
TECHNICAL ADVISORY COMMITTEE TO THE MOJAVE WATER AGENCY



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DATE: December 15, 2016
TO: Technical Advisory Committee
FROM: Jeanette Hayhurst, IST Chairperson
SUBJECT: **CITY OF VICTORVILLE PROJECT FOR SUPPLEMENTAL ENVIRONMENTAL PROJECT (SEP) FUNDING WITH LAHONTAN REGIONAL WATER BOARD**

RECOMMENDATION

Consider authorizing the addition of the City of Victorville Septic System Connection to Sewer Grant Program to the list of project for Supplemental Environmental Project (SEP) funding with the Lahontan Regional Water Quality Control Board

BACKGROUND

The Lahontan Water Board has a program that will allow fines collected from violators to be used directly to fund a project that will benefit the local region where the violation occurred. It is called the Supplemental Environment Project (SEP) Program. (This is similar to how the money paid by Victor Valley Waste Water Authority was used to fund the Salt Nutrient Plan.)

The Lahontan Water Board wishes to create a list of eligible projects that have been vetted by the local community. The project list from the Mojave Integrated Regional Water Management (IRWM) Plan already includes several projects that would meet Lahontan's criteria. On February 4, 2016, the Implementation Support Team (IST) for the IRWM Plan approved a list of projects to be considered for the SEP Program.

It is important to note that this round of SEP funding is only available for the Lahontan Region and does not include projects in the Colorado Region.

ATTACHMENT

- Complete Project List

MOJAVE INTEGRATED REGIONAL WATER MANAGEMENT PLAN PROJECT SUBMITTALS FOR LAHONTAN SEP FUNDING

Project No.	Project Sponsor	Project Name	Project Description
7	Mojave Water Agency	Assistance Program for Small Water Systems	Program would identify water supply, water quality and infrastructure needs of small drinking water systems within the IRWM Region and help connect them to available funding by identifying funding sources, assisting with grant applications and paperwork, etc. Sources of funding could include State and Federal funds from a variety of programs designed to help small systems.
17	City of Victorville	VSD 4 Sewer Lift Station	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.
21	Mojave Desert Resource Conservation District	Dairy Nitrate Reduction	Obtain funding – to be matched with NRCS/USDA funding – a possible 25% contribution – to: <ol style="list-style-type: none"> 1) Help dairies pay to haul manure off-site – likely to fields distant from shallow groundwater and surface waters. 2) Help fund infrastructure designed to apply waste pond water directly to adjacent fields via irrigation systems, etc. – alleviating direct percolation to groundwater. Requires manure “manifest” to track movement and use of nutrients. BMP to effectively use nutrients – applied at agronomic rates. 3) Feasibility study? to determine alternate uses of manure for fuels – ie: composting/digestion/gasification – what can be done on a regional basis – work in conjunction with VVWRA, etc.
31	Helendale CSD	Wastewater Treatment Plant Effluent Distribution System	Design and construction of "Purple Pipe" pipeline system to convey effluent water to nearby Golf Course Irrigation system that currently uses pumped groundwater.
32	Helendale CSD	Tertiary Treatment Upgrade	The District has completed a Recycled Water Facilities Plan which has identified a preferred treatment alternative and cost scenario estimated at \$2,670,000 for plant upgrades. The project is designed to produce recycled tertiary water for use within the District service area by improving the WWTP processes to provide unrestricted Title 22 recycled water. The delivery phase is two-stage with minor delivery required to move Title 22 water across the street to Helendale Community Park for landscape irrigation, and the second stage for delivery of Title 22 water to the Silver Lakes Association for golf course irrigation which would require an extensive pump station and force main. The next phase is recycled water storage required to store water during the wet months for use in the dry months and for use by the onsite farming operation. However, this stage of tertiary treatment can be reduced by the implementation of full phase 2 providing recycled water to the SLA golf course.

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Project No.	Project Sponsor	Project Name	Project Description
2001	Mojave Water Agency	Annual Cooperative Water Resources Program between the MWA and the United States Geological Survey	<p>A cooperative water resources program between the Agency and the USGS has been in place since October 1991. The program has served, and continues to serve, as an integral part of the Agency’s ability to understand and manage the basin(s). The extension of the program for the 2015-2016 fiscal year will be crucial to MWA’s ongoing basin management efforts.</p> <p>The elements of this cooperative agreement consist of:</p> <ol style="list-style-type: none"> 1. Basin Wide Groundwater-Level and Water-Quality Monitoring Network - USGS Staff monitor water levels and collect water quality samples at selected wells to supplement MWA’s internal monitoring program. These additional data points enable the MWA to maintain a more robust monitoring network across our Service Area. 2. Surface-Water Monitoring and Water Quality - The USGS maintains five streamflow gaging stations along the Mojave River drainage system. Streamflow gaging stations are located at Deep Creek, West Fork, the Lower Narrows, Barstow, and Afton. In addition to streamflow monitoring, the USGS also monitors water quality at three of these locations. The stream gaging data and surface water quality data are maintained on the USGS’ National Water Information System (NWIS) website. 3. Review and Storage of MWA Water-Level and Water-Quality Data - The USGS has been maintaining MWA collected water level and water quality data on the NWIS website since FY 2008. This enables our constituents, Board members, MWA staff, and any interested parties to access our data at any time. 4. Monitoring Regional Water-Level Changes and Subsidence - The USGS has monitored regional water levels and produced biennial groundwater contour maps since 1992. This work allows the review of water level changes over time across our Service Area and the greater Mojave Desert region. The USGS will also gather and analyze land subsidence data for the region as part of this year’s agreement. The data from this work will be integrated with previous subsidence studies completed by the USGS for the Agency to produce a USGS Fact Sheet on subsidence across the region. 5. Trace-Element Occurrence and Geochemistry - Work under this year’s Program Letter will include analyzing alluvial sediments and groundwater samples for trace element (e.g., arsenic, chromium, manganese, etc.) concentrations and evaluating the mobility of trace elements from aquifer materials into groundwater. Associated tasks will include comparing sediment trace element distribution, abundance and mobility data with oxid-alkaline groundwater conditions within aquifers (e.g. Mojave River alluvium versus regional aquifer). The results of this work, in combination with previously generated water chemistry maps will contribute to a more comprehensive understanding of the processes controlling groundwater quality across our Service Area.

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Project No.	Project Sponsor	Project Name	Project Description
2002	Mojave Water Agency	Chromium-VI Treatment Assistance Program	<p>The California State Water Resources Control Board recent adoption of a Maximum Contaminant Level (MCL) for hexavalent chromium of 0.010 mg/L (10 µg/L) on July 1, 2014, has caused an issue with many systems in the Mojave IRWM Plan to be able to provide safe drinking water that meets the new standard. This program would provide assistance to systems to collaborate with state and federal funding agencies to help meet the challenges and cost of hexavalent chromium treatment. Mojave Water Agency using Department of Public Health data show that there are systems within the Mojave IRWM Plan that are affected by the new MCL for hexavalent chromium. This assistance may include planning, engineering, treatment, feasibility testing, and/or treatment systems. Some of the systems that are within the Lahontan Region and are included in this program are:</p> <ul style="list-style-type: none"> – Phelan Pinon Hill Community Service District – County of San Bernardino (Lahontan Region ONLY) – Thunderbird County Water District – Apple Valley View Mutual Water Company – Daggett Community Services District
2003	Mojave Water Agency	IRWM Plan Regional Water Quality Sampling Project	<p>The Mojave IRWM Plan Regional Water Quality Sampling Project is a project that will take on the task of performing regional water quality collection and analysis across the Mojave IRWM Plan area. The project will focus of selecting key wells from the Mojave IRWM Plan area and sampling these key wells at strategic times and locations. The project will have the goal of a sub-area of the Mojave Water Agency (MWA) sampled every five years in a rotating fashion. Other high priority areas of the MWA watershed (such as the Upper Mojave Watershed) will be sampled at a higher frequency due to the groundwater pumping influence in this area. Samples will be collected and transported to state certified laboratory contracted with MWA and analyzed for a variety of constituents. The Lab will then generate a report of their analyses and MWA will review and approve the report. The data will then be imported into MWA's database and used from scientific purposes (Reports, graphs, and presentations). Data will be available to the public via public information request to MWA or accessing the data via the National Water Information System (http://waterdata.usgs.gov/nwis) through cooperative partnership with the United State Geological Survey.</p>
2004	City of Victorville	Septic System Connection to Sewer Grant Program	<p>The City is proposing to connect to the City's sewer collection system a specified number of developed and occupied buildings, currently served by septic treatment systems, over a three-year period.</p> <p style="text-align: right;"><i>(Continued)</i></p>

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			<p>Priority projects will be for a target area in Old Town (between A St, and D St. and 1st St. and 11th St.) where properties are adjacent to an existing sewer main and usually only a lateral connection will be required. The Old Town area has a high water table, is close to the Mojave River, and is an economically disadvantaged area of the City. 28 single family residences and two small apartment complexes one with 8 and the other with 9 units have been preliminarily identified for septic to sewer connection. In addition, the target areas with the highest priority would be areas with a high water table, in proximity to known contaminants in the soil or ground water or that has economically disadvantaged residents.</p> <p>Another criteria for selection would be for a property where a septic system fails and must connect to sewer in accordance with the city's code or receive a variance from City Council based on hardship.</p>