Avra Water Co-op, Inc.
 MXU Replacement Project
 for Ground Water Conservation
 Tucson AMA
WMAP Groundwater Conservation Grant Application Cover Page

Program/Project Title AND Brief Description:

MXU Replacement Project for Ground Water Conservation

<table>
<thead>
<tr>
<th>Type of Program or Project:</th>
<th>Your level of commitment to maintenance of project benefits and capital improvements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Water Innovation &amp; Technology</td>
<td>□ &lt; 5 years ☑ 5-10 years □ 11-15 years □ 16-20 years</td>
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<tr>
<td>☐ Infrastructure Water Efficiency</td>
<td></td>
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<tr>
<td>☐ Ecological Enhancement</td>
<td></td>
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<tr>
<td>☐ Public Outreach &amp; Engagement</td>
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</table>

<table>
<thead>
<tr>
<th>Applicant Information:</th>
<th>AMA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name/Organization: Avra Water Co-op, Inc.</td>
<td>□ Phoenix</td>
</tr>
<tr>
<td>Address: 11821 W Picture Rocks Rd</td>
<td>☑ Tucson</td>
</tr>
<tr>
<td>City: Tucson</td>
<td>□ Prescott</td>
</tr>
<tr>
<td>State: Arizona</td>
<td>□ Pinal</td>
</tr>
<tr>
<td>ZIP Code: 85743</td>
<td>□ Santa Cruz</td>
</tr>
<tr>
<td>Phone: 520-682-7331</td>
<td>If the project is located outside of an AMA, it is not eligible for funding.</td>
</tr>
<tr>
<td>Tax ID No.:</td>
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</tr>
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</table>

<table>
<thead>
<tr>
<th>Contact Person:</th>
<th>Does this project meet any of our priority criteria? If so, which?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: Cathy Kuefler</td>
<td>☑ Additional contribution</td>
</tr>
<tr>
<td>Title: Administrative Manager</td>
<td>☐ Innovative qualities</td>
</tr>
<tr>
<td>Phone: 520-682-7331</td>
<td>☑ Demonstrate high impact</td>
</tr>
<tr>
<td>e-mail: <a href="mailto:Cathy@avrawater.com">Cathy@avrawater.com</a></td>
<td>☑ Demonstrate multiple benefits</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Water Management Assistance Program Grant Amount Requested:</th>
<th>Additional Contribution Obtained and Secured:</th>
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<tbody>
<tr>
<td>$ 75,000</td>
<td>Applicant/Agency/Organization: Amount ($)</td>
</tr>
<tr>
<td></td>
<td>1. Applicant: 44,820</td>
</tr>
<tr>
<td></td>
<td>2. Dana Kepner: 20,481</td>
</tr>
<tr>
<td></td>
<td>3.</td>
</tr>
<tr>
<td></td>
<td>Total: 140,301</td>
</tr>
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</table>

Signature of the undersigned certifies understanding and compliance with all terms, conditions and specifications in the application. Additionally, signature certifies that all information provided by the applicant is true and accurate. The undersigned acknowledges that intentional presentation of any false or fraudulent information, or knowingly concealing a material fact regarding this application is subject to criminal penalties as provided in A.R.S. Title 13. The ADWR Director may approve Grant Awards with modifications to scope items, methodology, schedule, final products and/or budget.

Cathy Kuefler
Administrative Manager

<table>
<thead>
<tr>
<th>Name of Applicant / Authorized Representative</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>520-682-7331</td>
<td>[Signature] 2/14/2020</td>
</tr>
</tbody>
</table>

Telephone Number: Signature: Date Signed
ARIZONA DEPARTMENT OF WATER RESOURCES

WMAP Groundwater Conservation Grant Application Checklist

☐ Project Proposal
  ☐ Cover Letter
  ☐ Executive Summary
  ☐ Project Overview
  ☐ Scope of Work
  ☐ Budget Breakdown & Narrative
  ☐ Additional Contribution Breakdown (if applicable)
  ☐ Project Map
  ☐ Supplemental Information
    ☐ Evidence of physical and legal availability of water
    ☐ Evidence of Control and Tenure of Land
    ☐ State Historic Preservation Office Review Form
# APPENDIX 4:

## Budget Breakdown & Narrative

<table>
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<tr>
<th>Budget Categories</th>
<th>Task 1: Purchase MXU's</th>
<th>Task 2: Install MXU's</th>
<th>Task 3: Begin Bi-Weekly Reading</th>
<th>Task 4: Review all data for high usage / leaks</th>
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<td>i. Total Direct Charges (sum of a-h)</td>
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<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>j. Indirect Charges</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>k. Totals (sum of i and j)</td>
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<td>$</td>
<td>$</td>
<td>$</td>
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<tr>
<td><strong>Total Program/Project Budget</strong></td>
<td><strong>$18,750</strong></td>
<td><strong>$18,750</strong></td>
<td><strong>$18,750</strong></td>
<td><strong>$18,750</strong></td>
<td><strong>$75,000</strong></td>
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STATE HISTORIC PRESERVATION OFFICE
Review Form

In accordance with the State Historic Preservation Act (SHPO), A.R.S. 41-861 et seq, effective July 24, 1982, each State agency must consider the potential of activities or projects to impact significant cultural resources. Also, each State agency is required to consult with the State Historic Preservation Officer with regard to those activities or projects that may impact cultural resources. Therefore, it is understood that recipients of state funds are required to comply with this law throughout the project period. All projects that affect the ground-surface that are funded by AWPF require SHPO clearance, including those on private and federal lands.

The State Historic Preservation Office (SHPO) must review each grant application recommended for funding in order to determine the effect, if any, a proposed project may have on archaeological or cultural resources. To assist the SHPO in this review, the following information MUST be submitted with each application for funding assistance:

- A completed copy of this form, and
- A United States Geological Survey (USGS) 7.5-minute map
- A copy of the cultural resources survey report if a survey of the property has been conducted, and
- A copy of any comments of the land managing agency/landowner (i.e., state, federal, county, municipal) on potential impacts of the project on historic properties.

NOTE: If a federal agency is involved, the agency must consult with SHPO pursuant to the National Historic Preservation Act (NHPA); a state agency must consult with SHPO pursuant to the State Historic Preservation Act (SHPA),
OR
- A copy of SHPO comments if the survey report has already been reviewed by SHPO.

Please answer the following questions:

1. Grant Program: WMAP Groundwater Conservation Grant

2. Project Title: MXU Replacement Project for Groundwater Conservation

3. Applicant Name and Address: Avra Water Co-op, Inc. 11821 W Picture Rocks Rd, Tucson, AZ 85743

4. Current Landowner/Manager(s): Manager - Cathy Kuefler

5. Project Location, including Township, Range, Section: ______

6. Total Project Area in Acres (or total miles if trail): 12.48 sq. miles

7. Does the proposed project have the potential to disturb the surface and/or subsurface of the ground?
   □ YES   X NO

8. Please provide a brief description of the proposed project and specifically identify any surface or subsurface impacts that are expected: _____
   This program would not impact the ground or surface. We would be adding a MXU device to the meter at customers meter boxes which are all already installed.

9. Describe the condition of the current ground surface within the entire project boundary area (for example, is the ground in a natural undisturbed condition, or has it been bladed, paved, graded, etc.). Estimate horizontal and vertical extent of existing disturbance. Also, attach photographs of project area to document condition: _____
10. Are there any known prehistoric and/or historic archaeological sites in or near the project area? □ YES  □ NO

11. Has the project area been previously surveyed for cultural resources by a qualified archaeologist? □ YES  □ NO  □ UNKNOWN

If YES, submit a copy of the survey report. Please attach any comments on the survey report made by the managing agency and/or SHPO.

12. Are there any buildings or structures (including mines, bridges, dams, canals, etc.), which are 50-years or older in or adjacent to the project area? □ YES  □ NO

If YES, complete an Arizona Historic Property Inventory Form for each building or structure, attach it to this form and submit it with your application.

13. Is your project area within or near a historic district? □ YES  □ NO

If YES, name of the district:

Please sign on the line below certifying all information provided for this application is accurate to the best of your knowledge.

Clupea, 2/14/2020  Cathy Kuefler
Applicant Signature  /Date  Applicant Printed Name

FOR SHPO USE ONLY

SHPO Finding:
□ Funding this project will not affect historic properties.
□ Survey necessary – further GRANTS/SHPO consultation required (grant funds will not be released until consultation has been completed)
□ Cultural resources present – further GRANTS/SHPO consultation required (grant funds will not be released until consultation has been completed)

SHPO Comments:

For State Historic Preservation Office:  Date:
STATE OF ARIZONA
HISTORIC PROPERTY INVENTORY FORM

Please type or print clearly. Fill out each applicable space accurately and with as much information as is known about the property.

Not Applicable to this project.

PROPERTY IDENTIFICATION
For properties identified through survey: Site No. _____ Survey Area: _____

Historic Names (enter the name(s), if any that best reflect the property's historic importance): _____

Address: _____

City or Town: _____ □ Vicinity County: _____ Tax Parcel No.: _____

Township: _____ Range: _____ Section: _____ Quarters: _____ Acreage: _____

Block: _____ Lot(s): _____ Plat (Addition): _____ Year of plat (addition): _____

UTM Reference - Zone: _____ Easting: _____ Northing: _____

USGS 7.5' quadrangle map: _____

ARCHITECT: _____ □ not determined □ known Source: _____

BUILDER: _____ □ not determined □ known Source: _____

CONSTRUCTION DATE: _____ □ known □ estimated Source: _____

STRUCTURAL CONDITION
□ Good (well maintained; no serious problems apparent)
□ Fair (some problems apparent) Describe: _____
□ Poor (major problems; imminent threat) Describe: _____
□ Ruin/Uninhabitable

USES/FUNCTIONS
Describe how the property has been used over time, beginning with the original use: _____

Sources: _____

PHOTO INFORMATION
Date of photo: _____
View Direction (looking towards): _____

Attach a recent photograph of property in this space. Additional photographs may be appended.

SIGNIFICANCE
To be eligible for the National Register, a property must represent an important part of the history or architecture of an area. The significance of a property is evaluated within its historic context, which are those patterns, themes, or trends in history by which a property occurred or gained importance. Describe the historic and architectural contexts of the property that may make it worthy of preservation.

A. HISTORIC EVENTS/TRENDS – Describe any historic events/trends associated with the property: _____

B. PERSONS – List and describe persons with an important association with the building: _____

C. ARCHITECTURE – Style: _____ □ no style

Stories: _____ □ Basement  Roof Form: _____

Describe other character-defining features of its massing, size and scale: _____

INTEGRITY
To be eligible for the National Register, a property must have integrity (i.e. it must be able to visually convey its importance). The outline below lists some important aspects of integrity. Fill in the blanks with as detailed a description of the property as possible.

Location - □ Original Site    □ Moved: Date: _____  Original Site: ______

DESIGN
Describe alterations from the original design, including dates: _____

MATERIALS
Describe the materials used in the following elements of the property:

Walls (structure): _____

Walls (sheathing): _____

Windows: _____

Roof: ______

Foundation: _____

SETTING
Describe the natural and/or built environment around the property: _____

How has the environment changed since the property was constructed? _____

WORKMANSHIP
Describe the distinctive elements, if any, of craftsmanship or method of construction: _____

NATIONAL REGISTER STATUS (if listed, check the appropriate box)
□ Individually Listed;  □ Contributor;  □ Non-contributor to _____ Historic District

Date Listed: _____ □ Determined eligible by Keeper of National Register (date: _____)
RECOMMENDATIONS ON NATIONAL REGISTER ELIGIBILITY (opinion of SHPO staff or survey consultant)

Property ☐ is ☐ is not eligible individually.

Property ☐ is ☐ is not eligible as a contributor to a listed or potential historic district.

☐ More information needed to evaluate.

If not considered eligible, state reason: _____
Map 1: Depiction of the Active Management Areas
Project Map
Project Map

Avra Water Co-op’s service area is 12 square miles and the main office is located at approximately the center point of our service area. MXUs will be replaced within our service area. A map which shows that we are within the Tucson AMA and our GIS coordinates is attached.
Map 1: Project Area Within The Active Management Area

Center Point
UTM Zone 12 NAD83 Meters
Northing 3576449
Easting: 480,519
State Plane Arizona Central Harn International Feet
Northing: 482,589
Easting: 919,217
Executive Summary
Avra Water Co-op is a small community with approximately 2,600 connections, all on acre or larger lots. The challenge we currently have is helping our customers find and locate leaks. Lot sizes are large and quite often, leaks go unnoticed until we get their meter read and see the high usage on the meter read reports. Meters are read once a month and we review every read for high usage. If we feel there is a problem, we either call the customer and/or send a technician out to investigate the high usage. While this has helped many customers find and fix their leaks in the past, 30 days of leaking water can be a substantial amount of lost groundwater. Our goal is to help our customers find leaks sooner. Replacing our old MXUs (Meter Transceiver Units) with more efficient, up to date MXUs, reading meters will be much faster, cutting our read time in half and allowing us to read bi-weekly, and eventually weekly, specifically to catch leaks before they get too big.
Project Overview
Project Overview

A) Customer leaks are becoming an increasingly large problem within our service area as infrastructure ages. Avra Water Co-op, Inc. is a community owned, not-for-profit, water provider located in Avra Valley. We are located west of the Tucson Mountains, adjacent to the Saguaro National Park West. Our service area of 12.48 square miles is all located within unincorporated Pima County in the small community of Picture Rocks which lies within the Tucson AMA. All of our water is pumped from the ground from three wells within our service area. We feel that leaks are inevitable, but the sooner we catch them, the more groundwater we can save. Our goal is to help provide our customers with a more efficient means to catch these costly leaks.
B) We currently read meters once a month and are on a radio read system. We have older MXUs that require a stronger signal to pick up the meter data and therefore when our techs read, they must spend more time driving close to these locations in order to get reads. While we are fortunate that we can do that, it does require more time. If we could replace those older MXUs with new ones, we would have a stronger signal and that should cut our read time in half. This would enable us to get meter data more frequently, thereby catching increased usage for customers sooner and hopefully, cutting down on costly leaks for customers and conserving precious groundwater. For the past three years, we have had approximately 12,912,990 gallons of groundwater lost on the customers’ side of the meter. That is pretty significant for such a small service area and amount of connections.

<table>
<thead>
<tr>
<th>Year</th>
<th>Customer Water Loss From Leaks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>3,551,760 gallons/10.9 AF</td>
</tr>
<tr>
<td>2018</td>
<td>4,860,500 gallons/14.92 AF</td>
</tr>
<tr>
<td>2019</td>
<td>4,500,730 gallons/13.81 AF</td>
</tr>
<tr>
<td>Total</td>
<td><strong>12,912,990 gallons/39.63 AF Loss</strong></td>
</tr>
</tbody>
</table>

C) Where leaks in AWC’s infrastructure are much harder to estimate, our customer’s leaks are easier to detect because their water is metered and we can look at their average usage and get a really good estimate of the loss. When the MXU Replacement Project is initiated, we will start reading routes consistently every other week to begin with and monitor excess usage. This will be a benefit to all of our water users which currently consists of a population of about 6,700. We have leak information documented in spreadsheets for our customers for the last three years.

D) Although Avra Water Co-op is a small provider compared to the larger municipalities within the Tucson Active Management Area, we work hard to address water conservation with our customers at annual meetings, community events and the local school to increase awareness and keep our membership up to date on our state’s goal to conserve water and achieve safe yield. We pump approximately 811 acre feet of water a year and
have a customer loss of approximately 13 acre feet a year. We anticipate that could be cut in half when we initiate this program.

E) Any co-op member that has a leak already has the benefit of hearing from us when we run the meter read reports. When we run the reports more frequently, they will have a greater benefit in that the leak possibly will be caught weeks before it would have, increasing the savings on groundwater and wasted costs.

F) Once we can get the MXUs replaced and this project underway, AWC will continue to look for avenues to expand the program to include an AMI (Advanced Metering Infrastructure) system which would allow us to get reads directly from the MXU’s via two antennas within our service area that send the data directly to our main office. At that point, we could be aware of high usage immediately and it would contact AWCs and the customer. We would also be able to have meters put within our infrastructure that would immediately alert us of high/low pressures within our own infrastructure alerting us of a possible leak. That is a ways off, but certainly something we would love to achieve one day. Getting all of the new MXUs is a giant step in that direction.

G) It has been an ongoing goal of AWC to get all of our meters and MXUs replaced and upgraded. While we still have 800 single and double MXUs to upgrade (1,191 total) in order to speed up the radio read process, we also have about 35% of our 2,600 meters to upgrade in order to be able to have the technology to pull additional data for our customers like hourly usage to pinpoint what might be leaking such as a running toilet, irrigation, or hose that has been left on, etc.

H) We have not really had any duplication of work; we have been consistently working on replacing old MXUs and meters which has been beneficial as we are able to read via radio (AMR – Automatic Meter Reading) vs. walking routes to get reads which took much more time.

I) The project will remain effective and sustainable because as we continue to save time and money from staying ahead of these leaks, we will be able to expand the program and get to the point where we are on an AMI system that reads and detects in minutes.

J) Every utility is constantly looking for ways to conserve groundwater and to help its customers benefit from that in any way possible. AMR is not a new technology, but unfortunately, it is also not inexpensive and hard to budget into already financially
overburdened systems. When it comes to replacing mainlines or adding new MXUs, the main-lines win every time. That being said, we are all looking for ways to get this technology into our budgets and there are other systems who have put this in place throughout Arizona and are seeing very good results in their groundwater conservation efforts. We want to be one of those systems, and feel with patience and perseverance, we will get there.
Scope of Work
## Scope of Work

<table>
<thead>
<tr>
<th>Task</th>
<th>Title</th>
<th>Purpose</th>
<th>Responsible Personnel</th>
<th>Deliverable Description</th>
<th>Approximate Deliverable Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Purchase MXUs</td>
<td>To Replace old MXUs</td>
<td>Operations Manager</td>
<td>Get MXUs ordered</td>
<td>Upon Execution of Contract 8/1/2020</td>
</tr>
<tr>
<td>2</td>
<td>Install MXUs</td>
<td>Improve &amp; Speed up Radio Reads</td>
<td>Operations Team</td>
<td>Have system ready to start bi-weekly reading.</td>
<td>Once Order Received from Vendor 9/1/2020</td>
</tr>
<tr>
<td>3</td>
<td>Begin Bi-Weekly Reading</td>
<td>To Read Meters More Frequently</td>
<td>Operations Team</td>
<td>Get read information to customer service to review.</td>
<td>Once MXUs are Installed 10/1/2020</td>
</tr>
<tr>
<td></td>
<td>Review All Data for High Usage</td>
<td>To Catch Leaks and Make Customers Aware of Their Usage</td>
<td>Customer Service Team</td>
<td>Contact customers of high usage/possible leaks and get that corrected.</td>
<td>10/1/2020</td>
</tr>
</tbody>
</table>

The scope of work for this program is relatively easy and will be started as soon as the contract is signed and we are given the okay to start. Deliverable due dates are estimates based on the Application Timeline, but we would place the order and plan to install the new MXUs immediately. As soon as they were replaced by our operations personnel, we would start reading bi-weekly and customer service would review reports for high reads, notifying customers of high usage and/or leaks. We hope to increase groundwater conservation awareness if nothing else. If we make a call letting a customer know they had increased usage or an unusually high bill, they tend to be more conscientious of their usage and pocketbook.
Budget Breakdown
## APPENDIX 4:

**Budget Breakdown & Narrative**

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Budget Narrative
Avra Water Co-op, Inc.

MXU Replacement Project for Groundwater Conservation

Budget Narrative
FY2020
The MXU Replacement Project for Groundwater Conservation is a project that will help conserve groundwater by detecting customer leaks before they have the opportunity to run for a long period of time. Through this program, we will read customer meters more frequently in order to catch their high usage, thereby cutting leaks, hoses that were left on, and running toilets before they grow to large amounts of wasted groundwater. While we currently read meters once a month, if we update our MXUs to newer more efficient MXUs, we will be able to cut our reading time in half and start the program by reading bi-weekly and then as our team becomes more efficient, hopefully moving to weekly reads. This could also put us in a better position to expand the program to an AMI system where we could have signals send data directly to our office alerting us of high usage and possible leaks.

The cost to replace our old MXUs is $140,301. We are requesting $75,000 from the WMAP Grant.

**Additional Contribution Breakdown**

The total cost of the MXUs is $140,301. This covers 800 single and double port MXUs. The vendor will give a $20,481 prorated discount for each old MXU we replace, which brings the cost down to $119,820. Avra Water Co-op will contribute $44,820 toward the purchase price of the MXUs and is requesting $75,000 from the grant.

Task 1 is the only task that we propose the grant money awarded will apply to. With that we will purchase the 800 MXU’s. Avra Water operations technicians will be doing the installation of the new MXUs and once that is completed, we will have our techs collect the data by driving through our service area and then supplying our customer service representatives with the data to review and contact customers of any concerns.
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Supplemental Information:

Evidence of Physical and Legal Availability of Water
Evidence of Control and Tenure of Land
State Historic Preservation Office (SHPO) Review Form
Not Applicable to this project.
Application Checklist
Not Applicable to this project.