

Application for Federal Assistance SF-424

* 1. Type of Submission: <input type="checkbox"/> Preapplication <input checked="" type="checkbox"/> Application <input type="checkbox"/> Changed/Corrected Application	* 2. Type of Application: <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision	* If Revision, select appropriate letter(s): <input type="text"/> * Other (Specify): <input type="text"/>
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* 3. Date Received: <input type="text" value="01/13/2025"/>	4. Applicant Identifier: <input type="text"/>
--	--

5a. Federal Entity Identifier: <input type="text"/>	5b. Federal Award Identifier: <input type="text"/>
--	---

State Use Only:

6. Date Received by State: <input type="text"/>	7. State Application Identifier: <input type="text"/>
---	---

8. APPLICANT INFORMATION:

* a. Legal Name: <input type="text" value="Moapa Valley Water District"/>	
* b. Employer/Taxpayer Identification Number (EIN/TIN): <input type="text" value="88-0165740"/>	* c. UEI: <input type="text" value="T82MJH69NGC3"/>

d. Address:

* Street1: <input type="text" value="601 N Moapa Valley Blvd."/>
Street2: <input type="text"/>
* City: <input type="text" value="Overton"/>
County/Parish: <input type="text"/>
* State: <input type="text" value="NV: Nevada"/>
Province: <input type="text"/>
* Country: <input type="text" value="USA: UNITED STATES"/>
* Zip / Postal Code: <input type="text" value="89040-0601"/>

e. Organizational Unit:

Department Name: <input type="text" value="Moapa Valley Water District"/>	Division Name: <input type="text"/>
---	-------------------------------------

f. Name and contact information of person to be contacted on matters involving this application:

Prefix: <input type="text" value="Mr."/>	* First Name: <input type="text" value="Joseph"/>
Middle Name: <input type="text" value="K."/>	
* Last Name: <input type="text" value="Phillips"/>	
Suffix: <input type="text"/>	
Title: <input type="text" value="Principal Engineer"/>	
Organizational Affiliation: <input type="text" value="Consultant"/>	
* Telephone Number: <input type="text" value="(435) 215-1955"/>	Fax Number: <input type="text" value="(435) 652-8416"/>
* Email: <input type="text" value="jphillips@sunrise-eng.com"/>	

Application for Federal Assistance SF-424

*** 9. Type of Applicant 1: Select Applicant Type:**

D: Special District Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

*** 10. Name of Federal Agency:**

Bureau of Reclamation

11. Assistance Listing Number:

15.507

Assistance Listing Title:

WaterSMART (Sustain and Manage America's Resources for Tomorrow)

*** 12. Funding Opportunity Number:**

R24AS00059

* Title:

WaterSMART Small-Scale Water Efficiency Projects For Fiscal Year 2024 and Fiscal Year 2025

13. Competition Identification Number:

R24AS00059

Title:

WaterSMART Small-Scale Water Efficiency Projects For Fiscal Year 2024 and Fiscal Year 2025

14. Areas Affected by Project (Cities, Counties, States, etc.):

Add Attachment

Delete Attachment

View Attachment

*** 15. Descriptive Title of Applicant's Project:**

Water Meter and Date Collection System Upgrade

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

Application for Federal Assistance SF-424

16. Congressional Districts Of:

* a. Applicant

* b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed.

17. Proposed Project:

* a. Start Date:

* b. End Date:

18. Estimated Funding (\$):

* a. Federal	<input type="text" value="125,000.00"/>
* b. Applicant	<input type="text" value="127,972.00"/>
* c. State	<input type="text" value="0.00"/>
* d. Local	<input type="text" value="0.00"/>
* e. Other	<input type="text" value="0.00"/>
* f. Program Income	<input type="text" value="0.00"/>
* g. TOTAL	<input type="text" value="252,972.00"/>

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

a. This application was made available to the State under the Executive Order 12372 Process for review on

b. Program is subject to E.O. 12372 but has not been selected by the State for review.

c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**

Yes No

If "Yes", provide explanation and attach

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 18, Section 1001)**

** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: * First Name:

Middle Name:

* Last Name:

Suffix:

* Title:

* Telephone Number: Fax Number:

* Email:

* Signature of Authorized Representative: * Date Signed:

BUDGET INFORMATION - Non-Construction Programs

OMB Number: 4040-0006
Expiration Date: 02/28/2025

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Assistance Listing Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. Domestic Water Meter and Data Management Upgrade and System Optimization		\$	\$	\$ 125,000.00	\$ 127,972.00	\$ 252,972.00
2.						
3.						
4.						
5. Totals		\$	\$	\$ 125,000.00	\$ 127,972.00	\$ 252,972.00

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
	Domestic Water Meter and Data Management Upgrade and System Optimization				
a. Personnel	\$ 60,731.00	\$	\$	\$	\$ 60,731.00
b. Fringe Benefits	29,526.00				29,526.00
c. Travel					
d. Equipment	10,010.00				10,010.00
e. Supplies	152,705.00				152,705.00
f. Contractual					
g. Construction					
h. Other					
i. Total Direct Charges (sum of 6a-6h)	252,972.00				\$ 252,972.00
j. Indirect Charges					\$
k. TOTALS (sum of 6i and 6j)	\$ 252,972.00	\$	\$	\$	\$ 252,972.00
7. Program Income	\$	\$	\$	\$	\$

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Prescribed by OMB (Circular A -102) Page 1A

SECTION C - NON-FEDERAL RESOURCES

(a) Grant Program		(b) Applicant	(c) State	(d) Other Sources	(e)TOTALS
8.	Domestic Water Meter and Data Management Upgrade and System Optimization	\$ 127,972.00	\$	\$	\$ 127,972.00
9.					
10.					
11.					
12. TOTAL (sum of lines 8-11)		\$ 127,972.00	\$	\$	\$ 127,972.00

SECTION D - FORECASTED CASH NEEDS

	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 125,000.00	\$ 125,000.00	\$	\$	\$
14. Non-Federal	\$				
15. TOTAL (sum of lines 13 and 14)	\$ 125,000.00	\$ 125,000.00	\$	\$	\$

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT

(a) Grant Program		FUTURE FUNDING PERIODS (YEARS)			
		(b)First	(c) Second	(d) Third	(e) Fourth
16.	Domestic Water Meter and Data Management Upgrade and System Optimization	\$ 125,000.00	\$	\$	\$
17.					
18.					
19.					
20. TOTAL (sum of lines 16 - 19)		\$ 125,000.00	\$	\$	\$

SECTION F - OTHER BUDGET INFORMATION

21. Direct Charges:		22. Indirect Charges:	
23. Remarks:			

ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee- 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327- 333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93- 205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593(identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.
19. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

<p>SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL</p> <p>Justin B Atkinson</p>	<p>TITLE</p> <p>Funding Specialist</p>
<p>APPLICANT ORGANIZATION</p> <p>Moapa Valley Water District</p>	<p>DATE SUBMITTED</p> <p>01/13/2025</p>

Budget Narrative File(s)

* Mandatory Budget Narrative Filename:

Add Mandatory Budget Narrative

Delete Mandatory Budget Narrative

View Mandatory Budget Narrative

To add more Budget Narrative attachments, please use the attachment buttons below.

Add Optional Budget Narrative

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View Optional Budget Narrative

Project Narrative File(s)

* Mandatory Project Narrative File Filename:

1234-2025.1.10 WaterSMART Grant App Final Draft.pdf

Add Mandatory Project Narrative File

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WaterSMART Grant:
Small-Scale Water Efficiency Projects
Funding Opportunity Announcement No.
For Fiscal Year 2025
\$125,000 Grant Request

January 12, 2025

Water Meter and Data Management Upgrade
Overton, NV

Applicant

Moapa Valley Water District
601 N. Moapa Valley Blvd
Overton, Nevada 89040
TEL (702) 397-6893

Project Manager

Joseph K. Phillips, PE
11 N 300 W
Washington, Utah 84780
TEL (435) 652-8450
jphillips@sunrise-eng.com



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EXECUTIVE SUMMARY

Date: January 12, 2025

Applicant: Moapa Valley Water District
601 N. Moapa Valley Blvd.
Overton, Clark County, NV 89040

Contact: Joe Phillips, PE
Sunrise Engineering, Inc
11 North 300 West
Washington, UT 84780
jphillips@sunrise-eng.com
(435) 652-8450

PROJECT SUMMARY:

For this project, Water Metering and Data Management Upgrade, Moapa Valley Water District (MVWD) has targeted specific meters to be upgraded, including those meters currently in the worst operating condition. A total of 305 failing domestic water meters within MVWD's service area will be upgraded to new meters coupled with cellular endpoints for improved data analytics and water management. The project will increase efficiency in MVWD's distribution system and help achieve the District's goal of providing quality drinking water to its users through efficient management and conservation. It will also increase resiliency to climate change, particularly as it relates to severe drought. Furthermore, this project will help to stretch and secure water supplies for future generations. Proposed funding in the amount of \$125,000 acquired through the Bureau of Reclamation will be used to purchase the upgraded metering equipment while an equal or greater portion of funds will be provided as a matching contribution by MVWD to implement the project.

Applicant Eligibility	Category A
Estimated Start Date:	September 2025
Approximate Project Length:	10 months
Estimated Completion Date:	July 2026
Federal Facility:	This project is NOT located on a Federal facility



BACKGROUND DATA

Although this section is not required by the Notice of Funding Opportunity for Fiscal Year 2025, it has been included because it provides relevant information for the reviewer.

Moapa Valley is located approximately 60 miles northeast of Las Vegas, Nevada. The valley consists of the following towns or communities: Overton, Logandale, Glendale, Moapa, the Moapa River Indian Reservation, and the Warm Springs Natural Area. Figure 1 is an area map for Moapa Valley.

The MVWD was created as a political subdivision of the State of Nevada on July 23, 1983, to provide domestic water (irrigation water is provided by another company) to customers within Moapa Valley. MVWD's service area covers approximately 79 square miles and is bounded by Lake Mead to the southeast and the head of the Muddy River at Warm Springs Natural Area to the northwest. Within MVWD's service area is the reservation for the Moapa Band of Paiutes. Figure 2 shows a location map of the District's service area boundary. The dashed line on the left of Figure 2 is the Moapa River Indian Reservation boundary.



Figure 1. Area Map of Moapa Valley

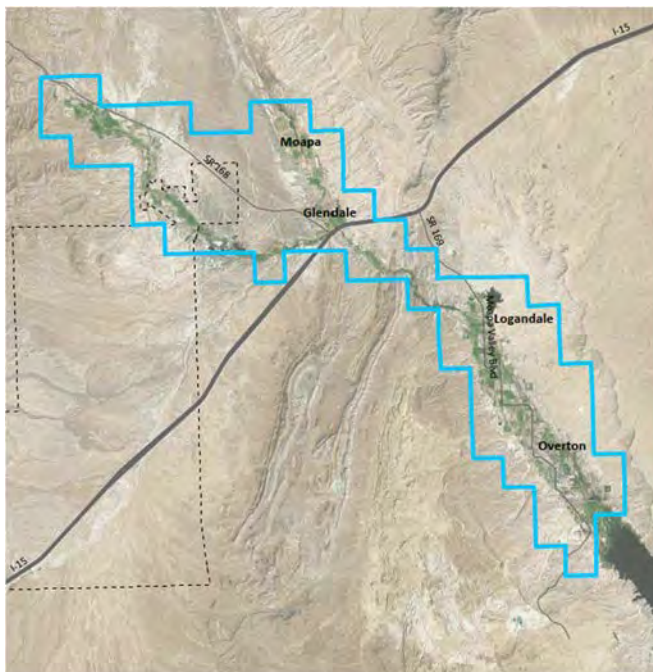


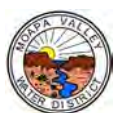
Figure 2. MVWD Service Area Boundary Map

WATER SYSTEM

MVWD operates a domestic water system that generally includes 4 wells, 2 spring groups, 6 tanks totaling 8.3 million gallons, 2 treatment facilities, 14 pressure reducing valves, 449 fire hydrants, 1,721 valves, and 184 miles of transmission and distribution pipe ranging in size from 2 inches to 24 inches. The system is operated in 15 pressure zones, serving connections at elevations from approximately 1,800 feet down to 1,225 feet above sea level.

Water Source

The water sources available to MVWD originate from the regional carbonate aquifer flow system which collects from the Muddy



River and Meadow Valley Wash hydrological basins. MVWD holds a series of ground water rights in the Lower White River Flow System for municipal, domestic, and irrigation uses, utilizing 4 wells and 2 springs for domestic water which draws from the carbonate aquifer.

Table 1. Active Domestic Water Rights

Permit #	Water Source	Diversion Rate (cfs)	Annual Duty (afy)
68524	Logandale Well	0.89	913.10
72263		2.71	
46932	MX-6 Well	2.00	6792.71
52520	Arrow Canyon Well #1	2.00	
55450		3.00	
58269		1.50	
66043	Arrow Canyon Well #2	3.50	
28791	Baldwin Spring	3.00	2132.20
22739	Jones Spring	1.00	723.80
Total Water Rights		19.60	10561.81

The water sources listed in Table 1 are as provided in MVWD’s Water Conservation Plan and are water rights that currently produce domestic water for the District’s system.

Both Baldwin and Jones Springs are part of a larger spring group at Warm Springs Natural Area forming the Muddy River which flows to Lake Mead, southern Nevada’s primary drinking water source. The Warm Springs Natural Area is owned and operated by Southern Nevada Water Authority (SNWA), a partner of the Bureau of Reclamation.

MVWD has entered various understanding/agreement to resolve regional water supply issues:

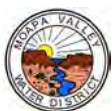
- MVWD has entered into multiple Memorandums of Understanding and Memorandums of Agreement with SNWA to resolve water supply issues and for other beneficial water impacts such as hydropower and recreation.
- On April 20, 2006, MVWD entered a Memorandum of Agreement with SNWA, the Moapa Band of Paiute Indians, and the US Fish and Wildlife Services. This agreement was made to retain water in the Warm Springs Natural Area which is an oasis for 28 endangered, threatened, and sensitive species of plants and wildlife.
- MVWD also partners frequently with the Muddy Valley Irrigation Company (MVIC) through shared water rights.

Distribution System

MVWD’s distribution system consists of 184 miles of water lines in 15 pressure zones, feeding approximately 3,200 total connections. Many existing connections to the water system are equipped with Master Meter Bottom-Load Multi-Jet (BLMJ) meters which are read monthly by drive-by 3G radio transmission. MVWD has begun upgrading failing meters to new Badger Meter Positive Displacement Disc meters with cellular endpoints for more advanced two-way data transmitting and management. Recognizing the efficiencies of these upgrades, MVWD intends to continue this meter upgrading effort through this and future projects.

CONSERVATION PLAN

MVWD has a complete water conservation plan and actively supports conservation measures. The conservation plan details educational, financial, and regulatory incentives.



PROJECT LOCATION

Provide detailed information on the proposed project location or project area including a map showing the geographic location. For example, {project name} is located in {state and county} approximately {distance} miles {direction, e.g., northeast} of {nearest town}. The project latitude is {##°##'N} and longitude is {###°##'W}.

The MVWD office is located in Overton, Clark County, NV, approximately 60 miles northeast of Las Vegas, NV, and is situated approximately 24 miles from the northwest and 3 miles from the southeast boundary of the service area. The project will occur in 305 different locations within the service area (see Map on page 6).

TECHNICAL PROJECT DESCRIPTION

Provide a comprehensive description of the technical aspects of your project, including the scope of work to be accomplished and the approach for the on-the-ground project. This description should provide detailed information about the project materials and equipment including what is currently installed and a description of the upgrade being made. Include in your description the necessary site preparation, removal of materials, motorized and rotating equipment required for installation, site laydown and mobilization areas, and areas impacted by construction. This section provides an opportunity for the applicant to provide a clear description of the technical nature and installation process of the project and to address any aspect of the project that reviewers may need additional information to understand.

PROBLEMS AND NEEDS

MVWD faces 3 main issues stemming from the current meters and data collection method. These issues include an aging infrastructure, strain on District resources, and the ability to conserve water in accordance with MVWD's water conservation plan.

Aging Infrastructure

Typical mechanical water meters have a service life of 10 to 15 years before accuracy begins to decline to an unacceptable level. When these types of meters begin to fail, the accuracy declines at a slow and steady rate for a period of months to years before taking a significant and noticeable drop in accuracy (see Figure 3). MVWD's method of meter data tracking is not sophisticated enough to detect faulty meters until after the significant drop in accuracy, resulting in prolonged, unnecessary losses in water supply and revenue.

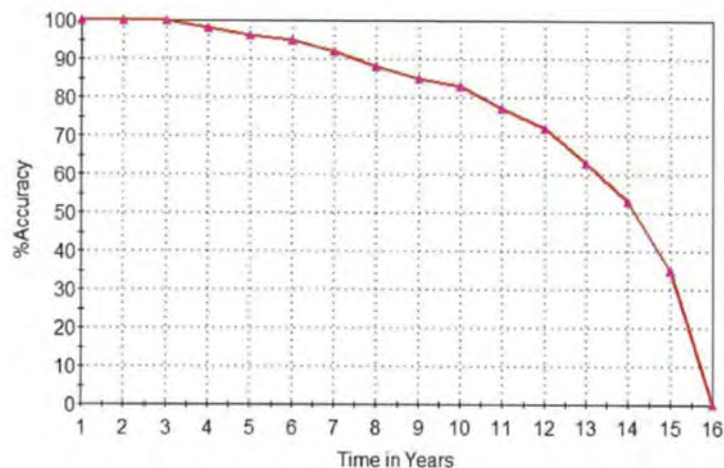


Figure 3. Accuracy of Water Meter Over Time



Many existing meters within MVWD’s system are more than 14 years old and are experiencing significant drops in accuracy. MVWD has reported over 305 meters that are reading below typical flows or have stopped transmitting data wirelessly. A Capital Facilities Plan completed by MVWD in 2016 recommended replacing and upgrading meters on a recurring schedule.

Strain on District Resources

The size and nature of MVWD’s service area is not conducive to the drive-by radio data collection required by the current meters. MVWD’s office is situated in Overton – approximately 24 miles from the northern boundary of the service area and 3 miles from the southern boundary. This distance puts a strain on equipment and manpower, as well as consumes excess amounts of fuel, when regular trips are required to the extents of the service area. Each month, crews travel over 200 miles recording meter readings. These numbers are increased when meters fail to transmit data during drive-by meter reading activities.

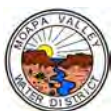
Water Conservation

MVWD managers estimate that current lost & unaccounted for water through the system is 26%, with failing meters being a large factor of that percentage. MVWD’s conservation plan states that responsibilities on the part of the purveyor include leak detection and system maintenance. The current meters and data reporting method do not provide the ability to detect small leaks within the system. Any leak from the system means additional water demanded from the sources supplying water to Warm Springs Natural Area and less water available to Lake Mead.

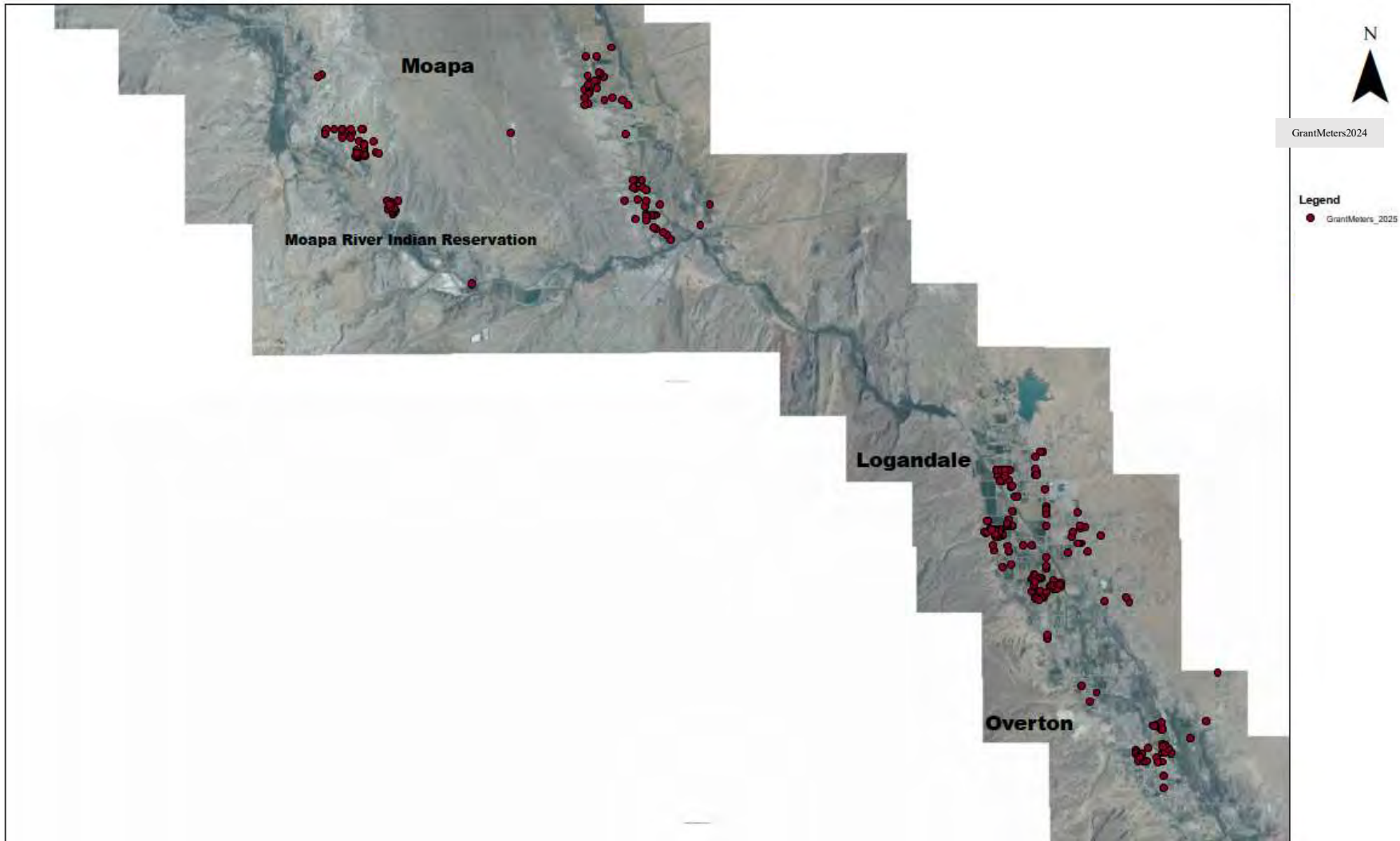
PROJECT DESCRIPTION

To help correct the issues described above, MVWD intends to upgrade 305 old and malfunctioning meters with new (CE) E series Badger Meter 3/4” positive displacement disc meters and Orion Cellular LTE-M Endpoints. Additionally, crew members will replace approximately 60 existing meter boxes and 200 meter lids that are beyond their service life to help preserve the new meters. The proposed project will require 2 hours to remove and install each upgraded meter. MVWD plans to complete the project at a rate of 31 meters per month to finish the project within the two-year allotted timeframe.

The upgraded cellular endpoints collect data from the meters at 15-minute intervals and store the information for 45 days. Four times each day, the endpoints send stored data through a cellular network to a cloud-based data management system. Using this upgraded system, both MVWD and consumers will be able to access information regarding water usage to improve water management. MVWD will additionally utilize GIS to manage upgraded assets. The new metering system will operate through Badger Meter’s Fixed Network data collection system and integrate with MVWD’s GIS data to support predictive rather than reactive management. Importantly, the upgrade will allow MVWD to conserve resources required to complete monthly meter reads and more accurately identify when meters begin to show signs of failure.



MOAPA VALLEY WATER DISTRICT 2024 Meter Upgrade Program



EVALUATION CRITERIA

EVALUATION CRITERION A: PROJECT BENEFITS (35 POINTS)

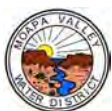
Up to 35 points may be awarded based upon evaluation of the benefits that are expected to result from implementing the proposed project. This criterion considers a variety of project benefits, including the significance of the anticipated water management benefits and the public benefits of the project. This criterion prioritizes projects that modernize existing infrastructure to address water reliability concerns, including making water available for multiple beneficial uses and resolving water related conflict in the region.

Benefits to the Category A Applicant's Water Delivery System: Describe the expected benefits to the Category A applicant's water delivery system. Address the following:

- ***Clearly explain the anticipated water management benefits to the Category A applicant's water supply delivery system and water customers.***

Upgrading MVWD's water meters will improve the overall efficiency of the water delivery system. The new metering and data management project will provide greater accuracy, earlier detection of leaks, and improve usage understanding by all parties to help reduce and manage water consumption in MVWD's service area.

- ***Explain the significance of the anticipated water management benefits for the Category A applicant's water delivery system and customers. Consider:***
 - *Are customers not currently getting their full water right at certain times of year?*
Yes. However, with the ongoing and persistent drought in the region, there is some degree of uncertainty as to whether this will still be the case over time.
 - *Does this project have the potential to prevent lawsuits or water calls?*
Yes. With the technology to capture and store data in real-time, the District and the customers will have the ability to refer to and pull historical or current data as necessary. This would aid in mitigating issues and disputes before escalating to legal battles. Further, these meter upgrades will likely result in the District having the ability to troubleshoot and resolve issues from an office setting rather making a call to the actual location of where the problem originated.
 - *What are the consequences of not making the improvement?*
Prolonging these improvements would result in continued water use inefficiencies as well as unnecessary strain on District resources. The water conserved through this project will allow water resources to stretch further and expand the scale of benefit beyond the local region. The more current and future water that can be captured in Lake Mead will be a future benefit for all Lower Basin States on the Colorado River. Should these upgrades not be completed due to financial constraints, it will result in water losses that would typically remain in the river and eventually in Lake Mead.
 - *Are customer water restrictions currently required?*
No, the District has not been compelled to set customer water restrictions. The District does have the authority to set restrictions in the event that usage trends show an increase or conditions warrant such action as so indicated in the Water Conservation Plan. The system improvements noted will allow the District to more closely monitor water use and take the necessary steps to better manage water resources, especially in a drought environment.
 - *Other significant concerns that support the need for the project.*



Upgrading MVWD's water meters and data collection method will reduce the consumption of precious water supplies, thereby improving the reliability and longevity of those water sources. Importantly, considering current proceedings in the Nevada State Engineer's office and probable curtailments of water rights in the Lower White River Flow System, which are anticipated to affect MVWD's water rights portfolio, conservation of water in MVWD's system will reduce the demand on water rights, strengthening MVWD's ability to supply water reliability.

Broader Benefits: Describe the broader benefits that are expected to occur as a result of the project. Consider:

- ***Will the project improve broader water supply reliability at sub-basin or basin scale?***
Yes, the meter upgrades will help to optimize the water system and will result in supply reliability on a sub-basin and basin scale. As water is better managed through more reliable and timely data, the customers and the District will be able to monitor usage at a much greater frequency. This, in turn, will allow the water users to respond more quickly and the benefits and savings from conservation practices can be captured much sooner. These water savings will naturally improve reliability by stretching limited water supply much further.
- ***Will the proposed project increase collaboration and information sharing among water managers in the region? Please explain.***
Yes. As noted previously, MVWD has partnered through legal agreements with several water managing institutions in a commitment to resolve regional water supply issues. Advanced data management and accessibility made possible through the upgraded metering system will provide beneficial data and information to help collectively manage southern Nevada's water.
- ***Is the project in an area that is experiencing, or recently experienced, drought or water scarcity? Will the project help address drought conditions at the sub-basin or basin scale? Please explain.***
Yes. The MVWD service area is currently in D2 (severe drought) and D3 (extreme) drought intensity according to the U.S. Drought Monitor (shown in Figure. 4 on page 14). This project will help address drought conditions at the sub-basin or basin scale by reducing the amount of water being drawn from the watershed and water table.
- ***Will the project benefit species (e.g., federally threatened or endangered, a federally recognized candidate species, a state listed species, or a species of particular recreational, or economic importance)? Please explain.***
Yes. Several endangered, threatened, or sensitive species, such as the Moapa Dace, Southwestern Willow Flycatcher, Yellow-billed Cuckoo, Yuma Ridway's Rail, Desert Tortoise, Big Spring Spinedace, Bonytail, Razorback Sucker and the Virgin River Chub are located within MVWD's service area boundaries. Many of these species are found at Warm Springs Natural Area. None of the species will be directly affected by activity at the proposed meter upgrade locations since the work is local to the meters only. By contrast, many of the species will benefit from the water conservation results of this project. Water conserved through this project means less water being taken out of the environment and ultimately supporting the Memorandum of Agreement that MVWD entered with SNWA, the Moapa Band of Paiute Indians, and the US Fish and Wildlife Services; to retain water in the Warm Springs Natural Area which is an oasis for 28 endangered, threatened, and sensitive species of plants and wildlife.



- *Will the proposed project positively impacts/benefit various sectors and economies within the applicable geographic area (e.g., impacts to agriculture, environment, recreation, and tourism)? Please explain.*

Yes. Conservation of water and water management resources is expected to benefit the local economy by enabling application of saved resources to other endeavors, water uses, infrastructure improvements, and opportunities both locally and regionally. Additional water to the Warm Springs Natural Area and Lake Mead will provide impacts to recreation and tourism while simultaneously supporting Federal and regional environmental initiatives. Additional water to Lake Mead may also contribute to the potential of greater hydropower generation through Hoover Dam as a renewable resource.

- *Will the project complement work being done in coordination with NRCS in the area (e.g., the area with a direct connection to the districts water supply)? Please explain.*

No NRCS projects have been done in the proposed project area to MVWD’s knowledge.

EVALUATION CRITERION B: PLANNING EFFORTS SUPPORTING THE PROJECT (25 POINTS)

Up to 25 points may be awarded based on the extent to which the proposed on-the-ground project is supported by an applicant’s existing water management plan, water conservation plan, System Optimization Review, or identified as part of another planning effort led by the Category A applicant. This criterion prioritizes projects that are identified through local planning efforts and meet local needs.

Plan Description and Objectives: Is your project supported by a specific planning document or effort? If so, describe the existing plan. When was the plan developed? What is the purpose and objective of the plan?

Yes. This project is supported by MVWD’s Water Conservation Plan which was developed in April 2019 with the primary goal of delivering quality water to its customers and also to encourage water conservation within the District. Part of MVWD’s plan means monitoring water usage and updating the infrastructure when it’s time. In addition, this project is also supported by MVWD’s current Capital Improvements Plan which recommends a regular program for replacing and upgrading meters to significantly reduce lost revenue and unaccounted water.

Plan Development: Who developed the planning effort? What is the geographic scope of the plan? If the planning effort was not developed by the Category A applicant, describe the Category A applicant’s involvement in developing the planning effort.

The planning effort was developed by MVWD. The geographic scope of the plan is the MVWD’s service area, which includes Overton, Logandale, Glendale, Moapa, the Moapa Band of Paiute Indians, and the surrounding unincorporated towns of Clark County, NV.

Support for the Project: Describe to what extend the proposed project is supported by the identified plan. Consider:

- *Is the project identified specifically by name and location in the planning effort?*



Yes. MVWD's Water Conservation Plan states "MVWD's primary goal is to deliver quality water to its customers. To achieve that goal, the existing water distribution system must be kept in good repair..." The plan also states MVWD's existing water supplies must be properly managed through conservation. The proposed project is in accordance with MVWD's conservation plan to maintain the distribution system and manage water through conservation. In addition, MVWD's current Capital Improvements Plan recommends a regular program for replacing and upgrading meters to enable accurate billings, to maintain a quality history of use, to support the sizing and demands of future infrastructure, and to promote water conservation. In summary, the project implements goals from both the Water Conservation Plan and the Capital Improvements Plan.

- ***Is this type of project identified in the planning effort?***

Yes. This type of project is identified in MVWD's current Capital Improvement Plan.

- ***Explain whether the proposed project implement a goal, objective, or address a need or problem identified in the existing planning effort?***

Managing conservation is an overarching goal of the District. A problem that the District has come to know is that it is impossible to manage what is not measured. This is the case for performance on an administrative level as well as system operations. On this premise, the District has made system optimization and care a priority in both the Water Conservation Plan and Capital Improvements Plan. This project will help achieve the goals that the District has, which are to keep the water system in good repair and to make necessary upgrades. This in turn, lends to greater efficiencies in the workflow of personnel. This will result in improved overall system management that will benefit not only the customer base in the MVWD service area but throughout the region.

- ***Explain how the proposed project has been determined as a priority in the existing planning effort as opposed to other potential projects/measures.***

MVWD's Board of Directors recognizes meter replacement and upgrading efforts as an annual priority because of the high return on investment for making the improvements. MVWD recognizes the important role of meter accuracy in revenue generation which translates directly to the ability to fund other needed improvements. MVWD also recognizes the value on the conservation side, especially where lighter demands translate to reduced pressure on source improvements and water right needs. Reduced demands for manpower and equipment, with their related costs, saved in meter reading efficiencies through higher-technology meter upgrades also represents a savings on the demand side of the equation.

EVALUATION CRITERION C: IMPLEMENTATION AND RESULTS (20 POINTS)

Up to 20 points may be awarded based upon the extent to which the applicant is capable of proceeding with the proposed project upon entering into a financial assistance agreement. Applicants that describe a detailed plan (e.g., estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates) will receive the most points under this criterion

Describe the implementation plan for the proposed project. Please include an estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates.



The project will be implemented by local District employees as typical daily duties. With funding being authorized in July 2025, acquiring meter supplies would begin in August 2025 and installation would begin in September 2025 at a rate of 31 meters per month minimum. The total project length is estimated to be 10 months for a completion date of July 2026. Table 2 shows the proposed schedule of implementation.

Table 2. Proposed Project Schedule

Project Tasks and Milestones	Year 1 2025				Year 2 2026			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Receive Funding Award								
Coordinate with Reclamation on Agreement								
Order Meters & Supplies								
Install 305 Upgraded Meters								
Integrate Meters into Data Management System								
Project Closeout & Submit Final Report								

Proposals with a budget and budget narrative that provide a reasonable explanation of project costs will be prioritized under this criterion.

The project is estimated to cost \$252,972. This Grant application is requesting \$125,000 in federal funding from the Bureau of Reclamation (USBR). MVWD will fund the remaining \$127,972 for the project using in-kind services and cash reserves. There is no other pending funding request, including no other federal funding, for this project; therefore, no letters of commitment from partnering funding agencies are required. This project will not incur any costs prior to the estimated start date. Table 3 summarizes the proposed financing sources for this project. A more detailed budget and budget narrative will be included in this application in the form of an attachment.

Table 3. Project Funding Sources

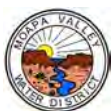
FUNDING SOURCES	AMOUNT
Non-Federal Entities	
Moapa Valley Water District: In-Kind Labor/Wages	\$ 100,267
Moapa Valley Water District: Cash	\$ 27,706
Non-Federal Subtotal	\$ 127,972
Federal Entities	
Bureau of Reclamation	\$ 125,000
Federal Subtotal	\$ 125,000
Total Project Cost	\$ 252,972

Describe any permits and agency approvals that will be required along with the process and timeframe for obtaining such permits or approvals.

No permits are required for this project. It will be completed as a maintenance project under Nevada Division of Environmental Protection (NDEP) Bureau of Safe Drinking Water (BSDW) rules.

Identify and describe any engineering or design work performed specifically in support of the proposed project. What level of engineering design is the project currently? If additional design is required, describe the planning process and timeline for completing the design.

No engineering or design work is required for this project.



Does the applicant have access to the land or water source where the project is located? Has the applicant obtained any easements that are required for the project? If the applicant does not yet have permission to access the project location, describe the process and timeframe for obtaining such permission.

Yes. The proposed project represents improvements to the existing local meter assemblies at specific sites; therefore, the applicant has access to the land where the project is located.

Identify whether the applicant has contacted the local Reclamation office to discuss the potential environmental and cultural resource compliance for the project and the associated costs. Has a line item been included in the budget for costs associated with compliance? If a contractor will need to complete some of the compliance activities, separate line items should be included in the budget for Reclamation's costs and contractor's costs.

Whereas the proposed project (Metering and Data Management Upgrade) represents improvements to local meter assemblies at specific sites that have already been disturbed (there are existing meters in place at each of the sites), environmental impacts are expected to be negligible and NEPA compliance is expected to be tenable through a Categorical Exclusion. Compliance efforts and anticipated costs have been discussed with the local Reclamation office. It is anticipated that Reclamation will perform the work necessary to document NEPA compliance. For budgeting purposes, 3% of the direct costs have been included in the budget proposal to account for this expense, though costs are expected to be minimal.

EVALUATION CRITERION D: NEXUS TO RECLAMATION (5 POINTS)

Up to 5 points may be awarded based on the extent that the proposal demonstrates a nexus between the proposed project and a Reclamation project or activity. Describe the nexus between the proposed project and a Reclamation project or activity, including:

Is the proposed project connected to a Reclamation project or activity?

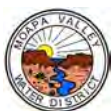
If so, how? Please consider the following:

Yes. The Metering and Data Management Upgrade project is expected to conserve water resources and introduce efficiencies into MVWD's culinary water system. MVWD and SNWA have entered into legal agreements and are working as partners on several initiatives, including the conveyance of SNWA water from the Coyote Springs valley into Lake Mead through MVWD's transmission and distribution system and utilizing MVWD's Jones Spring water right as a source to support SNWA's Warm Springs Natural Area as part of SNWA's regional water management strategy. In addition, both SNWA and MVWD hold water rights in the Lower White River Flow System and are parties to the ongoing discussion on sustainable yield current in the Nevada State Engineer's office. Thus, conservation activities undertaken by MVWD have a direct connection to a Reclamation project (Lake Mead) and a Reclamation partner (SNWA) via the working relationships between MVWD and SNWA.

- ***Does the applicant have a water service, repayment, or operations and maintenance (O&M) contract with Reclamation?***

No. However, MVWD is a contributor to Reclamation project water, being located on the Muddy River at the upstream head of Lake Mead and through its partnerships with SNWA.

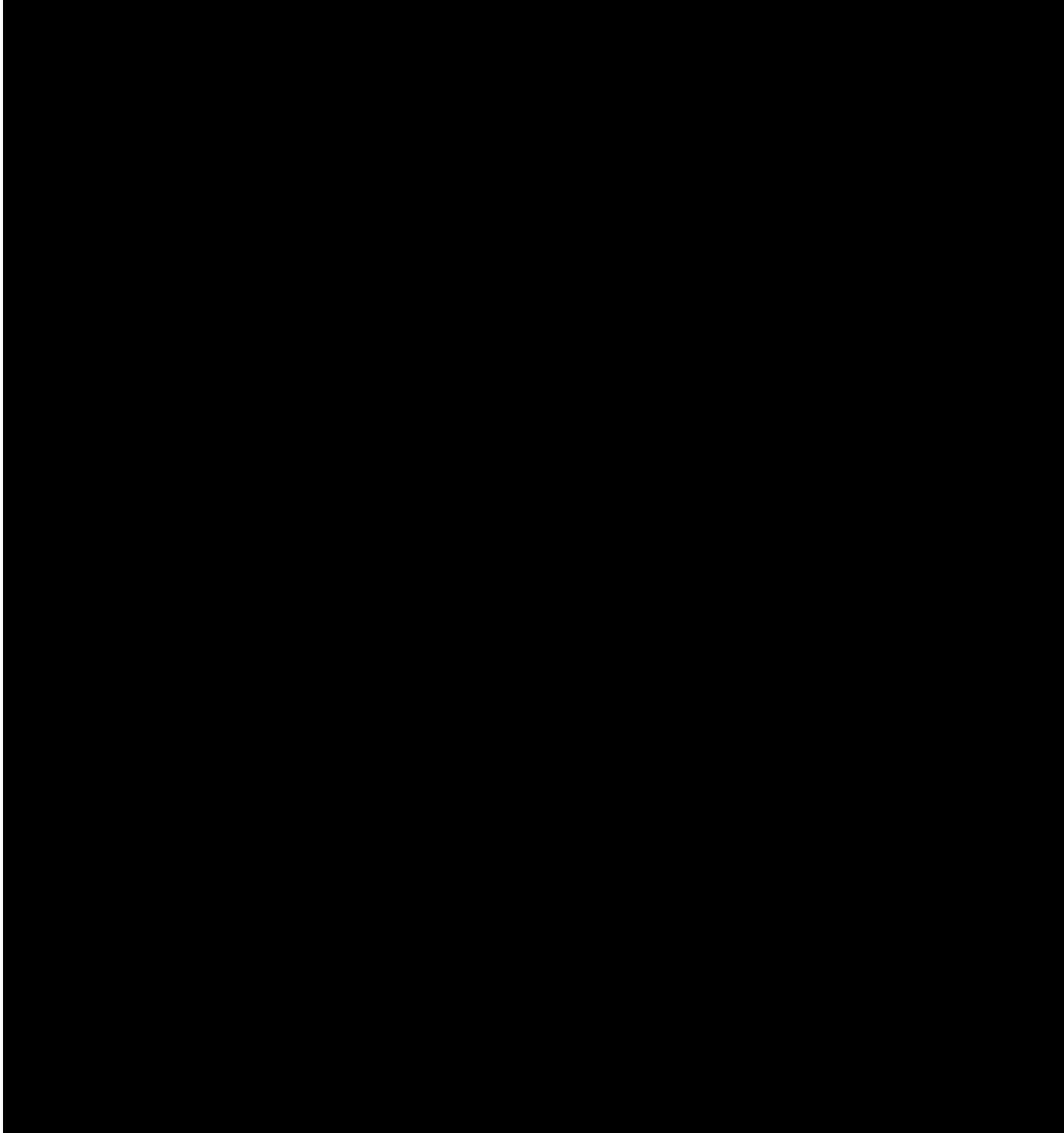
- ***If the applicant is not a Reclamation contractor, does the applicant receive Reclamation water through Reclamation contractor or by any other contractual means?***

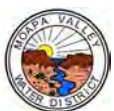
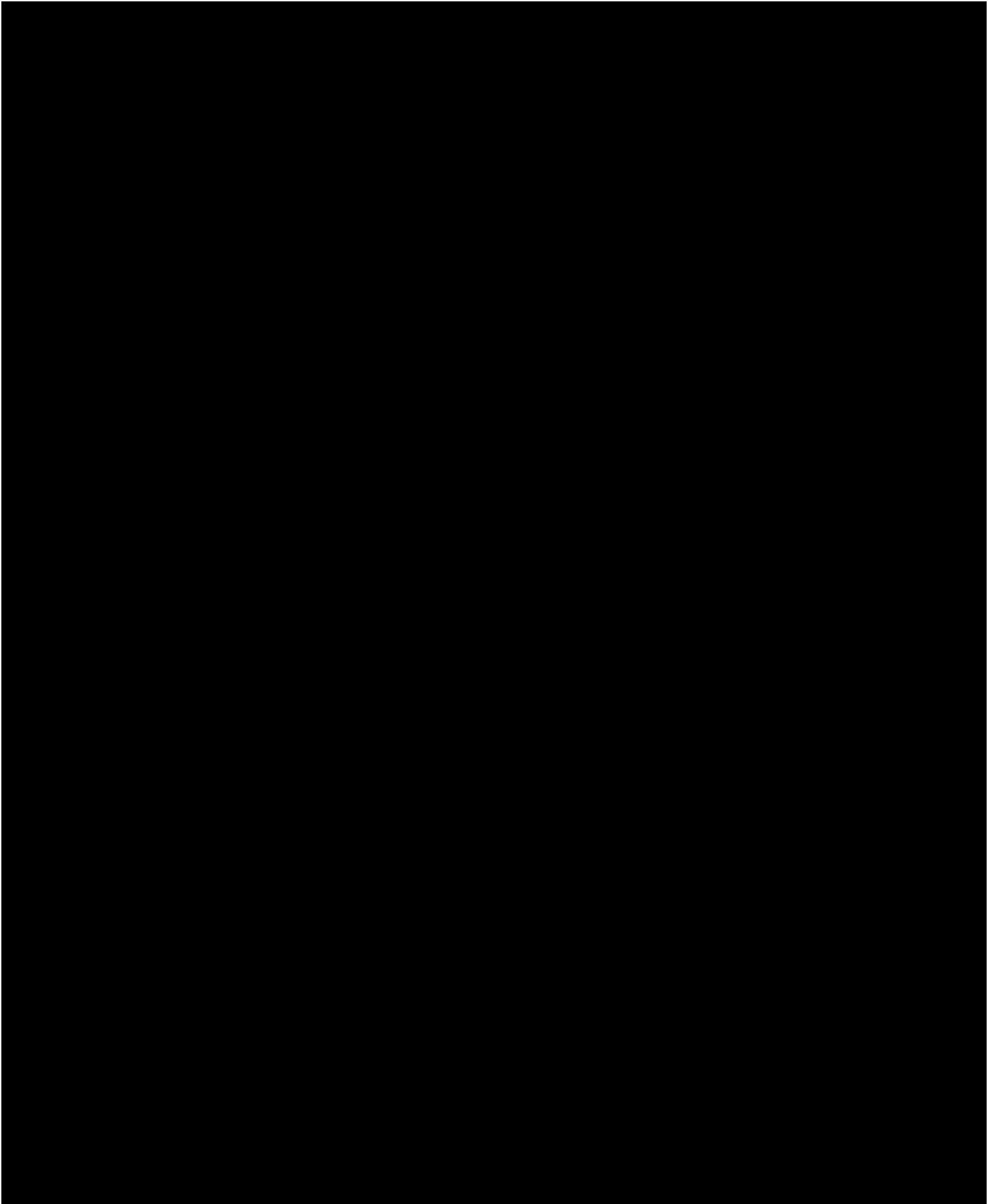


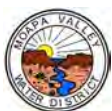
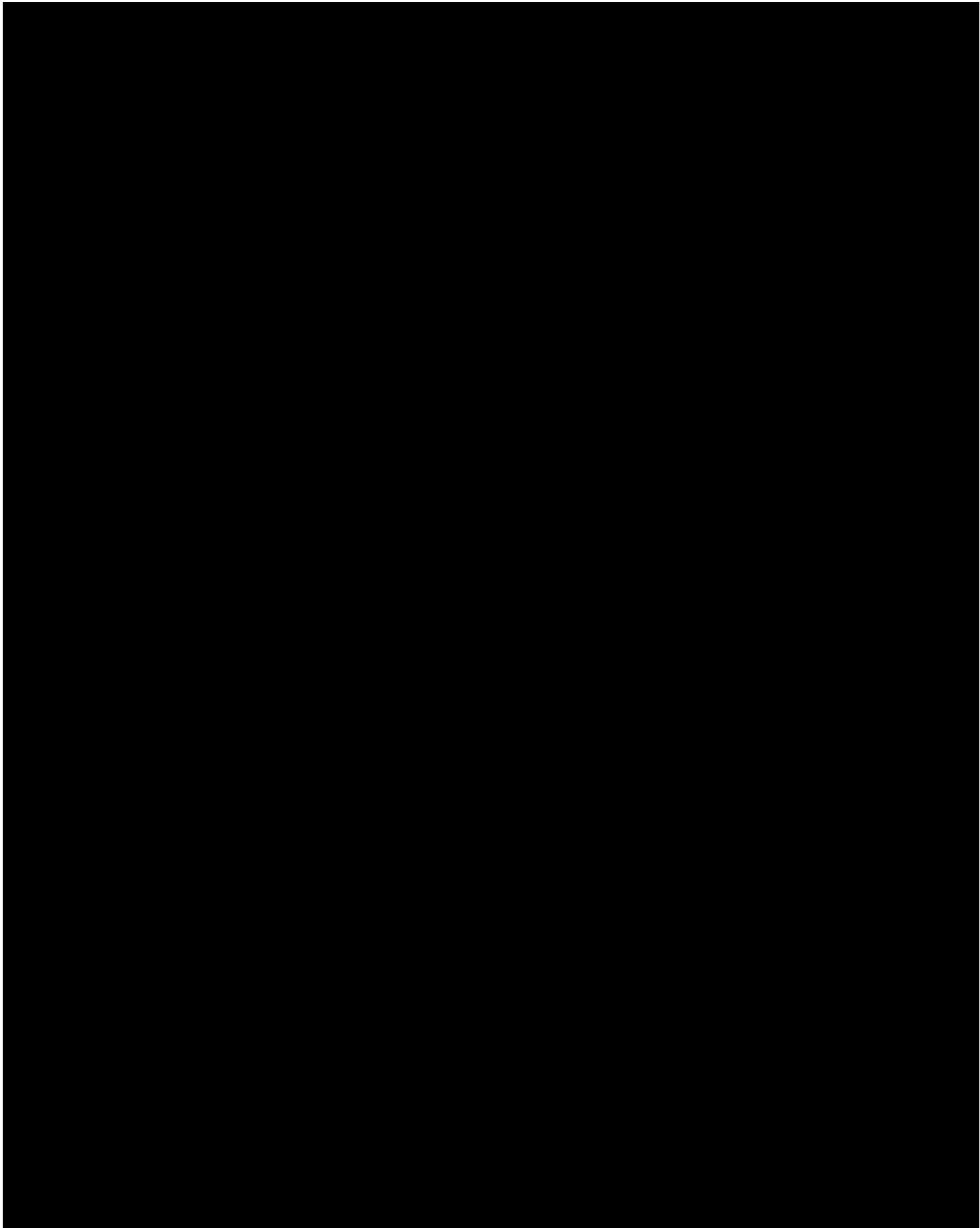
No.

- *Will the proposed work benefit a Reclamation Project area or activity?*

Yes. The project is in the Muddy River basin which flows directly into Lake Mead. The meter upgrade project is expected to have immediate direct and indirect effects on water conservation. Any conserved water resource will enter Lake Mead.







ENVIRONMENTAL AND CULTURAL RESOURCES

CONSIDERATIONS

To allow Reclamation to assess the probable environmental and cultural resources impacts and costs associated with each application, all applicants should consider the following list of questions focusing on the NEPA, ESA, and NHPA requirements. Please answer the following questions to the best of your knowledge. If any question is not applicable to the project, please explain why. The application should include the answers to:

- ***Will the proposed project impact the surrounding environment (e.g., soil [dust], air, water [quality and quantity], animal habitat)? Please briefly describe all earth-disturbing work and any work that will affect the air, water, or animal habitat in the project area. Please also explain the impacts of such work on the surrounding environment and any steps that could be taken to minimize the impacts.***

The proposed project will occur at 305 specific locations within MVWD's service area. Whereas the project contemplates replacing existing meters with improved technology, the sites have already been disturbed and no new disturbance is expected. Excavation activities will be minimal for some sites and non-existent at most sites. Minimal dust may occur but is not expected to affect air, water, or animal habitat. Activities are not expected to result in a significant impact to the local environment.

- ***Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the project area? If so, would they be affected by any activities associated with the proposed project?***

Several endangered, threatened, or sensitive species, such as the Moapa Dace, are located within MVWD's service area boundaries; the majority of these species are found at Warm Springs Natural Area. None of the species will be directly affected by activity at the proposed meter upgrade locations since the work is local to the meters only. By contrast, many of the species will be benefited by the water conservation results of this project.

- ***Are there wetlands or other surface waters inside the project boundaries that potentially fall under CWA jurisdiction as "Waters of the United States?" If so, please describe and estimate any impacts the proposed project may have.***

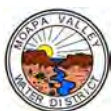
Whereas the improvements will occur at specific meter sites within MVWD's service area boundaries, no impact to wetlands or other surface waters will occur.

- ***When was the water delivery system constructed?***

MVWD was created in 1983 as a political subdivision of the State of Nevada which replaced two prior water companies in Moapa Valley. Portions of the current water delivery system were in place prior to the creation of MVWD while most of the system has been constructed incrementally over time as population growth demands have required. The domestic water meters to be upgraded are of varying ages but represent those that are in most need of replacement now.

- ***Will the proposed project result in any modification of or effects to, individual features of an irrigation system (e.g., headgates, canals, or flumes)? If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously.***

This project has no effect on an irrigation system, other than to promote conservation of resources for use in other areas, including the MVIC system.



- *Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places? A cultural resources specialist at your local Reclamation office or the State Historic Preservation Office can assist in answering this question.*

This project has no effect on an irrigation system, or any buildings, structures, or features listed or eligible for listing on the National Register of Historic Places. The improvements are limited to the meter assemblies only.

- *Are there any known archeological sites in the proposed project area?*
No sites are known. The improvements will be made at specific meter sites which have already been disturbed. No new disturbances are anticipated.
- *Will the proposed project have a disproportionately high and adverse effect on low income or minority populations?*
No. The proposed project will improve service to low income and minority populations. Upgraded meters will promote early leak detection and provide more accurate and fair billing for water use at all improved connections.
- *Will the proposed project limit access to and ceremonial use of Indian sacred sites or result in other impacts on tribal lands?*
The proposed project will benefit members of the Moapa Band of Paiute Indians on the Moapa River Indian Reservation.
- *Will the proposed project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?*
No.

REQUIRED PERMITS OR APPROVALS

You should state in the application whether any permits or approvals are necessary and explain the plan for obtaining such permits or approvals.

No permits are necessary for this project. It will be completed as a maintenance project under Nevada Division of Environmental Protection (NDEP) Bureau of Safe Drinking Water (BSDW) rules.

OFFICIAL RESOLUTION

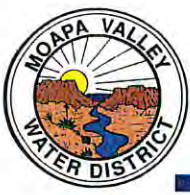
An official resolution meeting the requirements set forth above is mandatory before an award of funding will be made.

An official resolution has been drafted and approved by MVWD's Board of Directors. The signed resolution is attached to this application.



APPENDIX A

LETTERS OF SUPPORT



601 N. Moapa Valley Boulevard * Post Office Box 257 * Logandale, Nevada * 89021
Telephone (702) 397-6893 * Facsimile (702) 397-6894

December 6, 2024

Bureau of Reclamation
Financial Assistance Support Section
Attn: NOFO Team
Denver, Colorado 80225

Re: Bureau of Reclamation Funding Opportunity Number R24AS00059 - WaterSMART Small-Scale Water Efficiency Projects For Fiscal Year 2024 and Fiscal Year 2025 Round #3

Dear NOFO Team,

The Board of Directors of the Moapa Valley Water District whole-heartedly support the District's application for the Small-Scale Water Efficiency Project WaterSMART Grant to upgrade the system's metering infrastructure. We believe this effort to be a vital component in the overall strategy for conserving water resources in Moapa Valley for the benefit of all interested parties.

As with all communities in Southern Nevada, the District understands the importance of protecting and conserving the desert's precious resource-water. Moapa Valley Water District's mandate is to operate a domestic water system that provides water to system users while operating efficiently. Installing technology advanced infrastructure is an important strategy the District employs to ensure effective management of the water.

The District has considerable water interests in Moapa Valley, and we rely on the infrastructure to beneficially use local water resources and deliver them to local users. We hope to see the community grow and prosper as a fundamental part of the economy in Southern Nevada, but this can only be achieved if we act as responsible stewards of our natural resources. We believe this water efficiency project will provide much-needed water conservation and boost the overall health of the local communities.

The Board of Directors appreciate the assistance of the Bureau of Reclamation in its efforts to improve water infrastructure and water efficiency in our valley. If you need anything further, please do not hesitate to contact Kelby Robison at 702-397-6893 or at chairman@moapawater.com.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kelby Robison", with a long, sweeping flourish extending to the right.

Kelby Robison, Chairman
Board of Directors
Moapa Valley Water District

Moapa Valley Water District is an equal opportunity provider and employer

Muddy Valley Irrigation Company

P.O. Box 665, Overton, NV 89040
2625 N. Moapa Valley Blvd., Logandale, NV 89021
Phone: (702) 398-7310 Fax: (702) 398-7307

December 18, 2024

Bureau of Reclamation
Financial Assistance Support Section
Attn: NOFO Team
P.O. Box 25007, MS4-27133
Denver, CO 80225

Re: Funding Opportunity #R24AS00059 Water SMART Small-Scale Water Efficiency Projects for Fiscal Year 2024 and Fiscal Year 2025 Round #3. On behalf of Moapa Valley Water District.

To Whom it may concern,


Muddy Valley Irrigation Company whole-heartedly supports Moapa Valley Water District's application for the Small-Scale Water Efficiency Project Water SMART Grant to upgrade the water system's metering infrastructure. We believe this effort to be a vital component in the overall strategy for conserving water resources in Moapa Valley for the benefit of all interested parties.

As with all communities in southern Nevada, Muddy Valley Irrigation Company understands the importance of protecting and conserving the desert's most precious resource – water. Moapa Valley Water District's mandate is to operate a domestic water system that provides water to system users while operating efficiently. Installing technologically advanced infrastructure is an important strategy the district employs to ensure effective management of the water.

Muddy Valley Irrigation Company has considerable water interests in Moapa Valley, and we rely heavily on the infrastructure to beneficially use local water resources. We hope to see the community grow and prosper as a fundamental part of the economy in Southern Nevada, but this can only be achieved if we act as responsible stewards of our natural resources. We believe this water efficiency project put forth by Moapa Valley Water District will provide much-needed water conservation and boost the overall health of the local communities.

Muddy Valley Irrigation Company appreciates the opportunity to support Moapa Valley Water District in its endeavors to improve water infrastructure and water efficiency. If you need anything further, please do not hesitate to contact Scott Millington at (702)398-7310 or at muddyvalley@mvdsl.com.

Sincerely,


Scott Millington, General Manager
Muddy Valley Irrigation Company



100 City Parkway, Suite 700 • Las Vegas, NV 89106
MAILING ADDRESS: P.O. Box 99956 • Las Vegas, NV 89193-9956
702-862-3400 • snwa.com

December 5, 2024

Bureau of Reclamation
Financial Assistance Support Section
ATTN: NOFO Team

RE: Letter of Support for Funding Opportunity No. R24AS00059 – meter upgrades

To Whom it May Concern:

The Southern Nevada Water Authority (SNWA) is pleased to offer support for the Moapa Valley Water District's (MVWD) funding application for the Bureau of Reclamation's WaterSMART Small-Scale Water Efficiency Projects for Fiscal Year 2024 and Fiscal Year 2025 Round #3, which seeks grant funding to replace aging water meters.

Nevada is one of the driest states in the nation, and becoming more drought resilient requires significant investment in technologies and assets. Conserving Southern Nevada's limited water resources is necessary to ensure a reliable long-term water supply. Meter replacement is a proven way to reduce water losses and conserve natural resources.

The SNWA appreciates the opportunity to support this project. If you need additional information, please contact my office at (702) 822-3378.

Sincerely,

A handwritten signature in blue ink, appearing to read "Colby N. Pellegrino".

Colby N. Pellegrino
Deputy General Manager, Resources

SNWA MEMBER AGENCIES

Big Bend Water District • Boulder City • Clark County Water Reclamation District • City of Henderson • City of Las Vegas • City of North Las Vegas • Las Vegas Valley Water District

APPENDIX B
OFFICIAL RESOLUTION

OFFICIAL RESOLUTION
OF THE
Moapa Valley Water District
Resolution No. 2025-01

The Chairman of the Moapa Valley Water District, Kelby Robison, and the Board of Directors, have reviewed and support the application for a contribution grant for an upgraded culinary water metering project focused on conserving water in Southern Nevada. The grant request in the amount of \$125,000, with an in-kind labor and cash match for an approximate \$250,000 project, would greatly benefit the local residents and the Moapa Valley Water District in efforts to reduce error and water usage cost, while increasing water efficiency.

WHEREAS, the Department of the Interior, Bureau of Reclamation, has made grant funding available under the Small-Scale Water Efficiency Projects For FY24 and FY25 Round #3 - Funding Opportunity Number R24AS00059, the Moapa Valley Water District in Overton, Nevada is submitting a grant application requesting grant funds in the amount of \$125,000 for the upgraded metering materials.

WHEREAS, the Moapa Valley Water District supports the proposed WaterSMART Small-Scale Water Efficiency Projects For FY24 and FY25 Round #3 grant request and is committed to provide the required funding support for the application budget necessary for a successful project.

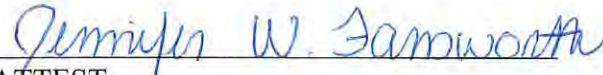
NOW THEREFORE, BE IT RESOLVED, the Moapa Valley Water District commits the remaining budget balance of at least \$125,000, through in-kind labor and cash reserves to comply with the WaterSMART Small-Scale Water Efficiency Projects For FY24 and FY25 Round #3 grant budget.

NOW THEREFORE, BE IT RESOLVED, the Moapa Valley Water District will work with Reclamation to meet environmental compliance and established deadlines for the entering into a grant or cooperative agreement.

PASSED AND APPROVED by the Board of Directors of the Moapa Valley Water District this January __, 2025.



Kelby Robison, Chairman



ATTEST:

ATTACHMENT A
BUDGET DETAIL AND NARRATIVE TEMPLATE

Budget Detail and Narrative

A thorough budget narrative will aid the administrative review and processing of a recommended award. Amounts included in a budget and budget narrative are estimates; in the event of an award, payments will be based on actual expenditures. The following is guidance for your use in preparing a thorough budget narrative. The budget narrative provides a discussion of, or explanation for, items included in the above budget items. The guidance follows the order of the budget items. This Budget Detail and Narrative template is a suggested format to present the breakdown of your estimated costs, by category, needed to accomplish project activities.

General Instructions

1. Only fill in light blue cells, white cells contain instructions, headers, or summary calculations and should not be modified.
2. Rows can be added as needed throughout tabs 6a. through 6j. If rows are added, formulas/calculations may need to be adjusted.
3. The Budget Summary will auto-fill when each Budget Object Class category (BOC) subsection is completed.
4. Rows can be added as needed throughout sections a. through j. If rows are added, formulas/calculations may need to be adjusted.
5. The information in the Budget Summary table must correspond to Section B of the SF-424A
6. The budget estimate should include all project costs, regardless if the costs will be paid with Federal or non-Federal funds or contributed by a third-party.
7. All costs in BOC sections 6a. through 6h. must be directly related to the project activities.
8. All costs must be allowable, allocable, and reasonable in accordance with the administrative requirements and applicable cost principles prescribed in 2 CFR 200.
9. Only non-construction related equipment purchases should be included within BOC subsection 6e. Equipment.
10. All costs for sub-recipients and contractual/consultant costs that are not related to construction activities should be included within BOC subsection 6f. Contractual.
11. All construction costs, including recipient-owned equipment use costs, equipment rental and purchase costs, supply costs, engineering services, and construction contract costs must be included under BOC subsection 6g. Construction.
12. All third-party in-kind contributions of goods and services, including services performed by volunteers must be included with BOC subsection 6h. Other.
13. All costs must comply with the cost principles of 2 CFR 200 Subpart E - Cost Principles and be allowable, allocable to the project, and reasonable in amount

Links: [2 CFR 200 Subpart E - Cost Principles](#)

[§ 200.403 Factors affecting allowability of costs](#)

[§ 200.405 Allocable costs](#)

[§ 200.404 Reasonable costs](#)

Cost Share Instructions

1. The budget must include at least the minimum Federal to non-Federal required cost share if applicable.
2. Cost share encompasses all contributions to the project incurred and paid for during the project. This includes payments for personnel, supplies, equipment, activities and items necessary for the project.
3. In-kind Cost Share encompasses all third party contributions to the project that do not involve a payment or reimbursement and represent donated items or services that are necessary to the performance of the project. This includes volunteer personnel hours, donated existing equipment, donated existing supplies, etc.

ATTACHMENT A
BUDGET DETAIL AND NARRATIVE TEMPLATE

Summary			
6. Budget Object Category	Total Cost	Federal Estimated Amount	Non-Federal Estimated Amount
a. Personnel	\$60,731		
b. Fringe Benefits	\$29,525		
c. Travel	\$0		
d. Equipment	\$10,010		
e. Supplies	\$152,706		
f. Contractual	\$0		
g. Construction	\$0		
h. Other Direct Costs	\$0		
i. Total Direct Costs	\$252,972		
i. Indirect Charges	\$0		
Total Costs	\$252,972	\$125,000	\$127,972
Cost Share Percentage		49%	51%

Additional Narrative/Comments:

The proposed budget includes estimated time for MVWD employees administering and overseeing the project including meetings and consultations with the District’s engineers, project visits, all required paperwork, reporting, and other duties involved with the project. Salaries and wages are based on 2024 figures and represent an in-kind or cash matching contribution to the project by MVWD. MVWD will prepare the following reports and submit them to Reclamation: SF-425 Federal Finance Report, an interim performance report, and a final report.

ATTACHMENT A
BUDGET DETAIL AND NARRATIVE TEMPLATE

6a. Personnel

This category includes salaries and wages of employees of the applicant organization that will be working directly on the project. Generally, salaries of administrative and/or clerical personnel are classified as indirect or overhead costs in your organization's accounting system included as a portion of the stated indirect costs. If these salaries can be adequately documented as direct costs, they can be included in this section; however, a justification must be included in the narrative. Recommend reviewing **§ 200.430 Compensation - personal services** for more information on the specific requirements regarding compensation costs, including the **Standards for Documentation of Personnel Expenses at §200.430(i)**.

Narrative: For key personnel such as the project manager or principal investigator, identify the name individual and position/title. Other personnel should be identified by position only. For all positions, identify the project tasks that will be performed. Compensation rates can be expressed as hourly rates and number of hours or annual salary and percentage effort that will be contributed to each task, but must be consistent with your organization's accounting and timekeeping policies. Include estimated hours for compliance with reporting requirements, including the final project report and evaluation. For multi-year projects, identify the level of effort anticipated for each budget year and any estimates increases in compensation rates. Within the budget narrative, provide a certification that the labor rates included in the budget proposal represent the actual labor rates of the identified personnel/positions and are consistently applied to Federal and non-Federal activities. *Note: The annual/hourly labor rate must not include fringe benefits.*

Links: [§ 200.430 Compensation - personal services.](#)

Personnel					
Position Title	Time (Hrs or %)	Rate (Hr or Salary)	Total Cost	Rate Basis	Comments (as needed)
EXAMPLE!!! Sr. Engineer Y1	400	\$46	\$18,400	Current Salary	hourly rate based on average rate for all personnel occupying this position
EXAMPLE!!! Sr. Engineer Y2	400	\$48	\$19,000	Current Salary + 3% increase	Increase based on the average annual increase for all personnel occupying this position
Lon Dalley - Project Manager	50	\$55	\$2,765	Current Salary	Hourly rate of specific individual expected to work on the project
Daniel Bevan - Lead Serviceman	150	\$42	\$6,360	Current Salary	Hourly rate of specific individual expected to work on the project
Victor Bitter - Maintenance Serviceman	530	\$36	\$19,107	Current Salary	Hourly rate of specific individual expected to work on the project
Dandy Sutphin - Maintenance Worker	1300	\$25	\$32,500	Current Salary	Hourly rate of specific individual expected to work on the project
			\$0		
			\$0		
			\$0		
Total			\$60,731		

Additional Narrative/Comments:

The employee positions tasked with the project are Project Manager, Maintenance Serviceman, and Maintenance Worker. The Project Manager responsibilities include those of administration and coordination with Reclamation. The Serviceman works as the lead of the crew assigned to installing the new meters while the Maintenance Worker will provide the majority of the labor required for meter installation.

ATTACHMENT A
BUDGET DETAIL AND NARRATIVE TEMPLATE

6b. Fringe Benefits

Fringe benefits are allowances and services provided by employers to their employees as compensation in addition to regular salaries and wages. Fringe benefits include, but are not limited to, the costs of leave (vacation, family-related, sick or military), employee insurance, pensions, and unemployment benefit plans. Fringe costs should also include employer contributions required by law such as payroll taxes such as FICA, unemployment, and workers compensation. Fringe does not include federal income taxes, employee portion FICA, or other such costs. Recommend reviewing **§ 200.431 Compensation - fringe benefits** for more information on the allowability and allocability of fringe benefits. *Note: Car allowances and cars furnished to employees for personal and work use are unallowable as a fringe benefit, regardless of whether the costs is reported as taxable income, and must be excluded from fringe benefit rates.*

Narrative: Fringe benefits can be expressed as an hourly rate or percentage of personnel costs, but must correspond to how the costs are documented in your organization's accounting system. In the narrative, identify the fringe benefit rates/amounts for each position. If the fringe benefit rate is less than 35% of the estimated employee compensation, no additional information is necessary. If the fringe benefit rate is more than 35%, provide a description and breakdown of the benefits. If the rate is established within a negotiated indirect cost rate agreement (NICRA), provide a copy of the agreement with the application. Do not combine the fringe benefit costs with direct salaries and wages in the personnel category.

Links: [§ 200.431 Compensation - fringe benefits](#)

Fringe Benefits				
Position Title	Compensation	Quantity	Total Cost	Comments (as needed)
EXAMPLE !!! Director	\$8.55	475	\$4,061	less than 35% of compensation rate
EXAMPLE !!! Sr. Engineer	50%	\$18,400	\$9,200	FICA 8%, Unemployment 6%, WCI 1%, medical and dental 18%, retirement 3%, holidays and leave 14%
Lon Dalley - Project Manager	\$29.30	50	\$1,465	See additional narrative below
Daniel Bevan - Lead Serviceman	\$22.05	150	\$3,308	See additional narrative below
Vic Bitter - Meter Services Specialist	\$19.11	530	\$10,128	See additional narrative below
Dandy Sutphin - Meter Services Specialist	\$11.25	1300	\$14,625	See additional narrative below
			\$0	
		Total	\$29,526	

Additional Narrative/Comments:

The provisional fringe benefits rates for MVWD personnel are based on 2024 benefits expenses and averages 41% of the base wage for the listed employees. Fringe benefits include Medicare, retirement, and insurance. Fringe benefits anticipated for the project represent an in-kind or cash matching contribution to the project by MVWD.

ATTACHMENT A
BUDGET DETAIL AND NARRATIVE TEMPLATE

6c. Travel

Travel costs are expenses incurred by personnel in the performance of project activities. Costs can be charged on an actual cost basis, on a per diem or mileage basis in lieu of actual costs incurred, or on a combination of the two, provided that the method used is applied to the entire trip and not to selected days of the trip. All charges must be consistent with those normally allowed under similar circumstances for non-Federally funded activities and any established travel policies. Recommend reviewing [§ 200.475 Travel costs](#)

Narrative: Provide a narrative describing any travel employees are anticipated to perform. Include the purpose of the travel and how it relates to project tasks, the origin and destination of the trip, number of personnel traveling, length of stay and all travel costs including airfare, per diem, lodging, transportation, and miscellaneous travel expenses. Identify the basis for rates used, (e.g. GSA Per Diem Rates, published prices) and the total of each planned trip.

Links: [§ 200.475 Travel costs](#)

Travel

Purpose	From/To	# of Days	# of Travelers	Lodging per Traveler	Flight per Traveler	Vehicle per Traveler	Per Diem per Traveler	Cost per Trip	Basis for Estimate
EXAMPLE!!! Final Project Presentation	Washington D.C. to Denver	2	1	\$195	\$345	\$146	\$114	\$800	GSA rates, published price
EXAMPLE!!! Stakeholder meetings	TBD	NA	1	NA	NA	NA	NA	\$244	mileage cost for 6 meetings, average 70 mi Round trip x .58/mile
Meter Replacement	Shop to Meter Replacement Location			\$0	\$0		\$0	\$0	See additional narrative below
								\$0	
								\$0	
								\$0	
								\$0	
Total								\$0	

Additional Narrative/Comments:

Travel related expenses are not eligible for reimbursement under this FOA and as such are not included in the project budget. Local travel costs are included in vehicle usage rates as part of the Equipment section.

ATTACHMENT A
BUDGET DETAIL AND NARRATIVE TEMPLATE

6d. Equipment

Equipment is defined in §200.1 as tangible personal property (including information technology systems) having a useful life of more than one year and a per-unit acquisition cost which equals or exceeds the lesser of the capitalization level established by the applicant organization for financial statement purposes, or \$5,000. Recommend reviewing **§ 200.439 Equipment and other capital expenditures** for additional information on the allowability of equipment costs and **§ 200.313 Equipment** for information regarding the title, use, management and disposition requirements for equipment acquired under a Federal award.

Narrative: If equipment will be purchased, itemize all equipment valued at or greater than your organization's capitalization threshold for financial statement purposes. If your organization's capitalization threshold is greater than \$5,000, identify all equipment valued at or greater than \$5,000. For each item, identify why it is needed for the completion of the project and how the equipment was priced (published price, quote, etc.). Include in the narrative a comparison of rental and/or lease costs over the purchase of the equipment item. Note: Do not include equipment that will be purchased and/or installed as part of a construction-related activity. Construction costs must be included in Object Class Category 6g.

Links: [§200.1 Definitions](#)
[§ 200.313 Equipment](#)
[§ 200.439 Equipment and other capital expenditures](#)

Equipment

Equipment Item	Quantity	Unit Cost	Total Cost	Basis of Cost	Purpose	Rental Comparison
EXAMPLE!!! Ultra-cold freezer	1	\$10,000	\$10,000	Published price	store cell cultures and reagents	Rental cost \$475-530/mo or \$18,000
3/4 Ton Truck	2	\$4,505	\$9,010	See additional narrative below	Drive To and From Meter Replacement	Rental Unit Cost \$834 - \$903/week
Backhoe/Loader	1	\$1,000	\$1,000	See additional narrative below	To Complete Meter Replacement	Rental Unit Cost \$4,930 - \$5,475/mo
			\$0			
			\$0			
			\$0			
		Total	\$10,010			

Additional Narrative/Comments:

3/4 Ton Truck - 2 @ 265 hr each at \$17.00 an hour = \$9,010 / Backhoe/Loader - 1 @ 40 hrs at \$25.00 an hour = \$1,000

Equipment costs incurred are for use of MVWD owned equipment. Local vehicle travel costs and loader operating costs are included as part of the proposed budget. All equipment rates have been determined using the Army Corps of Engineers recommended rates and represent an in-kind or cash matching contribution to the project by MVWD.

ATTACHMENT A
BUDGET DETAIL AND NARRATIVE TEMPLATE

6f. Contractual

Include all contracts and subawards, (other than those for construction activities) under this Budget Object Class Category. Per § 200.1, *acontract* means, for the purpose of Federal financial assistance, a legal instrument by which a recipient or subrecipient purchases property or services needed to carry out the project or program under a Federal award. The term as used in this part does not include a legal instrument, even if the non-Federal entity considers it a contract, when the substance of the transaction meets the definition of a subaward.

For additional information on subrecipient and contractor determinations, see § 200.331 Subrecipient and contractor determinations. Do not include construction contract costs in this subsection. Construction costs should be included in Budget Object Class Category 6g, Construction.

Links: [§ 200.1 Definitions](#)
[§ 200.331 Subrecipient and contractor determinations.](#)

Contracts

For each contract, regardless of dollar value, describe the services to be obtained and the applicability or necessity of each to the project. Identify the total estimated cost and the basis(es) used to develop the estimate. For each contract with an estimated amount meeting or exceeding \$250,000 or represents 35% or more of the total project cost, provide a separate detailed description of the estimated costs. A detailed estimate can be included with the application in lieu of a description. For contracts with an estimated cost equal to or greater than the micro-purchase threshold (currently \$10,000) identify the anticipated procurement method to be used and the basis of selection.

NOTE: Only contracts for architectural/engineering services can be awarded using a qualifications-based procurement method. If a qualifications-based procurement method is used, profit must be negotiated as a separate element of the contract price. See **§200.318 General Procurement Standards** for additional information regarding procurements, including required contract content. The procurement method used must be compliant with **§ 200.319 Competition**, and **§ 200.320 Methods of procurement to be followed**. Recommend reviewing **§200.459 Professional service costs**.

Links: [§ 200.318 General procurement standards](#)
[§ 200.319 Competition](#)
[§ 200.320 Methods of procurement to be followed.](#)
[§ 200.459 Professional service costs](#)

Contractor Name	Purpose and Contracting Method	Total Cost	Description of costs	Basis of cost
EXAMPLE!! Facilitator, TBD	facilitate stakeholder meetings, technical assessments and preplanning activities.	\$11,250	personnel costs	average fees of consultants in the area is \$150 x estimated 75 hours of work. Estimate prepared by Project Director
EXAMPLE!!! Water Quality Consulting	water quality support for pre-planning activities	\$2,000	personnel costs	quote from local provider of services
N/A		\$0		
		\$0		
		\$0		
		\$0		
		\$0		
		\$0		
		\$0		
	Subtotal	\$0		

Additional Narrative/Comments:

Subawards

If known, identify the recipient of each subaward. Describe the activities to be performed under each subaward and indicate the applicability or necessity of each to the project. Provide a separate detailed budget for each subaward, regardless of dollar value. A detailed estimate may be included with the application in lieu of a description of budgeted costs. Identify who prepared the estimate (subrecipient, applicant personnel, etc.) and indicate the basis used to estimate each cost. Include any indirect/overhead costs anticipated to be paid and the rate used. If the subrecipient has a Federal negotiated indirect cost rate agreement (NICRA), include a copy of the NICRA with the application.

Subrecipient Name	Description of Activities	Total Cost	Description of budgeted costs	Basis of Cost
EXAMPLE!!! ABC Nonprofit	Conduct outreach, facilitate stakeholder meetings and perform preplanning activities	\$8,400	See attached estimate.	actual compensation and fringe rates(21%), GSA mileage rate, indirect cost rate agreement.
N/A		\$0		
		\$0		
		\$0		
		\$0		
		\$0		
	Subtotal	\$0		

Additional Narrative/Comments:

Whereas MVWD will install the upgraded meters with in-house crews, a contractor will not be retained to complete the work. MVWD anticipates using Sunrise Engineering, Inc. under the existing on-call services agreement between the parties where necessary to support MVWD's efforts in reporting/coordinating with Reclamation. However, these services are not included as part of the project budget.

ATTACHMENT A
BUDGET DETAIL AND NARRATIVE TEMPLATE

TOTAL CONTRACTUAL	\$0
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ATTACHMENT A
BUDGET DETAIL AND NARRATIVE TEMPLATE

6 j. Indirect Costs

Option 1: Show the rate reflected in the most recent Federal indirect cost rate agreement, cost base, and proposed amount for allowable indirect costs. If your organization has a current Federal negotiated indirect cost rate agreement, it must be included with your application.

Option 2: If your organization has never received a Federal negotiated indirect cost rate, the budget may include a 10 % de minimis rate of modified total direct costs. Per **§ 200.1 Definitions**, Modified Total Direct Cost (MTDC) means all direct salaries and wages, applicable fringe benefits, materials and supplies, services, travel, and up to the first \$25,000 of each subaward (regardless of the period of performance of the subawards under the award). MTDC excludes equipment, capital expenditures, charges for patient care, rental costs, tuition remission, scholarships and fellowships, participant support costs and the portion of each subaward in excess of \$25,000. For further information on modified total direct costs, refer to **§ 200.414 Indirect (F&A) costs**.

Option 3: If your organization does not have a federally approved indirect cost rate agreement and is proposing a rate greater than the 10 % de minimis rate, include the computational basis for the indirect expense pool and corresponding allocation base for each rate. *Note: If this option is selected, you will be required to submit an indirect cost rate proposal to your cognizant Federal agency within 3 months after the date the award is issued.* Information on “Preparing and Submitting Indirect Cost Proposals” is available from Interior, the National Business Center, and Indirect Costs and Acquisition Audit Services at <https://ibc.doi.gov/ICS/icrna>.

Note: Construction costs are capital expenditures and must be excluded from the indirect cost base.

Links: [§ 200.1 Definitions](#)
[§ 200.414 Indirect \(F&A\) costs.](#)
<https://ibc.doi.gov/ICS/icrna>

j. Indirect Costs

Rate Type	Current Federal NICRA	Base Description	Base Total	Rate	Total Cost
EXAMPLE!!! Indirect Rate	Yes	See indirect cost rate agreement	\$113,020	42.80%	\$0
EXAMPLE!!! De minimis	No	Personnel, Fringe, Travel, and Supplies	\$141,020	10.00%	\$0
N/A					\$0
					\$0
					\$0
					\$0
Total					\$0
Estimated amount of indirect costs to be paid with Federal funds					
Estimated amount of indirect costs to be paid with non-Federal funds					