flow down to a limit that will allow the sale of Title 22 recycled water for cooling purposes to the High Desert Power Project and a future second power plant in the area. | Project added. (was not included in initial spreadsheet) | Design |
| 61 | Reverse Osmosis Package Treatment Plant | City of Victorville | A small package reverse osmosis treatment plant with a capacity of approximately 300 gpm would lower the City of Victorville's IWWTP effluent TDS from the current 600 - 800 mg/L down to 450 mg/L. This removal of TDS would increase reuse of the Title 22 recycled water plant effluent. | Project added. (was not included in initial spreadsheet) | Conceptual |
| 55 | Pipeline | Farmers Home Administration | Mojave River Pipeline project application for financial assistance (see pages 11 & 26) | Submitted by private residents (Jim and Ellen Johnson) | All |
| 37 | Interconnection with Apple Valley Ranchos Water Company | Golden State Water Co - Apple Vly South | Install an interconnection with Apple Valley Ranchos Water Company to provide additional supply. The intended purpose is to participate in the Mojave Water Agency's Regional Recharge and Recovery Project (R-Cubed). The project includes study, design and facilities. | | Study, design, facilities |
| 52 | New Well - Kiowa Well No. 1 | Golden State Water Co - Apple Vly South | Permit, design, drill, construct, and equip a municipal water supply well on an existing property in the Apple Valley South system. | | Implementable Project |
| 77 | Water Treatment Plant | Golden State Water Co - Barstow | Build water treatment plant in the Barstow area | | The project includes study, design and facilities. |
| 82 | Wrightwood Imported Water Project | Golden State Water Co - Wrightwood | Install a well near Desert Front Road, including a pump station and transmission main to import water from the lower elevations south of the town into the higher elevations in the north. Includes study, design and facilities. | | The project includes study, design and facilities. |
| 31 | Helendale CSD - WWTP Effluent Distribution System | Helendale Community Services District | Design and construction of "Purple Pipe" pipeline system to convey effluent water to nearby Golf Course Irrigation system that currently uses pumped groundwater. | | Conceptual |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Lead Agency/ Organization | Planned Project/Program Types and Activities | Comments/Review Questions | Project Type |
|-------------|---|---------------------------------------|---|--|--|
| 32 | Helendale CSD Tertiary Treatment Upgrade | Helendale Community Services District | The District has completed a Recycled Water Facilities Plan which has identified a preferred treatment alternative and cost scenario estimated at \$2,670,000 for plant upgrades. The project is designed to produce recycled tertiary water for use within the District service area by improving the WWTP processes to provide unrestricted Title 22 recycled water. The delivery phase is two-stage with minor delivery required to move Title 22 water across the street to Helendale Community Park for landscape irrigation, and the second stage for delivery of Title 22 water to the Silver Lakes Association for golf course irrigation which would require an extensive pump station and force main. The next phase is recycled water storage required to store water during the wet months for use in the dry months and for use by the onsite farming operation. However, this stage of tertiary treatment can be reduced by the implementation of full phase 2 providing recycled water to the SLA golf course. | | Implementable Project |
| 36 | Infrastructure Improvements Projects | Joshua Basin Water District | Design and Construction of infrastructure replacements to improve efficiency and increase conservation of resources. Particular emphasis on water booster station improvement to reduce energy impacts (i.e. reduce in-rush impacts on pump start-up and increase efficiency of equipment). | | Planning, design and construction of facility improvements |
| 38 | JBWD Central Wastewater Treatment Plant Project | Joshua Basin Water District | Design and construction of required central WWTP to include plant siting, WWTP design, trunk sewer alignment and design, environmental compliance, permitting and construction. Central WWTP provides long-term control of nitrate contamination in groundwater basin, as well as other contaminants identified in past studies. | | Design, Environmental and Construction of Central WWTP, continuation of JBWD Wastewater Treatment Strategy |
| 39 | JBWD CUWCC Compliance Project - Leak Detection | Joshua Basin Water District | System-wide leak detection program to identify and eliminate potential water system leaks, thereby reducing water loss and conserving the regions available water supplies. | District also submitted a form for "CUWCC Projects". It seems to include this leak project. I saved it in the JBWD folder, but didn't include it in the spreadsheet. | Planning, Design and Implementation of District-wide Leak Detection Program per CUWCC policies. |
| 40 | JBWD Graywater & Rainwater Harvesting Project | Joshua Basin Water District | Proposed program will develop standards and facilities for private property capture of graywater and rainwater to supplement local water resources. Project complements the District's new imported water recharge project, and educates property owners in how they can contribute to increasing local water supplies and conserve groundwater. | | Planning, Design, Education & Implementation of Graywater & Rainwater Harvesting Facilities |
| 41 | JBWD Stormwater Recovery Project | Joshua Basin Water District | Proposed facilities will capture and divert stormwater from local arroyos to the District's newly constructed recharge basins to increase groundwater basin recharge and minimize downstream impacts, and increase graywater capture. Both options will decrease need for imported water supplies. | | Design, Environmental and Construction of Stormwater Recovery Facilities |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Lead Agency/ Organization | Planned Project/Program Types and Activities | Comments/Review Questions | Project Type |
|-------------|---|--|---|---|--|
| 50 | Morongo Basin Cooperative Projects | Joshua Basin Water District | Through a series of regional planning meetings, identify, design and implement a variety of projects with regional benefit, including water system interties, regional education and conservation programs, potential regional water storage & recovery projects, wastewater management strategies, and other identified project for regional benefit. | Proposal is for identification of projects, not specific project. Doesn't seem implementable. | Planning, Design and Construction of various inter-agency cooperative projects to benefit the Morongo Region |
| 51 | Multi-Jurisdictional Technology Integration Project | Joshua Basin Water District | Adjacent agencies have various forms of technologies (GIS, SCADA, CMMS, etc.) that can be standardized and integrated regionally to facilitate better communication and response in the event of a regional emergency. Project increase agency cooperation in normal operations as well by increasing regional communication. | | Planning, Design and Construction of multi-agency integrated emergency operations and communication strategy |
| 44 | Lucerne Valley Small Water Systems Feasibility Study | LVEDA | Prepare a feasibility study to explore the consolidation of the ten mutual water companies, local school district, CDA 29 & Hitchin Lucerne Inc retail commercial property. This would be a two phase study addressing 1) managerial & resources consolidation & 2) physical infrastructure tie-in consolidation | | Feasibility Study |
| 13 | Camp Cady: Tamarisk removal and riparian restoration | Mojave Desert Resource Conservation Dist.(MDRCD) | Work with Quail Forever (Camp Cady manager) and DFW - tamarisk removal - provide areas of surface water - plant natives - etc. Use contractor for tamarisk if funding available. Possible new well at Camp. | | Implementable Project |
| 21 | Dairy Nitrate Reduction | Mojave Desert Resource Conservation Dist.(MDRCD) | Obtain funding – to be matched with NRCS/USDA funding – a possible 25% contribution – to: 1) Help dairies pay to haul manure off-site – likely to fields distant from shallow groundwater and surface waters. 2) Help fund infrastructure designed to apply waste pond water directly to adjacent fields via irrigation systems, etc. – alleviating direct percolation to groundwater. Requires manure “manifest” to track movement and use of nutrients. BMP to effectively use nutrients – applied at agronomic rates. 3) Feasibility study to determine alternate uses of manure for fuels – i.e.: composting/digestion/gasification – what can be done on a regional basis – work in conjunction with VVWRA, etc. | | Implementable – in association with the IRWMP’s Salt Mgt. Plan - with Lahontan concurrence |
| 53 | Oro Grande Region Flood Control - Riparian Protection | Mojave Desert Resource Conservation Dist.(MDRCD) | Design and reinstate a channel(s) through project area to carry storm flows to reduce flooding of improved parcels | Project added. (was not included in initial spreadsheet) | Design/Implementable |
| 1 | Agricultural Water Conservation Program | Mojave Water Agency | (Baja Sustainability Initiative #3)The general project concept is an agricultural water conservation program that will help farmers use water more efficiently and alleviate groundwater level declines (particularly in the Baja subarea). | Agricultural Conservation Programs from 2004 RWMP | Implementable Program |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Lead Agency/ Organization | Planned Project/Program Types and Activities | Comments/Review Questions | Project Type |
|-------------|---|---------------------------|--|---|----------------------|
| 3 | Ames/Reche Groundwater Storage and Recovery Program - Phase II Expansion | Mojave Water Agency | Expand the Ames/Reche Recharge Facility to accommodate the maximum potential delivery capacity of 3,000 AF/Yr. (currently permitted for 1,500 AF/Yr.). Pre-planning for expansion could include percolation tests to determine necessity for expansion of the existing BLM Lease, engineering design to minimize footprint and optimize percolation potential, CEQA and NEPA for Phase II. | | Conceptual |
| 5 | Aquaponics Demonstration Gardens | Mojave Water Agency | Construct two demonstration aquaponics sites to prove technology as a water efficient and profitable alternative to traditional agriculture and gardening. | Project added. (was not included in initial spreadsheet) | Design/Implementable |
| 7 | Assistance Program for Small Drinking Water Systems | Mojave Water Agency | Program would identify water supply, water quality and infrastructure needs of small drinking water systems within the IRWM Region and help connect them to available funding by identifying funding sources, assisting with grant applications and paperwork, etc. Sources of funding could include State and Federal funds from a variety of programs designed to help small systems. | Project added. (was not included in initial spreadsheet) | Conceptual |
| 8 | Baja Major Storm Diversion Network | Mojave Water Agency | (Baja Sustainability Initiative #4) A major storm event diversion network to capture storm flows and transfer them to retention ponds that could then be disbursed on the south side of the valley to help facilitate recharge and recovery in areas that are unable to receive any natural benefit from storm flows that run down the river. A reduction in the velocity of the storm flows could also greatly assist in the prevention of scouring Cady Riparian Habitat. | <i>same project as submitted by Baja sub-advisory (#9) below so can combine but 2 different applications each have objectives prioritized differently Baja Storm Flow Retention – 2004 RWMP</i> | Conceptual |
| 22 | Deep Creek Off-River Recharge And Storage Basins | Mojave Water Agency | Off River recharge and storage basins on the Deep Creek Properties | Same project as the Recharge Facilities South of Apple Valley from the 2004 RWMP | Conceptual Design |
| 25 | Direct Delivery of State Project Water to Agricultural Uses (Baja Sustainability Initiative #1) | Mojave Water Agency | Raw water distribution network connecting to existing Mojave River Pipeline in Newberry springs and extending to agricultural water users in the Baja Subarea/Newberry Springs area. Would provide for the direct delivery of State Water Project (SWP) water to end agricultural users and allow for reduction of groundwater pumping. | | Conceptual |
| 29 | Forks Dam Storm Water Detention | Mojave Water Agency | Although extremely variable on average 41,000 acre feet of storm water flow out of Afton Canyon every 6 years. Based on current State Water Project delivery costs this equates to approximately \$16 million worth of "lost" water. The project proposes that appropriate infrastructure could capture a significant portion of this water and allow it to recharge area groundwater systems. This could be accomplished through various diversion structures along the river or make use of the existing Forks Dam to impound storm water. Impounded storm water could be slowly released from the Forks Dam at a rate that would allow percolation rather than run-off though Afton Canyon. | | Conceptual |
| 33 | High Desert Demonstration Gardens | Mojave Water Agency | Phase I: At Mojave Water Agency create a regional class garden destination. Phase II: With partners develop a series of demonstration gardens regionally. | | Conceptual |
| 34 | Hydroelectric Facility at Deep Creek to generate power for R3 ground water wells | Mojave Water Agency | The Deep Creek Outlet to the Mojave River can generate electrical power for use by the Agency to power the R3 groundwater wells. Two options are possible: 1) construct Groundwater wells at Deep Creek FCF and extend the R3 pipeline to these wells. Our run Conduit and conductors from Deep Creek to the R3 Groundwater wells. | | Conceptual |
| 47 | Mojave River Baja Subarea Flood Control Basin Storage | Mojave Water Agency | Construct minimum basins in river bottom. To retain storm flows in river. | Submitted by Wayne Snively and Linda Deluca Snively | Conceptual |
| 49 | Mojave River walk Trail | Mojave Water Agency | Walking / biking trail along the Mojave River. Combined recreational and public education project involving multiple participating agencies. | Project proponent is City of Victorville. Is there one submitted by MWA? | Conceptual |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Lead Agency/ Organization | Planned Project/Program Types and Activities | Comments/Review Questions | Project Type |
|-------------|--|--|---|---|----------------------------------|
| 54 | Oro Grande Wash Groundwater Recharge Project | Mojave Water Agency | The Oro Grande Wash Groundwater Recharge Project has an ultimate delivery capacity for approximately 6,000 AF. The trunk facilities are designed to flow the full capacity. The Flow control facility and pipeline into the wash is designed to flow half of the capacity into a joint use San Bernardino County Flood Control Detention/Recharge Basin. The second phase of this project is to construct a second pipeline to the wash and another groundwater recharge area between Amethyst and Bear Valley Road | | Implementable Project |
| 56 | R3-ASR | Mojave Water Agency | An R3-ASR Project would rely on existing drinking water infrastructure. Many existing ASR projects make use of existing drinking water distribution systems to deliver water for injection. It is anticipated that most future ASR projects in California will maximize use of existing drinking water systems. (Waterboards, 2013). ASR regulations require that injected water be treated to drinking water standards. The R3 project is (already) a potable (drinking) water system, therefore no additional treatment would be required. At most only minor modification to existing well heads (to allow for backward injection flow) may be required. | 2004 RWMP project: Injection Wells in Victorville Area Water Treatment and Blending . | Conceptual Implementable Project |
| 58 | Regional Aquifer Recharge Capacity | Mojave Water Agency | MWA has very little off-river aquifer recharge capacity. During wet periods, when SWP water is plentiful and "cheap," the river is likely to be full and unable to accept recharge. MWA needs to be able to accept large a quantity of water in a relatively short (wet) period. This could be accomplished through a variety of infrastructure. Once such infrastructure combination could include surface water impoundment for later distribution to recharge ponds, ASR injection wells, etc... In addition this project could easily be expanded to a water bank with an aqueduct pump-back component for "buy low/sell high" of banked water. | | Conceptual |
| 59 | Regional Flood Control/Flood Management Plan | Mojave Water Agency | Prepare a multi-jurisdictional, regional flood control / flood management plan that integrates flood data and information, coordinates flood control efforts and infrastructure, and seeks to integrate flood management and water supply projects across the Mojave IRWM Region. | Project added. (was not included in initial spreadsheet) | Design; planning document |
| 65 | State Water Project Utilization & Efficiency Strategy | Mojave Water Agency | Conceptual program with an overall goal to make the best use of the Region's State Water Project resources for maximum benefit to the Region. This would be an ongoing program with many possible elements and would explore a variety of opportunities to achieve the goal, including transfers, exchanges, purchases and sales of SWP water in concert with conjunctive use, groundwater and surface water storage programs, etc. | Project added. (was not included in initial spreadsheet) | Conceptual |
| 66 | State Water Project Water Treatment Plant in conjunction with R3 project | Mojave Water Agency | Construct a Water treatment plant to treat State Water Project Water and deliver directly into the potable R3 water delivery system. This can be done instead of pumping groundwater wells. | 2004 RWMP Project Regional Surface Water Treatment Plant. | Conceptual |
| 71 | The Baja Sustainability Initiative | Mojave Water Agency | This initiative addresses a multi-dimensional approach to issues and problems associated with over production of water, loss of storage, sand dune migration, insufficient infrastructure to adequately recharge the most needed areas due to geological issues such as faults and clay layers. Additionally, this initiative also seeks to help stave off loss of riparian habitats due to complex issues regarding plant drought stressing | Is this project the same or somehow repetitive with Initiative #4? | Conceptual |
| 11 | Baja Water Budget | Mojave Water Agency, Military Bases, Fish and Wildlife, and Stakeholders | To have a viable number for what is sustainable for the Baja area. | Submitted by private residents (Jim and Ellen Johnson) | ALL |
| 19 | Conceptual Planning for Hinkley's Community Drinking Water System | Mojave Water Agency/Hinkley Partnership for Healthy Living | Evaluate the concept of a community water system that draws water from a source of water that is not affected by the chromium plume. The water source must not be affected by plume expansion, remedial byproducts, or groundwater drawdown for the lifetime of the source and must be able to meet the water quality requirements. Water systems options, estimated costs and potential financing mechanisms will be included as part of the project. At least one community meeting will be conducted to present project results and to raise community awareness of a potential future water system. | Hinkley Water Supply Augmentation by SCWC - 2004 RWMP | Conceptual |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Lead Agency/ Organization | Planned Project/Program Types and Activities | Comments/Review Questions | Project Type |
|-------------|---|--|---|--|--|
| 46 | Mojave Water Basin Judgment and how it affects Baja | Mojave Water Agency? | To have a fair and equitable solution to all stakeholders in the Baja area. | Submitted by private residents (Jim and Ellen Johnson) | ? |
| 43 | Kane Wash Spreading Basins | MWA | Provide storage of rainfall runoff; reduce overdraft in Baja Subarea. | From 2004 RWMP (Kane Wash Recharge Ponds) | Conceptual |
| 79 | Watershed Educational Awareness Project | MWA | This project uses educational and public outreach materials including yearly surveys to encourage a conservation ethic based on basin-wide understanding of the role and value of water and the effects of personal actions on supply and demand. The project encompasses (but is not limited to) materials, teacher training, classroom visits and student and community activities related to water wise gardening, invasive plants, sheet flow (erosion from poor flood control management or removal of native vegetation), septic systems, many behavioral choices, recharge opportunity/necessity, and how the safety and quality of tap water is maintained. | | Concept based on Joshua Basin Water-Wise Watercourse materials with 5 years experience, data and water-wise gardens. |
| 23 | Desert Demonstration Garden | Newberry Community Services District | Construct a demonstration garden and education outreach program for Baja Subarea | Project added. (was not included in initial spreadsheet) | Conceptual |
| 67 | Stipulated Pistachio Orchards | Newberry Springs Hi-Desert Pistachio Association | During the 86-90 period when water allocations were being determined these orchards were using a minimal amount of water. | Submitted by private residents (Jim and Ellen Johnson) | Conceptual |
| 63 | Sheep Creek Wash Storm Water Retention | Phelan Piñon Hills Community Services District | Storm Water Capture | Sheep Creek Recharge Ponds 2004 RWMP | Conceptual |
| 62 | San Bernardino County and the Mojave Water Agency water conservation unity | San Bernardino County and MWA | Water conservation ordinance in unincorporated areas of the S.B. County within the MWA Jurisdiction. | Submitted by private residents (Jim and Ellen Johnson) | All |
| 64 | Silver Lakes Association Stormwater Debris retention basin, Buckthorn Wash at Mountain Springs Road | Silver Lakes Association | Design and construction of a reinforced concrete storm water debris interceptor where Buckthorn Wash bisects the Silver Lakes Golf Course. Approx size (LWD): 60' x 10' x 6' | (lead agency and partners corrected based on project form) | Conceptual |
| 81 | Wells/declining water levels | Small ag, domestic, and minimal producers | Need a quality of water for the many that cannot afford to replace a well on their own wells will start pumping mud when the depth of the well is no longer efficient for the water table | Submitted by private residents (Jim and Ellen Johnson) | ALL |
| 76 | Water Transfers | Stipulators in Baja | One of the way to make the physical solution work for the whole of the Mojave Basin | Submitted by private residents (Jim and Ellen Johnson); objectives in the submittal form were from a | Viable transferable water right |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Lead Agency/ Organization | Planned Project/Program Types and Activities | Comments/Review Questions | Project Type |
|-------------|--|---|--|---|---|
| 2 | Allocation of water ? | Submitted by Dean VanBasetlaar | When orchards are young they do not require as much water as they will as they grow and start to produce. During the 5 year period (86-90) when water allocation was being determined, it was not taken into consideration the water needed when the trees matured. Should of considered the studies done at that time. | No objectives checked off. Project appears to be more related to overall challenges, | |
| 24 | Desert Wash Protection -Watershed Enhancement | Submitted by Jenny Wilder, Apple Valley resident | Protect desert washes by acquisition if necessary and restore to native function (allow use for foot traffic only) Encourage developed areas to enhance sponge-like native desert landscaping | | Conceptual |
| 28 | Fair Taxation of Water Rights Acquired Outside the Original Adjudication | Submitted by Pauline Hass | Have the State Board of Equalization rewrite and lower the taxation of water rights acquired outside the original adjudication. | Objectives page missing from project submittal. Project appears to be more related to overall challenges or a | |
| 48 | Mojave River Dam-Deep Creek Spillway Wetlands restoration | Submitted by: Jenny Wilder, Apple Valley resident | Mojave River Dam-Deep Creek Spillway Wetlands restoration | | Conceptual |
| 27 | Dry Well Installation Program, Town wide, Town of Apple Valley | Town of Apple Valley | If awarded funding, the project would move directly forward with preparation of bid packages to advertise and award a contract for the next phase of program implementation. The contract will construct as many dry well structures as funding will allow. To date approximately 77 shallow dry well structures have been constructed in Apple Valley and are successfully alleviating flooding where they exist. The underlying layers of natural gravel and sand absorb water almost as fast as it can be filtered and introduced into the wells. The Town of Apple Valley Dry Well Standard Design calls for a pre-manufactured dry well structure, and is a combination of an inlet treatment/filtration chamber, (similar to many being used in coastal areas for NPDES related storm water runoff treatment prior to discharge into a water body), combined with a second chamber connected to a shallow lined and perforated well or pit that extends down through the surface layer of impervious soils. The structures average between 35 and 40 feet deep, but are only as deep as required to reach sandy gravelly soil. | | Implementation of Program, New Phase of ongoing Program |
| 72 | Twentynine Palms Fluoride Treatment Plant Expansion | Twentynine Palms Water District | The District maintains a fluoride variance from DPH due to naturally occurring, high levels of fluoride in the groundwater, the District's only source of supply. The variance expires in ten years and additional source development is needed to mitigate the water quality changes. In the Mesquite Springs aquifer of the Twentynine Palms Groundwater basin, a second Fluoride Treatment Plant is needed for system redundancy. Project engineering will determine the size and volume of the plant that will produce the most cost-effective results for additional source development within the aquifer, protecting safe yield and preventing drawdown of the Indian Cove and Fortynine Palms aquifers. | | Implementable Project |
| 73 | Twentynine Palms Groundwater Protection Plan Septic System Management Element (SSME) | Twentynine Palms Water District/City of Twentynine Palms | The Regional Water Quality Control Board (Colorado Region) has adopted a septic rule in order to comply with the State Recycled Water Policy. In order to protect the groundwater quality within Twentynine Palms, the Groundwater Protection Plan has identified a Septic System Management Program for monitoring and maintenance of the community's only supply of water, groundwater. Indoor conservation and the reduction of outflow to septic systems will be a significant focus of the septic maintenance and informational outreach goals. | | Implementable Project - Groundwater Protection |
| 35 | Indian Cove Stormwater Capture and Recharge Project | Twentynine Palms Water District/Joshua Basin Water District | The Department of Water Resources has identified the safe yield for the Indian Cove groundwater basin, limiting production to 1,500 acre-feet per year to avoid overdraft. This project could mitigate past over-drafting and prevent future declines in water levels within this shared basin. | | Conceptual - Stormwater Capture and Recharge |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Lead Agency/ Organization | Planned Project/Program Types and Activities | Comments/Review Questions | Project Type |
|-------------|---|-----------------------------------|--|---|---------------------------------------|
| 75 | Water retention in the lower basin | Unknown | Retain storm flows in the river in the lower basin and retain storm flows in Kane wash area (possibly using the pit at Kewitt) | Combine with #49?? Submitted by private residents (Jim and Ellen Johnson); objectives in the | Retain storm flows in the lower basin |
| 20 | Continual rampdowns in the Baja Sub Basin | Watermaster and all Stakeholders | Eliminate carry over across the board and stop the continual rampdowns in Baja | Submitted by private residents (Jim and Ellen Johnson) | All |
| 70 | Supplemental Water | Watermaster and Fish and Wildlife | Watermaster and Fish and wildlife buy or lease supplemental FPA, BAP water | Submitted by private residents (Jim and Ellen Johnson) | All |
| 83 | Yermo CSD - Upgrade Water Comp (?) | Yermo Community Services District | Review existing water systems, plan new system, prepare construction plans | added to spreadsheet 8/7/13 | |
| 84 | Yermo Hellbro | Yermo Community Services District | Replace Yermo Hellbro water tank. It is leaking. Multiple repairs no longer repairable. Only storage tank on part of system. | Project described as implementable, but no info on costs or status | Implementable Project |
| 85 | Yermo Marine Two | Yermo Community Services District | Replace Marine Two water storage tank. It is leaking & cannot be repaired. This is the only backup for the Marine One. | Project described as implementable, but no info on costs or status | Implementable Project |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | |
|-------------|---|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 18 | Commercial/Industrial/Multi-Family Cash for Grass Program | 1 | 1 | | | | 1 | | 2 | | | 1 | | 1 | |
| 78 | Water University | | | 1 | | | | | | | | 2 | | 1 | |
| 45 | Mesa Tank #4, Well #5, Well Generators, Booster Station Generator, etc. | 1 | | | | | 1 | | 1 | 1 | | | 1 | 1 | |
| 9 | Baja Storm Water Diversion and Retention Project | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| 10 | Baja Subarea Base Annual Production Right (BAP) Acquisition Program | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 |
| 16 | Channel Dredging and Vegetation Removal | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 |
| 26 | Domestic Water Well System Assistance Program | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 |
| 30 | Groundwater Education Program | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 |
| 6 | Arsenic and Metering Project | | | 1 | | | | 2 | | 1 | | | | | |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | |
|-------------|--|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 42 | Johnson Valley Pressurized Water System | 1 | 1 | 1 | | | | 2 | 1 | 1 | | | 1 | 2 | |
| 68 | Storm Water Retention and Percolation in Hondo Wash | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | | 1 | 1 | 2 | |
| 60 | Reorganization between two adjacent small water agencies (BDVWA and CSA 70 Zone W-1 [Landers]) | 1 | | 1 | | | | 1 | 1 | 1 | | | | 2 | |
| 69 | Supervisory Control and Data Acquisition (SCADA) System for Operations and Security | 2 | | 1 | | | 2 | | 1 | 1 | | 2 | 2 | | |
| 74 | Water Infrastructure Restoration Program: Pipeline Installation/Replacement Project | | | 1 | | | | | 1 | 1 | | | 2 | | |
| 80 | Wellhead Treatment - Uranium | 1 | | 1 | | | 2 | 1 | 1 | 1 | | | 1 | 2 | |
| 12 | Cadiz Valley Water Conservation, Recovery, and Storage Project | 1 | 1 | | 2 | | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 |
| 15 | Center Water Company Wells, Infrastructure & Storage Project | | | 1 | | | | 2 | | 2 | | | | | |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | |
|-------------|---|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 57 | Recycled Water Distribution System | 1 | 1 | | | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | |
| 4 | Antelope Valley Wash Detention/Recharge Ponds | 1 | 1 | | 2 | 1 | | 2 | 2 | | | 2 | 1 | 2 | |
| 14 | Cedar Street Detention/Recharge Basin | 1 | 1 | | 2 | 1 | | 2 | 2 | | | 2 | 1 | 2 | |
| 17 | City of Victorville VSD 4 Sewer Lift Station | 1 | 1 | | | | | 1 | | | 1 | | | | |
| 61 | Reverse Osmosis Package Treatment Plant | 1 | 1 | | | | | 2 | | | 1 | 2 | | | |
| 55 | Pipeline | 1 | 1 | 1 | 2 | | | 1 | | | | | 1 | 1 | |
| 37 | Interconnection with Apple Valley Ranchos Water Company | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | |
| 52 | New Well - Kiowa Well No. 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | |
| 77 | Water Treatment Plant | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | |
| 82 | Wrightwood Imported Water Project | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | |
| 31 | Helendale CSD - WWTP Effluent Distribution System | 1 | 1 | | | | 2 | 2 | 2 | | 1 | 1 | | 2 | |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | |
|-------------|---|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 32 | Helendale CSD Tertiary Treatment Upgrade | 1 | 1 | | | | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | |
| 36 | Infrastructure Improvements Projects | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | 2 | 2 | 2 | 2 |
| 38 | JBWD Central Wastewater Treatment Plant Project | 1 | 1 | 1 | 2 | | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 |
| 39 | JBWD CUWCC Compliance Project - Leak Detection | 1 | 1 | 2 | 1 | | 1 | 2 | 2 | 2 | | 1 | 1 | 1 | 2 |
| 40 | JBWD Graywater & Rainwater Harvesting Project | 1 | 1 | 1 | | 1 | 2 | 1 | 2 | | | 2 | 1 | 1 | 2 |
| 41 | JBWD Stormwater Recovery Project | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 2 | | 1 | 1 | 2 | 2 |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | |
|-------------|---|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 50 | Morongo Basin Cooperative Projects | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 |
| 51 | Multi-Jurisdictional Technology Integration Project | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| 44 | Lucerne Valley Small Water Systems Feasibility Study | 2 | | 1 | | | 1 | | | 1 | | | 1 | | |
| 13 | Camp Cady: Tamarisk removal and riparian restoration | | | 2 | 1 | | | | 2 | | | | | 2 | |
| 21 | Dairy Nitrate Reduction | | | 2 | 2 | 2 | | 1 | 1 | 2 | 2 | | | 2 | |
| 53 | Oro Grande Region Flood Control - Riparian Protection | 2 | 2 | 2 | 2 | 1 | | 2 | 1 | | | 2 | | 2 | |
| 1 | Agricultural Water Conservation Program | 1 | 1 | 2 | | | 1 | | 2 | | | | | 1 | |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | |
|-------------|---|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 3 | Ames/Reche Groundwater Storage and Recovery Program - Phase II Expansion | 1 | 1 | 1 | 2 | | 2 | 2 | 1 | 1 | | | 1 | | 2 |
| 5 | Aquaponics Demonstration Gardens | 2 | 2 | 2 | 2 | | 1 | 1 | 2 | | | | | 1 | |
| 7 | Assistance Program for Small Drinking Water Systems | 2 | 2 | 1 | | | | 2 | 1 | 1 | | | | | |
| 8 | Baja Major Storm Diversion Network | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | 1 | | |
| 22 | Deep Creek Off-River Recharge And Storage Basins | 1 | 1 | | | | | 1 | | | | 1 | 1 | | |
| 25 | Direct Delivery of State Project Water to Agricultural Uses (Baja Sustainability Initiative #1) | 1 | 1 | 2 | 2 | | | 2 | 1 | 2 | | | 2 | | |
| 29 | Forks Dam Storm Water Detention | 1 | 1 | 2 | 2 | 1 | | 1 | 1 | 2 | 2 | 1 | 1 | | 1 |
| 33 | High Desert Demonstration Gardens | 2 | 2 | 2 | 2 | | 1 | 2 | 2 | | | | | 1 | |
| 34 | Hydroelectric Facility at Deep Creek to generate power for R3 ground water wells | | | | | | | | | | | 1 | 1 | | |
| 47 | Mojave River Baja Subarea Flood Control Basin Storage | 2 | 1 | 1 | 1 | 1 | 2 | | 1 | | | | | 2 | 2 |
| 49 | Mojave River walk Trail | | | 1 | 1 | 1 | 1 | | 1 | | | | | 1 | |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | |
|-------------|--|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 54 | Oro Grande Wash Groundwater Recharge Project | 1 | 1 | | | | | | | | | 1 | 1 | | |
| 56 | R3-ASR | 1 | 1 | 1 | 1 | 2 | | 1 | 2 | 2 | | 1 | 1 | | 1 |
| 58 | Regional Aquifer Recharge Capacity | 1 | 1 | | 1 | 2 | | 1 | | | | | 1 | | 1 |
| 59 | Regional Flood Control/Flood Management Plan | 2 | | | 2 | 1 | | 2 | | 2 | | | | | |
| 65 | State Water Project Utilization & Efficiency Strategy | 2 | | | | | | 2 | 2 | | | 1 | 1 | | |
| 66 | State Water Project Water Treatment Plant in conjunction with R3 project | | | | | | | | | | | | | | |
| 71 | The Baja Sustainability Initiative | | | | | | | | | | | | | | |
| 11 | Baja Water Budget | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 |
| 19 | Conceptual Planning for Hinkley's Community Drinking Water System | | | 1 | | | | | | 2 | | | 2 | 2 | |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | |
|-------------|---|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 46 | Mojave Water Basin Judgment and how it affects Baja | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 43 | Kane Wash Spreading Basins | 1 | 1 | 1 | 1 | 2 | | 1 | 2 | 2 | | | 2 | 1 | |
| 79 | Watershed Educational Awareness Project | | 2 | 2 | 1 | 2 | 1 | 2 | 1 | | | | 1 | 2 | |
| 23 | Desert Demonstration Garden | | | 1 | 1 | | 2 | | | | | | 1 | | |
| 67 | Stipulated Pistachio Orchards | | | 1 | | | | | | | | 1 | | 1 | |
| 63 | Sheep Creek Wash Storm Water Retention | 2 | 1 | 1 | | 1 | 2 | 1 | | | 2 | 1 | 1 | 2 | |
| 62 | San Bernardino County and the Mojave Water Agency water conservation unity | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 64 | Silver Lakes Association Stormwater Debris retention basin, Buckthorn Wash at Mountain Springs Road | | | | | 1 | | 1 | | | | | 2 | | |
| 81 | Wells/declining water levels | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | |
| 76 | Water Transfers | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | |
|-------------|--|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 2 | Allocation of water ? | | | | | | | | | | | | | | |
| 24 | Desert Wash Protection -Watershed Enhancement | 2 | 2 | 2 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | |
| 28 | Fair Taxation of Water Rights Acquired Outside the Original Adjudication | | | | | | | | | | | | | | |
| 48 | Mojave River Dam-Deep Creek Spillway Wetlands restoration | | | 2 | 1 | | | | | | | | | 1 | |
| 27 | Dry Well Installation Program, Town wide, Town of Apple Valley | 1 | 1 | | | 1 | 2 | 1 | 1 | | | 1 | 1 | 2 | |
| 72 | Twentynine Palms Fluoride Treatment Plant Expansion | 1 | 1 | 2 | | | | 1 | 2 | | | | | | |
| 73 | Twentynine Palms Groundwater Protection Plan Septic System Management Element (SSME) | | | 1 | | | 2 | 1 | 2 | 1 | | | | 1 | |
| 35 | Indian Cove Stormwater Capture and Recharge Project | | 1 | 1 | | 2 | | 1 | 2 | 1 | | | | | |

Mojave Region IRWM Plan Potential Projects (Alphabetical Listing by Lead Agency)

| Project No. | Project Title | Prioritized Objectives | | | | | | | | | | | | | |
|-------------|---|------------------------------|---------------------------------|-------------------------|---|-------------------------------|--|------------------------|--|---|---------------------------------------|--|----------------------------------|--------------------------|-------------------------|
| | | 1 | 3 | 7 | 8 | 9 | 2 | 10 | 11 | 13 | 14 | 4 | 5 | 12 | 6 |
| | | Balance Future Water Demands | Maintain Stability In GW Basins | Provide Support to DACs | Protect And Restore Sensitive Environmental Areas | Improve Stormwater Management | Continue Improving Regional Water Use Efficiency | Preserve Water Quality | Obtain Financial Assistance From Outside Sources | Identify And Establish Reliable Funding Sources | Increase Recycled Water Use In Region | Address State Goal Of Reducing Reliance On Delta | Optimize Region's Water Supplies | Improve Public Awareness | Prevent Land Subsidence |
| 75 | Water retention in the lower basin | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 20 | Continual rampdowns in the Baja Sub Basin | 1 | 1 | 1 | | | 1 | | | | | | | 1 | |
| 70 | Supplemental Water | 1 | 1 | 1 | | | 1 | 1 | 1 | | | 1 | | 1 | |
| 83 | Yermo CSD - Upgrade Water Comp (?) | | | 1 | | | | 1 | 1 | 1 | | | 2 | | |
| 84 | Yermo Hellbro | | 2 | | | | 1 | | | | 2 | 1 | | | |
| 85 | Yermo Marine Two | | | | | | 1 | | | | 2 | 1 | | | |

Mojave Region IRWM Plan Potential Projects (Preliminary Ranked Listing by Tiers)

| Project No. | Project Title | Lead Agency/Organization | Comments/Review Questions | Project Submittal Acceptable (Y/N) or Need more Info? | Project Pass Screening Criteria? | Project Type | Primary Objective | Importance | Urgency | Tier for Ranking |
|-------------|--|--|---|--|---|----------------------------------|-------------------|------------|---------|------------------|
| | | | | | | | | | | |
| 1 | Agricultural Water Conservation Program for Baja | Mojave Water Agency | Agricultural Conservation Programs from 2004 RWMP | Y | Y | Implementable Program | 3 | H | H | 1 |
| 3 | Ames/Reche Groundwater Storage and Recovery Program - Phase II Expansion | Mojave Water Agency | | Y | Y | Conceptual | 7 | H | H | 1 |
| 4 | Antelope Valley Wash Detention/Recharge Ponds | City of Hesperia/Mojave Water Agency | 2 applications - one from MWA and one from Hesperia - also Antelope Valley Wash Recharge Ponds from 2004 RWMP | Y | Y | Conceptual Design | 9 | H | H | 1 |
| 5 | Aquaponics Demonstration Gardens | Mojave Water Agency | | Y | Y | Design/Implementable | 8 | H | H | 1 |
| 6 | Arsenic and Metering Project | Bar-Len Mutual Water Company | | Y for now, please submit backup reports from DPH to give detail on well locations and cost estimates. Need statewide priorities, program preferences or RMS. | Y | Conceptual | 7 | H | H | 1 |
| 13 | Camp Cady: Tamarisk removal and riparian restoration | Mojave Desert Resource Conservation Dist.(MDRCD) | | Y | Y | Implementable Project | 8 | H | H | 1 |
| 14 | Cedar Street Detention/Recharge Basin | City of Hesperia/Mojave Water Agency | 2 applications - one from MWA and one from Hesperia - also Cedar Street Detention Basin - 2004 RWMP | Y | Y | Conceptual Design | 9 | H | H | 1 |
| 15 | Center Water Company Wells, Infrastructure & Storage Project | Center Water Company | | Y | Y | Conceptual Implementable Program | 3 | H | H | 1 |
| 16 | Channel Dredging and Vegetation Removal | Baja Sub-Advisory Committee | | Y | Y, confirm that MWA is project proponent for Baja Sub-Advisory Committee? | Conceptual | 9 | H | H | 1 |
| 19 | Conceptual Planning for Hinkley's Community Drinking Water System | Mojave Water Agency/Hinkley Partnership for Healthy Living | Hinkley Water Supply Augmentation by SCWC - 2004 RWMP | Y | Y | Conceptual | 7 | H | H | 1 |
| 22 | Deep Creek Off-River Recharge And Storage Basins | Mojave Water Agency | Same project as the Recharge Facilities South of Apple Valley from the 2004 RWMP | no RMS | Y | Conceptual Design | 1 | H | H | 1 |
| 23 | Desert Demonstration Garden | Newberry Community Services District | | Y for now, but please submit planned site for demo garden. | Y | Conceptual | 7 | H | H | 1 |

Mojave Region IRWM Plan Potential Projects (Preliminary Ranked Listing by Tiers)

| Project No. | Project Title | Lead Agency/Organization | Comments/Review Questions | Project Submittal Acceptable (Y/N) or Need more Info? | Project Pass Screening Criteria? | Project Type | Primary Objective | Importance | Urgency | Tier for Ranking |
|-------------|--|---|--|--|----------------------------------|---|-------------------|------------|---------|------------------|
| | | | | | | | | | | |
| 27 | Dry Well Installation Program, Town wide, Town of Apple Valley | Town of Apple Valley | | Y | Y | Implementation of Program, New Phase of ongoing Program | 9 | H | H | 1 |
| 29 | Forks Dam Storm Water Detention | Mojave Water Agency | | Y | Y | Conceptual | 9 | H | H | 1 |
| 35 | Indian Cove Stormwater Capture and Recharge Project | Twentynine Palms Water District/Joshua Basin Water District | | Y | Y | Conceptual - | 9 | H | H | 1 |
| 36 | Infrastructure Improvements Projects | Joshua Basin Water District | | Y | Y | Planning, design and construction | 7 | H | H | 1 |
| 37 | Interconnection with Apple Valley Ranchos Water Company | Golden State Water Co - Apple Vly South | | Need statewide priorities, program preferences or RMS. | Y | Study, design, facilities | 3 | H | H | 1 |
| 42 | Johnson Valley Pressurized Water System | BDVWA | | Y | Y | Conceptual | 7 | H | H | 1 |
| 43 | Kane Wash Spreading Basins | MWA | Submitted by Wayne Snively and Linda Deluca Snively also from 2004 RWMP (Kane Wash Recharge Ponds) | Y | Y | Conceptual | 9 | H | H | 1 |
| 44 | Lucerne Valley Small Water Systems Feasibility Study | LVEDA | | Y, integrate with BDVWAs Project #60? | Y | Feasibility Study | 7 | H | H | 1 |
| 49 | Mojave River Walk Trail | Mojave Water Agency | Project proponent is City of Victorville. Is there another submitted by MWA? | Y | Y | Conceptual | 8 | H | H | 1 |
| 52 | New Well - Kiowa Well No. 1 | Golden State Water Co - Apple Vly South | | Need statewide priorities, program preferences or RMS. | Y | Implementable Project | 7 | H | H | 1 |
| 53 | Oro Grande Region Flood Control - Riparian Protection | Mojave Desert Resource Conservation Dist.(MDRCD) | | Y | Y | Design/Implementable | 9 | H | H | 1 |
| 54 | Oro Grande Wash Groundwater Recharge Project | Mojave Water Agency | | Y | Y | Implementable Project | 1 | H | H | 1 |
| 56 | R3-ASR | Mojave Water Agency | 2004 RWMP project: Injection Wells in Victorville Area Water Treatment and Blending. | Y | Y | Conceptual Implementable Project | 1 | H | H | 1 |
| 58 | Regional Aquifer Recharge Capacity | Mojave Water Agency | | Y | Y | Conceptual | 9 | H | H | 1 |

Mojave Region IRWM Plan Potential Projects (Preliminary Ranked Listing by Tiers)

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|-------------|---|--|---|---|--|--|-------------------|------------|---------|------------------|
| | | | | | | | | | | |
| 59 | Regional Flood Control/Flood Management Plan | Mojave Water Agency | | Y | Y | Design; planning document | 9 | H | H | 1 |
| 60 | Reorganization between two adjacent small water agencies (BDVWA and CSA 70 Zone W-1 [Landers]) | Bighorn-Desert View Water Agency | Customers of CSA 70/Zone W-1 Landers have inquired about reorganization with BDVWA. LAFCO has granted the SOI, and BDVWA already serves some W-1 customers. | Y, possibly integrate with Lucerne's Project #44? | Y | Conceptual - Restructuring of agencies | 7 | H | H | 1 |
| 63 | Sheep Creek Wash Storm Water Retention | Phelan Piñon Hills Community Services District | Sheep Creek Recharge Ponds - 2004 RWMP | Y | Y | Conceptual | 9 | H | H | 1 |
| 64 | Silver Lakes Association Stormwater Debris - retention basin, Buckthorn Wash at Mountain Springs Road | Silver Lakes Association | | Different than 2004 RMWP project called "In-Lieu Supply to Silver Lakes" - #45. | Y | Conceptual, Design, Construct | 9 | H | H | 1 |
| 68 | Storm Water Retention and Percolation in Hondo Wash | Bighorn Desert View Water Agency and Mojave Water Agency (?) | | Y | Y | Conceptual | 9 | H | H | 1 |
| 69 | Supervisory Control and Data Acquisition (SCADA) System for Operations and Security | Bighorn-Desert View Water Agency | | Y | Y | Conceptual | 7 | H | H | 1 |
| 73 | Twentynine Palms Groundwater Protection Plan Septic System Management Element (SSME) | Twentynine Palms Water District/City of Twentynine Palms | | Y | Y | Implementable Project - Groundwater Protection | 7 | H | H | 1 |
| 74 | Water Infrastructure Restoration Program: Pipeline Installation/Replacement Project | Bighorn-Desert View Water Agency | | Y | Y | Conceptual from BDVWA 2007 Water Master Plan | 7 | H | H | 1 |
| 79 | Watershed Educational Awareness Project | MWA | | Consider integrating with Project #50 for better scoring. | Y, confirm that MWA is project proponent for this project? | Conceptual | 9 | H | H | 1 |
| 83 | Yermo CSD - Upgrade Water System | Yermo Community Services District | | Y, will need more backup eventually for how costs were derived. | Y | Conceptual | 7 | H | H | 1 |
| 7 | Assistance Program for Small Drinking Water Systems | Mojave Water Agency | | Y | Y | Conceptual | 11 | H | M | 2 |
| 17 | City of Victorville VSD 4 Sewer Lift Station | City of Victorville | | Y | Y | Design | 10 | H | M | 2 |

Mojave Region IRWM Plan Potential Projects (Preliminary Ranked Listing by Tiers)

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|-------------|---|--|---|---|---|---|-------------------|------------|---------|------------------|
| | | | | | | | | | | |
| 21 | Dairy Nitrate Reduction | Mojave Desert Resource Conservation Dist.(MDRCD) | | Y, consider evaluating project for Tier 1 objectives to improve ranking. Consider DACs. | Y | Implementable – in association with the IRWMP Salt Mgt. Plan - with Lahontan concurrence | 10 | H | M | 2 |
| 26 | Domestic Water Well System Assistance Program | Baja Sub-Advisory Committee | | Y | Y, confirm that MWA is project proponent for Baja Sub-Advisory Committee? | Conceptual | 11 | H | M | 2 |
| 31 | Helendale CSD - WWTP Effluent Distribution System | Helendale Community Services District | | Y | Y | Conceptual | 14 | H | M | 2 |
| 32 | Helendale CSD Tertiary Treatment Upgrade | Helendale Community Services District | | Y | Y | Design, Construction | 10 | H | M | 2 |
| 33 | High Desert Demonstration Gardens | Mojave Water Agency | | Y | Y | Conceptual | 2 | H | M | 2 |
| 38 | JBWD Central Wastewater Treatment Plant Project | Joshua Basin Water District | | Y | Y | design and construction | 10 | H | M | 2 |
| 39 | JBWD CUWCC Compliance Project - Leak Detection | Joshua Basin Water District | District also submitted a form for "CUWCC Projects;" seems to include this project. | Y | Y | Planning, Design and Implementation of District-wide Leak Detection Program per CUWCC policies. | 13 | H | M | 2 |
| 61 | Reverse Osmosis Package Treatment Plant | City of Victorville | | Y | Y | Conceptual | 14 | H | M | 2 |
| 65 | State Water Project Utilization & Efficiency Strategy | Mojave Water Agency | | Y | Y | Conceptual | 4 | H | M | 2 |
| 72 | Twentynine Palms Fluoride Treatment Plant Expansion | Twentynine Palms Water District | | Y | Y | Implementable Project | 2 | H | M | 2 |
| 80 | Wellhead Treatment - Uranium | Bighorn-Desert View Water Agency | | Y | Y | Conceptual | 10 | H | M | 2 |

Mojave Region IRWM Plan Potential Projects (Preliminary Ranked Listing by Tiers)

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|-------------|--|--|--|--|--|---------------------------|-------------------|------------|---------|------------------|
| | | | | | | | Primary Objective | Importance | Urgency | Tier for Ranking |
| 34 | Hydroelectric Facility at Deep Creek to generate power for R3 ground water wells | Mojave Water Agency | | Need program preferences or RMS. | Y | Conceptual | 5 | M | M | 3 |
| 82 | Wrightwood Imported Water Project | Golden State Water Co - Wrightwood | | Need statewide priorities, program preferences or RMS. | Y | study, design facilities. | 5 | M | M | 3 |
| 2 | Allocation of water (?) | Submitted by Dean VanBasetlaar | | No objectives checked. Project appears to be related to overall challenges. | N | Conceptual | | | | |
| 8 | Baja Major Storm Diversion Network | Mojave Water Agency | combine with Project above (#9) - also Baja Storm Flow Retention – 2004 RWMP | N, same project as submitted by Baja sub-advisory (#9) but both applications each have objectives prioritized differently. Please coordinate and re-submit one application with the same prioritized objectives. Suggest promote stormwater obj. | N, after more project info is submitted, will be reviewed again. | Conceptual | | | | |
| 9 | Baja Storm Water Diversion and Retention Project | Baja Sub-Advisory Committee | combine with MWA project above (#8) - Baja Storm Flow Retention – 2004 RWMP | N, same project as submitted by MWA project (#8) but both applications each have objectives prioritized differently. Please coordinate and re-submit one application with the same prioritized objectives. | N, after more project info is submitted, will be reviewed again. | Conceptual | | | | |
| 10 | Baja Subarea Base Annual Production Right (BAP) Acquisition Program | Baja Sub-Advisory Committee | | Need more detail on how project would work. | N, after more project info is submitted, will be reviewed again. Also confirm that MWA is project proponent for Baja Sub-Advisory Committee? | Conceptual | | | | |
| 11 | Baja Water Budget | Mojave Water Agency, Military Bases, Fish and Wildlife?? | Submitted by private residents (Jim and Ellen Johnson) | Need statewide priorities. General project description isn't clear. | N, needs project proponent that has the capacity to implement the project. | Conceptual | | | | |
| 12 | Cadiz Valley Water Conservation, Recovery, and Storage Project | Cadiz Inc. | | Not clear what the project is for the IRWM Plan. | N, after more project info is submitted, will be reviewed again. | Implementable | | | | |
| 18 | Commercial/Industrial/Multi-Family Cash for Grass Program | Alliance for Water Awareness and Conservation | | Need analysis to show how cash for grass saves water. See comment for Project #78. | N, after more project info is submitted, will be reviewed again. | Implementable Project | | | | |
| 20 | Continual rampdowns in the Baja Sub Basin | Watermaster and all Stakeholders?? | Submitted by private residents (Jim and Ellen Johnson) | N, general project description may need additional info. | N, project doesn't appear to be technically feasible. See Project #1 | Conceptual | | | | |

Mojave Region IRWM Plan Potential Projects (Preliminary Ranked Listing by Tiers)

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|-------------|---|--|--|--|--|--|-------------------|------------|---------|------------------|
| | | | | | | | | | | |
| 24 | Desert Wash Protection -Watershed Enhancement | ?? | Submitted by Jenny Wilder, Apple Valley resident | N, project unclear | N, project doesn't appear to be technically feasible. | Conceptual | | | | |
| 25 | Direct Delivery of State Project Water to Agricultural Uses (Baja Sustainability Initiative #1) | Mojave Water Agency | | Project description needs additional explanation. | N, after more project info is submitted, will be reviewed again. | Conceptual | | | | |
| 28 | Fair Taxation of Water Rights Acquired Outside the Original Adjudication | Submitted by Pauline Hass | | N, need more info. Objectives page missing from project submittal. Project appears to be related to overall challenges or a direct inquiry to MWA. | N, needs project proponent that has the capacity to implement the project. | Conceptual | | | | |
| 30 | Groundwater Education Program | Baja Sub-Advisory Committee | | N, project need isn't clear. Consider integration with other education projects? | N, after more project info is submitted, will be reviewed again. | Conceptual | | | | |
| 40 | JBWD Graywater & Rainwater Harvesting Project | Joshua Basin Water District | | N, project description isn't clear. Needs detail about implementation and how much water would be saved. | N, after more project info is submitted, will be reviewed again. | Conceptual and Implementation Project | | | | |
| 41 | JBWD Stormwater Recovery Project | Joshua Basin Water District | | N, project description isn't clear. Have studies been completed? | N, after more project info is submitted, will be reviewed again. | Design, Environmental and Construction | | | | |
| 45 | Mesa Tank #4, Well #5, Well Generators, Booster Station Generator, etc. | Apple Valley Heights County Water District | | N, please confirm project is <u>NOT</u> within DAC boundary? | N, after more project info is submitted, will be reviewed again. | Implementable | | | | |
| 46 | Mojave Water Basin Judgment and how it affects Baja | Mojave Water Agency? | Submitted by private residents (Jim and Ellen Johnson) | Unclear whether this is actually supported by MWA. See Projects #8 & #9 and integrate with those. All of these projects appear similar. | Conceptual | Conceptual | | | | |
| 47 | Mojave River Baja Subarea Flood Control Basin Storage | Mojave Water Agency?? | Submitted by Wayne Snively and Linda Deluca Snively | Unclear whether this is actually supported by MWA. See Projects #8 & #9. All of these projects appear similar. | N, needs project proponent that has the capacity to implement the project. | Conceptual | | | | |
| 48 | Mojave River Dam-Deep Creek Spillway Wetlands restoration | ?? | Submitted by: Jenny Wilder, Apple Valley resident | Y | N, needs project proponent that has the capacity to implement the project. | Conceptual | | | | |
| 50 | Morongo Basin Cooperative Projects | Joshua Basin Water District | | N, project description unclear. Need detail for project and how much water would be saved. | N, project doesn't appear to be technically feasible. | Planning, design and construction | | | | |

Mojave Region IRWM Plan Potential Projects (Preliminary Ranked Listing by Tiers)

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|-------------|--|--|---|--|--|-----------------------------------|-------------------|------------|---------|------------------|
| | | | | | | | | | | |
| 51 | Multi-Jurisdictional Technology Integration Project | Joshua Basin Water District | | N, consider integrating with Project #60? | N, suggest integrating with Project #60. | Planning, design and construction | | | | |
| 55 | Pipeline | Farmers Home Administration?? | Submitted by private residents (Jim and Ellen Johnson) | Most information filled out, but project itself is unclear | N, project doesn't appear to be technically feasible. | Conceptual | | | | |
| 57 | Recycled Water Distribution System | City of Hesperia | | Where would recycled water go without distribution system? Objectives met? | N, after more project info is submitted, will be reviewed again. | Conceptual Design | | | | |
| 62 | San Bernardino County and the Mojave Water Agency water conservation | San Bernardino County and MWA?? | Submitted by private residents (Jim and Ellen Johnson) | N, have the two agencies been contacted and are they in support of this project? If not, project will be screened out. | N, Need to confirm project has backing of agencies that would implement project. | Conceptual | | | | |
| 66 | State Water Project Water Treatment Plant in conjunction with R3 project | Mojave Water Agency | 2004 RWMP Project Regional Surface Water Treatment Plant. | N, project form needs completion so benefits of project can be determined. Need objectives checked. | N, after more project info is submitted, will be reviewed again. | Conceptual | | | | |
| 67 | Stipulated Pistachio Orchards | Newberry Springs Hi-Desert Pistachio Association | Submitted by private residents (Jim and Ellen Johnson) | N, project unclear. | N, project doesn't appear to be technically feasible. | Conceptual | | | | |
| 70 | Supplemental Water | Watermaster and Fish and Wildlife?? | Submitted by private residents (Jim and Ellen Johnson) | General project description may need additional info. | N, needs project proponent that has the capacity to implement the project. | Conceptual | | | | |
| 71 | The Baja Sustainability Initiative | Mojave Water Agency | | This Initiative has been broken into four different projects within this list. | N, see individual projects. | Conceptual | | | | |
| 75 | Water retention in the lower basin | Unknown | Submitted by private residents (Jim and Ellen Johnson) | Y | N, suggest integration with Project #43. | Conceptual | | | | |
| 76 | Water Transfers | Stipulators in Baja | Submitted by private residents (Jim and Ellen Johnson) | General project description may need additional info. | N, needs project proponent that has the capacity to implement the project. | Conceptual | | | | |
| 77 | Water Treatment Plant | Golden State Water Co - Barstow | | Not clear why Project is needed. Need statewide priorities, program preferences or RMS. | N, after more project info is submitted, will be reviewed again. | study, design facilities. | | | | |
| 78 | Water University | Alliance for Water Awareness and Conservation | | Need Water Use Efficiency Strategic Plan or Water Conservation Plan data to determine how much water would be saved. | N, after more project info is submitted, will be reviewed again. | Implementable program | | | | |

Mojave Region IRWM Plan Potential Projects (Preliminary Ranked Listing by Tiers)

| Project No. | Project Title | Lead Agency/Organization | Comments/Review Questions | Project Submittal Acceptable (Y/N) or Need more Info? | Project Pass Screening Criteria? | Project Type | Primary Objective | Importance | Urgency | Tier for Ranking |
|-------------|------------------------------|---|--|---|--|-----------------------|-------------------|------------|---------|------------------|
| 81 | Wells/declining water levels | Small ag, domestic, and minimal producers | Submitted by private residents (Jim and Ellen Johnson) | General project description may need additional info. | N, project doesn't appear to be technically feasible. Also, exactly what the project is isn't clear. | Conceptual | | | | |
| 84 | Yermo Hellbro | Yermo Community Services District | | Project described as implementable, but no info on costs or status. Need program preferences. | N, after more project info is submitted, will be reviewed again. | Implementable Project | | | | |
| 85 | Yermo Marine Two | Yermo Community Services District | | Project described as implementable, but no info on costs or status. Need program preferences. | N, after more project info is submitted, will be reviewed again. | Implementable Project | | | | |

Opportunities for Integration and Second Round Call for Projects

Mojave Integrated Regional Water Management Plan

2nd CALL FOR PROJECTS - PROJECT PROPOSALS DUE SEPTEMBER 12, 2013

If you have a water-related project proposal that you wish to be included and evaluated in the IRWM Plan that you did NOT submit during the first “Call for Projects” due on August 1, 2013, please use the Project Identification Forms. The Project Submittal Instructions explain the submittal process and the two types of forms available are available on the Mojave website (www.mywaterplan.com).

There are two available project forms for submitting a project –

1. A **short form** used for a conceptual project idea or a project not fully developed yet.
2. A **long form** used for a more defined project that has gone through stages of planning and design and is ready for construction or implementation.

Project proponents can fill out the appropriate form of their choice and must provide as much of the project information requested in the form as possible. The information will be reviewed by the Project Team using the screening process outlined during the June 6 meeting (see link below). Project proponents are expected to collect and assemble project-specific information for projects to be considered for inclusion in the Mojave Region IRWM Plan Update.

It is acceptable if not all of the blanks are filled in on either form but the proponent should try to complete as many as possible to allow the reviewers to make appropriate screening decisions in a timely manner.

I. Integration Highly Recommended

We highly recommend that those submitting new projects (or updating an existing IRWM Plan project) look for and review other projects in the Region to see if there are opportunities to team up and create an integrated and multipurpose project. Contact the Mojave website (www.mywaterplan.com) for help in finding other projects that may be complementary to or supportive of your project.

If you choose to combine some projects into an integrated project, please indicate which previous project submittals are being replaced.

II. 2013 IRWM Plan Update - Project Review Process

All projects to be included in the 2013 IRWM Plan Update will undergo review. A summary of the process for project review, screening, and prioritization to be used for all project submittals is in Meeting #4 (August 20, 2013) Handout 4 at www.mywaterplan.com/meetings.

Summary of Requested Review, Comments and Input

Mojave Integrated Regional Water Management Plan

Thank you for helping develop the Mojave IRWM Plan. Your input is appreciated and essential to development of a successful and meaningful document. If you would like to provide comments and suggestions to the draft materials presented during Meeting 4, please send your questions, comments, or suggestions to the Plan Development Team by **Friday, August 30, 2013** to **comments@mywaterplan.com** on the following items (when submitting comments, please submit as a Word document or as email text with the handout # or section #, page #, and paragraph # included for each comment.):

Draft Water Supply and Demand Section (available on the Mojave IRWM Plan website at: <http://www.mywaterplan.com/irwm-plan-documents.html>).

- Does the content shown in the Water Supply and Demand Section provide a representative description of the current and future conditions for the Mojave Region? If not, please describe why you do not believe the information is representative.
- Are the listed information sources appropriate (meaning, are the sources credible, current, and accurate)?
- Would you like to recommend additional data sources? If yes, what are they?

Handout 3: Draft Refined and Prioritized Plan Objectives

- Are these objectives (and their priorities) appropriate for the Mojave IRWM Planning Region?
- If no, what would you like to be changed?

Handouts 5a, 5b, and 5c: Project Lists Sorted

- Have your project submittals been represented accurately? If not, what corrections are needed?
- Does the Handout 5a or 5b indicate that your project submittal requires more information before it can be considered a viable project? If yes, please **re-submit your project form** with the needed information indicated on Handout 5a or 5b to the IRWM Plan project website.
- Do you believe that any of the proposed project priorities should be adjusted? If yes, please describe what you think the priority should be and why.
- If you submitted multiple projects and they received similar importance and urgency ratings based on a shared objective, would you like to emphasize the importance or urgency of some of your projects over others that you submitted?

- Are there any projects submitted that you believe should not be included in the Mojave IRWM Plan? If yes, then please describe why you feel the proposed project should not be included.

Please e-mail your comments on the above materials by **Friday, August 30, 2013** to comments@mywaterplan.com. Please put “Mojave IRWM – Mtg 4 comments” in the subject line. When submitting comments, please submit as a word document or as email text with the handout # or section #, page #, and paragraph # included for each comment.