DOCKETED

Docket Number:	97-AFC-01C
Project Title:	High Desert Power Plant
TN #:	213726
Document Title:	2015 Urban Water Management Plan Appendix D Part 3 of 4
Description:	N/A
Filer:	Deric Wittenborn
Organization:	Ellison, Schneider & Harris LLP
Submitter Role:	Applicant
Submission Date:	9/19/2016 3:21:12 PM
Docketed Date:	9/19/2016

Appendix D

Projects

Part 3 of 4

*PART 2: PROJECT NEED**

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Mojave IRWM Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Barstow Community College (BCC) was built at its present location in Barstow, CA in 1964. The campus is located on 165 acres in the center of the High Desert in San Bernardino County. There are 14 buildings and over 177,000 gross square feet of educational facilities with an enrollment of over 3,000 students. BCCD provides transfer and vocational education for the area.

Barstow Community College, with the assistance of Mojave Water Agency and Southern California Water Company, and other local contributors, created a Desert Demonstration Garden project in 2007. This collaborative project was designed and kicked-off with limited funding. This was able to build the garden to 60-70% with the anticipation of future funding for a complete project. The (60-70%) completed scope was the demonstration garden located near the front of campus on a portion of walk alongside Barstow Road. The remaining 30-40% of the scope, that has been designed, is to complete the demonstration walkthrough of the perimeter of the campus and include the connection of the neighboring homes for an introduction to the garden. The completion of the Barstow Community College garden project will give way to a High Desert regional concept. This vision will include other agencies with Desert Demonstration Gardens. This High Desert Regional concept will include Mojave Water Agency, Victor Valley College, Newberry community, Helendale community, and others.

In June 2013, an irrigation study was conducted and recommendations given by Dave Bigler Associates. The findings reflect an inefficient and outdated irrigation system with no central monitoring system. A Smart Irrigation Control system would conserve water at a rate of 20-40% baseline savings. This system, along with efficient sprinkler nozzles, would generate savings, rebates, and provide an environment to be used as a conservation learning canvas for the High Desert region, the local community, campus staff, and students.

*PART 3: PROJECT DESCRIPTION**

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/ implemented, how the constructed project will function, and treatment methods, as appropriate.

Water Conservation/ Sustainability:
Water conservation and budget constraints create a demand to mitigate usage of water. With the introduction of efficient water irrigation systems, water budgets and water use will naturally decline. BCCD's Irrigation Evaluation report reflects the need to eliminate poor performing manual equipment and its components. This proposed project introduces Smart Controllers to maximize irrigation control of water use during the extreme environment condition and helps to manage water use in a normal environment as well.

Completion of Demonstration Garden:
The remaining scope of the Garden has been designed and the need to complete the demonstration walk along the perimeter of the campus would complete the vision for a water conservation walk to include the connection of the neighboring homes that introduces the community to the demonstration garden. The completion of the Barstow Community College garden project will give way to a High Desert regional concept.

Implementation of recommendations of the Irrigation report, Smart Controllers/Efficient sprinklers nozzles (Irrigation Sustainability):
The advantage of a central computer controller system is that the runtimes for each station on each controller are updated daily to reflect the current water demand based upon the prevailing weather conditions. At this time with dozens of hand controls it takes up to 2 days to turn off the units and run times adjustments are cumbersome. Smart Controllers would create an efficient schedule and give the ability to accommodate micro bursts and downpours of rain.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

-
-
-
-

Please identify up to three available documents which contain information specific to the proposed project and associated benefits (this information helps determine the technical justification and feasibility):

- Design documents to show the complete Demonstration Garden
- Irrigation System Evaluation/ Findings document dated June 2013
-

How do you rate the technical feasibility of the proposed project?

☒ High	The technical feasibility is well-documented and is based on similar successful projects and/or the project uses common and widely accepted technology/practices and/or the project includes or is based on pilot studies or similar results.
☐ Medium	The project does not use common or widely accepted technology/practices, but substantial documentation is available on proposed benefits and project success.
☐ Low	The project has not been done before and technical feasibility is not adequately documented.

PART 4: IRWM PLAN OBJECTIVES ADDRESSED BY PROJECT *

Describe how the project meets any of the following Mojave IRWM Plan Objectives:

Mojave IRWM Plan Objective	Contribution			Description
1. 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.	☐ Primary	☐ Secondary	☐ NA	
3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.	☐ Primary	☐ Secondary	☐ NA	
7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.	☐ Primary	☐ Secondary	☐ NA	
8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.	☒ Primary	☐ Secondary	☐ NA	
9. Improve stormwater management throughout the Plan area.	☐ Primary	☐ Secondary	☐ NA	
2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.	☐ Primary	☒ Secondary	☐ NA	

Mojave IRWM Plan Objective	Contribution			Description
10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.	☐ Primary	☐ Secondary	☐ NA	
11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.	☐ Primary	☐ Secondary	☐ NA	
13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.	☐ Primary	☐ Secondary	☐ NA	
14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.	☐ Primary	☐ Secondary	☐ NA	
4. 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.	☐ Primary	☐ Secondary	☐ NA	
5. 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.	☐ Primary	☐ Secondary	☐ NA	
12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.	☐ Primary	☒ Secondary	☐ NA	

Mojave IRWM Plan Objective	Contribution			Description
6. Prevent land subsidence throughout the Region.	☐ Primary	☐ Secondary	☐ NA	

*PART 5: RESOURCE MANAGEMENT STRATEGIES**

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands	
☐ Primary ☐ Secondary ☐ NA	Agricultural Water Use Efficiency
☒ Primary ☐ Secondary ☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers	
☐ Primary ☐ Secondary ☐ NA	Conveyance – Delta, Regional/Local
☐ Primary ☐ Secondary ☐ NA	System Reoperation
☐ Primary ☐ Secondary ☐ NA	Water Transfers
☐ Primary ☐ Secondary ☐ NA	Other (Please State):_____
Increase Water Supply	
☐ Primary ☐ Secondary ☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary ☐ Secondary ☐ NA	Desalination – Brackish/Seawater
☐ Primary ☐ Secondary ☐ NA	Precipitation Enhancement
☐ Primary ☐ Secondary ☐ NA	Recycled Municipal Water
☐ Primary ☐ Secondary ☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary ☐ Secondary ☐ NA	Other (Please State): _____
Improve Water Quality	
☐Primary ☐Secondary ☐ NA	Drinking Water Treatment and Distribution
☐ Primary ☐ Secondary ☐ NA	Groundwater/Aquifer Remediation
☐ Primary ☐ Secondary ☐ NA	Matching Quality to Use
☐ Primary ☐ Secondary ☐ NA	Pollution Prevention
☐ Primary ☐ Secondary ☐ NA	Salt and Salinity Management

☐ Primary ☐ Secondary ☐ NA	Urban Runoff Management
☐ Primary ☐ Secondary ☐ NA	Other (Please State) ____

Practice Resource Stewardship	
☐ Primary ☐ Secondary ☐ NA	Agricultural Lands Stewardship
☐ Primary ☐ Secondary ☐ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary ☐ Secondary ☐ NA	Ecosystem Restoration
☐ Primary ☐ Secondary ☐ NA	Forest Management
☐ Primary ☐ Secondary ☐ NA	Land Use Planning and Management
☐ Primary ☐ Secondary ☐ NA	Recharge Areas Protection
☐ Primary ☐ Secondary ☐ NA	Water-Dependent Recreation
☐ Primary ☐ Secondary ☐ NA	Watershed Management
☐ Primary ☐ Secondary ☐ NA	Other (Please State): _____
Improve Flood Risk Management	
☐ Primary ☐ Secondary ☐ NA	Flood Risk Management
Other Strategies	
☐ Primary ☐ Secondary ☐ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

*PART 6: PROJECT READINESS**

Item	Status (e.g., not initiated, in process, complete, N/A)	Expected Completion Date
Conceptual Plans	Complete	_____ (mm/dd/yyyy)
Feasibility Study	Complete	_____ (mm/dd/yyyy)
Preliminary Design and Cost Estimates	Complete	_____ (mm/dd/yyyy)
CEQA/NEPA	N/A	_____ (mm/dd/yyyy)
Permits	N/A	_____ (mm/dd/yyyy)
Construction Drawings	N/A	_____ (mm/dd/yyyy)

Funding	TBD	_____ **(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project's readiness-to proceed.

N/A

Have funding sources been identified for implementation of the project? Please provide a brief explanation.

*PART 7: PROJECT BENEFITS**

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Water conservation and budget constraints create a demand to mitigate usage of water. With the introduction of efficient water irrigation systems, water budgets and water use will naturally decline. BCCD's Irrigation Evaluation report reflects the need to eliminate poor performing manual equipment and its components. This proposed project introduces Smart Controllers to maximize irrigation control of water use during the extreme environment condition and helps to manage water use in a normal environment as well.

Irrigation sustainability: the advantage of a central computer controller system is that the runtimes for each station on each controller are updated daily to reflect the current water demand based upon the prevailing weather conditions. At this time, with dozens of hand controls, it takes up to 2 days to turn off the units and runtime adjustments are cumbersome. Smart Controllers would create an efficient schedule and give the ability to accommodate micro bursts and downpours of rain.

The Garden's remaining scope has been designed and is in need to complete demonstration walk through the perimeter of the campus that would include the connection of the neighboring homes to the demonstration garden for water conservation education. The completion of the Barstow Community College garden project will give way to a High Desert regional demonstration garden concept.

Does the project address environmental justice issues (including helping reduce inequitable distribution of environmental burdens and access to environmental goods)? ☐ **Yes** ☐ **No** ☒ **Not Sure**
Does the project address critical water issues (including water supply or water quality) of a disadvantaged community? **Yes** ☒ **No** ☐ **Not Sure**
Does the project provide specific benefits to critical water issues for Native American tribal communities? ☐ **Yes** ☒ **No** ☐ **Not Sure** **If yes, please identify the tribal community:** _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☒	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☒	Increases Water Use and/or Reuse Efficiency	
☐	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☒	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☒	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	

☐	Improves Water System Energy Efficiency
☐	Advances/Expands Water Recycling
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
☐	Promotes Use of Renewable Energy Sources
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)
☐	Other (Please State):

PART 8: PROJECT COST ESTIMATE

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 100,000

Upper estimated total capital cost ($): 50,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): 0

Annual Operation and Maintenance Cost ($): _____

Design Life of Project (years): 25+

Economic Feasibility

Is the project cost-effective?		
☒ Yes	☐ No	☐ Not Sure
Does the project have a positive benefit-cost ratio?		
☒ Yes	☐ No	☐ Not Sure

Project No. 121

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

General Information (Required)				
Project Name:	Rehabilitate pre-1960 pipelines			
Project Sponsor:	Lake Arrowhead CSD			
If Joint Project, Other Partners:				
Project Website (if available):				
Project Contact Person:	Phone	FAX	Email	
Leo Havener	909-336-7102	909-337-3145	lhavener@lakearrowheadcsd.com	
Project Description				
Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)				
Implementable projects				
Project Description (1 -2 sentences):				
Miles of old wastewater pipelines are in need of rehabilitation.				
Project Integration (Describe how the project does or could integrate with other projects in the Region):				
The rehabilitated pipelines will keep potentil wastewater from entering freash water streams.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):				
Wastewater Master Plan				
Project Location				
Descriptive (Description of property location etc.):				
Lake Arrowhead				
Latitude/Longitude - info available at:	http://geocoder.us/	Lat:	Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Estimated Cost:		<$100K ☐	$100K - $1M ☐	$1M - $10M ☐	>$10M ☑
Project Status (Check all that apply).		Conceptual ☐	In-Design ☑	Ready to Implement ☐	CEQA Complete ☐ N/A ☐
Estimated Year of Completion:				
2025				

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
DACs Involvement *Y/N:*	No			
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):	Possible, 300 acres in Hesperia			
Stormwater: *Reduction in Flood Damage (Y/N):*		Multi-benefit Y/N:		
Multi-stakeholder project/regional collaboration *Y/N:*	Yes			
Climate Change: *Helps assess potential impacts (Y/N):*	No			
Environmental Stewardship/Public Awareness *Direct Benefits:*	Improve water quality and fewer wastewater spills			
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☑	1. 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.
☐	☑	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☑	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☑	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☑	9. Improve stormwater management throughout the Plan area.
☑	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☑	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☑	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☑	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☑	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☑	4. 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.
☑	☐	5. 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.
☐	☑	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☑	6. Prevent land subsidence throughout the Region.

Statewide Priorities	
☐	Drought Preparedness
☑	Use and Reuse Water More Efficiently
☐	Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
☑	Expand Environmental Stewardship
☐	Practice Integrated Flood Management
☑	Protect Surface and Groundwater Quality
☐	Improve Tribal Water and Natural Resources
☐	Ensure Equitable Distribution of Benefits

Program Preferences	
☑	Include Regional Projects or Programs
☑	Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
☐	Effectively Resolve Significant Water-Related Conflicts within or between Regions
☐	Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
☐	Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
☐	Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies			
☐	Agricultural Lands Stewardship	☐	Pollution Prevention
☐	Agricultural Water Use Efficiency	☐	Precipitation Enhancement
☑	Conjunctive Management and Groundwater Storage	☐	Recharge Areas Protection
☐	Conveyance - Delta, Regional/Local	☑	Recycled Municipal Water
☐	Desalination - Brackish & Seawater	☐	Salt & Salinity Management
☑	Drinking Water Treatment and Distribution	☐	Surface Storage - CALFED
☑	Economic Incentives	☑	Surface Storage - Regional/Local
☐	Ecosystem Restoration	☐	System Reoperation
☐	Flood Risk Management	☐	Urban Runoff Management
☐	Forest Management	☐	Urban Water Use Efficiency
☑	Groundwater/Aquifer Remediation	☑	Water Transfers
☐	Land Use Planning & Management	☐	Water-Dependent Recreation
☑	Matching Water Quality to Water Use	☑	Watershed Management

Project No. 122

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Effluent Outfall Replacement Project		
Project Sponsor:	Lake Arrowhead Community Services District		
If Joint Project, Other Partners:			
Project Website (if available):			
Project Contact Person:	Phone	FAX	Email
Leo Havener	909-336-7102	909-337-3145	lhavener@lakearrowheadcsd.com

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

Conceptual

Project Description (1 -2 sentences):

Replace and upsize the existing effluent outfall pipeline, which travels approximately ten (10) miles and drops 1,200 feet in elevation to property owned by LACSD in Hesperia.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

The LACSD property in Hesperia is used to recharge the groundwater basin. During an average year LACSD recharges the Hesperia basin with approximately 1,200 acre feet of water. With a larger outfall pipeline LACSD could provide more water for Hesperia basin recharge.

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

LACSD - 2008 Wastewater Facilities Master Plan

Project Location

Descriptive (Description of property location etc.):

LACSD recharge facilities are located on 300 acres located on Arrowhead Lake Road in Hesperia, directly ajoining Hesperia Lake Park and Campgrounds.

Latitude/Longitude - info available at: http://geocoder.us/	Lat:	Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:	<$100K	$100K - $1M	$1M - $10M	>$10M
	☐	☐	☐	☑

Project Status (Check all that apply):	Conceptual	In-Design	Ready to Implement	CEQA Complete	N/A
	☑	☐	☐	☐	☐

Estimated Year of Completion: Unknown at this time.

Project Benefits						
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐	1-100 AF	☐	100-1000AF	☐	1000+ AF
Water Supply: *New Supply Created (AFY)* (Check one)	☐	1-100 AF	☐	100-1000AF	☑	1000+ AF
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐	1-100 AF	☐	100-1000AF	☐	1000+ AF
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐	1-100 AF	☐	100-1000AF	☑	1000+ AF
DACs Involvement	*Y/N:*	No				
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):		No				
Stormwater:	*Reduction in Flood Damage (Y/N):*	Yes	Multi-benefit Y/N:	Yes		
Multi-stakeholder project/regional collaboration	*Y/N:*	Yes				
Climate Change:	*Helps assess potential impacts (Y/N):*	No				
Environmental Stewardship/Public Awareness	*Direct Benefits:*	Yes				

Other: *(Describe X amount of benefit)*

The existing effluent outfall pipeline is over 40 years old and in need of replacement. If the pipeline were to fail LACSD water will not reach the Hesperia recharge basin, there could be a massive spill, and envornmental damage.

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☑	☐	1. 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.
☑	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☑	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☑	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☑	9. Improve stormwater management throughout the Plan area.
☐	☑	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☑	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☑	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☑	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☑	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☑	☐	4. 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.
☑	☐	5. 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.
☑	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☑	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- ☐ Drought Preparedness
- ☑ Use and Reuse Water More Efficiently
- ☐ Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- ☑ Expand Environmental Stewardship
- ☐ Practice Integrated Flood Management
- ☑ Protect Surface and Groundwater Quality
- ☐ Improve Tribal Water and Natural Resources
- ☐ Ensure Equitable Distribution of Benefits

Program Preferences

- ☐ Include Regional Projects or Programs
- ☑ Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☑ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☐ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☑ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

☐ Agricultural Lands Stewardship	☑ Pollution Prevention
☐ Agricultural Water Use Efficiency	☐ Precipitation Enhancement
☑ Conjunctive Management and Groundwater Storage	☑ Recharge Areas Protection
☑ Conveyance - Delta, Regional/Local	☐ Recycled Municipal Water
☐ Desalination - Brackish & Seawater	☐ Salt & Salinity Management
☐ Drinking Water Treatment and Distribution	☐ Surface Storage - CALFED
☐ Economic Incentives	☐ Surface Storage - Regional/Local
☐ Ecosystem Restoration	☐ System Reoperation
☑ Flood Risk Management	☐ Urban Runoff Management
☑ Forest Management	☐ Urban Water Use Efficiency
☑ Groundwater/Aquifer Remediation	☑ Water Transfers
☑ Land Use Planning & Management	☑ Water-Dependent Recreation
☐ Matching Water Quality to Water Use	☑ Watershed Management

Project No. 125

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Gage Tributary Washes		
Project Sponsor:	MWA		
If Joint Project, Other Partners:	Flood Control		
Project Website (if available):	N/A		
Project Contact Person:	Phone	FAX	Email
Tony Winkel	760-946-7037	760-240-2642	twinkel@mojavewater.org

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

Conceptual/Implementable Program

Project Description (1-2 sentences):

There has been ongoing discussion for years regarding storm water flow volume and basin contribution from ungagged desert washes. Simple gages could be installed at road under-crossings. These crossings often have concrete lined channels which makes them ideally suited as ready-made weirs for ephemeral stream gages. Place a pressure transducer in a one-foot steel pipe with holes drilled in it and bolt it to the side of the concrete channel and key washes could be accurately gaged for storm flow.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

Data gathered from this project would be invaluable to a variety of future technical studies and MWA Watermaster water budgets

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Project Location

Descriptive (Description of property location etc.):

Various - any and up to all appropriate desert washes throughout watersheds that effect the MWA service area

Latitude/Longitude - info available at:	http://geocoder.us/	Lat:	Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Estimated Cost:	<$100K ☑	$100K - $1M ☐	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):	Conceptual ☑	In-Design ☐	Ready to Implement ☑	CEQA Complete ☐ N/A ☐
Estimated Year of Completion:	2014 with ongoing additions as deemed appropriate			

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
DACs Involvement	*Y/N:*			
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				
Stormwater:	*Reduction in Flood Damage (Y/N):* Yes	Multi-benefit Y/N: Yes		
Multi-stakeholder project/regional collaboration	*Y/N:*	Yes		
Climate Change:	*Helps assess potential impacts (Y/N):*	Yes		
Environmental Stewardship/Public Awareness	*Direct Benefits:*			
Other: *(Describe X amount of benefit)* Numerous technical studies have attempted to quantify flow in desert washes. This project would eliminate the uncertainty inherant in these studies and provide actual and accurate data.				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☑	☐	1. 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.
☐	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☑	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☑	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☑	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☐	☐	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- ☐ Drought Preparedness
- ☐ Use and Reuse Water More Efficiently
- ☐ Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- ☐ Expand Environmental Stewardship
- ☐ Practice Integrated Flood Management
- ☐ Protect Surface and Groundwater Quality
- ☐ Improve Tribal Water and Natural Resources
- ☐ Ensure Equitable Distribution of Benefits

Program Preferences

- ☐ Include Regional Projects or Programs
- ☐ Effectively integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☑ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☐ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☐ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- ☐ Agricultural Lands Stewardship
- ☐ Agricultural Water Use Efficiency
- ☐ Conjunctive Management and Groundwater Storage
- ☐ Conveyance - Delta, Regional/Local
- ☐ Desalination - Brackish & Seawater
- ☐ Drinking Water Treatment and Distribution
- ☐ Economic Incentives
- ☐ Ecosystem Restoration
- ☑ Flood Risk Management
- ☐ Forest Management
- ☐ Groundwater/Aquifer Remediation
- ☑ Land Use Planning & Management
- ☐ Matching Water Quality to Water Use
- ☐ Pollution Prevention
- ☐ Precipitation Enhancement
- ☑ Recharge Areas Protection
- ☐ Recycled Municipal Water
- ☐ Salt & Salinity Management
- ☐ Surface Storage - CALFED
- ☐ Surface Storage - Regional/Local
- ☐ System Reoperation
- ☐ Urban Runoff Management
- ☐ Urban Water Use Efficiency
- ☐ Water Transfers
- ☐ Water-Dependent Recreation
- ☑ Watershed Management

Project No. 126

Mojave Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY ***September 12, 2013*** to **comments@mywaterplan.com**. Items denoted with an asterisk are required.

PART 1: LEAD IMPLEMENTING AGENCY/ORGANIZATIONAL INFORMATION

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *
Helendale Community Services District

Agency / Organization / Individual Address:
26540 Vista Road, PO Box 359, Helendale CA 92342

Possible Partnering Agencies:
Mojave Water Agency

Name:*
Paul Harmon

Title:
Assistant General Manager

Telephone:* 760-951-0006

Fax: 760-951-0046

Email:*
pharmon@helendalecsd.org

Website:
Helendalecsd.org

Project Name:*
Helendale Community Park Efficient Irrigation and Demonstration Garden

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34° 46' 03" N **Project Longitude:** 117° 19' 40" W

Location Description:	Helendale Community Park 15425 Wild Road, Helendale, CA 92342

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

-
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

New

Project Type (e.g., Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program):

Implementable Project

*PART 2: PROJECT NEED**

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Mojave IRWM Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Helendale Community Park is only partially constructed. Current irrigation is using temporary agricultural pipe connected to our Ag well to irrigate a small section of grass, which is highly inefficient from a water perspective, but also is man-hour intensive having to move pipe and manually turn on and off the Ag well. Further, the park has a blow sand problem that has contributed to large sand dunes and creates a hazard on Helendale Road and Wild Road, as well as damage to property fencing and buildings. Installing and maintaining grass fields will mitigate the blow sand and provide a community park play area for under-served children within the CSD boundary as well as provide a site for community sport activities besides conserving water over a standard irrigation system or current methods.

*PART 3: PROJECT DESCRIPTION**

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

Purchase and install a water efficient park irrigation system with a desert landscaping demonstration garden component. The irrigation system will have an intelligent controller and water saving sprinkler heads to optimally water the fifteen (15) acre site which includes baseball and soccer fields, picnic and grass play areas and a demonstration garden incorporated in the landscaping. The project will include installing the main water system from existing agricultural wells located at the Park as well as moving electricity to the sprinkler/water system control panel.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Mojave Water Agency
• Alto Transition Zone
•
•

Please identify up to three available documents which contain information specific to the proposed project and associated benefits (this information helps determine the technical justification and feasibility):

• CEQA Study for 2012
• Park Plan
•

How do you rate the technical feasibility of the proposed project?

X High	The technical feasibility is well-documented and is based on similar successful projects and/or the project uses common and widely accepted technology/practices and/or the project includes or is based on pilot studies or similar results.
☐ Medium	The project does not use common or widely accepted technology/practices, but substantial documentation is available on proposed benefits and project success.
☐ Low	The project has not been done before and technical feasibility is not adequately documented.

PART 4: IRWM PLAN OBJECTIVES ADDRESSED BY PROJECT *

Describe how the project meets any of the following Mojave IRWM Plan Objectives:

Mojave IRWM Plan Objective	Contribution			Description
1. 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.	X Primary	☐ Secondary	☐ NA	
3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.	X Primary	☐ Secondary	☐ NA	
7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.	☐ Primary	☐ Secondary	X NA	
8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.	☐ Primary	☐ Secondary	X NA	
9. Improve stormwater management throughout the Plan area.	☐ Primary	☐ Secondary	X NA	
2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.	X Primary	☐ Secondary	☐ NA	
10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.	X Primary	☐ Secondary	☐ NA	
11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.	X Primary	☐ Secondary	☐ NA	

Mojave IRWM Plan Objective	Contribution			Description
13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.	☐ Primary	X Secondary	☐ NA	
14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.	☐ Primary	☐ Secondary	X NA	
4. 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.	☐ Primary	☐ Secondary	X NA	
5. 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.	X Primary	☐ Secondary	☐ NA	
12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.	X Primary	☐ Secondary	☐ NA	
6. Prevent land subsidence throughout the Region.	☐ Primary	☐ Secondary	X NA	

*PART 5: RESOURCE MANAGEMENT STRATEGIES**

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
X Primary	☐ Secondary	☐ NA	Agricultural Water Use Efficiency
☐ Primary	**X** Secondary	☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	**X** NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	**X** NA	System Reoperation
☐ Primary	☐ Secondary	**X** NA	Water Transfers
☐ Primary	☐ Secondary	**X** NA	Other (Please State):_____
Increase Water Supply			
☐ Primary	☐ Secondary	**X** NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	**X** NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	**X** NA	Precipitation Enhancement
☐ Primary	☐ Secondary	**X** NA	Recycled Municipal Water
☐ Primary	☐ Secondary	**X** NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	**X** NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	**X** NA	Drinking Water Treatment and Distribution
☐ Primary	☐ Secondary	**X** NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	**X** NA	Matching Quality to Use
☐ Primary	☐ Secondary	**X** NA	Pollution Prevention
☐ Primary	☐ Secondary	**X** NA	Salt and Salinity Management
☐ Primary	☐ Secondary	**X** NA	Urban Runoff Management
☐ Primary	☐ Secondary	**X** NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	**X NA**	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	**X NA**	Economic Incentives (loans, grants, water pricing)
☐ Primary	☐ Secondary	**X NA**	Ecosystem Restoration
☐ Primary	☐ Secondary	**X NA**	Forest Management
☐ Primary	☐ Secondary	**X NA**	Land Use Planning and Management
☐ Primary	☐ Secondary	**X NA**	Recharge Areas Protection
X Primary	☐ Secondary	☐ NA	Water-Dependent Recreation
☐ Primary	☐ Secondary	**X NA**	Watershed Management
☐ Primary	☐ Secondary	**X NA**	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	**X** NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	**X** NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes **X** No
If yes, please identify the program	_____

*PART 6: PROJECT READINESS**

Item	Status (e.g., not initiated, in process, complete, N/A)	Expected Completion Date
Conceptual Plans	COMPLETE	06/01/2010
Feasibility Study	N/A	(mm/dd/yyyy)
Preliminary Design and Cost Estimates	COMPLETE	06/012010
CEQA/NEPA	COMPLETE	6/10/2010
Permits	Not Initiated	2014
Construction Drawings	In Process	12/15/2013
Funding	Not Initiated	2014

For projects that do not include construction, please briefly describe the project's readiness-to proceed.

Have funding sources been identified for implementation of the project? Please provide a brief explanation.

Mojave Water Agency Demonstration Garden Grant
Mojave Water Agency Water Conservation Grant
Helendale Community Services District (Up to 40% of construction cost)

*PART 7: PROJECT BENEFITS**

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

The project will conserve approximately 13 to 21 acre feet annually by use of an intelligent controller and water efficient sprinkler heads for the park landscape irrigation system over a conventional sprinkler system using typical over the counter sprinkler heads and standard controller. A standard irrigation system would use approximately 52 acre feet for a 15 acre site watering Bermuda grass as compared to 30 acre feet using an efficient controller and water saving sprinkler heads.

Another major benefit is air quality improvement due to the reduction of blow sand migrating to other properties and creating driving hazards, and causing property damage.

Does the project address environmental justice issues (including helping reduce inequitable distribution of environmental burdens and access to environmental goods)?
☐ **Yes** **X No** ☐ **Not Sure**

Does the project address critical water issues (including water supply or water quality) of a disadvantaged community?
☐ **Yes** **X No** ☐ **Not Sure**

Does the project provide specific benefits to critical water issues for Native American tribal communities?
☐ **Yes** **X No** ☐ **Not Sure**
If yes, please identify the tribal community: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
X	Increases Water Use and/or Reuse Efficiency	
☐	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
X	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
X	Other (Please State):Reduces the migration of blow sand	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

PART 8: PROJECT COST ESTIMATE

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 60,000

Upper estimated total capital cost ($): 100,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): -0-

Annual Operation and Maintenance Cost ($): 1,500

Design Life of Project (years): 20

Economic Feasibility

Is the project cost-effective?		
X Yes	☐ No	☐ Not Sure
Does the project have a positive benefit-cost ratio?		
X Yes	☐ No	☐ Not Sure

Project No. 127

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Water Well No. 10		
Project Sponsor:	Helendlae Community Services District		
If Joint Project, Other Partners:			
Project Website (if available):			
Project Contact Person:	Phone	FAX	Email
Paul Harmon	760-951-0006	760-951-0046	pharmon@helendalecsd.org

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

Conceptual

Project Description (1 -2 sentences):

Design and construction of new water supply well (Designated as Well #10) to replace old low-volume production wells which also are showing Gross Alpha emitters as well as arsenic contamination. The project includes the purchase of a well site, drilling of the well, full equiping and testing, easements for a transmission line from well site to connect to current southern terminous of the District water system.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Helendale Community Services District Capital Improvement Project Budget

Project Location

Descriptive (Description of property location etc.):

To be determined. Well site to be along Mojave River, south of existing water system transmission lines.

Latitude/Longitude - info available at: http://geocoder.us/	Lat:	Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:	<$100K	$100K - $1M	$1M - $10M	>$10M
	☐	☐	☑	☐

Project Status (Check all that apply):	Conceptual	In-Design	Ready to Implement	CEQA Complete	N/A
	☑	☐	☐	☐	☐

Estimated Year of Completion:

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☑ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☑ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
DACs Involvement	*Y/N:*			
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				
Stormwater:	*Reduction in Flood Damage (Y/N):*		Multi-benefit Y/N:	
Multi-stakeholder project/regional collaboration	*Y/N:*			
Climate Change:	*Helps assess potential impacts (Y/N):*			
Environmental Stewardship/Public Awareness	*Direct Benefits:*			
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☑	☐	1. 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.
☑	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☑	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☑	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☑	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☑	☐	5. 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.
☑	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities	
☐	Drought Preparedness
☑	Use and Reuse Water More Efficiently
☐	Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
☐	Expand Environmental Stewardship
☐	Practice Integrated Flood Management
☑	Protect Surface and Groundwater Quality
☐	Improve Tribal Water and Natural Resources
☐	Ensure Equitable Distribution of Benefits

Program Preferences	
☐	Include Regional Projects or Programs
☐	Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
☐	Effectively Resolve Significant Water-Related Conflicts within or between Regions
☐	Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
☐	Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
☐	Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies			
☐	Agricultural Lands Stewardship	☐	Pollution Prevention
☐	Agricultural Water Use Efficiency	☐	Precipitation Enhancement
☐	Conjunctive Management and Groundwater Storage	☐	Recharge Areas Protection
☐	Conveyance - Delta, Regional/Local	☐	Recycled Municipal Water
☐	Desalination - Brackish & Seawater	☐	Salt & Salinity Management
☑	Drinking Water Treatment and Distribution	☐	Surface Storage - CALFED
☐	Economic Incentives	☐	Surface Storage - Regional/Local
☐	Ecosystem Restoration	☐	System Reoperation
☐	Flood Risk Management	☐	Urban Runoff Management
☐	Forest Management	☐	Urban Water Use Efficiency
☐	Groundwater/Aquifer Remediation	☐	Water Transfers
☐	Land Use Planning & Management	☐	Water-Dependent Recreation
☑	Matching Water Quality to Water Use	☐	Watershed Management

Project No. 128

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Transition Zone Water Quality Study		
Project Sponsor:	MWA		
If Joint Project, Other Partners:			
Project Website (if available):			
Project Contact Person: Anna Garcia	Phone: 760-946-7063	FAX:	Email: agarcia@mojavewater.org

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

Study

Project Description (1-2 sentences):

Water quality constituents have impacted beneficial use of groundwater in the region around the Helendale fault. Previous water quality studies completed by the USGS in 2003 documented some of the water quality issues associated with the Helendale fault. Water quality anomalies were further identified in the 2003 URS Transition Zone Report and the 2007 Schlumberger Salt Model Report. The dataset has matured since these earlier studies were completed and this would be a good point to take another look at the data and try to further our understanding of the groundwater chemistry affecting this area. Work could include water quality testing, drilling and well installation, geophysical investigations, and any other scientific techniques that may result in a better understanding of the water quality conditions in the region.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

The USGS is updating water quality maps for the MWA Service Area and will ultimately generate a report based on the updated maps. The Transition Zone Water Quality Study will consist of a focused study to evaluate arsenic, manganese, TDS, and other water quality constituents previously identified in groundwater in the Transition Zone. This study will fit within the broader water quality study that the USGS is in the process of implementing.

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Project Location

Descriptive (Description of property location etc.):
Alto Transition Zone Subarea

Latitude/Longitude - info available at: http://geocoder.us/	Lat:	Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Estimated Cost: This project is a study only	<$100K ☑	$100K - $1M ☐	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):	Conceptual ☐	In-Design ☐	Ready to Implement ☑	CEQA Complete ☐ N/A ☑
Estimated Year of Completion: 2015				

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
DACs Involvement	*Y/N:*			N
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):			N	
Stormwater:	*Reduction in Flood Damage (Y/N):* N		Multi-benefit Y/N: N	
Multi-stakeholder project/regional collaboration	*Y/N:*		Yes	
Climate Change:	*Helps assess potential impacts (Y/N):*		N	
Environmental Stewardship/Public Awareness	*Direct Benefits:*	Yes		

Other: *(Describe X amount of benefit)*

This project will improve local agency understanding of water quality issues in the Transition Zone. In addition, this study could help further our understanding of local water quality issues in the vicinities of other faults that dissect the region.

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☐	1. 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.
☐	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☑	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☑	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☐	☐	5. 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.
☑	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- ☐ Drought Preparedness
- ☐ Use and Reuse Water More Efficiently
- ☐ Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- ☑ Expand Environmental Stewardship
- ☐ Practice Integrated Flood Management
- ☐ Protect Surface and Groundwater Quality
- ☐ Improve Tribal Water and Natural Resources
- ☐ Ensure Equitable Distribution of Benefits

Program Preferences

- ☐ Include Regional Projects or Programs
- ☐ Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☐ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☐ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☐ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- ☐ Agricultural Lands Stewardship
- ☐ Agricultural Water Use Efficiency
- ☐ Conjunctive Management and Groundwater Storage
- ☐ Conveyance - Delta, Regional/Local
- ☐ Desalination - Brackish & Seawater
- ☐ Drinking Water Treatment and Distribution
- ☐ Economic Incentives
- ☐ Ecosystem Restoration
- ☐ Flood Risk Management
- ☐ Forest Management
- ☑ Groundwater/Aquifer Remediation
- ☐ Land Use Planning & Management
- ☐ Matching Water Quality to Water Use
- ☑ Pollution Prevention
- ☐ Precipitation Enhancement
- ☐ Recharge Areas Protection
- ☐ Recycled Municipal Water
- ☐ Salt & Salinity Management
- ☐ Surface Storage - CALFED
- ☐ Surface Storage - Regional/Local
- ☐ System Reoperation
- ☐ Urban Runoff Management
- ☐ Urban Water Use Efficiency
- ☐ Water Transfers
- ☐ Water-Dependent Recreation
- ☐ Watershed Management

Project No. 129

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Well Abandonment /Destruction Project		
Project Sponsor:	Hi-Desert Water District		
If Joint Project, Other Partners:	N/A		
Project Website (if available):	N/A		
Project Contact Person:	Phone	FAX	Email
Mark Ban	760.365.7412	760.365.0599	markb@hdwd.com

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)
Implementable Project

Project Description (1 -2 sentences):
HDWD has identified 40 private and public wells within the Warren Valley Subbasin that require either destruction or protective measures to be installed. This project focuses on providing funding to well owners to complete the necessary work in an effort to protect the groundwater basin.

Project Integration (Describe how the project does or could integrate with other projects in the Region):
N/A

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):
N/A

Project Location

Descriptive (Description of property location etc.):
Hi-Desert Water District's watershed area.

http://geocoder.us/ Lat: 34 °07'01.18"N Long: 116 °27'10.18"N

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:	<$100K	$100K - $1M	$1M - $10M	>$10M
	☐	☑	☐	☐

Project Status (Check all that apply):	Conceptual	In-Design	Ready to Implement	CEQA Complete	N/A
	☐	☐	☑	☐	☐

Estimated Year of Completion: 2016

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
DACs Involvement	*Y/N:*			Y
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):			N/A	
Stormwater:	*Reduction in Flood Damage (Y/N):* N		Multi-benefit Y/N: N	
Multi-stakeholder project/regional collaboration	*Y/N:*		Y (residential)	
Climate Change:	*Helps assess potential impacts (Y/N):*		N	
Environmental Stewardship/Public Awareness	*Direct Benefits:*	N		
Other: *(Describe X amount of benefit)*				

Provides groundwater protection measures that benefit HDWD's service area.

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☐	1. 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.
☐	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☑	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☑	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☑	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☑	☐	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- ☐ Drought Preparedness
- ☐ Use and Reuse Water More Efficiently
- ☐ Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- ☐ Expand Environmental Stewardship
- ☐ Practice Integrated Flood Management
- ☑ Protect Surface and Groundwater Quality
- ☐ Improve Tribal Water and Natural Resources
- ☐ Ensure Equitable Distribution of Benefits

Program Preferences

- ☐ Include Regional Projects or Programs
- ☑ Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☐ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☑ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☐ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- ☐ Agricultural Lands Stewardship
- ☐ Agricultural Water Use Efficiency
- ☐ Conjunctive Management and Groundwater Storage
- ☐ Conveyance - Delta, Regional/Local
- ☐ Desalination - Brackish & Seawater
- ☐ Drinking Water Treatment and Distribution
- ☐ Economic Incentives
- ☐ Ecosystem Restoration
- ☐ Flood Risk Management
- ☐ Forest Management
- ☑ Groundwater/Aquifer Remediation
- ☐ Land Use Planning & Management
- ☐ Matching Water Quality to Water Use
- ☑ Pollution Prevention
- ☐ Precipitation Enhancement
- ☐ Recharge Areas Protection
- ☐ Recycled Municipal Water
- ☐ Salt & Salinity Management
- ☐ Surface Storage - CALFED
- ☐ Surface Storage - Regional/Local
- ☐ System Reoperation
- ☐ Urban Runoff Management
- ☐ Urban Water Use Efficiency
- ☐ Water Transfers
- ☐ Water-Dependent Recreation
- ☑ Watershed Management

Project No. 130

Mojave Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY ***January 10, 2014*** to **comments@mywaterplan.com.** Items denoted with an asterisk are required.

PART 1: LEAD IMPLEMENTING AGENCY/ORGANIZATIONAL INFORMATION

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Running Springs Water District

Agency / Organization / Individual Address:

PO Box 2206, Running Springs, CA 92382

Possible Partnering Agencies:

Arrowbear Park County Water District, San Bernardino County Special District, CSA-79

Name:*

Ryan Gross

Title:

General Manager

Telephone:* 909-867-2766

Fax: 909-867-2828

Email:*

rgross@runningspringswd.com

Website:

http://www.runningspringswaterdistrict.com/

Project Name:*

Sewer Lift Station Nos. 1 and 3 Improvements

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34 12'35.24"N **Project Longitude:** 117 06"02.83"W

Location Description:	Sewer Lift Station No. 1: 2401 Hunsaker Drive, Running Springs, CA 92382 Sewer Lift Station No. 3: 32388 Parkland Drive, Running Springs, CA 92382

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

-
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

Rehabilitation/Replacement

Project Type (e.g., Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program):

Implementable Project

*PART 2: PROJECT NEED**

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Mojave IRWM Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

The Running Springs Water District's Sewer Lift Station Nos. 1 and 3 are more than 40 years old and in need of significant improvements to increase reliability and reduce the potential for sanitary sewer overflows into the Deep Creek watershed. The improved reliability to these critical sewer lift stations will increase the water quality impacts to the headwaters of the Mojave watershed.

*PART 3: PROJECT DESCRIPTION**

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

Improvements to two sewer lift stations to increase reliability and reduce potential for sewer spills.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Deep Creek Watershed
•
•
•

Please identify up to three available documents which contain information specific to the proposed project and associated benefits (this information helps determine the technical justification and feasibility):

• Running Springs Water District 2010 Wastewater Master Plan
• Running Springs Water District 2010 Financial Master Plan
• SWRCB CWSRF Project Application #7879-110

How do you rate the technical feasibility of the proposed project?

☒ High	The technical feasibility is well-documented and is based on similar successful projects and/or the project uses common and widely accepted technology/practices and/or the project includes or is based on pilot studies or similar results.
☐ Medium	The project does not use common or widely accepted technology/practices, but substantial documentation is available on proposed benefits and project success.
☐ Low	The project has not been done before and technical feasibility is not adequately documented.

PART 4: IRWM PLAN OBJECTIVES ADDRESSED BY PROJECT *

Describe how the project meets any of the following Mojave IRWM Plan Objectives:

Mojave IRWM Plan Objective	Contribution			Description
1. 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.	☐ Primary	☐ Secondary	☒ NA	
3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.	☐ Primary	☐ Secondary	☒ NA	
7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.	☐ Primary	☐ Secondary	☒ NA	
8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.	☒ Primary	☐ Secondary	☐ NA	Project will increase reliability of 44 year old sewer lift stations and reduce the potential for sanitary sewer overflows into the Deep Creek watershed. The improved reliability to these critical sewer lift stations will increase the water quality impacts to the headwaters of the Mojave watershed.
9. Improve stormwater management throughout the Plan area.	☐ Primary	☐ Secondary	☒ NA	
2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.	☐ Primary	☐ Secondary	☒ NA	
10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.	☐ Primary	☐ Secondary	☒ NA	
11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.	☒ Primary	☐ Secondary	☐ NA	

Mojave IRWM Plan Objective	Contribution			Description
13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.	☐ Primary	☐ Secondary	☒ NA	
14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.	☐ Primary	☐ Secondary	☒ NA	
4. 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.	☐ Primary	☐ Secondary	☒ NA	
5. 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.	☐ Primary	☐ Secondary	☒ NA	
12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.	☒ Primary	☐ Secondary	☐ NA	Project will increase reliability of 44 year old sewer lift stations and reduce the potential for sanitary sewer overflows into the Deep Creek watershed. The improved reliability to these critical sewer lift stations will increase the water quality impacts to the headwaters of the Mojave watershed.
6. Prevent land subsidence throughout the Region.	☐ Primary	☐ Secondary	☒ NA	

*PART 5: RESOURCE MANAGEMENT STRATEGIES**

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☐ Primary	☐ Secondary	☒ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☒ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☐ Primary	☐ Secondary	☒ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☐ Primary	☐ Secondary	☒ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) ____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☒ Primary	☐ Secondary	☐ NA	Ecosystem Restoration
☒ Primary	☐ Secondary	☐ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☒ Primary	☐ Secondary	☐ NA	Water-Dependent Recreation
☒ Primary	☐ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☒ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☒ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

*PART 6: PROJECT READINESS**

Item	Status (e.g., not initiated, in process, complete, N/A)	Expected Completion Date
Conceptual Plans	In process	01/31/2014 (mm/dd/yyyy)
Feasibility Study	In process	01/31/2014 (mm/dd/yyyy)
Preliminary Design and Cost Estimates	In process	01/31/2014 (mm/dd/yyyy)
CEQA/NEPA	Complete	12/09/2013 (mm/dd/yyyy)
Permits	In process	08/1/2014 (mm/dd/yyyy)
Construction Drawings	In process	05/01/2014 (mm/dd/yyyy)
Funding	In process	07/01/2014 (mm/dd/yyyy)

For projects that do not include construction, please briefly describe the project's readiness-to proceed.

Have funding sources been identified for implementation of the project? Please provide a brief explanation.

The Running Springs Water District has applied for CWSRF funding for the project. The CWSRF Project Number is 7879-110.

*PART 7: PROJECT BENEFITS**

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Project will increase reliability of 44 year old sewer lift stations and reduce the potential for sanitary sewer overflows into the Deep Creek watershed. The improved reliability to these critical sewer lift stations will increase the water quality impacts to the headwaters of the Mojave watershed.

Does the project address environmental justice issues (including helping reduce inequitable distribution of environmental burdens and access to environmental goods)?

☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project address critical water issues (including water supply or water quality) of a disadvantaged community?

☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project provide specific benefits to critical water issues for Native American tribal communities?

☐ **Yes** ☐ **No** ☒ **Not Sure**

If yes, please identify the tribal community: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☐	Provides Additional Water Supply	
☒	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☒	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☒	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

PART 8: PROJECT COST ESTIMATE

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 1,200,000

Upper estimated total capital cost ($): 1,500,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): $0

Annual Operation and Maintenance Cost ($): 35,000

Design Life of Project (years): 40

Economic Feasibility

Is the project cost-effective?		
☒ Yes	☐ No	☐ Not Sure
Does the project have a positive benefit-cost ratio?		
☒ Yes	☐ No	☐ Not Sure

Project No. 1001

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	City of Victorville VSD 4 Sewer Lift Station **OR** Reverse Osmosis Package Treatment Plant		
Project Sponsor:	City of Victorville		
If Joint Project, Other Partners:			
Project Website (if available):			
Project Contact Person:	Phone	FAX	Email
Steve Ashton	(760) 955-2482	(760) 269-0088	sashton@victorvilleca.gov

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)
Lift Station - Design/ RO - Conceptual- since it would be small package plant - very easily implementable

Project Description (1-2 sentences):
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. 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 Integration (Describe how the project does or could integrate with other projects in the Region):
The lift station is preferred over the RO plant due to the ongoing operational and maintenance costs associated with RO. The RO project could integrate with other recycled water projects in the region, such as with the City of Adelanto; however, VSD 4 lift station is preferred over this project due to the ongoing operational and maintenance costs associated with reverse osmosis.

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):
Sewer Master Plan

Project Location

Descriptive (Description of property location etc.):
Lift Station - North side of Air Expressway Road west of Village Drive in the City of Victorville. RO - At North Carolina St. and Westwinds St. at the Southern California Logistics Airport.

Latitude/Longitude - info available at: http://geocoder.us/	Lat: 34°34'01" 34°34'43"	Long: 117°20'31" 117°21'29"

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:	<$100K	$100K - $1M	$1M - $10M	>$10M
	☐	☐	☑	☐

Project Status (Check all that apply):	Conceptual	In-Design	Ready to Implement	CEQA Complete	CEQA N/A
	☑	☑	☐	☐	☐

Estimated Year of Completion: 2014

Project Benefits							
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐	1-100 AF	☐	100-1000AF	☑	1000+ AF
Water Supply: *New Supply Created (AFY)* (Check one)	☐	1-100 AF	☐	100-1000AF	☐	1000+ AF
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐	1-100 AF	☐	100-1000AF	☑	1000+ AF
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐	1-100 AF	☐	100-1000AF	☐	1000+ AF
DACs Involvement *Y/N:*	Yes					
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):						
Stormwater: *Reduction in Flood Damage (Y/N):*			Multi-benefit Y/N:			
Multi-stakeholder project/regional collaboration *Y/N:*						
Climate Change: *Helps assess potential impacts (Y/N):*						
Environmental Stewardship/Public Awareness *Direct Benefits:*						
Other: *(Describe X amount of benefit)*						

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☑	☐	1. 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.
☑	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☑	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☑	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☑	4. 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.
☐	☐	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- [x] Drought Preparedness
- [x] Use and Reuse Water More Efficiently
- [ ] Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- [ ] Expand Environmental Stewardship
- [ ] Practice Integrated Flood Management
- [ ] Protect Surface and Groundwater Quality
- [ ] Improve Tribal Water and Natural Resources
- [ ] Ensure Equitable Distribution of Benefits

Program Preferences

- [ ] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [x] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [x] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [x] Recycled Municipal Water
- [x] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [ ] Watershed Management

Project No. 1002

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Policies requiring modifications to the Mojave Basin Area Judgment		
Project Sponsor:	MWA		
If Joint Project, Other Partners:	Watermaster and Stipulating Parties		
Project Website (if available):			
Project Contact Person:	Phone	FAX	Email
Jim, Ellen Johnson	760-257-3299		jiml1983@gmail.com
Walt Brock (Tiered Rampdown)	760-1475-8153		waltbrock@ironwood.org
Dean VanBastelaar			

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

Conceptual

Project Description (1 -2 sentences):

General Project Concept is to combine projects submitted in the IRWM Planning process regarding policy issues relating to the Mojave Basin Area judgment. The following specific ideas/descriptions have been proposed that may be considered as a part of this potential process:

• Revised #46 - Mojave River Basin Judgment: To have a fair and equitable solution for all stakeholders in the Baja area. To have an orderly water resource planning and development, and not deprive some subareas of equitable share of benefits made possible by the Physical solution.

• Revised #11 - Baja Water Budget: To use new studies to determine a physical safe yield (sustainable level) and how it relates to verified production, and not based on the Free Production Allowance, and incorporate the depletion in storage in Baja from upstream use.

• #2 and Revised #67 - Stipulated Pistachio Orchards: During the 86-90 period when water allocations were being determined most orchards were using a minimal amount of water due to young trees; it was not taken into consideration the water needed when the trees matured. It would have been a waste of water if more water was applied than needed. It is now a waste of water at this time to try to keep a tree alive, as they don't have enough water to make them productive, because of continual ramp downs. This has affected property values.

• Revised #20 - Eliminate Carryover Rights in all Subareas: Eliminate Carryover Rights in all subareas.

• Revised # 76 - Water Transfers: The idea was to create a solution that generates the money necessary to acquire water either through transfer or through import and to cause through economic forces water conservation to take place so that in the long term the amount of water supply needed for the area will be made available as opposed to reducing back to some arbitrary amount of water supply. The drafters thus contemplated that "as a result of the physical solution being imposed that a large number of agricultural interests will cease production and transfer their base annual production to the municipalities". The promise made to agriculture and those who signed the stipulation was that this court would never issue an order that put agriculture out of business.

• #104 Baja Subarea Rampdown Equity: Tiered Rampdown approach for Baja Subarea. (summarized. For full text, see original short form submitted by Walt Brock).

Project Integration (Describe how the project does or could integrate with other projects in the Region):
46 -> 1, 22, 20, 55, 76 and may overlap with others
11 -> 1, 8, 9, 10, 20, 43, 47, 71, Integrate the natural resources and the social and economic issues of the area.
67 -> 2
20 -> Buy imported water sooner, facilitates water transfer market in Baja and Este and promotes water use planning.
76 -> 1, 10, 25, 70, 71. 2004 RWMP scenario 2, page 5-19.
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Project Location

Descriptive (Description of property location etc.):
Baja

Latitude/Longitude - info available at: http://geocoder.us/ Lat: Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):

Estimated Cost:	<$100K	$100K - $1M	$1M - $10M	>$10M
	☐	☐	☐	☐

Project Status (Check all that apply):	Conceptual	In-Design	Ready to Implement	CEQA Complete	N/A
	☑	☐	☐	☐	☐

Estimated Year of Completion:

Project Benefits

Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF

DACs Involvement	*Y/N:*	Y
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*		
Stormwater:	*Reduction in Flood Damage (Y/N):* N	Multi-benefit Y/N: Y
Multi-stakeholder project/regional collaboration	*Y/N:*	Y
Climate Change:	*Helps assess potential impacts (Y/N):*	N
Environmental Stewardship/Public Awareness	*Direct Benefits:*	
Other: *(Describe X amount of benefit)*		

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met		
Prim.	Second.	
☑	☐	1. 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.
☑	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☑	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☑	☑	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☑	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☑	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☑	☑	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☑	4. 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.
☑	☐	5. 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.
☐	☑	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☑	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- [x] Drought Preparedness
- [x] Use and Reuse Water More Efficiently
- [ ] Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- [x] Expand Environmental Stewardship
- [ ] Practice Integrated Flood Management
- [x] Protect Surface and Groundwater Quality
- [ ] Improve Tribal Water and Natural Resources
- [x] Ensure Equitable Distribution of Benefits

Program Preferences

- [x] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA
- [ ] Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [x] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [x] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [x] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- [x] Agricultural Lands Stewardship
- [x] Agricultural Water Use Efficiency
- [x] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [x] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [x] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [x] Water Transfers
- [ ] Water-Dependent Recreation
- [x] Watershed Management

Project No. 1003

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Assistance Program for Small Drinking Water Systems		
Project Sponsor:	Mojave Water Agency		
If Joint Project, Other Partners:	San Bernardino County Environmental Health Services		
Project Website (if available):			
Project Contact Person:	Phone	FAX	Email
Tim Gobler, MWA; Joy Chakma SBCo	760-946-7046; 1-800-442-2283		tgobler@mojavewater.org; Joy.Chakma@dph.sbcounty.gov

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

Conceptual

Project Description (1 -2 sentences):

Program would identify water supply, water quality and infrastructure needs of small drinking water systems within the IRWM Region. Small systems needs may include but not limited to: Water quality treatment systems, fireflow protection, replacing aging infrastructure, install new infrastructure, interconnection with other purveyors, well drilling, scada systems, feasibility studies, etc. This program would help connect small systems 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 in the identified challenges listed.

- (6) Bar-Len Mutual Water Co., Arsenic Metering Project
- (15) Center Water Co. Wells, Infrastructure & Storage Project
- (52) Golden State Water Company, New Well Project
- (69) Bighorn-Desert View Water Agency, SCADA System Project
- (74) Bighorn-Desert View Water Agency, Water Infrastructure Project
- (80) Bighorn-Desert View Water Agency, Wellhead Treatment - Uranium
- (83-85) Yermo CSD, Water Infrastructure Project
- (100) Thunderbird County Water District, Fluoride/Nitrate treatment Plant
- (120) Bighorn-Desert View Water Agency, Infrastructure, Emergency Preparedness and Storage Projects

Project Integration (Describe how the project does or could integrate with other projects in the Region):

See Description Above

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

N/A

Project Location

Descriptive (Description of property location etc.):

Entire IRWM Region

Latitude/Longitude - info available at:	http://geocoder.us/	Lat:	Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):

Estimated Cost: Depends upon availability of funds		<$100K ☐	$100K - $1M ☑	$1M - $10M ☑	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐ N/A ☐
Estimated Year of Completion:	Ongoing assistance program--no completion date				

Project Benefits

Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
DACs Involvement	*Y/N:*			Yes
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*				No
Stormwater:	*Reduction in Flood Damage (Y/N):* No		Multi-benefit Y/N:	Yes
Multi-stakeholder project/regional collaboration	*Y/N:*			Yes
Climate Change:	*Helps assess potential impacts (Y/N):*			No
Environmental Stewardship/Public Awareness	*Direct Benefits:*	No		
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☑	1. 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.
☐	☑	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☑	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☐	☑	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☑	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☑	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.

☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☐	☐	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- ☑ Drought Preparedness
- ☐ Use and Reuse Water More Efficiently
- ☐ Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- ☐ Expand Environmental Stewardship
- ☐ Practice Integrated Flood Management
- ☐ Protect Surface and Groundwater Quality
- ☐ Improve Tribal Water and Natural Resources
- ☑ Ensure Equitable Distribution of Benefits

Program Preferences

- ☑ Include Regional Projects or Programs
- ☐ Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☐ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☐ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☐ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- ☐ Agricultural Lands Stewardship
- ☐ Agricultural Water Use Efficiency
- ☐ Conjunctive Management and Groundwater Storage
- ☑ Conveyance - Delta, Regional/Local
- ☐ Desalination - Brackish & Seawater
- ☑ Drinking Water Treatment and Distribution
- ☑ Economic Incentives
- ☐ Ecosystem Restoration
- ☐ Flood Risk Management
- ☐ Forest Management
- ☐ Groundwater/Aquifer Remediation
- ☐ Land Use Planning & Management
- ☐ Matching Water Quality to Water Use
- ☐ Pollution Prevention
- ☐ Precipitation Enhancement
- ☐ Recharge Areas Protection
- ☐ Recycled Municipal Water
- ☐ Salt & Salinity Management
- ☐ Surface Storage - CALFED
- ☐ Surface Storage - Regional/Local
- ☐ System Reoperation
- ☐ Urban Runoff Management
- ☐ Urban Water Use Efficiency
- ☐ Water Transfers
- ☐ Water-Dependent Recreation
- ☐ Watershed Management

Project No. 1004

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

General Information (Required)				
Project Name:	Baja Sustainability Initative #1 (Ag. Water Conservation and Base annual Production Right (BAP) Acquisition Program)			
Project Sponsor:	MWA			
If Joint Project, Other Partners:	USDA Natural Resources Conservation Service, BSAC, Mojave Desert Resource Conservation District, Baja Minimal Producers, J&E Johnson			
Project Website (if available):				
Project Contact Person: Curt James	Phone 760-946-7016	FAX	Email cjames@mojavewater.org	

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)
Implementable Program

Project Description (1 -2 sentences):
(Baja Sustainability Initiative #1)This Agricultural Water Conservation program will be accomplished through several different means. It includes components of a 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. As wells as a Crop Conversion program that would incentivize converting from water intensive crops like Alfalfa to other water efficient crops, with the ultimate goal of reducing costs to the point of making direct delivery of SPW viable and economically feasible.

Project Integration (Describe how the project does or could integrate with other projects in the Region):
BSI #1 - 1,10,25,55,70

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Project Location

Descriptive (Description of property location etc.):
Baja Sub Area

Latitude/Longitude - info available at: http://geocoder.us/	Lat:	Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:	<$100K ☐	$100K - $1M ☐	$1M - $10M ☑	>$10M ☐
Project Status (Check all that apply):	Conceptual ☑	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐ N/A ☐
Estimated Year of Completion:	2025			

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☑ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☑ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☑ 1000+ AF	
DACs Involvement *Y/N:*				Y
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				
Stormwater: *Reduction in Flood Damage (Y/N):*			Multi-benefit Y/N:	Y
Multi-stakeholder project/regional collaboration *Y/N:*				Y
Climate Change: *Helps assess potential impacts (Y/N):*				N
Environmental Stewardship/Public Awareness *Direct Benefits:*				
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☑	☐	1. 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.
☑	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☑	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☑	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☑	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☐	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☑	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☑	☐	5. 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.
☑	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☑	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- [x] Drought Preparedness
- [x] Use and Reuse Water More Efficiently
- [ ] Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- [x] Expand Environmental Stewardship
- [ ] Practice Integrated Flood Management
- [ ] Protect Surface and Groundwater Quality
- [ ] Improve Tribal Water and Natural Resources
- [x] Ensure Equitable Distribution of Benefits

Program Preferences

- [x] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [x] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [x] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- [x] Agricultural Lands Stewardship
- [x] Agricultural Water Use Efficiency
- [x] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [x] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [x] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [x] Water Transfers
- [ ] Water-Dependent Recreation
- [x] Watershed Management

Project No. 1005

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	High Desert Regional Demonstration Gardens		
Project Sponsor:	Mojave Water Agency		
If Joint Project, Other Partners:	Newberry Community Services District, City of Victorville		
Project Website (if available):			
Project Contact Person: Christy Huiner, Mojave Water Agency	Phone (760) 946-7000	FAX	Email chuiner@mojavewater.org
Project Contact Person: Linda DeLuca-Snively, Newberry Community Service District	Phone (760) 257-9149	FAX	Email
Project Contact Person: Donna McCormick, City of Victorville	Phone (760) 983-9377	FAX	Email dmccormick@ci.victorville.ca.us

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

Conceptual and Implementable Project

Project Description (1-2 sentences):

Construction of a variety of demonstration gardens to engage and educate visitors and communities in solutions for creating beautiful and environmentally smart landscapes. Design would include development aimed at local biomes, taking in climate and soil types, and the need to demonstrate gardening, smart agriculture, irrigation infrastructure, etc. These gardens would be similarly improved in regards to education and information availability, for example, signage, information kiosks, educational material, and QR readers.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

- **Project 5** - Aquaponics Demonstration Gardens Submitted by Mojave Water Agency
  Construct two demonstration aquaponics sites to prove technology as a water efficient and profitable alternative to traditional agriculture and gardening.
- **Project 23** – Desert Demonstration Gardens Submitted by Baja Subarea
  Construct a demonstration garden and education outreach program for Baja Subarea
- **Project 33** – High Desert Demonstration Gardens Submitted by Mojave Water Agency
  Phase I: At Mojave Water Agency create a regional class garden destination. Phase II: With partners develop a series of of demonstration gardens regionally
- **Project 123** - Four Demonstration Gardens along the Mojave River Educational Trailway, submitted by City of Victorville

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

N/A

Project Location

Descriptive (Description of property location etc.):

Regionally throughout the Mojave Water Agency Boundary

Latitude/Longitude - info available at: http://geocoder.us/	Lat:	Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost: unknown	<$100K ☐	$100K - $1M ☐	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):	Conceptual ☑	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐ N/A ☐
Estimated Year of Completion: 2014-2016, on-going				

Project Benefits			
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☑ 100-1000AF	☐ 1000+ AF
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
DACs Involvement	*Y/N:*	Yes	
Public Access, Open Space, Habitat, Recreation (*acres created/restored*).		Yes	
Stormwater:	*Reduction in Flood Damage (Y/N):*		Multi-benefit Y/N:
Multi-stakeholder project/regional collaboration	*Y/N:*	Yes	
Climate Change:	*Helps assess potential impacts (Y/N):*		
Environmental Stewardship/Public Awareness	*Direct Benefits:*	Yes	
Other: *(Describe X amount of benefit)*			

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☑	1. 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.
☐	☑	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☑	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☑	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☑	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☑	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☑	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☐	☐	5. 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.
☑	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- [ ] Drought Preparedness
- [x] Use and Reuse Water More Efficiently
- [x] Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- [x] Expand Environmental Stewardship
- [ ] Practice Integrated Flood Management
- [x] Protect Surface and Groundwater Quality
- [ ] Improve Tribal Water and Natural Resources
- [ ] Ensure Equitable Distribution of Benefits

Program Preferences

- [x] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [x] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [x] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- [x] Agricultural Lands Stewardship
- [x] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [x] Economic Incentives
- [x] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [x] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [x] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [x] Watershed Management

Project No. 1006

Mojave Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY ***August 1, 2013*** to **comments@mywaterplan.com**. Items denoted with an asterisk are required.

PART 1: LEAD IMPLEMENTING AGENCY/ORGANIZATIONAL INFORMATION

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Hi-Desert Water District

Agency / Organization / Individual Address:

55439 29 Palms Hwy.
Yucca Valley, CA. 92284

Possible Partnering Agencies:

Name:*

Mark Ban

Title:

Assistant General Manager

Telephone:* (760)365-7412

Fax: (760)365-0599

Email:*

markb@hdwd.com

Website:

www.hdwd.com

Project Name:*

Capital Water Main Replacement Program

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°06'57.10"N **Project Longitude:** 116°**23'45.50W**

Location Description:	Hi-Desert Water District's service area within the Town of Yucca Valley, CA.

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- N/A
- N/A
- N/A
- N/A

Project Status (e.g., new, ongoing, expansion, new phase):

Ongoing replacement

Project Type (e.g., Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program):

Infrastructure Improvement

*PART 2: PROJECT NEED**

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Mojave IRWM Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Hi-Desert Water District owns and maintains over 300 miles of water distribution system pipeline that consists primarily of PVC, ACP, and steel constructed material. In many cases, the steel pipeline infrastructure is over 50 years old and in extremely poor condition. Due to the age of the material, the infrastructure is failing causing a high number of leaks and turbid water events that have an adverse affect on the District's customers; operating budget; conservation efforts; and the ability to provide a reliable source of water to meet both normal and peak water demands within those areas. In addition, the District's steel infrastructure also does not provide adequate spacing between isolation valves for minimal impacts to customers during required shutdowns; an ample number of properly sized fire hydrants and laterals; and a large enough capacity to meet emergency demands in many instances.
In addition to providing a sounder infrastructure; this project also addresses water conservation efforts not only at the local level; but also due to the reliance the District has on State Water Project water; would increase conservation at the state-wide level. The number of leaks experienced by the District within these areas can release high volumes of water that are in direct correlation to both the District's purchase and storage of its SWP allocations.

*PART 3: PROJECT DESCRIPTION**

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

This project would include the replacement of 46,940 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. Construction of this infrastructure would be in various areas within the Town of Yucca Valley, CA. 92284 Installation would occur by providing an open-cut trench through streets maintained by the Town of Yucca Valley. The temporary and permanent replacement of AC would be required to replace the area of road damaged by the trench line following the most current Town of Yucca Valley standards.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Warren Valley Sub basin
• State Water Project allocations

Please identify up to three available documents which contain information specific to the proposed project and associated benefits (this information helps determine the technical justification and feasibility):

• 2007 Hi-Desert Water District Water System Master Plan
• Current and historical leak and water quality work orders and databases
• Urban Water Management Plan
• California Department of Public Health Design Standards
• American Water Works Association Standards

How do you rate the technical feasibility of the proposed project?

☒ High	The technical feasibility is well-documented and is based on similar successful projects and/or the project uses common and widely accepted technology/practices and/or the project includes or is based on pilot studies or similar results.
☐ Medium	The project does not use common or widely accepted technology/practices, but substantial documentation is available on proposed benefits and project success.

☐ Low	The project has not been done before and technical feasibility is not adequately documented.

PART 4: IRWM PLAN OBJECTIVES ADDRESSED BY PROJECT *

Describe how the project meets any of the following Mojave IRWM Plan Objectives:

Mojave IRWM Plan Objective	Contribution			Description
1. 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.	☐ Primary	☒ Secondary	☐ NA	High volumes of leaks increase water demands, which decrease future available water supplies.
3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.	☐ Primary	☒ Secondary	☐ NA	The District's primary water supply, the Warren Subbasin, has experienced severe overdraft in years passed which has been mitigated by allocations of SWP water. High volumes of leaks reduce the availability of banked water.
7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.	☐ Primary	☒ Secondary	☐ NA	The Town of Yucca Valley is considered a DAC. In order to expedite these projects, additional funding is required to provide a benefit to all.
8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.	☐ Primary	☐ Secondary	☒ NA	
9. Improve stormwater management throughout the Plan area.	☐ Primary	☐ Secondary	☒ NA	
2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.	☐ Primary	☒ Secondary	☐ NA	The reduction of water demands through the replacement of leaking facilities is part of the District's water conservation program.
10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.	☐ Primary	☐ Secondary	☒ NA	

Mojave IRWM Plan Objective	Contribution			Description
11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.	☐ Primary	☐ Secondary	☒ NA	
13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.	☒ Primary	☐ Secondary	☐ NA	This project improves the District's water supply infrastructure and water quality. Reliable funding sources are required to expedite these projects.
14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.	☐ Primary	☐ Secondary	☒ NA	
4. 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.	☐ Primary	☒ Secondary	☐ NA	Replacement of the steel water main infrastructure allows the District to "bank" more of its SWP allocations thereby decreasing its reliance on the Delta during outages, drought conditions, etc.
5. 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.	☐ Primary	☐ Secondary	☒ NA	
12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.	☐ Primary	☐ Secondary	☒ NA	
6. Prevent land subsidence throughout the Region.	☐ Primary	☐ Secondary	☒ NA	

*PART 5: RESOURCE MANAGEMENT STRATEGIES**

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☒ Secondary	☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☐ Primary	☒ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☒ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☒Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☐ Primary	☐ Secondary	☒ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☐ Primary	☐ Secondary	☒ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☐ Primary	☐ Secondary	☒ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☐ Secondary	☒ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☐ Primary	☐ Secondary	☒ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☐ Secondary	☒ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): ____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☒ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☒ NA	Please State: ____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	____

*PART 6: PROJECT READINESS**

Item	Status (e.g., not initiated, in process, complete, N/A)	Expected Completion Date
Conceptual Plans	N/A	**(mm/dd/yyyy)**
Feasibility Study	N/A	**(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	N/A	**(mm/dd/yyyy)**
CEQA/NEPA	Not initiated – expected exemption.	07/01/2017 **(mm/dd/yyyy)**
Permits	Encroachment permit achieved prior to start of construction.	Dependent upon project funding and start date. **(mm/dd/yyyy)**
Construction Drawings	Complete	Completed **(mm/dd/yyyy)**
Funding	Funding not yet allocated	07/01/2017 **(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project's readiness-to proceed.

N/A

Have funding sources been identified for implementation of the project? Please provide a brief explanation.

Currently the District utilizes capital from water rate revenues and meter sales to fund these types of projects. In addition, the District has instituted a variable charge based upon meter size to assist in funding water main replacement. These funding sources provide for the replacement of water mains by in-house employees only and are limited. Additional funding is needed to expedite these projects.

*PART 7: PROJECT BENEFITS**

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This water main replacement project will allow the District to provide a more efficient, reliable water supply within the proposed area. Leaks would no longer be an operation and maintenance issue lowering the District's costs to maintain the area. In addition, replacing the old steel infrastructure would improve water quality. As water travels through these water mains at high velocities, the interior of the pipe is scoured releasing tuberculation that has formed over the years into the water causing brown/orange water to enter customer's residences.

Does the project address environmental justice issues (including helping reduce inequitable distribution of environmental burdens and access to environmental goods)?

☐ Yes ☒ No ☐ Not Sure

Does the project address critical water issues (including water supply or water quality) of a disadvantaged community?

☒ Yes ☐ No ☐ Not Sure

Does the project provide specific benefits to critical water issues for Native American tribal communities?

☐ Yes ☒ No ☐ Not Sure

If yes, please identify the tribal community: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☒	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☒	Increases Water Use and/or Reuse Efficiency	
☐	Provides Additional Water Supply	
☒	Promotes Water Quality Protection	
☒	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☒	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☒	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

PART 8: PROJECT COST ESTIMATE

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 3,520,500

Upper estimated total capital cost ($): 4,694,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): 0

Annual Operation and Maintenance Cost ($): 20,000

Design Life of Project (years): 50

Economic Feasibility

Is the project cost-effective?		
☒ Yes	☐ No	☐ Not Sure
Does the project have a positive benefit-cost ratio?		
☒ Yes	☐ No	☐ Not Sure

Project No. 1007

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	BSI#2 Baja Major Storm Diversion Network		
Project Sponsor:	MWA		
If Joint Project, Other Partners:	BSAC, Baja Minimal Producers, RCD, J&E Johnson		
Project Website (if available):			
Project Contact Person: Curt James	Phone 760-946-7016	FAX	Email cjames@mojavewater.org

Project Description
Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)
Conceptual
Project Description (1 -2 sentences):
(Baja Sustainability Initiative #2) 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. This would also include investigation into the possible utilization of pit at Kewitt, possible installation of weirs and irragation channels to divert flood waters to percolation ponds, injection wells.
Project Integration (Describe how the project does or could integrate with other projects in the Region): BSI#2-8,9,43,47,75
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Project Location			
Descriptive (Description of property location etc.): Baja Sub Area			
Latitude/Longitude - info available at: http://geocoder.us/	Lat:	Long:	

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:	<$100K ☐	$100K - $1M ☐	$1M - $10M ☑	>$10M ☐
Project Status (Check all that apply):	Conceptual ☐	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐ N/A ☐
Estimated Year of Completion:				

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☑ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☑ 1000+ AF	
DACs Involvement	*Y/N:*			Y
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				
Stormwater:	*Reduction in Flood Damage (Y/N):* Y		Multi-benefit Y/N: Y	
Multi-stakeholder project/regional collaboration	*Y/N:*		Y	
Climate Change:	*Helps assess potential impacts (Y/N):*			
Environmental Stewardship/Public Awareness	*Direct Benefits:* Y			
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☑	☐	1. 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.
☑	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☑	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☑	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☐	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☑	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☑	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☐	☐	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☑	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- [x] Drought Preparedness
- [x] Use and Reuse Water More Efficiently
- [ ] Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- [x] Expand Environmental Stewardship
- [x] Practice Integrated Flood Management
- [ ] Protect Surface and Groundwater Quality
- [ ] Improve Tribal Water and Natural Resources
- [x] Ensure Equitable Distribution of Benefits

Program Preferences

- [x] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [x] Flood Risk Management
- [ ] Forest Management
- [x] Groundwater/Aquifer Remediation
- [x] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [x] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [x] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [x] Watershed Management

Project No.1008

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

General Information (Required)						
Project Name:	R-Cubed Enhanced Purveyor Supply System					
Project Sponsor:	City of Adelanto, Golden State Water Co - Apple Vly North/South, Mojave Water Agency					
If Joint Project, Other Partners:	Potentially Apple Valley Ranchos and multiple small purveyors					
Project Website (if available):	N/A					
Project Contact Person: GS Water - Perry Dahlstrom, Adelanto - John R. Sponsler	Phone	FAX	Email			
Project Description						
Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)						
Study, design, facilities						
Project Description (1 -2 sentences): Design and install conveyance from R-Cubed to purveyors not currently connected to R-Cubed. This may be through direct conveyance or via interconnections with purveyors currently receiving R-Cubed water to "wheel" water to purveyors adjacent to their systems. The project includes study, design and facilities.						
Project Integration (Describe how the project does or could integrate with other projects in the Region): This aggregates proposed projects 37) Golden State Water, Apple Valley South System and 96) City of Adelanto. This aggregate project will also allow for yet undetermined project partners to participate and benefit.						
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]): Capital Improvement, water reliability						
Project Location						
Descriptive (Description of property location etc.): Water purveyor's currently served by R-Cubed service areas and water purveyors adjacent to them.						
Latitude/Longitude - info available at: http://geocoder.us/	Lat:		Long:			
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:	<$100K ☐	$100K - $1M ☑	$1M - $10M ☐	>$10M ☐		
Project Status (Check all that apply):	Conceptual ☑	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐	N/A ☐	
Estimated Year of Completion:	Unknown					

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
DACs Involvement	*Y/N:*			Y
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				N
Stormwater:	*Reduction in Flood Damage (Y/N):* N		Multi-benefit Y/N:	Y
Multi-stakeholder project/regional collaboration	*Y/N:*			Y
Climate Change:	*Helps assess potential impacts (Y/N):*			N
Environmental Stewardship/Public Awareness	*Direct Benefits:*	Yes, Reduced stress on regional aquifers		
Other: *(Describe X amount of benefit)*	Increased water supply and reliability for purveyors not currently served by R-Cubed.			

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☑	1. 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.
☐	☑	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☑	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☐	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☑	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☐	☑	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- ☐ Drought Preparedness
- ☑ Use and Reuse Water More Efficiently
- ☐ Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- ☐ Expand Environmental Stewardship
- ☐ Practice Integrated Flood Management
- ☑ Protect Surface and Groundwater Quality
- ☐ Improve Tribal Water and Natural Resources
- ☐ Ensure Equitable Distribution of Benefits

Program Preferences

- ☑ Include Regional Projects or Programs
- ☐ Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☐ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☑ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☐ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

☐ Agricultural Lands Stewardship	☐ Pollution Prevention
☐ Agricultural Water Use Efficiency	☐ Precipitation Enhancement
☐ Conjunctive Management and Groundwater Storage	☐ Recharge Areas Protection
☐ Conveyance - Delta, Regional/Local	☐ Recycled Municipal Water
☐ Desalination - Brackish & Seawater	☐ Salt & Salinity Management
☑ Drinking Water Treatment and Distribution	☐ Surface Storage - CALFED
☐ Economic Incentives	☐ Surface Storage - Regional/Local
☐ Ecosystem Restoration	☐ System Reoperation
☐ Flood Risk Management	☐ Urban Runoff Management
☐ Forest Management	☑ Urban Water Use Efficiency
☑ Groundwater/Aquifer Remediation	☐ Water Transfers
☐ Land Use Planning & Management	☐ Water-Dependent Recreation
☐ Matching Water Quality to Water Use	☐ Watershed Management

Project No. 1009

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

General Information (Required)						
Project Name:	BSI#3 Channel Dredging, Flood Control, Riperian Protection and Vegetation Removal					
Project Sponsor:	MWA					
If Joint Project, Other Partners:	RCD, BSAC, Baja Minimal Producers					
Project Website (if available):						
Project Contact Person: Curt James	Phone 760-946-7016	FAX	Email cjames@mojavewater.org			
Project Description						
Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)						
Design/Implementable						
Project Description (1 -2 sentences): 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.Design and reinstate a channel(s) through project area to carry storm flows to reduce flooding of improved parcels						
Project Integration (Describe how the project does or could integrate with other projects in the Region): BSI#3 - 16,53						
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans])						
Project Location						
Descriptive (Description of property location etc.): Alto Sub Area						
Latitude/Longitude - info available at: http://geocoder.us/		Lat:		Long:		
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:		<$100K ☐	$100K - $1M ☑	$1M - $10M ☐	>$10M ☐	
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐ N/A ☐	
Estimated Year of Completion:	Ongoing					

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☑ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☑ 1000+ AF	
DACs Involvement	*Y/N:*			Y
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				
Stormwater:	*Reduction in Flood Damage (Y/N):* Y		Multi-benefit Y/N:	
Multi-stakeholder project/regional collaboration	*Y/N:*			
Climate Change:	*Helps assess potential impacts (Y/N):*			
Environmental Stewardship/Public Awareness	*Direct Benefits:*	Y		
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☐	1. 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.
☑	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☑	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☑	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☐	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☑	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☐	☐	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- [x] Drought Preparedness
- [x] Use and Reuse Water More Efficiently
- [ ] Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- [x] Expand Environmental Stewardship
- [x] Practice Integrated Flood Management
- [x] Protect Surface and Groundwater Quality
- [ ] Improve Tribal Water and Natural Resources
- [x] Ensure Equitable Distribution of Benefits

Program Preferences

- [x] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [x] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [x] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [x] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [x] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [x] Watershed Management

Project No. 1010

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	JBWD CUWCC Compliance Projects (Combining project #39 and #99)		
Project Sponsor:	Joshua Basin Water District		
If Joint Project, Other Partners:			
Project Website (if available):			
Project Contact Person: Susan Greer, AGM	Phone 760-366-8438x225	FAX 760-366-9528	Email Sgreer@jbwd.com

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

Planning, Design and Implementation of CUWCC Best Management Practices in accordance current state reqrmts.

Project Description (1 -2 sentences):

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. A large component of the proposed project is a system-wide leak detection program.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):
Urban Water Management Plan, Groundwater Basin Management Plan, Regional Water Quality Control Board Planning, CUWCC Best Management Practice Documentation.

Project Location

Descriptive (Description of property location etc.):
The proposed project would be conducted from District office in Joshua Tree, California

http://geocoder.us/ Lat: 34°08'16"N Long: 116°18'57"W

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:	<$100K	$100K - $1M	$1M - $10M	>$10M
	☐	☑	☐	☐

Project Status (Check all that apply):	Conceptual	In-Design	Ready to Implement	CEQA Complete	N/A
	☑	☐	☐	☐	☐

Estimated Year of Completion:
Planning & Implementation complete in 2015, if funding available 2014

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☑ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☑ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
DACs Involvement	*Y/N:* Yes			
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*				
Stormwater:	*Reduction in Flood Damage (Y/N):* No	Multi-benefit Y/N: No		
Multi-stakeholder project/regional collaboration	*Y/N:* No			
Climate Change:	*Helps assess potential impacts (Y/N):* No			
Environmental Stewardship/Public Awareness	*Direct Benefits:* Yes - Various conservation & education			
Other: *(Describe X amount of benefit)*				
Conservation and leak detection in programs will result in reduction to groundwater overdraft, and decreased demand from water wasted because of leaks.				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☑	☐	1. 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.
☑	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☑	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☑	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☐	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☑	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.

☐	☑	4. 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.
☐	☐	5. 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.
☑	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- [x] Drought Preparedness
- [x] Use and Reuse Water More Efficiently
- [x] Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- [ ] Expand Environmental Stewardship
- [ ] Practice Integrated Flood Management
- [ ] Protect Surface and Groundwater Quality
- [ ] Improve Tribal Water and Natural Resources
- [ ] Ensure Equitable Distribution of Benefits

Program Preferences

- [ ] Include Regional Projects or Programs
- [x] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [x] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [x] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [x] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [ ] Watershed Management

Project No. 1011

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Antelope Valley Wash Recharge Ponds		
Project Sponsor:	City of Hesperia		
If Joint Project, Other Partners:	San Bernardino County Flood Control District		
Project Website (if available):	N/A		
Project Contact Person: John Leveillee, City Engineer	Phone 760-947-1451	FAX 760-244-2515	Email jleveillee@cityofhesperia.us

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

Conceptual Design

Project Description (1 -2 sentences):

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 Ranchero Road. In addition to storm water detention, the site would be able to accomodate groundwater recharge.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

The recharge Project would integrate with the storm water detention facility as mentioned above.

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Regional Water Management Plan, Supply Enhancement Project, Non-Floodplain Aquifer Recharge, Capital Improvement Plan.

Project Location

Descriptive (Description of property location etc.):

Property is currently undeveloped within the Antelope Valley Wash. San Bernardino County Flood Control will begin acquisistion of the property for their project in early 2014.

Latitude/Longitude - info available at: http://geocoder.us/	Lat: -117.305	Long: 34.381

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Estimated Cost: $ 1,700,000.00	<$100K ☐	$100K - $1M ☐	$1M - $10M ☑	>$10M ☐
Project Status (Check all that apply):	Conceptual ☑	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐ N/A ☐
Estimated Year of Completion: TBD				

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☑ 1000+ AF	
DACs Involvement	*Y/N:*			No
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				
Stormwater:	*Reduction in Flood Damage (Y/N):* Yes		Multi-benefit Y/N: Yes	
Multi-stakeholder project/regional collaboration	*Y/N:*		Yes	
Climate Change:	*Helps assess potential impacts (Y/N):*		No	
Environmental Stewardship/Public Awareness	*Direct Benefits:*			
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☐	1. 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.
☑	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☑	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☐	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☑	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☑	☐	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- ☐ Drought Preparedness
- ☐ Use and Reuse Water More Efficiently
- ☐ Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- ☐ Expand Environmental Stewardship
- ☑ Practice Integrated Flood Management
- ☑ Protect Surface and Groundwater Quality
- ☐ Improve Tribal Water and Natural Resources
- ☐ Ensure Equitable Distribution of Benefits

Program Preferences

- ☑ Include Regional Projects or Programs
- ☐ Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☐ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☐ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☐ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- ☐ Agricultural Lands Stewardship
- ☐ Agricultural Water Use Efficiency
- ☑ Conjunctive Management and Groundwater Storage
- ☐ Conveyance - Delta, Regional/Local
- ☐ Desalination - Brackish & Seawater
- ☐ Drinking Water Treatment and Distribution
- ☐ Economic Incentives
- ☐ Ecosystem Restoration
- ☑ Flood Risk Management
- ☐ Forest Management
- ☐ Groundwater/Aquifer Remediation
- ☐ Land Use Planning & Management
- ☐ Matching Water Quality to Water Use
- ☐ Pollution Prevention
- ☐ Precipitation Enhancement
- ☑ Recharge Areas Protection
- ☐ Recycled Municipal Water
- ☐ Salt & Salinity Management
- ☐ Surface Storage - CALFED
- ☐ Surface Storage - Regional/Local
- ☐ System Reoperation
- ☐ Urban Runoff Management
- ☐ Urban Water Use Efficiency
- ☐ Water Transfers
- ☐ Water-Dependent Recreation
- ☑ Watershed Management

Project No. 1012

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Cedar Street Detention Basin		
Project Sponsor:	City of Hesperia		
If Joint Project, Other Partners:	San Bernardino County Flood Control District		
Project Website (if available):	N/A		
Project Contact Person: John Leveillee, City Engineer	Phone 760-947-1451	FAX 760-244-2515	Email jleveillee@cityofhesperia.us

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

Conceptual Design

Project Description (1-2 sentences):

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 accomodate groundwater recharge.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

The recharge Project would integrate with the storm water detention facility as mentioned above.

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Regional Water Management Plan, Supply Enhancement Project, Non-Floodplain Aquifer Recharge. Capital Improvement Plan

Project Location

Descriptive (Description of property location etc.):

The area currently has scattered residential development with large pockets of undeveloped native vacant properties. San Bernardino County Flood Control will begin acquisistion of the property for the Flood Control project in late 2013.

Latitude/Longitude - info available at: http://geocoder.us/	Lat: -117.352	Long: 34.405

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Estimated Cost: $ 2,000,000.00	<$100K ☐	$100K - $1M ☐	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):	Conceptual ☑	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐ N/A ☐

Estimated Year of Completion: TBD

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☑ 1000+ AF	
DACs Involvement	*Y/N:*			No
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				
Stormwater:	*Reduction in Flood Damage (Y/N):* Yes		Multi-benefit Y/N: Yes	
Multi-stakeholder project/regional collaboration	*Y/N:*		Yes	
Climate Change:	*Helps assess potential impacts (Y/N):*		No	
Environmental Stewardship/Public Awareness	*Direct Benefits:*			
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☐	1. 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.
☑	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☑	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☐	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☑	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☑	4. 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.
☑	☐	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- ☐ Drought Preparedness
- ☐ Use and Reuse Water More Efficiently
- ☐ Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- ☐ Expand Environmental Stewardship
- ☑ Practice Integrated Flood Management
- ☑ Protect Surface and Groundwater Quality
- ☐ Improve Tribal Water and Natural Resources
- ☐ Ensure Equitable Distribution of Benefits

Program Preferences

- ☑ Include Regional Projects or Programs
- ☐ Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☐ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☐ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☐ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

☐ Agricultural Lands Stewardship	☐ Pollution Prevention
☐ Agricultural Water Use Efficiency	☐ Precipitation Enhancement
☑ Conjunctive Management and Groundwater Storage	☑ Recharge Areas Protection
☐ Conveyance - Delta, Regional/Local	☐ Recycled Municipal Water
☐ Desalination - Brackish & Seawater	☐ Salt & Salinity Management
☐ Drinking Water Treatment and Distribution	☐ Surface Storage - CALFED
☐ Economic Incentives	☐ Surface Storage - Regional/Local
☐ Ecosystem Restoration	☐ System Reoperation
☑ Flood Risk Management	☐ Urban Runoff Management
☐ Forest Management	☐ Urban Water Use Efficiency
☐ Groundwater/Aquifer Remediation	☐ Water Transfers
☐ Land Use Planning & Management	☐ Water-Dependent Recreation
☐ Matching Water Quality to Water Use	☑ Watershed Management

Project No. 1013

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

General Information (Required)						
Project Name:	BSI#4 Well Assistance Program					
Project Sponsor:	Baja Sub-Advisory Committee (BSAC)					
If Joint Project, Other Partners:	J&E Johnson					
Project Website (if available):						
Project Contact Person:	Phone	FAX	Email			
Project Description						
Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)						
Conceptual						
Project Description (1 -2 sentences):						
BSI#4 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. May also include requests for financial assistence for SPW from Mojave River Pipeline						
Project Integration (Describe how the project does or could integrate with other projects in the Region): BSI#4 - 26,81						
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):						
Project Location						
Descriptive (Description of property location etc.): Baja Sub Area						
Latitude/Longitude - info available at:	http://geocoder.us/	Lat:		Long:		
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:		<$100K ☐	$100K - $1M ☑	$1M - $10M ☐	>$10M ☐	
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐	N/A ☐
Estimated Year of Completion:	Ongoing Program					

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐	1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Supply: *New Supply Created (AFY)* (Check one)	☑	1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐	1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐	1-100 AF	☐ 100-1000AF	☐ 1000+ AF
DACs Involvement *Y/N:*				Y
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				
Stormwater: *Reduction in Flood Damage (Y/N):*			Multi-benefit Y/N:	
Multi-stakeholder project/regional collaboration *Y/N:*				
Climate Change: *Helps assess potential impacts (Y/N):*				
Environmental Stewardship/Public Awareness *Direct Benefits:*				
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☐	1. 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.
☐	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☑	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☐	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☑	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☐	☐	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- ☐ Drought Preparedness
- ☐ Use and Reuse Water More Efficiently
- ☐ Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- ☐ Expand Environmental Stewardship
- ☐ Practice Integrated Flood Management
- ☐ Protect Surface and Groundwater Quality
- ☐ Improve Tribal Water and Natural Resources
- ☐ Ensure Equitable Distribution of Benefits

Program Preferences

- ☐ Include Regional Projects or Programs
- ☐ Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☐ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☑ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☐ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- ☐ Agricultural Lands Stewardship
- ☐ Agricultural Water Use Efficiency
- ☐ Conjunctive Management and Groundwater Storage
- ☐ Conveyance - Delta, Regional/Local
- ☐ Desalination - Brackish & Seawater
- ☑ Drinking Water Treatment and Distribution
- ☐ Economic Incentives
- ☐ Ecosystem Restoration
- ☐ Flood Risk Management
- ☐ Forest Management
- ☐ Groundwater/Aquifer Remediation
- ☐ Land Use Planning & Management
- ☐ Matching Water Quality to Water Use
- ☐ Pollution Prevention
- ☐ Precipitation Enhancement
- ☐ Recharge Areas Protection
- ☐ Recycled Municipal Water
- ☐ Salt & Salinity Management
- ☐ Surface Storage - CALFED
- ☐ Surface Storage - Regional/Local
- ☐ System Reoperation
- ☐ Urban Runoff Management
- ☐ Urban Water Use Efficiency
- ☐ Water Transfers
- ☐ Water-Dependent Recreation
- ☐ Watershed Management

Project No. 1014

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Water University		
Project Sponsor:	MWA/AWAC		
If Joint Project, Other Partners:	Mojave Water Agency, Alliance for Water Awareness and Conservation, Baja Sub-Advisory Committee, Joshua Basin Water District		
Project Website (if available):	www.mojavewater.org		
Project Contact Person: Nicholas Schneider	Phone 760-946-7038	FAX	Email nschneider@mojavewater.org

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

Implementable program

Project Description (1 -2 sentences):

The Water University Program is a comprehensive educationa 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 targest 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 nozzes, shower heads, etc. The fourth componet targests 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.
- Watershed Educational Awareness - 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.
- Groundwater Education Program - To enhance the education of our constituants on where their water comes from and how to protect it. This program will teach residentail and commercial users of water how we can maintain our groundwater levels.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

This project would help provide further support toexisting education programs in the region, and reach out to new groups including teachers, landscape professionals, and fire department personnel Project 30, 78, and 79. Also pulling ideas from 39, 40 and 99.(Joshua Basin's Project Submittals)

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Project Location

Descriptive (Description of property location etc.):
The entire Mojave Water Agency boundaries.

Latitude/Longitude - info available at: http://geocoder.us/	Lat:	Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:	<$100K	$100K - $1M	$1M - $10M	>$10M
	☐	☑	☐	☐

Project Status (Check all that apply):	Conceptual	In-Design	Ready to Implement	CEQA Complete	N/A
	☑	☐	☐	☐	☐

Estimated Year of Completion: This would be an ongoing project based on funding availability.

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☑ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
DACs Involvement *Y/N:*				Yes
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				
Stormwater: *Reduction in Flood Damage (Y/N):*			Multi-benefit Y/N:	
Multi-stakeholder project/regional collaboration *Y/N:*				
Climate Change: *Helps assess potential impacts (Y/N):*				
Environmental Stewardship/Public Awareness *Direct Benefits:*				
Other: *(Describe X amount of benefit)* A greater educated public will result in lower per capita consumption.				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☐	1. 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.
☐	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☑	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☑	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☐	☑	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☐	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☑	4. 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.
☐	☐	5. 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.
☑	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☑	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- [x] Drought Preparedness
- [x] Use and Reuse Water More Efficiently
- [ ] Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- [x] Expand Environmental Stewardship
- [ ] Practice Integrated Flood Management
- [ ] Protect Surface and Groundwater Quality
- [ ] Improve Tribal Water and Natural Resources
- [ ] Ensure Equitable Distribution of Benefits

Program Preferences

- [ ] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [x] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

[ ] Agricultural Lands Stewardship	[ ] Pollution Prevention
[ ] Agricultural Water Use Efficiency	[ ] Precipitation Enhancement
[ ] Conjunctive Management and Groundwater Storage	[ ] Recharge Areas Protection
[ ] Conveyance - Delta, Regional/Local	[ ] Recycled Municipal Water
[ ] Desalination - Brackish & Seawater	[ ] Salt & Salinity Management
[ ] Drinking Water Treatment and Distribution	[ ] Surface Storage - CALFED
[ ] Economic Incentives	[ ] Surface Storage - Regional/Local
[ ] Ecosystem Restoration	[ ] System Reoperation
[ ] Flood Risk Management	[ ] Urban Runoff Management
[ ] Forest Management	[ ] Urban Water Use Efficiency
[ ] Groundwater/Aquifer Remediation	[ ] Water Transfers
[ ] Land Use Planning & Management	[ ] Water-Dependent Recreation
[ ] Matching Water Quality to Water Use	[x] Watershed Management

Project No. 1015

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	San Bernardino County Flood Control District (SBCFCD) Integrated Flood Projects		
Project Sponsor:	San Bernardino County Flood Control District (SBCFCD)		
If Joint Project, Other Partners:			
Project Website (if available):	NA		
Project Contact Person:	Phone	FAX	Email
Harold Zamora	(909) 387-8120	(909) 387-7801	hzamora@dpw.sbcounty.gov

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

Construction of six (6) dention/recharge basins through out Region.

Project Description (1 -2 sentences):

Locations in the Region are: 1. Oak Hills Basin: The design of the proposed basin will include multiple features such as: inlet and outlet structures; channels and/or closed conduits; transition structures; headwalls and wingwalls, and basin embankments. Additionally, access roadways along tops of the embankments and around the basin, and access ramps to the basin floor. 2. Tussing - Juniper Basin. Tussing-Juniper Basin is a regional detention facility in accordance with the Apple Valley Master Plan of Drainage. It is located in the Town of Apple Valley area. 3. Donnell Basin: Donnell Basin is a regional detention facility in accordance with the Twentynine Palms Master Plan of Drainage. The project will include the re-construction of existing inlet and outlet channels, basin embankments, basin outlets - emergency spillway and Reinforced Concrete Box (RCB), construction of drainage inlets, access roads 20 feet wide on top of embankments and around the basin, and access ramps 20 feet wide. 4. Senca/Bus Barn Basin: Seneca/Bus Barn Basin was identified in the Victorville Master Plan of Drainage (MPD) as a priority facility for flood protection, water quality and water conservation for the High Desert area. The Basin will be earthen bottom and will include inlet, outlet and transition structures, channels and/or closed conduits, transition structures, wingwalls, headwalls, cut-off walls, basin embankments, emergency spillway, access roadways along tops of the embankments and around the basins and access ramps to the basin floor. 5. Mesa Linda Basin: Mesa Linda Basin was identified in the Victorville Master Plan of Drainage (MPD) as a priority facility for flood protection, water quality and water conservation for the High Desert area. The Basin will be earthen bottom as described previously. 6. Amethyst Basin / Oro Grande Wash: Amethyst Basin is located in the City of Victorville entirely within the Oro Grande Wash. The proposed basin and emergency spillway are designed to meet 100-year and 1000-year flows respectively per District standards. The Basin will be earthen bottomas described previously.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

Projects that were integrated into this project include original project nos. 108, 110, 111, 112, 113, and 114 - all sponsored by the SBC FCD. Bus Barn Basin is an element of an overall project that consists of the construction of three storm water detention basins: a primary basin, Amethyst to be constructed in 2014 , Mesa Linda Basin and Bus Barn Basin that will be phased in at a later date. Seneca Basin is an opportunity for water recharge.

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Victorville Master Plan of Drainage (MPD)

Project Location

Descriptive (Description of property location etc.):

Various locations in the Region.

Latitude/Longitude - info available at: http://geocoder.us/	Lat: 34.3867	Long: -117.3747

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Estimated Cost: Rough Estimates	<$100K ☐	$100K - $1M ☐	$1M - $10M ☐	>$10M ☑
Project Status (Check all that apply):	Conceptual ☑	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐ N/A ☐
Estimated Year of Completion:	Outside 10 year CIP program due to funding availability			

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
DACs Involvement	*Y/N:* Y (downstream area of the basin)			
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):	55 acres			
Stormwater: *Reduction in Flood Damage (Y/N):*	area of the basin)	Multi-benefit Y/N:		
Multi-stakeholder project/regional collaboration	*Y/N:* Y			
Climate Change: *Helps assess potential impacts (Y/N):*	N			
Environmental Stewardship/Public Awareness *Direct Benefits:*	N			
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☐	1. 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.
☐	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☑	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☑	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☐	☑	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☐	☐	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- [x] Drought Preparedness
- [x] Use and Reuse Water More Efficiently
- [ ] Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- [ ] Expand Environmental Stewardship
- [x] Practice Integrated Flood Management
- [ ] Protect Surface and Groundwater Quality
- [ ] Improve Tribal Water and Natural Resources
- [ ] Ensure Equitable Distribution of Benefits

Program Preferences

- [x] Include Regional Projects or Programs
- [x] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [x] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [x] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [x] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [x] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [x] Watershed Management

Mojave IRWM Plan
Integrated Regional Water Management Plan

Project No. 60R

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Reorganization between two adjacent small water agencies (BDVWA and CSA 70 Zone W-1 [Landers])		
Project Sponsor:	Bighorn-Desert View Water Agency		
If Joint Project, Other Partners:	Customers of CSA 70/Zone W-1		
Project Website (if available):			
Project Contact Person: Marina West	Phone: 760-364-2315	FAX: 760-364-3214	Email: bdvwa2@mindspring.com

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

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. This is beyond concept, BDVWA Board of Directors desires reorganization. Issue is how to accomplish.

Project Description (1 -2 sentences):

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 and evaluate physical infrastructure tie-in. Possible need for Master Plan identifying infrastructure improvements and build-out requirements.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

Propose that the project can be part of a larger integrated program incorporating all needs for small water systems. Project Nos. 6 - Bar-Len Arsenic and Metering Project (metering portion, Arsenic treatment could be integrated with projects like Project No. 80), Project No. 7 - Assistance Program for Small Drinking Water Systems, Project No. 15 - Center Water, Project No. 19 - Hinkley, Project No. 36 - Infrastructure Improvement Projects, Project No. 44 - Lucerne Valley Small Water Systems Feasibility, Project No. 45 - Mesa Tank #4, etc., Project No. 69 - SCADA, Project No. 74 - Water Infrastructure Restoration Program, Project Nos. 83, 84, and 85).

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

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. BDVWA Board of Directors desires reorganization to improve (cost) efficiencies, provide local governance and local agency office for customer service.

Project Location

Descriptive (Description of property location etc.):

"eastern" Landers.

Latitude/Longitude - info available at: http://geocoder.us/	Lat:	Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Estimated Cost:	<$100K ☑	$100K - $1M ☐	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):	Conceptual ☑	In-Design ☐	Ready to Implement ☑	CEQA Complete ☐ N/A ☐
Estimated Year of Completion: 2013/14				

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
DACs Involvement *Y/N:*	Yes			
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				
Stormwater: *Reduction in Flood Damage (Y/N):*		Multi-benefit Y/N:		
Multi-stakeholder project/regional collaboration *Y/N:*				
Climate Change: *Helps assess potential impacts (Y/N):*				
Environmental Stewardship/Public Awareness *Direct Benefits:*				
Other: *(Describe X amount of benefit)*				
Provide community now served by County of San Bernardino Special Districts Department with local governance (local elected board focused on water supply only), local office for customer service, cost efficiency.				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☑	☐	1. 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.
☐	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☑	☑	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☐	☑	**2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.**
☐	☑	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☑	☑	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☑	☑	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☑	☐	**5. 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.**
☐	☑	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- [ ] Drought Preparedness
- [ ] Use and Reuse Water More Efficiently
- [x] Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- [x] Expand Environmental Stewardship
- [ ] Practice Integrated Flood Management
- [ ] Protect Surface and Groundwater Quality
- [ ] Improve Tribal Water and Natural Resources
- [x] Ensure Equitable Distribution of Benefits

Program Preferences

- [ ] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [x] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [x] Drinking Water Treatment and Distribution
- [x] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [x] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [x] Watershed Management

Project No. 62R

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Revised Project 62 Water Conservation Ordinance		
Project Sponsor:			
If Joint Project, Other Partners:	MWA, San Bernardino County, Stakeholders and possibly Mojave Desert Recourse Conservation District		
Project Website (if available):	None		
Project Contact Person:	Phone	FAX	Email
Jim, Ellen Johnson	760 257 3299		Jimel1983@gmail.com

Project Description
Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)
Possibly all of the above?
Project Description (1 -2 sentences):
A water conservation ordinance in the unincorporated areas of San Bernardino County, within the MWA Jurisdictional Boundary. The MWA has said that the Judgment alone may not be adequate to address all of the water conservation measures that need to be taken to balance water supply and demands in the Baja Subarea. At a Silver Valley Farm Bureau meeting stakeholders were approached about singing into the stipulated agreement. At that time County Ordinance 810.0605-810.0610 was referred to, to be our protection against unauthorized production. This ordinance was removed in 2007. A new ordinance could help to insure an equitable share of the benefits made possible by the Physical Solution.
Project Integration (Describe how the project does or could integrate with other projects in the Region): A water conservation ordinance that could help with the Injunction Against Unauthorized Production (Judgment After Trial), and to help water users within each hydrological subarea to proceed with an orderly water resource planning and development. Project could integrate with Projects 1, 10, 11, 20, 46, and 71
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]): MWA, S.B. County and Stakeholders

Project Location		
Descriptive (Description of property location etc.): Unincorporated areas in the S.B. County within MWA's jurisdiction		
Latitude/Longitude - info available at: http://geocoder.us/	Lat:	Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):

Estimated Cost: ☐ ☐ ☐ ☐

	<$100K	$100K - $1M	$1M - $10M	>$10M
Project Status (Check all that apply):	☐ Conceptual	☐ In-Design	☐ Ready to Implement	☐ CEQA Complete ☐ N/A
Estimated Year of Completion:				

Project Benefits			
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
DACs Involvement *Y/N:*			
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*			
Stormwater: *Reduction in Flood Damage (Y/N):*		Multi-benefit Y/N:	
Multi-stakeholder project/regional collaboration *Y/N:*			
Climate Change: *Helps assess potential impacts (Y/N):*			
Environmental Stewardship/Public Awareness *Direct Benefits:*			
Other: *(Describe X amount of benefit)*			

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☑	☐	1. 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.
☑	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☑	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☑	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.

☐	☑	9. Improve stormwater management throughout the Plan area.
☑	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☐	☑	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☑	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☑	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☑	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☑	4. 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.
☑	☐	5. 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.
☐	☑	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☑	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities	
☑	Drought Preparedness
☑	Use and Reuse Water More Efficiently
☑	Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
☐	Expand Environmental Stewardship

☐	Practice Integrated Flood Management
☑	Protect Surface and Groundwater Quality
☐	Improve Tribal Water and Natural Resources
☑	Ensure Equitable Distribution of Benefits

Program Preferences

☑	Include Regional Projects or Programs
☑	Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA
☑	Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
☑	Effectively Resolve Significant Water-Related Conflicts within or between Regions
☐	Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
☑	Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
☑	Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

☑	Agricultural Lands Stewardship	☐	Pollution Prevention
☑	Agricultural Water Use Efficiency	☐	Precipitation Enhancement
☑	Conjunctive Management and Groundwater Storage	☑	Recharge Areas Protection
☐	Conveyance - Delta, Regional/Local	☐	Recycled Municipal Water
☐	Desalination - Brackish & Seawater	☐	Salt & Salinity Management
☐	Drinking Water Treatment and Distribution	☐	Surface Storage - CALFED
☐	Economic Incentives	☐	Surface Storage - Regional/Local
☑	Ecosystem Restoration	☐	System Reoperation
☐	Flood Risk Management	☐	Urban Runoff Management
☐	Forest Management	☐	Urban Water Use Efficiency
☑	Groundwater/Aquifer Remediation	☑	Water Transfers
☑	Land Use Planning & Management	☑	Water-Dependent Recreation

☐	Matching Water Quality to Water Use	☑	Watershed Management

Project No. 63

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name: SHEEP CREEK WASH STORM WATER RETENTION			
Project Sponsor: PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT			
If Joint Project, Other Partners: POTENTIALLY SAN BERNARDINO FLOOD CONTROL			
Project Website (if available):			
Project Contact Person:	Phone	FAX	Email
DON BARTZ	760.868.1212	760.868.2323	DBARTZ@PPHCSD.ORG

Project Description
Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)
CONCEPTUAL
Project Description (1-2 sentences):
STORM WATER CAPTURE
Project Integration (Describe how the project does or could integrate with other projects in the Region):
POTENTIAL JOINT VENTURE W/ SAN BERNARDINO COUNTY FLOOD CONTROL
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Project Location				
Descriptive (Description of property location etc.): VACANT LAND W/ NATIVE VEGETATION & JOSHUA TREES / [illegible]				
Latitude/Longitude - info available at http://geocoder.us		Lat: N 34° 26.70	Long: W 117° 36.70	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:	<$100K ☐	$100K - $1M ☐	$1M - $10M ☑	>$10M ☐
Project Status (Check all that apply):	Conceptual ☑	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐ N/A ☐
Estimated Year of Completion: 2020				

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☒ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☒ 100-1000AF	☐ 1000+ AF	
DACs Involvement	*Y/N:*			
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				
Stormwater:	*Reduction in Flood Damage (Y/N):* YES	Multi-benefit Y/N: YES		
Multi-stakeholder project/regional collaboration	*Y/N:*			
Climate Change:	*Helps assess potential impacts (Y/N):*			
Environmental Stewardship/Public Awareness	*Direct Benefits:*			
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☒	1. 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.
☒	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☒	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☒	☐	9. Improve stormwater management throughout the Plan area.
☐	☒	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☒	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☒	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☒	☐	4. 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.
☐	☐	5. 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.
☒	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☒	6. Prevent land subsidence throughout the Region.

Statewide Priorities	
☒	Drought Preparedness
☒	Use and Reuse Water More Efficiently
☒	Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
☐	Expand Environmental Stewardship
☒	Practice Integrated Flood Management
☒	Protect Surface and Groundwater Quality
☐	Improve Tribal Water and Natural Resources
☐	Ensure Equitable Distribution of Benefits

Program Preferences	
☐	Include Regional Projects or Programs
☐	Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
☐	Effectively Resolve Significant Water-Related Conflicts within or between Regions
☐	Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
☒	Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
☐	Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies			
☐	Agricultural Lands Stewardship	☒	Pollution Prevention
☐	Agricultural Water Use Efficiency	☒	Precipitation Enhancement
☒	Conjunctive Management and Groundwater Storage	☒	Recharge Areas Protection
☐	Conveyance - Delta, Regional/Local	☐	Recycled Municipal Water
☐	Desalination - Brackish & Seawater	☐	Salt & Salinity Management
☐	Drinking Water Treatment and Distribution	☐	Surface Storage - CALFED
☐	Economic Incentives	☐	Surface Storage - Regional/Local
☒	Ecosystem Restoration	☐	System Reoperation
☒	Flood Risk Management	☐	Urban Runoff Management
☐	Forest Management	☐	Urban Water Use Efficiency
☒	Groundwater/Aquifer Remediation	☐	Water Transfers
☐	Land Use Planning & Management	☐	Water-Dependent Recreation
☐	Matching Water Quality to Water Use	☒	Watershed Management

Mojave IRWM Plan
Integrated Regional Water Management Plan

Project No. 64

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Silver Lakes Association Stormwater Debris - retention basin, Buckthorn Wash at Mountain Springs Road		
Project Sponsor:	Silver Lakes Association		
If Joint Project, Other Partners:	Helendale Community Services District		
Project Website (if available):			
Project Contact Person: Michael Bennett - GM	Phone: 760-245-1606	FAX:	Email: mbennett@silverlakesassociation.com

Project Description
Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program): Conceptual
Project Description (1 -2 sentences): 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'
Project Integration (Describe how the project does or could integrate with other projects in the Region): This debris interceptor would reduce damage to Golf Course and reduce sediment and debris flowing into a proposed off river retention-percolation basin at Helendale Rd.
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Project Location		
Descriptive (Description of property location etc.): 100' east of Mountain Springs Road overpass at Buckthorn Wash, Helendale, CA		
Latitude/Longitude - info available at: http://geocoder.us/	Lat: 34,45', 16.06" N	Long: 117, 20' 48.79" W

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:	<$100K	$100K - $1M	$1M - $10M	>$10M
	[X]	[ ]	[ ]	[ ]

Project Status (Check all that apply):	Conceptual	In-Design	Ready to Implement	CFQA Complete	N/A
	XX [X]	[ ]	[ ]	[ ]	[ ]

Estimated Year of Completion:

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
DACs Involvement *Y/N:*				
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				
Stormwater: *Reduction in Flood Damage (Y/N):* YES		Multi-benefit Y/N:		
Multi-stakeholder project/regional collaboration *Y/N:*				
Climate Change: *Helps assess potential impacts (Y/N):*				
Environmental Stewardship/Public Awareness *Direct Benefits:*				
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☐	1. 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.
☐	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☒	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☒	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☐	☐	5. 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.
☐	☒	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities	
☐	Drought Preparedness
☐	Use and Reuse Water More Efficiently
☐	Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
☐	Expand Environmental Stewardship
☒	Practice Integrated Flood Management
☐	Protect Surface and Groundwater Quality
☐	Improve Tribal Water and Natural Resources
☐	Ensure Equitable Distribution of Benefits

Program Preferences	
☐	Include Regional Projects or Programs
☒	Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
☐	Effectively Resolve Significant Water-Related Conflicts within or between Regions
☐	Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
☐	Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
☒	Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies			
☐	Agricultural Lands Stewardship	☒	Pollution Prevention
☐	Agricultural Water Use Efficiency	☐	Precipitation Enhancement
☐	Conjunctive Management and Groundwater Storage	☐	Recharge Areas Protection
☐	Conveyance - Delta, Regional/Local	☐	Recycled Municipal Water
☐	Desalination - Brackish & Seawater	☐	Salt & Salinity Management
☐	Drinking Water Treatment and Distribution	☐	Surface Storage - CALFED
☐	Economic Incentives	☐	Surface Storage - Regional/Local
☐	Ecosystem Restoration	☐	System Reoperation
☒	Flood Risk Management	☐	Urban Runoff Management
☐	Forest Management	☐	Urban Water Use Efficiency
☐	Groundwater/Aquifer Remediation	☐	Water Transfers
☒	Land Use Planning & Management	☐	Water-Dependent Recreation
☐	Matching Water Quality to Water Use	☐	Watershed Management

Project No. 65

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)				
Project Name:	State Water Project Utilization & Efficiency Strategy			
Project Sponsor:	Mojave Water Agency			
If Joint Project, Other Partners:	Other State Water Contractors; other water agencies			
Project Website (if available):				
Project Contact Person: Kathy Cortner	Phone 760-946-7000	FAX	Email	

Project Description
Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)
Concept; Program
Project Description (1-2 sentences):
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 conjuctive use, groundwater and surface water storage programs, etc.
Project Integration (Describe how the project does or could integrate with other projects in the Region):
The program could be integrated with many planned or existing water supply projects in the region, particularly local groundwater storage infrastructure, and could also be integrated with other IRWM regions' programs.
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Project Location					
Descriptive (Description of property location etc.): Mojave IRWM Region, other IRWM regions with access to SWP water.					
Latitude/Longitude - info available at:	http://geocoder.us/	Lat:		Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:		<$100K ☐	$100K - $1M ☐	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐ N/A ☐
Estimated Year of Completion:	Ongoing				

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☑ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☑ 1000+ AF	
DACs Involvement	*Y/N:*		No	
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):		No		
Stormwater:	*Reduction in Flood Damage (Y/N):* No		Multi-benefit Y/N: No	
Multi-stakeholder project/regional collaboration	*Y/N:*		Yes	
Climate Change:	*Helps assess potential impacts (Y/N):*		No	
Environmental Stewardship/Public Awareness	*Direct Benefits:*	No		
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☑	1. 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.
☐	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☐	☑	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☑	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☑	☐	4. 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.
☑	☐	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- [x] Drought Preparedness
- [ ] Use and Reuse Water More Efficiently
- [ ] Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- [ ] Expand Environmental Stewardship
- [ ] Practice Integrated Flood Management
- [ ] Protect Surface and Groundwater Quality
- [ ] Improve Tribal Water and Natural Resources
- [x] Ensure Equitable Distribution of Benefits

Program Preferences

- [x] Include Regional Projects or Programs
- [x] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [x] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [x] Conjunctive Management and Groundwater Storage
- [x] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [x] Surface Storage - CALFED
- [x] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [ ] Watershed Management

Project No. 66R

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **September 12, 2013** to comments@mywaterplan.com.

General Information (Required)				
Project Name:	State Water Project Water Treatment Plant in conjunction with R3 project			
Project Sponsor:	Mojave Water Agency			
If Joint Project, Other Partners:				
Project Website (if available):				
Project Contact Person: Darrell Reynolds	Phone 760-946-7023	FAX 760-240-2001	Email dreynolds@mojavewater.org	
Project Description				
Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)				
Conceptual				
Project Description (1 -2 sentences):				
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.				
Project Integration (Describe how the project does or could integrate with other projects in the Region): The project would be designed so water can be delivered through the R3 distribution system.				
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]): West of hwy 395 near aqueduct or at Deep Creek Turnout.				
Project Location				
Descriptive (Description of property location etc.):				
Latitude/Longitude - info available at: http://geocoder.us/	Lat:		Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:	<$100K ☐	$100K - $1M ☐	$1M - $10M ☐	>$10M ☑
Project Status (Check all that apply):	Conceptual ☑	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐ N/A ☐
Estimated Year of Completion:				

Project Benefits			
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☑ 1000+ AF
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☑ 1000+ AF
DACs Involvement *Y/N:*			
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):			
Stormwater: *Reduction in Flood Damage (Y/N):*		Multi-benefit Y/N:	
Multi-stakeholder project/regional collaboration *Y/N:*			
Climate Change: *Helps assess potential impacts (Y/N):*			
Environmental Stewardship/Public Awareness *Direct Benefits:*			
Other: *(Describe X amount of benefit)*			

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☑	☐	1. 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.
☑	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☑	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☑	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☑	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☑	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☑	☐	4. 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.
☑	☐	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- [x] Drought Preparedness
- [x] Use and Reuse Water More Efficiently
- [ ] Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- [ ] Expand Environmental Stewardship
- [ ] Practice Integrated Flood Management
- [ ] Protect Surface and Groundwater Quality
- [ ] Improve Tribal Water and Natural Resources
- [ ] Ensure Equitable Distribution of Benefits

Program Preferences

- [ ] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [x] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [x] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [ ] Watershed Management

Project No. 68R

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Storm Water Retention and Percolation in Hondo Wash Ruby Wash		
Project Sponsor:	Bighorn Desert View Water Agency and Mojave Water Agency (?) and/or other sponsors (water districts, city's, unincorp. County)		
If Joint Project, Other Partners:			
Project Website (if available):			
Project Contact Person: Marina West	Phone: 760-364-2315	FAX: 760-364-3412	Email: bdvwa2@mindspring.com

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)
Conceptual

Project Description (1-2 sentences):
Retain storm flows in Hondo Wash and other drainages in the area 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).

Project Integration (Describe how the project does or could integrate with other projects in the Region):
Flood control and rainwater capture and reuse are regional challenges. Project can be integrated with the following projects already proposed, Project Nos. 8, 9, 14, 22, 29, 35, 43, 47, 53, 59, 63, 64, 75, 101 and 103.

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):
Conceptual

Project Location

Descriptive (Description of property location etc.):
Along "upper" Hondo Wash above the desert floor where rainfall totals are highest. Concept could be applied to other washes in the water shed (Pipes Wash, Covington Wash, Water Canyon - all in the Morongo Basin. Probably similar areas outside the Morongo Basin).

Latitude/Longitude - info available at: http://geocoder.us/	Lat: 34.250787	Long: -116.463356

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Estimated Cost: est. near $100K	<$100K ☐	$100K - $1M ☑	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):	Conceptual ☑	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐ N/A ☐
Estimated Year of Completion: 2014-2025				

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☑ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☑ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☑ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
DACs Involvement	*Y/N:*	Yes		
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				
Stormwater:	*Reduction in Flood Damage (Y/N):* Yes	Multi-benefit Y/N: Y (?)		
Multi-stakeholder project/regional collaboration	*Y/N:*	Y - possibly with similar projects		
Climate Change:	*Helps assess potential impacts (Y/N):*			
Environmental Stewardship/Public Awareness	*Direct Benefits:*			
Other: *(Describe X amount of benefit)*				

If 100 AF could be captured and percolated per year that would provide for about 7% of the groundwater resource used by multiple parties under the Ames/Reche Groundwater Management Plan and Stipulated Judgment if that water was otherwise counted as lost due to runoff during high flow storm events.

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☑	☐	1. 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.
☐	☑	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☑	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☑	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☑	☐	9. Improve stormwater management throughout the Plan area.
☑	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☑	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☑	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☑	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☑	☐	4. 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.
☑	☐	5. 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.
☐	☑	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities	
☑	Drought Preparedness
☑	Use and Reuse Water More Efficiently
☑	Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
☐	Expand Environmental Stewardship
☑	Practice Integrated Flood Management
☑	Protect Surface and Groundwater Quality
☐	Improve Tribal Water and Natural Resources
☑	Ensure Equitable Distribution of Benefits

Program Preferences	
☐	Include Regional Projects or Programs
☐	Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
☐	Effectively Resolve Significant Water-Related Conflicts within or between Regions
☐	Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
☐	Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
☐	Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies			
☐	Agricultural Lands Stewardship	☐	Pollution Prevention
☐	Agricultural Water Use Efficiency	☐	Precipitation Enhancement
☑	Conjunctive Management and Groundwater Storage	☐	Recharge Areas Protection
☑	Conveyance - Delta, Regional/Local	☐	Recycled Municipal Water
☐	Desalination - Brackish & Seawater	☐	Salt & Salinity Management
☐	Drinking Water Treatment and Distribution	☐	Surface Storage - CALFED
☐	Economic Incentives	☐	Surface Storage - Regional/Local
☐	Ecosystem Restoration	☐	System Reoperation
☑	Flood Risk Management	☑	Urban Runoff Management
☐	Forest Management	☐	Urban Water Use Efficiency
☐	Groundwater/Aquifer Remediation	☐	Water Transfers
☑	Land Use Planning & Management	☐	Water-Dependent Recreation
☐	Matching Water Quality to Water Use	☑	Watershed Management

Project No. 72

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name: Indian Cove Stormwater Capture and Recharge Project			
Project Sponsor: Twentynine Palms Water District/Joshua Basin Water District			
If Joint Project, Other Partners: See Above			
Project Website (if available):			
Project Contact Person: Tamara Alaniz	Phone	FAX	Email

Project Description
Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)
Conceptual - Stormwater Capture and Recharge
Project Description (1 -2 sentences):
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.
Project Integration (Describe how the project does or could integrate with other projects in the Region):
This ides stems from a joint discussion between the Twentynine Palms and Joshua Basin Water Districts, in order to recharge the Indian Cove groundwater basin through stormwater capture.
Project Source (Cite Plan(s) to which the project belongs (e.g., Watershed Master Plans, Capital Improvement Plans]):
Not presently included in adopted plans, but the concept is identified in the 2010 29PWD UWMP

Project Location		
Descriptive (Description of property location etc.): Indian Cove Groundwater Basin, western portion of Twentynine Palms Water District service area and eastern portion of Joshua Basin Water District service area.		
Latitude/Longitude - info available at: http://geocoder.us/	Lat:	Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:	<$100K ☐	$100K - $1M ☐	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):	Conceptual ☐	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐ N/A ☐
Estimated Year of Completion: 2016-2017				

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☑ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☑ 100-1000AF	☐ 1000+ AF	
DACs Involvement	*Y/N:* Yes			
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				
Stormwater:	*Reduction in Flood Damage (Y/N):*	Multi-benefit Y/N:		
Multi-stakeholder project/regional collaboration	*Y/N:* Yes			
Climate Change:	*Helps assess potential impacts (Y/N):*			
Environmental Stewardship/Public Awareness	*Direct Benefits:*			
Other: *(Describe X amount of benefit)*				

Limited flood control benefits

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☑	☐	1. 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.
☑	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☑	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☑	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☑	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☐	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☐	☐	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- [x] Drought Preparedness
- [ ] Use and Reuse Water More Efficiently
- [ ] Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- [ ] Expand Environmental Stewardship
- [ ] Practice Integrated Flood Management
- [x] Protect Surface and Groundwater Quality
- [ ] Improve Tribal Water and Natural Resources
- [x] Ensure Equitable Distribution of Benefits

Program Preferences

- [ ] Include Regional Projects or Programs
- [x] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [x] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [x] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [x] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [x] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [x] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [x] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [x] Watershed Management

Project No. 73

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name: Indian Cove Stormwater Capture and Recharge Project			
Project Sponsor: Twentynine Palms Water District/Joshua Basin Water District			
If Joint Project, Other Partners: See Above			
Project Website (if available):			
Project Contact Person:	Phone	FAX	Email
Tamara Alaniz	760-367-7546		talaniz@29palmswater.org

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

Conceptual - Stormwater Capture and Recharge

Project Description (1 -2 sentences):

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.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

This ides stems from a joint discussion between the Twentynine Palms and Joshua Basin Water Districts, in order to recharge the Indian Cove groundwater basin through stormwater capture.

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Not presently included in adopted plans, but the concept is identified in the 2010 29PWD UWMP

Project Location

Descriptive (Description of property location etc.):

Indian Cove Groundwater Basin, western portion of Twentynine Palms Water District service area and eastern portion of Joshua Basin Water District service area.

Latitude/Longitude - info available at: http://geocoder.us/	Lat:	Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:	<$100K	$100K - $1M	$1M - $10M	>$10M
	☐	☐	☑	☐

Project Status (Check all that apply):	Conceptual	In-Design	Ready to Implement	CEQA Complete	N/A
	☐	☑	☐	☐	☐

Estimated Year of Completion:
2016-2017

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☑ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
DACs Involvement	*Y/N:* Yes			
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*				
Stormwater:	*Reduction in Flood Damage (Y/N):*	Multi-benefit Y/N:		
Multi-stakeholder project/regional collaboration	*Y/N:* Yes			
Climate Change:	*Helps assess potential impacts (Y/N):*			
Environmental Stewardship/Public Awareness	*Direct Benefits:*			
Other: *(Describe X amount of benefit)*				

Limited flood control benefits

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☐	1. 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.
☐	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☑	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☐	☑	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☑	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☑	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☑	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☐	☐	5. 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.
☑	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities	
☐	Drought Preparedness
☑	Use and Reuse Water More Efficiently
☐	Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
☑	Expand Environmental Stewardship
☐	Practice Integrated Flood Management
☑	Protect Surface and Groundwater Quality
☑	Improve Tribal Water and Natural Resources
☐	Ensure Equitable Distribution of Benefits

Program Preferences	
☐	Include Regional Projects or Programs
☑	Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
☐	Effectively Resolve Significant Water-Related Conflicts within or between Regions
☐	Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
☑	Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
☐	Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies			
☐	Agricultural Lands Stewardship	☑	Pollution Prevention
☐	Agricultural Water Use Efficiency	☐	Precipitation Enhancement
☐	Conjunctive Management and Groundwater Storage	☐	Recharge Areas Protection
☐	Conveyance - Delta, Regional/Local	☐	Recycled Municipal Water
☐	Desalination - Brackish & Seawater	☑	Salt & Salinity Management
☑	Drinking Water Treatment and Distribution	☐	Surface Storage - CALFED
☐	Economic Incentives	☐	Surface Storage - Regional/Local
☐	Ecosystem Restoration	☐	System Reoperation
☐	Flood Risk Management	☐	Urban Runoff Management
☐	Forest Management	☑	Urban Water Use Efficiency
☑	Groundwater/Aquifer Remediation	☐	Water Transfers
☐	Land Use Planning & Management	☐	Water-Dependent Recreation
☑	Matching Water Quality to Water Use	☑	Watershed Management

Mojave IRWM Plan
Integrated Regional Water Management Plan

Project No. 74R

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Water Infrastructure Restoration Program: Pipeline Installation/Replacement Project		
Project Sponsor:	Bighorn-Desert View Water Agency		
If Joint Project, Other Partners:			
Project Website (if available):			
Project Contact Person: Marina West	Phone: 760-364-2315	FAX: 760-364-3412	Email: bdvwa2@mindspring.com

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

Conceptual from BDVWA 2007 Water Master Plan

Project Description (1 -2 sentences):

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 adn public safety.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

This project could be integrated with the small system reorganization and system-wide improvement projects listed.

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

BDVWA Water Master Plan and 2010 Water Infrastructure Restoration Program: ...Pipeline Installation/Replacement Project CEQA - Mitigated Negative Declaration certified June 29, 2010.

Project Location

Descriptive (Description of property location etc.):

Mainline "backbone" upgrade from the south end to the north end of the Agency's pressurized water system, upgrade fire hydrants and install additional isolation valves per Agency Master Plan.

Latitude/Longitude - info available at: http://geocoder.us/	Lat: 34.241801	Long: -116.456263

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:		<$100K	$100K - $1M	$1M - $10M	>$10M
		☐	☐	☑	☐
Project Status (Check all that apply):	CEQA completed 2010, permits may still be required. NEPA may be required	Conceptual ☑	In-Design ☐	Ready to Implement ☐	CEQA Complete ☑ N/A ☐
Estimated Year of Completion:	Growth in Agency will dictate necessary completion schedule.				

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐	1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Supply: *New Supply Created (AFY)* (Check one)	☐	1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐	1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐	1-100 AF	☐ 100-1000AF	☐ 1000+ AF
DACs Involvement *Y/N:*	Yes			
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):				
Stormwater: *Reduction in Flood Damage (Y/N):*			Multi-benefit Y/N:	
Multi-stakeholder project/regional collaboration *Y/N:*	possibly			
Climate Change: *Helps assess potential impacts (Y/N):*				
Environmental Stewardship/Public Awareness *Direct Benefits:*				
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☐	1. 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.
☐	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☑	☑	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☐	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☑	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☑	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☐	☑	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- ☐ Drought Preparedness
- ☐ Use and Reuse Water More Efficiently
- ☐ Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- ☐ Expand Environmental Stewardship
- ☐ Practice Integrated Flood Management
- ☐ Protect Surface and Groundwater Quality
- ☐ Improve Tribal Water and Natural Resources
- ☑ Ensure Equitable Distribution of Benefits

Program Preferences

- ☐ Include Regional Projects or Programs
- ☐ Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☐ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☐ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☐ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- ☐ Agricultural Lands Stewardship
- ☐ Agricultural Water Use Efficiency
- ☐ Conjunctive Management and Groundwater Storage
- ☐ Conveyance - Delta, Regional/Local
- ☐ Desalination - Brackish & Seawater
- ☑ Drinking Water Treatment and Distribution
- ☐ Economic Incentives
- ☐ Ecosystem Restoration
- ☐ Flood Risk Management
- ☐ Forest Management
- ☐ Groundwater/Aquifer Remediation
- ☑ Land Use Planning & Management
- ☐ Matching Water Quality to Water Use
- ☐ Pollution Prevention
- ☐ Precipitation Enhancement
- ☐ Recharge Areas Protection
- ☐ Recycled Municipal Water
- ☐ Salt & Salinity Management
- ☐ Surface Storage - CALFED
- ☐ Surface Storage - Regional/Local
- ☐ System Reoperation
- ☐ Urban Runoff Management
- ☐ Urban Water Use Efficiency
- ☐ Water Transfers
- ☐ Water-Dependent Recreation
- ☐ Watershed Management

Project No. 82

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Wrightwood Imported Water Project		
Project Sponsor:	Golden State Water Co - Wrightwood		
If Joint Project, Other Partners:			
Project Website (if available):			
Project Contact Person: Perry Dahlstrom	Phone: 760-247-3391 ext101	FAX:	Email: Perry.Dahlstrom@gswater.com

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)

The project includes study, design and facilities.

Project Description (1 -2 sentences):

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.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

During two periods of low precipitation, GSWC had to truck water to the Wrightwood system. Based on analysis of the precipitation and subsequent recharge patterns this conditions will repeat with two consecutive below normal precipitation periods. The system needs a reliable source of supply under all climate conditions and possibly participate in the Mojave Water Agency's Regional Recharge and Recovery Project (R-Cubed).

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Capital Improvement, water reliability, drought reliability

Project Location

Descriptive (Description of property location etc.):

TBD

Latitude/Longitude - info available at: http://geocoder.us/	Lat:	Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate): Estimated Cost:	<$100K ☐	$100K - $1M ☐	$1M - $10M ☐	>$10M ☑
Project Status (Check all that apply):	Conceptual ☑	In-Design ☑	Ready to Implement ☐	CEQA Complete ☐ N/A ☐
Estimated Year of Completion:	2018			

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐	1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Supply: *New Supply Created (AFY)* (Check one)	☐	1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐	1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐	1-100 AF	☐ 100-1000AF	☐ 1000+ AF
DACs Involvement *Y/N:*				No
Public Access, Open Space, Habitat, Recreation (*acres created/restored*).				
Stormwater: *Reduction in Flood Damage (Y/N):* N			Multi-benefit Y/N: N	
Multi-stakeholder project/regional collaboration *Y/N:*			Yes	
Climate Change: *Helps assess potential impacts (Y/N):*			Yes	
Environmental Stewardship/Public Awareness *Direct Benefits:*				
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☑	☐	1. 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.
☑	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☑	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☑	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☑	9. Improve stormwater management throughout the Plan area.
☐	☑	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☑	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☑	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☑	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☑	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☑	☐	4. 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.
☑	☐	5. 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.
☐	☑	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☑	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- ☐ Drought Preparedness
- ☐ Use and Reuse Water More Efficiently
- ☐ Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- ☐ Expand Environmental Stewardship
- ☐ Practice Integrated Flood Management
- ☐ Protect Surface and Groundwater Quality
- ☐ Improve Tribal Water and Natural Resources
- ☐ Ensure Equitable Distribution of Benefits

Program Preferences

- ☐ Include Regional Projects or Programs
- ☐ Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☐ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☐ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☐ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

- ☐ Agricultural Lands Stewardship
- ☐ Agricultural Water Use Efficiency
- ☐ Conjunctive Management and Groundwater Storage
- ☐ Conveyance - Delta, Regional/Local
- ☐ Desalination - Brackish & Seawater
- ☐ Drinking Water Treatment and Distribution
- ☐ Economic Incentives
- ☐ Ecosystem Restoration
- ☐ Flood Risk Management
- ☐ Forest Management
- ☐ Groundwater/Aquifer Remediation
- ☐ Land Use Planning & Management
- ☐ Matching Water Quality to Water Use
- ☐ Pollution Prevention
- ☐ Precipitation Enhancement
- ☐ Recharge Areas Protection
- ☐ Recycled Municipal Water
- ☐ Salt & Salinity Management
- ☐ Surface Storage - CALFED
- ☐ Surface Storage - Regional/Local
- ☐ System Reoperation
- ☐ Urban Runoff Management
- ☐ Urban Water Use Efficiency
- ☐ Water Transfers
- ☐ Water-Dependent Recreation
- ☐ Watershed Management

Project No. 86

Mojave IRWM Plan
Integrated Regional Water Management Plan

Mojave Integrated Regional Water Management Plan

Project Identification - Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form should be submitted via email or mail BY **August 1, 2013** to comments@mywaterplan.com.

General Information (Required)			
Project Name:	Alta Loma Reservoir Replacement		
Project Sponsor:	Hi-Desert Water District		
If Joint Project, Other Partners:	N/A		
Project Website (if available):	N		
Project Contact Person:	Phone	FAX	Email
Mark Ban	(760) 365-7412	(760) 365-0599	markb@hdwd.com

Project Description

Project Type (e.g. Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program)
Water Infrastructure Improvement

Project Description (1 -2 sentences):
Replace current 1 MG welded steel reservoir that is deficient in capacity by 250,000 gallons with a new 2 MG reservoir.

Project Integration (Describe how the project does or could integrate with other projects in the Region):
N/A

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):
Captial Improvement Plan (2007 Water System Master Plan)

Project Location

Descriptive (Description of property location etc.):
On Sage Ave, approx. 1,000 ft. north of Kismet Dr.

Latitude/Longitude - info available at: http://geocoder.us/	Lat: 34°05'24.81"N	Long: 116°25'23.04"W

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Estimated Cost:	<$100K ☐	$100K - $1M ☐	$1M - $10M ☑	>$10M ☐
Project Status (Check all that apply):	Conceptual ☑	In-Design ☐	Ready to Implement ☐	CEQA Complete ☐ N/A ☐
Estimated Year of Completion:	2016-17			

Project Benefits				
Water Demand: *Water Savings/Demand Reduction (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Recycled Water: *New RW Supply created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Groundwater: *Reduction in overdraft/increase in recharge (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
DACs Involvement	*Y/N:*			Y
Public Access, Open Space, Habitat, Recreation (*acres created/restored*):			N/A	
Stormwater:	*Reduction in Flood Damage (Y/N):* N/A		Multi-benefit Y/N: N	
Multi-stakeholder project/regional collaboration	*Y/N:*		N	
Climate Change:	*Helps assess potential impacts (Y/N):*		N	
Environmental Stewardship/Public Awareness	*Direct Benefits:*	N/A	N/A	N/A
Other: *(Describe X amount of benefit)*				
Increase of 1 MG in water storage capacity to ensure adequate emergency storage (current 250k deficit).				

Project Criteria

Please review the project against the IRWM Plan Objectives, Statewide Priorities, Program Preferences, and California Water Plan Resource Management Strategies and place a check in the box if the project meets the criteria.

IRWM Plan Objectives Met

Prim.	Second.	
☐	☐	1. 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.
☐	☐	3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.
☐	☐	7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.
☐	☐	8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.
☐	☐	9. Improve stormwater management throughout the Plan area.
☐	☐	2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.
☐	☐	10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.
☐	☐	11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.
☑	☐	13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.
☐	☐	14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.
☐	☐	4. 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.
☑	☐	5. 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.
☐	☐	12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.
☐	☐	6. Prevent land subsidence throughout the Region.

Statewide Priorities

- ☐ Drought Preparedness
- ☐ Use and Reuse Water More Efficiently
- ☐ Climate Change Response Actions (Adaptation to Climate Change, Reduction of Greenhouse Gas Emissions, Reduce Energy Consumption)
- ☐ Expand Environmental Stewardship
- ☐ Practice Integrated Flood Management
- ☐ Protect Surface and Groundwater Quality
- ☐ Improve Tribal Water and Natural Resources
- ☐ Ensure Equitable Distribution of Benefits

Program Preferences

- ☐ Include Regional Projects or Programs
- ☐ Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☐ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☑ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☐ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Resource Management Strategies

☐ Agricultural Lands Stewardship	☐ Pollution Prevention
☐ Agricultural Water Use Efficiency	☐ Precipitation Enhancement
☐ Conjunctive Management and Groundwater Storage	☐ Recharge Areas Protection
☐ Conveyance - Delta, Regional/Local	☐ Recycled Municipal Water
☐ Desalination - Brackish & Seawater	☐ Salt & Salinity Management
☑ Drinking Water Treatment and Distribution	☐ Surface Storage - CALFED
☐ Economic Incentives	☐ Surface Storage - Regional/Local
☐ Ecosystem Restoration	☑ System Reoperation
☐ Flood Risk Management	☐ Urban Runoff Management
☐ Forest Management	☐ Urban Water Use Efficiency
☐ Groundwater/Aquifer Remediation	☐ Water Transfers
☐ Land Use Planning & Management	☐ Water-Dependent Recreation
☐ Matching Water Quality to Water Use	☐ Watershed Management

Project No. 92R

Mojave Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY ***August 1, 2013*** to **comments@mywaterplan.com**. Items denoted with an asterisk are required.

PART 1: LEAD IMPLEMENTING AGENCY/ORGANIZATIONAL INFORMATION

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Hi-Desert Water District

Agency / Organization / Individual Address:

55439 29 Palms Hwy.
Yucca Valley, CA. 92284

Possible Partnering Agencies:

Name:*

Mark Ban

Title:

Assistant General Manager

Telephone:* (760) 365-7412

Fax: (760) 365-0599

Email:*

markb@hdwd.com

Website:

www.hdwd.com

Project Name:*

Wastewater Reclamation Project

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°07'51.28"N **Project Longitude:** 116°22' 28.90"W

Location Description:	Centralized wastewater treatment and collection system within the Town of Yucca Valley, CA. Treatment facility location is west of La Contenta Rd. with a cross street to the south of Sunnyslope Dr. Wastewater collection facilities are planned for the majority of the Town of Yucca Valley limits. (Lat and Long provided above is relative to proposed treatment plant location).

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Colorado River Basin Regional Water Quality Control Board
- Town of Yucca Valley
- Hi-Desert Water District's Public Advisory Committee
- Mojave Water Agency
- State Water Resources Control Board
- United States Bureau of Reclamation
- Department of Water Resources

Project Status (e.g., new, ongoing, expansion, new phase):

New; currently undergoing collection system design.

Project Type (e.g., Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program):

Implementable Project

*PART 2: PROJECT NEED**

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Mojave IRWM Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

The Colorado River Basin Regional Water Quality Control Board (the "Regional Board") identified the Town of Yucca Valley as a priority for the elimination of septic tanks due to increased nitrate concentrations within produced water extracted from the Warren Valley Subbasin (the "Basin"). The Basin serves as the primary source of water for Hi-Desert Water District (the "District") and the Town's environs. Currently, septic tanks are the primary method of wastewater disposal.
As a result of septic tank discharge, septage has been allowed to infiltrate the Basin causing nitrate concentrations to exceed the California Department of Public Health's (CDPH) maximum contaminant level (MCL) for nitrate of 45 milligrams per liter (mg/L). Due to the contamination of the Basin, on May 19, 2011, the Regional Board, through an amendment of the local Water Quality Control Plan ("Basin Plan") adopted a septic tank prohibition for the Town. The Prohibition becomes enforceable on three specific dates

based on a phased approach outlined within the District's Sewer Master Plan referred to as Phases I, II and III. The prohibition dates for each Phase are May 19, 2016, 2019 and 2022 respectively.
Without the implementation of this project, the community's water supply will continue to be contaminated by nitrates and other potential contaminates found within septic discharge. In addition, allocations of State Water Project water used to recharge the Basin to combat historic overdraft conditions and provide a water supply for current and future water demands would also continue to be contaminated by the discharge of septage. Following the Prohibition dates, if not successful in implementing the project, each property owner will receive cease and desist orders from the Regional Board demanding that all discharges from septic tanks be stopped. Failure to comply will result in fines for non-compliance. Not only does this project play a vital role in providing a sustainable water supply for the Town of Yucca Valley; but the adverse economic impacts that would be realized without implementation would have a negative impact on both the current and futures growth of the community.

*PART 3: PROJECT DESCRIPTION**

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The District's Wastewater Reclamation 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. Wastewater will be collected and conveyed through a series of pipelines that make up the WRP's collection system. Once delivered to the treatment facility, the treated wastewater will be discharged into the East Hydrogeologic Subunit of the Warren Subbasin providing a future source of extractable groundwater.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Warren Valley Subbasin
- State Water Project allocations

Please identify up to three available documents which contain information specific to the proposed project and associated benefits (this information helps determine the technical justification and feasibility):

- 2003 USGS Publication; Evaluation of the Source and Transport of High Nitrate Concentrations in Ground Water, Warren Subbasin, California

• 2009 Sewer Master Plan (MWH)
• 2011 Colorado River Basin Regional Water Quality Control Board Basin Plan Amendment
• 2013 Atkins North America Preliminary Design Report

How do you rate the technical feasibility of the proposed project?

☒ High	The technical feasibility is well-documented and is based on similar successful projects and/or the project uses common and widely accepted technology/practices and/or the project includes or is based on pilot studies or similar results.
☐ Medium	The project does not use common or widely accepted technology/practices, but substantial documentation is available on proposed benefits and project success.
☐ Low	The project has not been done before and technical feasibility is not adequately documented.

PART 4: IRWM PLAN OBJECTIVES ADDRESSED BY PROJECT *

Describe how the project meets any of the following Mojave IRWM Plan Objectives:

Mojave IRWM Plan Objective	Contribution			Description
1. 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.	☐ Primary	☒ Secondary	☐ NA	Provides treated discharge to the East HGU of the Warren Subbasin for future banked supplies.
3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.	☐ Primary	☒ Secondary	☐ NA	The Warren Subbasin has experienced overdraft conditions in the past, which was mitigated by the introduction of SWP water, recharged into the Basin. The project allows for treated water to be "banked" for future use.
7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.	☒ Primary	☐ Secondary	☐ NA	The Town of Yucca Valley is considered a DAC. This project would benefit this community by ensuring a safe, clean water supply is available now and in the future.
8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.	☐ Primary	☐ Secondary	☒ NA	

Mojave IRWM Plan Objective	Contribution			Description
9. Improve stormwater management throughout the Plan area.	☐ Primary	☐ Secondary	☒ NA	
2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.	☐ Primary	☒ Secondary	☐ NA	This project would reclaim wastewater and treat it to a level that can be discharged and extracted at a later date.
10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.	☒ Primary	☐ Secondary	☐ NA	This project not only preserves local native groundwater supplies; but also those SWP allocations delivered to the Basin.
11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.	☐ Primary	☐ Secondary	☒ NA	
13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.	☐ Primary	☐ Secondary	☒ NA	
14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.	☐ Primary	☐ Secondary	☒ NA	

Mojave IRWM Plan Objective	Contribution			Description
4. 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.	☐ Primary	☒ Secondary	☐ NA	By banking treated effluent; this project reduces the District's reliance on imported water and also allows for the water quality of current deliveries to be preserved for future use.
5. 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.	☐ Primary	☒ Secondary	☐ NA	Treated wastewater discharged into the East Subbasin adds another recharge location to the District's groundwater storage facility inventory. In addition, by mitigating the threat of septic tank discharge Basin wide; septage will no longer fill available pore space within the unsaturated zone and an additional safe layer of groundwater storage may be created increasing the District's water banking potential.
12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.	☐ Primary	☒ Secondary	☐ NA	This project has already brought increased awareness as to the protection of the Basin's water quality – and its implementation would continue to do so throughout the planning horizon.
6. Prevent land subsidence throughout the Region.	☐ Primary	☐ Secondary	☒ NA	

*PART 5: RESOURCE MANAGEMENT STRATEGIES**

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation

☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☐ Primary	☒ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☒ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☒Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☒ Secondary	☐ NA	Salt and Salinity Management
☐ Primary	☒ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) ____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☒ Primary	☐ Secondary	☐ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☐ Secondary	☒ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☒ Secondary	☐ NA	Land Use Planning and Management
☐ Primary	☒ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☐ Secondary	☒ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☒ NA	Flood Risk Management

Other Strategies	
☐ Primary ☐ Secondary ☒ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

*PART 6: PROJECT READINESS**

Item	Status (e.g., not initiated, in process, complete, N/A)	Expected Completion Date
Conceptual Plans	Complete	2009
Feasibility Study	Complete	
Preliminary Design and Cost Estimates	Complete	2009
CEQA/NEPA	Complete (CEQA/NEPA)	2009
Permits	In Process	
Construction Drawings	In Process (1 element / collection system – Phase I	09/01/2014
Funding	In Process (ongoing need)	07/31/2014

For projects that do not include construction, please briefly describe the project's readiness-to proceed.

N/A

Have funding sources been identified for implementation of the project? Please provide a brief explanation.

The District has applied for a loan for Phase I of the WRP through the Clean Water State Revolving Fund, which it must secure through the formation of an Assessment District consisting of benefiting property owners. Funding sources for the design and construction of Phase II and III of the project have not yet been identified.

*PART 7: PROJECT BENEFITS**

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This project will benefit the community as a whole by ensuring the sustainability of the District's primary drinking water supply; the Warren Subbasin. Through the collection and treatment of wastewater generated by residents within the Town of Yucca Valley; the threat of nitrate contamination will be mitigated and a clean, treated source of water introduced to the Basin.
In addition, future SWP water allocations recharged to the Basin will be protected from the septage infiltration as well ensuring that water intended for current and future use is of a high quality and protected from those contaminants found within septic tank discharges.

Does the project address environmental justice issues (including helping reduce inequitable distribution of environmental burdens and access to environmental goods)?
☐ Yes ☐ No ☒ Not Sure

Does the project address critical water issues (including water supply or water quality) of a disadvantaged community?
☒ Yes ☐ No ☐ Not Sure

Does the project provide specific benefits to critical water issues for Native American tribal communities?
☐ Yes ☒ No ☐ Not Sure
If yes, please identify the tribal community: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☒	Increases Water Supply Reliability	
☒	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☒	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☒	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☒	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

PART 8: PROJECT COST ESTIMATE

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): TBD

Upper estimated total capital cost ($): 125,000,000 **

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($):

———

Annual Operation and Maintenance Cost ($): TBD

Design Life of Project (years): Collection System: 50 years Treatment Fac.: As regulated

Economic Feasibility

Is the project cost-effective?		
☒ Yes	☐ No	☐ Not Sure
Does the project have a positive benefit-cost ratio?		
☒ Yes	☐ No	☐ Not Sure

** Estimates for Phases II and III have not yet been determined, though will be designed and constructed during the current planning horizon.

Allocation of Funds – Wastewater Reclamation Project

Task	Design ($USD)	Construction ($USD)	Total ($USD)
Collection System	6,000,000	90,000,000	96,000,000
Treatment Plant	4,000,000	25,000,000	29,000,000

Project No. 93

Mojave Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY ***August 1, 2013*** to **comments@mywaterplan.com.** Items denoted with an asterisk are required.

PART 1: LEAD IMPLEMENTING AGENCY/ORGANIZATIONAL INFORMATION

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Victor Valley Wastewater Reclamation Authority

Agency / Organization / Individual Address:

15776 Main Street, Suite 3, Hesperia CA 92345

Possible Partnering Agencies:

Mojave Water Agency, Town of Apple Valley, City of Hesperia, City of Victorville, County Service Area 42 and County Service Area 64.

Name:*

Ryan Orr

Title:

Public Information Officer

Telephone:* 7609489849

Fax: 7609489897

Email:*

Rorr@vvwra.com

Website:

www.VVWRA.com

Project Name:*

Subregional Water Reclamation Plants

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: **Project Longitude:**

Location Description:	The proposed Hesperia Facility will be located Northwest of the intersection of Tamarisk Avenue and Mojave Street. The Apple Valley Project will be located at the South entrance to Brewster Park along Otoe Road, East of Dale Evans Pkwy.

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Mojave Water Agency
- City of Hesperia
- Town of Apple Valley
- Victor Valley Wastewater Reclamation Authority

Project Status (e.g., new, ongoing, expansion, new phase):

New

Project Type (e.g., Conceptual, Design, Feasibility Study, Implementable Project, Implementable Program):

Implementable Project

*PART 2: PROJECT NEED**

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Mojave IRWM Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

These projects will provide critical new infrastructure via wastewater capacity that will allow the Victor Valley to continue to grow and an economically responsible level for years to come. In addition, this project will protect the areas groundwater by ultimately treating and reusing up to 8 Million Gallons per Day (MGD) of wastewater when they are built out.

This new drought-proof water supply will serve as new capacity for business growth and reuse enough wastewater by offsetting the current potable use of nearly 9,000 homes.

*PART 3: PROJECT DESCRIPTION**

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

These two projects are scalping plants that will treat and reuse 1 MGD each when built and have the expansion potential to each treat and reuse 4 MGD of recycled water without increasing the projects' footprint. The projects have already received the discharge requirement from the Lahontan Regional Water Quality Control Board. The projects have been approved by the Apple Valley Town Council and will be heard by the Hesperia City Council on October 1, 2013. Design is complete and approval to release bids will be heard by the VVWRA board of commissioners in the near future.

All required environmental approvals and studies have been completed; $3.5 million in federal grant monies have been awarded to the project with another $3 million of potential awards. The projects are planned to bid simultaneously to save on construction costs. Each project will include percolation ponds for recycled water that is not purchased by the users that have been identified.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

-
-
-
-

Please identify up to three available documents which contain information specific to the proposed project and associated benefits (this information helps determine the technical justification and feasibility):

- Bureau of Reclamation Title XVI Grant Application
- Project Design Plans
- CEQA Study

How do you rate the technical feasibility of the proposed project?

☒ High	The technical feasibility is well-documented and is based on similar successful projects and/or the project uses common and widely accepted technology/practices and/or the project includes or is based on pilot studies or similar results.
☐ Medium	The project does not use common or widely accepted technology/practices, but substantial documentation is available on proposed benefits and project success.
☐ Low	The project has not been done before and technical feasibility is not adequately documented.

PART 4: IRWM PLAN OBJECTIVES ADDRESSED BY PROJECT *

Describe how the project meets any of the following Mojave IRWM Plan Objectives:

Mojave IRWM Plan Objective	Contribution			Description
1. 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.	☐ Primary	☒ Secondary	☐ NA	
3. Maintain stability in previously overdrafted groundwater basins and reduce overdraft in groundwater basins experiencing ongoing water table declines.	☐ Primary	☒ Secondary	☐ NA	
7. Provide support and assistance to Disadvantaged Communities and help facilitate projects and programs that benefit those communities.	☐ Primary	☒ Secondary	☐ NA	
8. Protect and restore sensitive environmental areas in coordination with land use and conservation plans to support stewardship and awareness of environmental resources.	☐ Primary	☐ Secondary	☒ NA	
9. Improve stormwater management throughout the Plan area.	☐ Primary	☐ Secondary	☒ NA	
2. Continue improving regional water use efficiency by implementing a portfolio of conservation actions that are regionally cost-effective.	☐ Primary	☒ Secondary	☐ NA	
10. Preserve local beneficial uses as it relates to water quality of water supplied by each source, including groundwater, stormwater, surface water, imported water, and recycled water.	☐ Primary	☒ Secondary	☐ NA	
11. Obtain financial assistance from outside sources to help implement this Plan across a range of project sizes during the planning horizon.	☐ Primary	☐ Secondary	☐ NA	

Mojave IRWM Plan Objective	Contribution			Description
13. Identify and establish reliable funding sources to maintain, modernize and improve water infrastructure to ensure a high quality, resilient and reliable water supply.	☐ Primary	☒ Secondary	☐ NA	
14. Increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgment.	☒ Primary	☐ Secondary	☐ NA	
4. 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.	☒ Primary	☐ Secondary	☐ NA	
5. 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.	☐ Primary	☒ Secondary	☐ NA	
12. Improve public awareness of water supply, conservation, water quality, and environmental stewardship challenges and opportunities throughout the planning horizon.	☐ Primary	☒ Secondary	☐ NA	
6. Prevent land subsidence throughout the Region.	☐ Primary	☐ Secondary	☒ NA	