

**Improving Water Efficiency
For the Gardner Public Improvement District
governed by Huerfano County**

by Adding AMI and Telemetry/SCADA

Submitted by:
Huerfano County
Carl Young
401 Main Street, Suite 201
Walsenburg, CO 81089
719-738-3000 ext 110
Email: cyoung@huerfano.us

Table of Contents

| | |
|--|-----------|
| TECHNICAL PROPOSAL | 3 |
| <i>EXECUTIVE SUMMARY</i> | 3 |
| PROJECT LOCATION | 4 |
| <i>Figure 1. Area map for the Gardner Public Improvement District</i> | 5 |
| TECHNICAL PROJECT DESCRIPTION | 6 |
| EVALUATION CRITERIA | 8 |
| <i>Evaluation Criterion A—Project Benefits (35 points)</i> | 8 |
| <i>Evaluation Criterion B—Planning Efforts Supporting the Project (25 points)</i> | 13 |
| <i>Evaluation Criterion C—Implementation and Results (20 points)</i> | 15 |
| TABLE 1. – PLAN OF ACTION AND IMPLEMENTATION TABLE | 15 |
| <i>Evaluation Criterion D—Nexus to Reclamation (5 points)</i> | 16 |
| <i>Evaluation Criterion E—Presidential and Department of the Interior Priorities (15 points)</i> | 17 |
| BUDGET PROPOSAL | 19 |
| <i>FUNDING PLAN AND LETTERS OF FUNDING COMMITMENT</i> | 19 |
| TABLE 2. – SUMMARY OF NON-FEDERAL AND FEDERAL FUNDING SOURCES | 19 |
| TABLE 3. – TOTAL PROJECT COST TABLE | 19 |
| TABLE 4. – BUDGET | 20 |
| BUDGET NARRATIVE | 20 |
| ENVIRONMENTAL AND CULTURAL RESOURCES COMPLIANCE | 21 |
| REQUIRED PERMITS OR APPROVALS | 21 |
| OVERLAP OR DUPLICATION OF EFFORT STATEMENT | 21 |
| CONFLICT OF INTEREST DISCLOSURE | 22 |
| UNIFORM AUDIT REPORTING STATEMENT | 22 |
| CERTIFICATION REGARDING LOBBYING | 22 |
| LETTERS OF SUPPORT | 22 |
| OFFICIAL RESOLUTIONS | 22 |
| LETTERS OF FUNDING COMMITMENT (IF NOT ABOVE) | 22 |
| UNIQUE ENTITY IDENTIFIER | 22 |

Technical Proposal

Executive Summary

January 14, 2025
Huerfano County, Colorado
Category A Applicant

The Gardner Public Improvement District (GPID) is situated in Huerfano County, approximately 65 miles southwest of Pueblo, Colorado, along CO-69, about 22 miles west of I-25. Gardner is classified as a census-designated place (CDP). The GPID is governed by Huerfano County, and the Gardner CDP spans an area of 1,582 acres with a population of 206 residents.

In 2010, the residents of Gardner voted to establish a Public Improvement District for the water and wastewater operations, which resulted in governance by Huerfano County. Thus, the applicant is Huerfano County on behalf of GPID. Other aspects of the community such as the roads were already under the County since it is unincorporated. The region is primarily residential, featuring a few small businesses, a small school, and a community center.

This application to the Bureau of Reclamation is for Advanced Metering Infrastructure (AMI), telemetry, SCADA systems, and inline water meters. These technologies will enable the County to manage critical components of the water system remotely, including wells, tank levels, and meter readings. This implementation will enhance efficiency in water management, improve performance, promote sustainability, and ensure health and safety.

The project is expected to take approximately 90 days and is scheduled for completion by October 31, 2027. This project is not located on a federal facility.

Project Location

The Gardner Public Improvement District (GPID) is located in Huerfano County, along Colorado Highway 69 approximately 65 miles southwest of Pueblo and 27 miles northwest of Walsenburg, the county seat. The coordinates for Gardner are 37.7833° N, 105.1656° W.

G:\GARDNERS\M.2020-070100\Wastewater Study\Figure 1.dwg, 8.5x11, 1/13/2025 3:06:11 PM, jk, DWG To PDF.pc3, 1:1

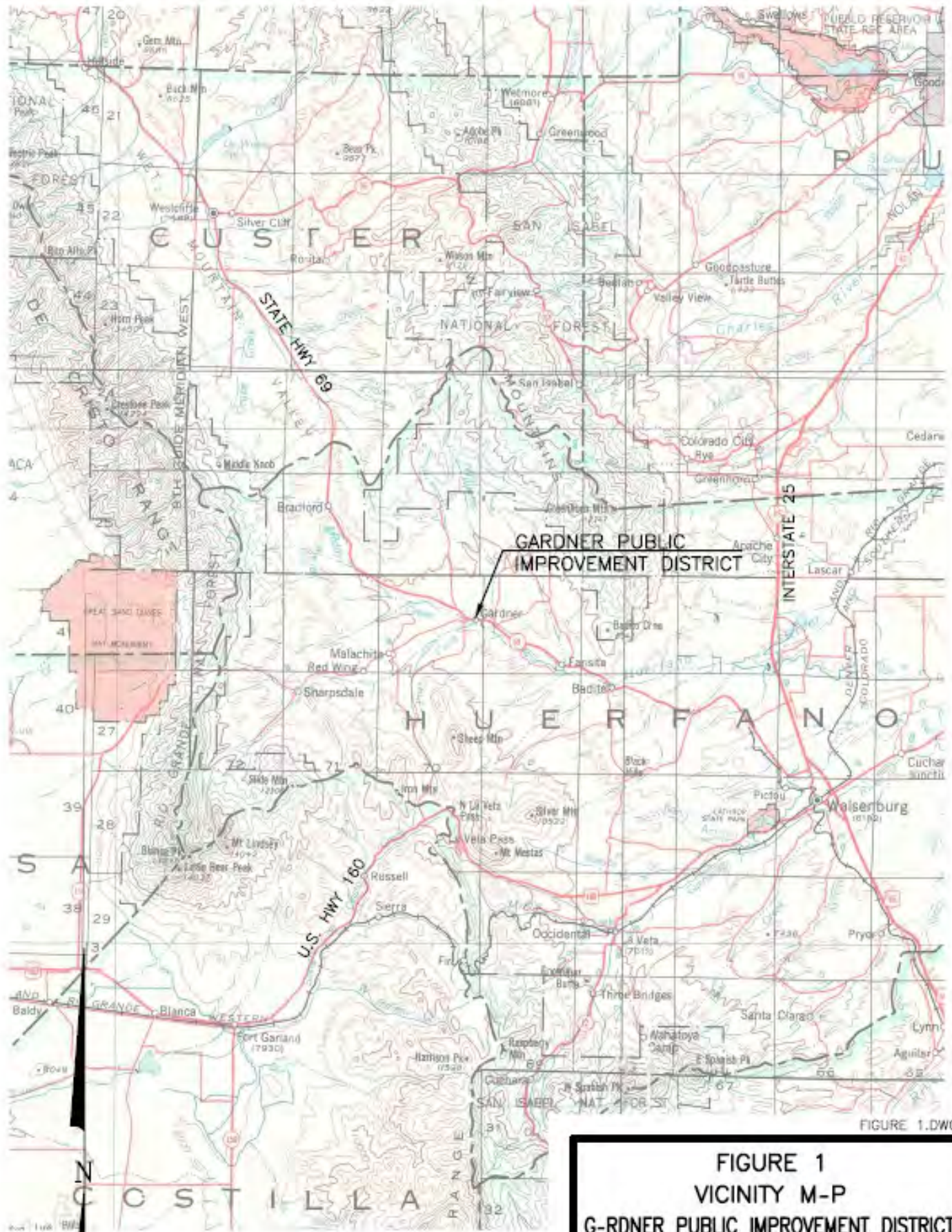


FIGURE 1.DWG

FIGURE 1
VICINITY M-P
G-RDNER PUBLIC IMPROVEMENT DISTRICT

GMS, INC.
 CONSULTING ENGINEERS
 611 N. WEBER, SUITE 300
 COLORADO SPRINGS, COLORADO 80903
 JANUARY 2025

SC-LE: 1" = 8miles (approximate)

SOURCE: USGS M-P OF COLOR-DO

Technical Project Description

Gardner is a CDP located in Huerfano County, Colorado, covering an area of 1,582 acres. With a small population of 206 residents, Gardner Public Improvement District (GPID) manages essential water and wastewater systems for the unincorporated area.

Walsenburg, the county seat of Huerfano County, is situated approximately 27 miles from Gardner. Public works employees based in Walsenburg oversee the GPID and its water distribution systems.

Although no recent Preliminary Engineering Report has been completed for the GPID's water system, GMS, Inc., a firm of consulting engineers, has been providing guidance and support regarding the water distribution system for many years, addressing the community's water management needs.

To ensure efficient monitoring and management of water usage, all customers in Gardner are required to have water meters installed at their locations, whether residential or commercial. The GPID has implemented a proactive approach to systematically replace aging meters, focusing on those that are five to ten years old to prevent a situation where all meters fail simultaneously. Most existing meters are around ten years old and do not require immediate replacement.

Currently, the meters in use are radio-read, which necessitates operators traveling from Walsenburg to Gardner—about a one-hour round trip—to gather usage data. Most existing meters, along with all newly installed meters, are compatible with Neptune's Advanced Metering Infrastructure (AMI) network. This advanced system will facilitate real-time monitoring of water usage, benefiting both the utility and its customers by providing timely data and enhancing overall service efficiency.

The GPID wells do not currently have telemetry or SCADA systems for remote operation. As a result, the wells may either fail to turn off (causing the water tank to overflow) or fail to turn on (leading to a water shortage). Both scenarios are undesirable; one leads to water wastage, while the other causes a supply shortage. When these issues arise, the operator is notified by local customers and must then drive to Gardner from Walsenburg (a 27-mile / 30-minute drive). To reduce these occurrences, installing well control telemetry is proposed to allow the GPID to control its wells remotely and monitor water tank levels. This will provide the ability to immediately respond to the need.

In consultation with GMS, Inc., the following priorities have been established for better management of the District's water distribution system:

- Install telemetry and SCADA systems at the wells to ensure proper operation and monitor tank levels. This will enable the County to remotely manage the system and prevent water waste. It will also allow for remote activation or deactivation of the well pumps, particularly during emergencies like fires that require constant water supply to the tank. It will also enable the operators to be notified of any problems in the system before a problem turns into an emergency.
- Implement AMI as part of the water meter system, allowing for real-time data on water usage from all customers. This will enable timely identification of leaks and breaks within 24 hours

instead of the current month-long process. The County can then notify customers of any issues without traveling to Gardner.

-Install two (2) 6-inch inline water meters, which will enable the District to be notified of any water line breaks within the distribution system.

For this Bureau of Reclamation grant, Huerfano County is seeking funding for telemetry and SCADA systems for the wells and water tank, AMI for the meters, and two inline water meters. The County will provide a matching contribution through local funds.

Mobilization for this project will take place in the yard adjacent to the wastewater treatment facility, an area that is already heavily disturbed, so no additional site preparation is required for the installation of telemetry. Mobilization and storage of materials are expected to be minimal given the project's nature. Installation will include:

- AMI Gateway Collectors, including ethernet, an outdoor UPS system, and an antenna for the metering system,
- A cellular telemetry unit at Well House 1,
- A cellular modem and antenna system at Well Site 2,
- An enclosure with a PLC and cell modem at the water tank,
- Security features, including alarms.
- Two inline water meters in critical locations in the distribution system

Once funding is secured and the Notice to Proceed is granted, the County will solicit bids for materials, equipment, and installation. The County does not have the manpower to implement this project independently. The project is expected to take approximately 90 days and will commence after October 31, 2025, with completion aimed for prior to October 31, 2027.

GMS, Inc. will assist the County throughout this endeavor, helping with overall project management and administrative requirements related to the funding being pursued. GMS, Inc. has successfully undertaken similar projects since 1978.

Evaluation Criterion A—Project Benefits (35 points)

1. Will the project result in more efficient management of the water supply?

Greater efficiency in water management will occur due to the following.

- *Water meters.* With the implementation of AMI, water usage data will be transmitted in real-time for each customer, ensuring precise tracking of consumption. This system will also identify anomalies and detect water leaks or breaks as they occur. Accurate metering will enable the GPID to monitor consumption patterns and notify customers of any spikes in usage, which may indicate larger issues, such as leaks. Even though the meters are equipped with this technology, it is not utilized since the AMI infrastructure is not in place.

Once the AMI system allows the communication between the meters and the operations in Walsenburg, then the water usage and billing will be known in real-time rather than monthly. The customers will also be able to view real-time usage which will encourage customers to conserve water and use it more efficiently to help reduce their bills. This initiative may be particularly important in this community, where the median household income is lower than average.

Aging radio-read water meters tend to underreport actual water usage. It is estimated that these meters are underreading by approximately 3% due to their age, which contributes to a reduction in accuracy as part of the equipment's life cycle. Factors such as corrosion or debris clogging the meter can also affect its accuracy. A study conducted by the Alameda County Water District in Fremont, California, found an annual decrease in meter accuracy of 0.30%. For meters that are around 10 years old, accuracy is estimated to be about 97%. Consequently, the remaining 3% of unmetered water is classified as non-revenue water, meaning customers are not billed for this usage. Since this is still fairly accurate, meters are not included in this project.

- *Telemetry, SCADA (Supervisory Control and Data Acquisition), and Inline Meters:* Telemetry and SCADA systems will significantly improve the management of the water system by providing real-time monitoring of critical parameters like water flow, pressure, and system operations, enabling GPID to detect issues early, optimize operations, and make informed decisions to maintain reliable water delivery while minimizing waste and costs, all through remote control and data analysis capabilities. This system will identify potential problems before they become major issues. This technology will improve management of the water system by doing the following:
 - Early leak detection: By continuously monitoring flow rates at a couple of points in the system through inline meters, GPID can quickly identify potential leaks and take corrective action before significant water loss occurs.
 - Optimized pump operations: Real-time data on tank levels and demand allows for efficient pump scheduling, reducing unnecessary energy consumption by only operating pumps when needed.

- Water quality monitoring: Sensors can monitor water quality parameters like pH, chlorine levels, and turbidity, allowing for immediate adjustments to treatment processes if necessary.
- Remote control and monitoring: Operators can access data and control equipment from a central location, minimizing the need for site visits and enabling faster response to issues, which is especially important given that there are no operators in the community.
- Improved efficiency: By analyzing data trends, operators can identify areas for system optimization, leading to improved water usage and reduced operational costs.
- Compliance assurance: Continuous monitoring helps ensure adherence to regulatory standards for water quality and system operation.

2. Where any conserved water as a result of the project will go and how it will be used?

Current water losses are believed to be seeping into the soil. There are likely undetected leaks on the customer side from fixtures that go unnoticed because meter anomalies cannot be read in real-time. Outside the home, losses may occur from leaking hose bibs or irrigation systems, which may contribute to groundwater contamination.

The water conserved through this project will flow into the Huerfano River, eventually reaching the Arkansas River. Improving efficiency at the GPID level will benefit downstream communities that rely on the Arkansas River. Furthermore, water conservation supports the state of Colorado through the Colorado Water Plan, which was adopted in 2023. This plan outlines actions to address water challenges in four key areas: vibrant communities, robust agriculture, thriving watersheds, and resilient planning.

3. Significance of anticipated water management benefits.

- *Are customers not currently getting their full water right at certain times of year?*
Huerfano County water is sourced from the Huerfano River. Like many communities in the region, Gardner faces challenges related to water scarcity and drought. Currently, GPID is receiving its full water rights throughout the year, but the future remains uncertain.

GPID is in the process of revising its Rules and Regulations. As part of this effort, GPID will implement stricter guidelines regarding who can hold a bulk water account. This is to prevent situations where an individual simultaneously uses water from their tap and also accesses bulk water. By tightening these regulations, GPID aims to ensure that water rights are not overallocated to any single user.

- *Does this project have the potential to prevent lawsuits or water calls?*
Due to the small scale of this project, it is unlikely to affect lawsuits or water calls. However, as detailed below, losing 3 acre-feet of water in August 2024 due to a break in the distribution system depleted the water in the storage tank, leaving the entire community without water for two days. Beyond the inconvenience, this situation poses a serious health and safety risk that could potentially lead to a lawsuit if it were to happen again. One of the customers is a local school that depends on the system's reliability. Without water, the school must close during the outage. The project could reduce the potential lawsuit from the school.

- *What are the consequences of not making the improvement?*
Failing to implement the necessary improvements will lead to several consequences. First, inefficiencies in managing the system from Walsenburg will persist, such as the need to drive 30 minutes each way for monthly meter readings instead of using real-time data through AMI. There will continue to be unaccounted-for water due to leaks and breaks in the system, and identifying these issues may take up to the 30-day billing cycle. Additionally, the lack of remote control over the wells increases the risk of problems, such as excessive or insufficient water levels in the storage tank. Lastly, as previously mentioned, the potential liability risks will continue to rise.
- *Are customer water restrictions currently required?*
There are no water restrictions in place. However, many houses in the vicinity do not have access to a water system and are unable to drill a well; therefore, GPID sells bulk water to over 108 customers. A review of the regulations is underway to ensure there is no overallocation of the water; if there is overuse of the water allocation, water restrictions may be implemented in the future.
- *Other significant concerns that support the need for the project.*
In August 2024, a significant incident occurred when a water line broke, causing the local water tank to empty and resulting in a loss of three acre-feet of water. This situation was worsened by the lack of SCADA systems on the pressure sensors, which prevented an alarm notification from being sent to the GPID operator. The operator was made aware of the problem after the tank was already drained. Additionally, the water from the break was drained through the subsurface soils which made it challenging to identify the leak since there was no evidence of the leak at the surface. This led to a delay of two full days before the break could be identified and repaired.

During this time, the entire community of Gardner was without water, creating a major health and safety issue. Essential services, such as the local elementary school and fire department, were forced to close, and access was restricted to the road and bridge shop. Local dining establishments and various businesses also had to suspend their operations, resulting in significant disruptions and loss of revenue.

This failure of the water distribution system was not just an inconvenience; it posed a serious risk to the health and safety of the Gardner community. The incident underscores the urgent need for robust infrastructure monitoring and emergency response systems to prevent similar occurrences in the future.

Broader Benefits

Adding AMI to the customer metering system offers significant benefits in terms of efficiency and sustainability. By incorporating telemetry and SCADA at the wells and water tank, the GPID can quickly identify anomalies related to tank levels, preventing both overflows and complete depletion from a remote location. This capability helps to reduce water waste and enhances sustainability efforts.

Given that Colorado frequently experiences drought conditions, the ability to detect leaks and breaks in the water supply allows for faster repairs, minimizes waste, and alleviates water scarcity. This project aims to prevent catastrophic leaks, such as the one that occurred in August 2024.

1. Will the proposed project increase collaboration and information sharing among water managers in the region? Please explain.

The Huerfano River flows from a source on Blanca Peak in the Sangre de Cristo Mountains of Colorado and joins the Arkansas River in Pueblo County. Along its 113-mile length, the river has many users including ranchers, recreators, and several water districts including GPID, St. Charles Mesa Water District, and the downstream communities along the Arkansas River. This river also impacts the storage requirements for John Martin Reservoir, which can affect both the Cucharas and Huerfano Rivers.

The GPID is governed by Huerfano County, which is aware and manages many of the more extensive regional needs and works closely and collaborates with the Huerfano County Water Conservancy District (HCWCD) as it relates to water resource management in the region. HCWCD provides augmentation water for GPID, thus, is a key partner in this project. The County facilitates these regional issues on behalf of the GPID.

Collaboration and information sharing across the region continues to be vital for the rural communities that depend on this water resource. The recent incident resulted in a loss of 3 acre-feet of water, impacting all beneficiaries within the Arkansas Basin. By preventing unnecessary water loss in the Gardner service area, more water will be made available for the Arkansas Basin and the limited water supply will be optimized for years to come.

2. 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- or basin scale? Please explain.

The Huerfano River and the larger Arkansas Basin are currently facing a drought, with recent years showing notably low water levels. This situation is due to extremely low snowpack, minimal rainfall, and severe drought conditions, all of which have significantly impacted the communities that depend on the river for their water supply. The decreased water levels directly affect water availability and storage during dry periods. Recent droughts in the area have been comparable to those experienced in 2002 and 2007. This project aims to enhance water conservation, ultimately improving water supply and availability for the Arkansas Basin.

3. 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.

In 2014, Colorado State University conducted an important study titled "Survey for Critical Wetland Resources in Huerfano County." (https://cnhp.colostate.edu/wp-content/uploads/download/documents/2017/final_huerfano_report.pdf) The project's primary goal was to create a comprehensive scientific resource that would assist land managers, county planners, and the residents of Huerfano County in making informed decisions for proactive

landscape planning. This planning aims to preserve the rich biodiversity found in the county's wetland and riparian areas.

The study's findings underscored the critical role that wetlands play in Huerfano County. Although wetlands comprise less than 3% of the total landscape, they are vital for supporting wildlife and agriculture and harboring several rare plant and animal species.

The Colorado Natural Heritage Program (CNHP) identified two unique wetland types within the area:

1. Fens: These are specialized peat-accumulating wetlands that have developed over thousands of years. They are characterized by a rich diversity of flora and fauna.
2. Playas: These ephemeral wetlands are temporary bodies of water that play a key role in providing habitat for migratory birds and other wildlife, as well as benefiting humans through agricultural and recreational opportunities.

Throughout Huerfano County, the study documented four rare or imperiled species and 11 wetland plant communities that are currently of concern. While the project area does not have any known federally threatened or endangered species, the research emphasized that enhancing water conservation efforts in the Gardner Public Improvement District service area is essential. Such efforts are crucial not only for the protection of species within the local ecosystem but also for safeguarding the health of communities downstream along the Huerfano River.

Among the threatened species identified in the region, certain plants and animals rely on these wetland ecosystems, making their preservation a vital aspect of regional biodiversity and environmental sustainability.

- Pronghorn
- Mule Deer
- American Black Bear
- Scarlet Hedgehog Cactus
- Scarlet Gilia
- Tree Cholla
- Showy Milkweed
- Black-billed Magpie

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

The proposed project represents a crucial investment in the future of the local community, benefiting not only local businesses but also the unincorporated area of Gardner. Additionally, it aims to enhance recreation and tourism opportunities by providing reliable infrastructure.

Consider the significant impact of a single incident that resulted in the loss of just 3 acre-feet of water; it highlights the urgent need for rapid detection of leaks and breaks within the water system. This incident forced restaurants, small businesses, and essential services—such as the elementary

school, fire station, and road and bridge shop—to close, disrupting livelihoods and posing a threat to public safety.

By securing funding for this project, the GPID can take a significant step toward preventing such detrimental occurrences in the future. Investing in this initiative will help protect the community's resources, ensure the uninterrupted operation of local establishments, and maintain the trust and safety of residents.

5. 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.

There are currently no NRCS projects being conducted in the service area of the GPID. Huerfano County, however, is part of NRCS' Southern Front Range project to decrease vegetation densities and fuel loading on public and private lands, thereby reducing the potential for large, crown dominated fire and improving forest health.

According to Sammie Molinaro, NRCS District Conservationist in Trinidad, Colorado, this project has minimal impact on NRCS work since this project is not an irrigation project. However, conserved water in Gardner, allows for more of the water resource to be available for crops, pastures, and trees further along the Arkansas Basin.

Evaluation Criterion B—Planning Efforts Supporting the Project (25 points)

Plan Description & Objectives

Huerfano County has not recently conducted a Preliminary Engineering Report (PER) for the GPID water distribution system. However, the County Commissioners agree that the proposed improvements are necessary and have been included within this project in the budget. The primary goal of the project is to reduce water loss by enhancing water efficiency and sustainability. Specifically, it aims to utilize technology for real-time data access and control of the water system and to gather data for customer billing.

The GPID aligns with the Colorado Water Plan (CWP) (https://dnrweblink.state.co.us/CWCB/0/edoc/225396/Colorado_WaterPlan_2023_WCAG.pdf), a state-level initiative designed to ensure the long-term sustainability of water resources. Being part of the Arkansas Basin, the GIPD adheres to the goals set by the Arkansas Basin Roundtable, which focus on various aspects including storage, municipal and industrial needs, agriculture, watershed health, environmental protection, and recreation. The CWP also directly influenced the GPID's decision to implement technology intended to reduce water loss, as stated in Agency Action item 1.3: "Drive enhanced water loss tracking to help address future water needs."

The Huerfano County Water Conservancy District (HCWCD) was established in 2008 to address the water crisis in the upper Huerfano River valley. Well and spring users who were diverting under junior water rights – or under no water rights at all – were facing shutdown by water administration officials. As a result, in January of that year, the Division Engineer met with the Huerfano County Water Conservancy District board. Although loath to curtail wells, including for example those serving the Gardner School, he had no choice under Colorado law. He suggested,

however, that the District could solve the problem by establishing a regional plan under which augmentation water could be made available to compensate for out-of-priority depletions caused by well pumping and other water uses.

Because the HCWCD owned no water rights with which to operate an augmentation plan, the District initiated a series of annual Substitute Water Supply Plans based on water rights it borrowed or leased. In turn, the HCWCD entered into annual leases of augmentation water to the imperiled water users. Those leases kept participating wells pumping, including those of the Gardner Water & Sanitation District (which later became the Gardner Public Improvement District), CO61 Water Association, and Paradise Acres Homeowners Association. HCWCD has developed a permanent, court-decreed augmentation program.

This project with the Bureau of Reclamation will provide GPID and the HCWCD with the technology necessary to reduce water loss and improve their ability to manage and control water use within the distribution system. This will directly influence water users in the HCWD and beyond.

Plan Development

Huerfano County, in partnership with GMS, Inc., is working to enhance the Gardner Public Improvement District's water distribution system. GMS, Inc. has identified weaknesses in the current water system and reported these findings to the Huerfano County Commissioners, who fully support the initiative. To further demonstrate their commitment, the County Commissioners have allocated local funds to meet the match requirements.

Support for the Project

- *Is the project identified specifically in the planning effort?*
 - The County and GMS, Inc. have agreed to improve the customer metering system by adding Advanced Metering Infrastructure (AMI), incorporate telemetry/SCADA systems for the wells and the water tank, and install inline meters to identify system pressure. Matching funds for this project have been included in the budget, demonstrating support for this project.
 - Additionally, the CWP Water Loss Initiative highlights that “water loss continues to account for a significant portion of municipal water use in the state. As infrastructure ages, real losses (such as leaks) and apparent losses (like meter inaccuracies and data handling errors) increase, resulting in the loss of valuable water resources and revenue. Minimizing water loss through comprehensive control and management is essential for maintaining the fiscal health, operational efficiency, and sustainability of water utilities statewide.” This project directly aligns with agency action item 1.3.
- *Is this type of project identified in the planning effort?* Yes, this project is identified in the planning effort and in the County budget. As stated above, it also falls into water efficiency and conservation and data collection and sharing through the CWP.
- *Explain whether the proposed project implements a goal, objective, or addresses a need or problem identified in the existing planning effort.*
 - Adding the above-mentioned items will address the problem of having no real-time data to manage the system if there is a customer water leak or break, power outage, and ability to control the well and tank remotely.

- Adding this technology falls under the CWP, as stated above.
- *Explain how the proposed project has been determined as a priority in the existing planning effort as opposed to other potential projects/measures.* GMS, Inc., in cooperation with the County, has identified areas for improvement in the District’s water distribution system. Huerfano County Commissioners are in full support of the improvement plan and this project, as the GPID cannot afford financially or through its water resources to have another system break that requires days of effort to solve. Additionally, the Huerfano County Water Conservancy District, which provides augmentation water for the GPID, is an interested stakeholder in the project. The only other identified project to address deficiencies is the replacement of distribution system valves but this is outside the eligibility of this grant; therefore, it is not included.

Evaluation Criterion C—Implementation and Results (20 points)

The County will request bids for equipment, materials, and installation since it does not have the capacity to perform the work itself. The following describes the nature of the work performed to implement and complete the project.

- No design and engineering will be required for this project.
- The County will solicit bids for the AMI, the telemetry/SCADA, and the inline valves with installation. Upon receipt of the Notice to Proceed from the Bureau of Reclamation, this process will take approximately one month.
- The County will advertise for the bid as required by local, state, and federal guidelines.
- No permits are required for this project.
- All other federal guidelines for construction projects will be followed.
- It is estimated that this project will be completed within 90 days of contract execution with the contractor to add the technology components. The work will begin after October 31, 2025, and will be completed by October 31, 2027.

Table 1. – Plan of Action and Implementation Table

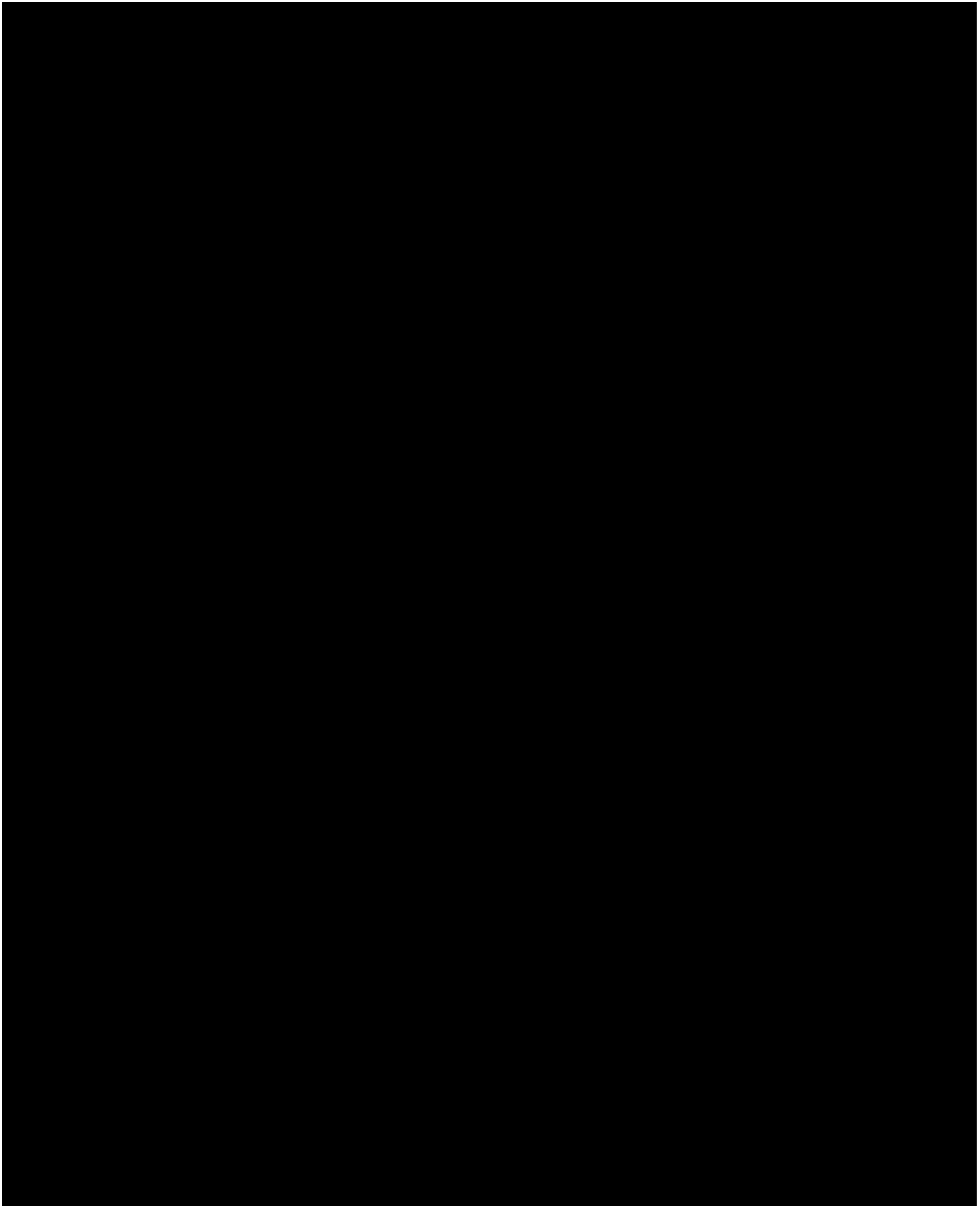
| SCHEDULED EVENT | DATE |
|---|------------------|
| Submission of USBR-WaterSMART Small-Scale Water Efficiency Program (SWEP) Grant application | January 2024 |
| Received notice of non-selection for USBR-WaterSMART SWEP Grant application | June 2024 |
| Review of SWEP grant application with USBR staff | June 2024 |
| Resubmit of USBR-WaterSMART SWEP Grant application | January 2025 |
| Receive Notice of Award from USBR WaterSMART SWEP | May 2025 |
| Complete all necessary paperwork for the award of the USBR SWEP Verify the scope of the project, complete USBR Environmental Review process that would be in additional from the already approved process. | June-August 2025 |

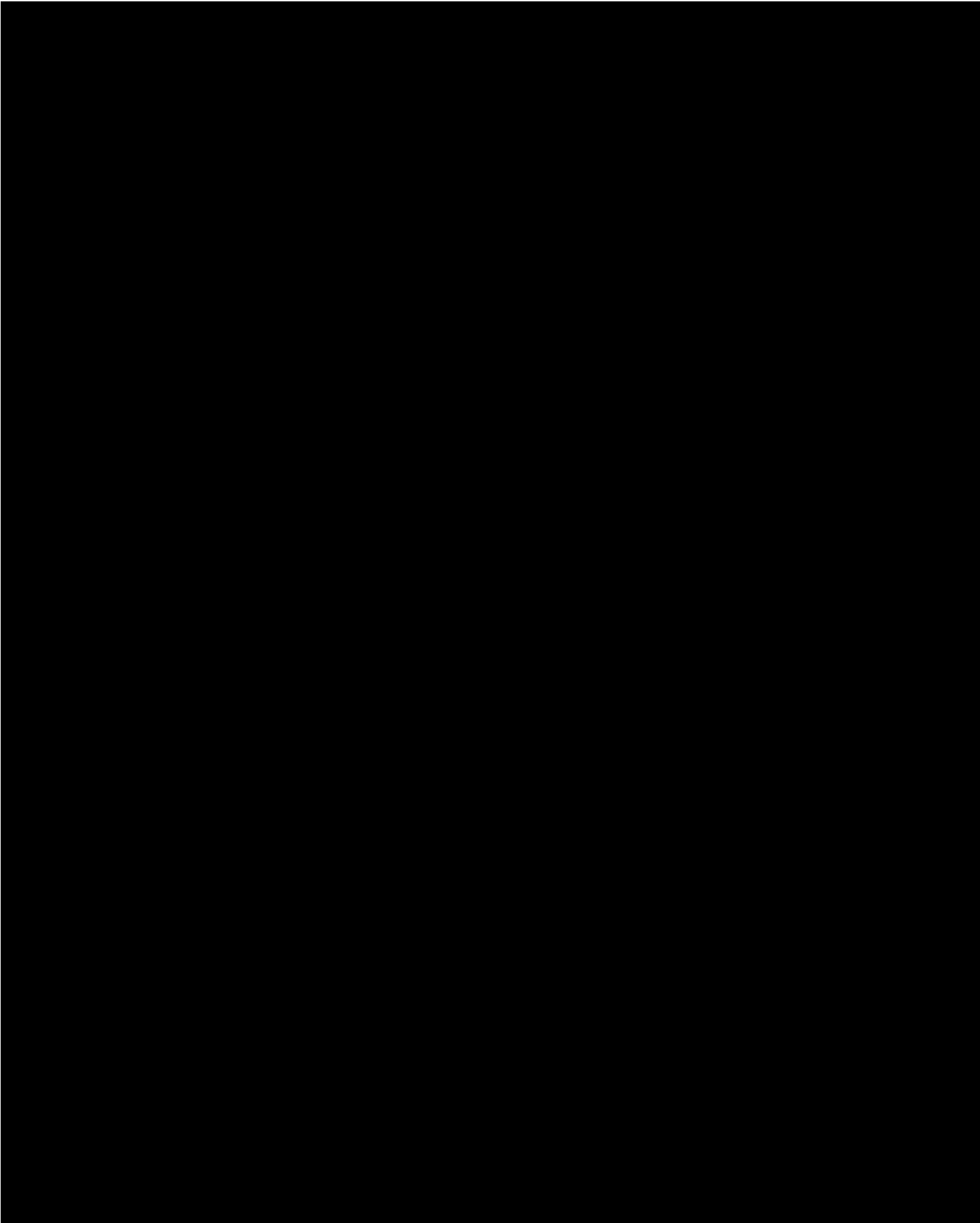
| | |
|---|---------------|
| Award of funding All contracts and loans are executed to allow the project to be bid. | October 2025 |
| Advertise project for bid Once all funding is in place, which includes the cost share funds the project will go to bid. The SRF requires that the bid advertisement is for a minimum of 30 days. | November 2025 |
| Bid opening The bid opening will be scheduled at least 30 days from the first advertisement date. | December 2025 |
| Project award The project award will occur at the County Commissioner meeting after the bid opening (usually within a week of the bid opening) | December 2025 |
| Initiate construction/installation The project will proceed to construction after award and all contract documents are in place. | February 2026 |
| Completion of construction The entire project scope is anticipated to be constructed within a 1 (one) month time period; an additional couple months have been included to account for material delays | May 2026 |

Evaluation Criterion D—Nexus to Reclamation (5 points)

The addition of AMI, telemetry, SCADA, and inline water meters to the GPID system will significantly reduce water loss because it will allow the utility to quickly identify leaks and make appropriate repairs. This reduction in loss of water will benefit the larger Arkansas Basin by increasing the amount of water made available to those downstream. Using technology to track and prevent water loss is part of the Colorado Water Plan agency action and the Colorado Water Loss Initiative. These larger measures are promoted through the Department of Interior and its Bureau of Reclamation under the Biden-Harris Administration.

The Arkansas Valley Conduit (AVC) significantly impacts water in southeastern Colorado by providing a reliable source of clean drinking water to communities that previously relied on groundwater often contaminated with naturally occurring radionuclides like radium and uranium. The AVC essentially improves water quality for residents in the area by delivering filtered water from Pueblo Reservoir through a 130-mile pipeline system. This helps address health concerns related to poor water quality in the region. The GPID is part of the Arkansas Basin, which is in the Arkansas River basin with the AVC participants.





Budget Proposal

Funding Plan and Letters of Funding Commitment

The total project budget for this project is \$107,000. This proposal request is for \$53,500 from the Bureau of Reclamation. The County, through the GPID, will provide the matching \$53,500.

Table 2. – Summary of Non-Federal and Federal Funding Sources

| FUNDING SOURCES | AMOUNT |
|----------------------------|----------|
| Non-Federal Entities | |
| Local Match | \$53,500 |
| Non-Federal Subtotal | \$53,500 |
| REQUESTED RECLAMATION FUND | \$53,500 |

Table 3. – Total Project Cost Table

| SOURCE | AMOUNT |
|---|-----------|
| Costs to be reimbursed with requested Federal funding | \$53,500 |
| Costs to be paid by the applicant | \$53,500 |
| Value of third-party contributions | |
| TOTAL PROJECT COST | \$107,000 |

Table 4. – Budget

| ITEM | DESCRIPTION | QUANTITY | | UNIT COST | TOTAL COST |
|---|---|----------|----|-----------|------------|
| A. AMI Gateway Collectors | | | | | |
| 1 | V4 Ethernet | 1 | EA | \$10,615 | \$10,615 |
| 2 | Outdoor UPS System | 1 | EA | \$2,515 | \$2,515 |
| 3 | Antenna | 1 | EA | \$444 | \$444 |
| 4 | Startup and Training | 1 | LS | \$5,000 | \$5,000 |
| 5 | Installation of AMI System | 1 | LS | \$8,000 | \$8,000 |
| Subtotal: | | | | | \$26,574 |
| B. 3 Telemetry Site to Monitor Water in Well Houses and Tank | | | | | |
| 1 | Cellular Telemetry unit at Well House 1 | 1 | EA | \$19,811 | \$23,924 |
| 2 | AB micro 850 with cellular modem and antenna system at Well Site 2 | 1 | EA | \$11,700 | \$12,042 |
| 3 | Nema 3R painted enclosure with Micro 850 PLC and cell modem at Tank | 1 | EA | \$22,613 | \$25,044 |
| 4 | Security items including alarms | 1 | EA | \$2,327 | \$2,773 |
| Subtotal: | | | | | \$63,783 |
| C. Inline Meters | | | | | |
| 1 | 1P2F (30B) IOT Critical Point | 2 | EA | \$1,459 | \$2,918 |
| 2 | AMKT1418 1 P Coiled Hose | 2 | EA | \$43 | \$86 |
| 3 | AMKT0801 Mounting Bracket | 2 | EA | \$47 | \$93 |
| 4 | AMKT0019 High Gain Antenna | 2 | EA | \$129 | \$258 |
| 5 | AMTK1012 Configurator Cable to connect laptop | 1 | EA | \$46 | \$46 |
| 6 | SeENTRYX1-60 Pressure Monitoring Device | 2 | EA | \$743 | \$1,486 |
| 7 | Installation of inline water meters | 2 | LS | \$800 | \$1,600 |
| Subtotal: | | | | | \$6,486 |
| Construction Subtotal: | | | | | \$96,843 |
| Contingencies 10% | | | | | \$10,156 |
| Grand Total | | | | | \$107,000 |

Budget Narrative

The County has received quotes from equipment suppliers for the necessary equipment and are included in Appendix B. The County will bid the project as required and needed for a successful installation. The County/GPID does not have the capacity to perform the work on its own.

- A 10% contingency is included in the budget proposal due to the increasing costs of goods and services at this time and to ensure there is an adequate budget for installation.
- No design and engineering are required for this project.
- No permits are required for this project.
- Davis-Bacon wages will be utilized.

- It is estimated that this project will be completed within 90 days of contract with the construction contractor. The work will begin after October 31, 2025 and will be completed by October 31, 2027.

Following information demonstrates possible details to be requested in the bid for materials and installation:

- At Well House 1 (aka Well A): Supply and install a fully fabricated cellular telemetry unit receive the remote site data and instigate well-run commands. This telemetry enclosure will also house a Red Lion RC30007” operator display that will provide touchscreen control for the two wells, monitoring of tank level, text message alarming, a webhost for remote login/control, and a datalogger. A second cellular modem will provide access to the internet for the alarming and login, and a UPS will supply emergency power to the Red Lion and cell modems during power outages.
- At Well site 2 (aka PCPA3): Install a small controller inside the existing pump control panel. Provide a cellular modem and antenna system.
- At the tank: Provide Nema 3R painted enclosure with a PLC and cell modem. Insulation against the cold. Labor includes time to erect rohn tower and install mimo antenna on tower.
- Security items: Provide a freeze alarm, intrusion alarm, and flood alarm for the two well sites. Add a power failure relay for Well house 1.
- Furnish and install new Neptune Gateway V4 Ethernet
- Furnish and install outdoor rated UPS system
- Furnish and install Neptune R900 Gateway RF Antenna
- Furnish two (2) 6-inch inline water meters and associated appurtenances

Environmental and Cultural Resources Compliance

The project will be fully within existing disturbed areas, which would most likely classify the project as a Categorical Exclusion (CE) to NEPA, as there will be no new ground disturbance related to this project. If awarded this grant for this sub-project, the County recognizes that Reclamation will complete its own environmental review process and determine the required compliance with NEPA.

It is also recognized that Reclamation will consider whether the project will affect historic properties. In previous water projects of similar scope, SHPO determined there would be no adverse effect. As with the NEPA review, the County recognizes that Reclamation may require another Section 106 review.

Required Permits or Approvals

No permits or approvals are required for this project.

Overlap or Duplication of Effort Statement

At the time of submission, there are no potential conflicts of interest.

Conflict of Interest Disclosure

Per the Financial Assistance Interior Regulation (FAIR), 2 CFR §1402.112, the County does not have any known conflicts of interest. If during the award process a conflict arises, the County will inform Reclamation.

Uniform Audit Reporting Statement

The County recognizes that any organizations expending \$1,000,000 in U.S. Federal award funds within one year will require a Single Audit report. After the project is complete, the County will determine if a Single Project Audit is required and will complete if necessary.

Certification Regarding Lobbying

This request for funding is less than \$100,000 in Federal funding. No Certification Regarding Lobbying is required.

Letters of Support

Please see Appendix A.

Official Resolutions

The official resolution will be submitted under separate cover within 30 days.

Letters of Funding Commitment (if not above)

No letters of funding commitment are needed for the project. The County will be providing the matching funds for this project.

Unique Entity Identifier

Huerfano County UEI: DL84BCKRKZC7

APPENDIX A – LETTERS OF SUPPORT



U.S. Bureau of Reclamation
Water Resources and Planning Office
Mail Code: 86-6300
PO Box 25007
Denver, CO 80225

Dear Ms. Robin Graber:

RE: Bureau of Reclamation for Advanced Metering Infrastructure Grant Application

I am writing on behalf of our nonprofit, Huerfano Community Corporation, located in Gardner, Colorado, to express our support for the water improvement and efficiency project proposed by Huerfano County for the Gardner Public Improvement District (GPID). The GPID serves our small rural residential area, encompassing a few small businesses, a school, and a community center. Improved water management is crucial as our community expands to include a new co-op of community services – groceries, cafe and fuel – as well as a revived community health center and affordable housing.

This proposed system will enable remote operation of critical components, including wells, tank levels, and meter reading. It not only streamlines operations but also contributes significantly to the health and safety of our community members.

We fully endorse and support the funding application. About 50 families support any and all needs of the GPID; any financial assistance we receive is welcomed and appreciated. We look forward to witnessing the positive impact this project would have on the water infrastructure of Gardner and, by extension, our larger Huerfano County community.

Sincerely,

Vashti Thomas-Wachterman
Board Chair, Huerfano Community Corporation
www.huerfanocommunitycorporation.org



PO Box 442 La Veta, CO 81055 hewcd.net
(719)742-5581 hewcdistrict@gmail.com

January 13, 2025

U.S. Bureau of Reclamation
Water Resources and Planning Office
Mail Code: 86-6300
PO Box 25007
Denver, CO 80225

Dear Ms. Robin Graber:

This letter of support is for the Huerfano County, Gardner Public Improvement District (GPID) application to the WaterSMART Small-Scale Water Efficiency Project Grant. The County is seeking to make improvements that will help identify and fix leaks early to minimize wasted water. The Huerfano County Water Conservancy District provides augmentation water for GPID and is an interested stakeholder in this project.

We have worked with Huerfano County over the years to improve the GPID water system; however, due to the limited resources available, the County needs assistance to make important upgrades and preserve scarce water resources.

Thank you for considering this project for funding through the WaterSMART Small-Scale Water Efficiency Project Grant. We are confident that Huerfano County will utilize the funds well and the project will benefit all residents of Gardner by lowering operational costs and enabling the community to be water wise.

Kind Regards,

A handwritten signature in blue ink that reads "Carol S. Dunn".

Carol S. Dunn
Administrator

APPENDIX B – EQUIPMENT QUOTES



Date: 1/8/2025
Gardner Water (Huerfano)
RE: TLECC Quotation J6348
REF: 3 telemetry sites

Dear Chris,

We are pleased to provide this quotation for your review.

1. All quotations issued, and orders received by **TLECC** are subject to final acceptance by our principal.
2. Shipping dates are based on the best information obtainable from suppliers **AT THE TIME OF QUOTATION.**
3. Quote is valid for 30 days from quote date.

Again, thank you for your inquiry. If we can be of further assistance, please do not hesitate to contact our office.

Sincerely,
Kim Evezich
kim@tlecc.net
303-588-0338 Cell

Scope of work: The following quote is for three telemetry site to monitor water in well houses and tank.

Pros for Xetawave I/O radios: for the Well 2 and tank sites there is less hardware and slightly less power draw. The Xetawave I/O radios are produced in Louisville CO and we have had good luck with the products. There is NO monthly fee for the three radios.

Notes for Xetawave: These I/O radios do not allow for complex control commands or any independent intelligence at the local sites. All "decisions" would be made at the Well House 1 PLC. This concern is mostly for future-system growth as the current control commands of the system are very simple.

Notes:

1. We have not provided a firewall for the internet-facing cell modem. If your IT department does not feel comfortable supplying this, we can add one. IT will provide white-listing services only, not constant threat updates. Approximate cost is around \$1600 and will need to be updated about every 3 years.
2. Batteries on the solar site will need to be replaced every 4 years. The rest of the telemetry components should have a 12-20 year life span.
3. We may need some assistance from the District's staff to erect the tower at the tank.



4. Pricing on this quote should be good until June 30th 2024, and we reserve the right to re-quote any time after that.
5. If budgeting for future years, please allow at least 8% per year for inflation.
6. Well I/O:
 - a. Well pump status (running)
 - b. Well pump in Auto
 - c. Chemical pump running
 - d. AC power failure relay for Well 1
 - e. Well pump control (on/off) for both wells
7. Tank I/O
 - a. Tank level
 - b. Battery voltage (if desired)

Xetawave solution:

| | |
|---|--------------------|
| <p>Security items: Provide a freeze alarm, intrusion alarm, and flood alarm for the two well sites. Add a power failure relay for Well house 1. 6 hours of installation labor is included. Sometimes adding security features to telemetry systems can qualify the district for homeland security grants to pay for the telemetry.</p> | <p>\$2,773.00</p> |
| <p>At Well House 1 (aka Well A): Supply and install a fully fabricated telemetry unit consisting of: Allen Bradley Micro 850 PLC with Xetawave radio to receive the remote site data and instigate well-run commands. This telemetry enclosure will also house a Red Lion RC30007" operator display that will provide touchscreen control for the two wells, monitoring of tank level, text message alarming, a webhost for remote login/control, and a datalogger. One cellular modem will provide access to the internet for the alarming and login, and a UPS will supply emergency power to the Red Lion and cell modems during power outages. We provide complete documentation and AutoCAD prints. <i>Gardner will need to provide the ATT sim chip for the cell modem as well as the monthly service.</i></p> | <p>\$23,924.00</p> |
| <p>At Well site 2 (aka PCPA3) we will install a Xetawave UHF I/O radio inside the existing pump control panel, and install a UHF antenna system. Please see below for Well I/O. We have not provided a UPS for this location with the assumption that if the power is off to the well, no control is needed.</p> | <p>\$12,042.00</p> |
| <p>At the tank: Provide Nema 3R painted enclosure with a Xetawave UHF I/O radio. The solar system will consist of a 20' Rohn Mast, two 120watt 24VDC solar panel and two 100Ah batteries with charge controller. Please see notes. Labor includes time to erect Rohn tower and install UHF antenna on tower.</p> | <p>\$25,044.00</p> |



| | |
|---------------------------|-------------|
| Total with all options: * | \$63,783.00 |
|---------------------------|-------------|

*Before totaling budget please make sure you note the firewall option on Notes 1.



Temporary Terms and Conditions for Y2022:

Project schedule may be affected by COVID restrictions for travel and workplace safety, The Covid 19 pandemic, the war in Ukraine, and the suddenly-high price of petroleum products (and the related surge in hiring qualified technicians by the oil and gas industry), are all impacting our ability to obtain parts and hire staff. These circumstances are also increasing our freight expense, shipping times, as well as the base price of goods. Delivery times are best estimates, and may change, (possibly several times).

Our pricing is highly dependent on rare metals used in electronics, carbon steel and stainless steel, hourly labor rates, and travel expense. All of these supply costs are increasing rapidly. Our quotes have a thirty-day expiration. We will try to hold prices for up to 90 days, but reserve the right to change our pricing if our costs have increased by more than 5% by the time we receive authorization from customers to proceed with a project. If a cost estimate is being used as a basis for obtaining future grants, please add 25% per year to your funding requests. Hopefully this temporary situation will resolve in the next 6 months and we will have a better understanding of future costs. Our hourly labor rates have recently changed. Please call us if you would like a copy of our rate sheet.

Timber Line Electric and Control Corp. Terms and Conditions of Sale

This quote is valid for 30 days, and is subject to change after that time frame. All quotations issued, and orders received by TLECC are subject to final acceptance by our principal or authorized representative.

Part numbers and shipping dates are based on the best information available at the time of quote and may change. Part numbers change frequently for items such as computers.

Shipping terms: Shipment times are based upon receipt of a written purchase order or contract and signed approval drawings. Unless otherwise noted, all materials are quoted Free On Board point of origin. TLECC's responsibility for loss ceases upon delivery to the carrier. Claims for loss or damage in transit must be made by Buyer against the carrier. If TLECC is delivering to job site, field off loading has not been included in pricing. Additional charges may be assessed for offloading. Buyer, general contractor, or owner shall be responsible for proper storage and handling following shipment.

TLECC's standard terms are Net 30 days with 1% per month late payment charges. These terms apply to materials and service work. Contract job terms are Net 30 days on a work-in-process basis. TLECC reserves the right to change these terms at any time, and has the right to modify the terms for individual customers. All sales are subject to acceptable credit rating of buyer. Any alteration to the terms stated on a TLECC quote will be considered a counter offer and is subject to acceptance in writing by a TLECC authorized representative. Unless clearly stated otherwise, no retainages will be allowed, or payment withheld pending third party payment. In the event of nonpayment, buyer will be subject to finance charges, collection costs and attorney's fees.

Sales, use and excise tax may be required by law. If buyer is tax exempt, buyer shall provide adequate documentation to TLECC. **If buyer is NOT tax exempt, Buyer is responsible for sales and use tax which will be charged on the materials of the job. Please request a sales tax estimate.**

Any order cancelled after 3 days of acceptance by TLECC may be subject to the cost of special materials, non-resellable goods and completed labor. In any event, TLECC reserves the right to charge the buyer for any and all expenses or labor incurred in connection with a purchase order. TLECC does not offer refunds on customized equipment.

In the event TLECC is unable to ship or deliver parts or perform services pursuant to any purchase order or other contract entered or accepted by TLECC due to a "Force Majeure" such as an act of God, strike, lockout or other industrial disturbance, act of public enemy, war, blockade, public riot, lightning, fire, flood, explosion, failure to timely receive necessary government approvals, government restraint or any other cause, which is not reasonably within the control of TLECC, TLECC's obligations under the purchase order or other contract shall be suspended during such Force Majeure. If the Force Majeure cannot be promptly removed in TLECC's sole opinion, at TLECC's sole option, the purchase order or other contract may be terminated without further obligation or liability on the part of either party.

TLECC honors a 1 year warranty on new equipment. This includes repair or replacement of said equipment at TLECC's discretion. The equipment warranty does not include the travel or labor to troubleshoot equipment. TLECC may include the labor at TLECC's discretion. TLECC will honor a 90 day warranty on all installation labor. Except for those expressly provided for herein, no other warranty express or implied applies. TLECC is not liable for lightning damage, vandalism, or acts of God. Warranty will be void on equipment which has been serviced by persons other than TLECC employees.

Limitations of liability: TLECC is not responsible for any modification or repairs to TLECC products made by persons other than TLECC personal. Timber Line is not liable for any and all consequential and incidental damages arising out of, or in connection with any purchase order or contract for equipment or services. This includes but is not limited to installation, service, or product's failure to perform, in connection with purchase order, contract, or verbal request for service.



Bid Proposal for Huerfano County Government AMI Gateways

| | | |
|-----------------|---|---|
| CUSTOMER | HUERFANO COUNTY 401 MAIN STREET SUITE 203 WALSENBURG, CO 81089 | Job Huerfano County Government AMI Gateways WALSENBURG, CO Bid Date: 01/15/2024 Bid #: 3308444 |
| CONTACT | Sales Representative Zachary Dreier (M) 678-799-2838 (T) 303-394-0004 (F) 303-394-4450 Zachary.Dreier@coreandmain.com | Core & Main 9451 Yosemite St Henderson, CO 80640 (T) 3033940004 |
| NOTES | | |



Bid Proposal for Huerfano County Government AMI Gateways

HUERFANO COUNTY
Job Location: WALSENBURG, CO
Bid Date: 01/15/2024
Core & Main 3308444

Core & Main
9451 Yosemite St
Henderson, CO 80640
Phone: 3033940004
Fax: 3033944450

Table with 6 columns: Seq#, Qty, Description, Units, Price, Ext Price. Rows include AMI GATEWAY COLLECTORS, NEPT R900 GATEWAY V4 ETHERNET 13458-100, 13070-100 OUTDOOR UPS SYSTEM, and NEPT R900 GATEWAY RF ANTENNA 13146-100.

Branch Terms:

CORE & MAIN WATERWORKS IS NOT LIABLE FOR DELIVERY DELAYS, CANCELLATIONS OR PRICE INCREASES RESULTING FROM ANY CAUSE BEYOND OUR CONTROL. THESE INCLUDE BUT ARE NOT LIMITED TO: MANUFACTURERS SHORTAGES, AVAILABILITY OR TIMELINESS OF TRANSPORTATION, MATERIALS, FUELS, OR SUPPLIES. THIS QUOTE IS NOT A CONTRACT TO SUPPLY MATERIAL OR GUARANTEE OF PRODUCT AVAILABILITY.

SALES TAXES NOT INCLUDED

ITEMS PICKED UP AT OUR FACILITY MAY BE SUBJECT TO CITY TAXES

UNLESS OTHERWISE SPECIFIED HEREIN, PRICES QUOTED ARE VALID IF ACCEPTED BY CUSTOMER AND PRODUCTS ARE RELEASED BY CUSTOMER FOR MANUFACTURE WITHIN THIRTY (30) CALENDAR DAYS FROM THE DATE OF THIS QUOTATION. CORE & MAIN LP RESERVES THE RIGHT TO INCREASE PRICES TO ADDRESS FACTORS, INCLUDING BUT NOT LIMITED TO, GOVERNMENT REGULATIONS, TARIFFS, TRANSPORTATION, FUEL AND RAW MATERIAL COSTS. DELIVERY WILL COMMENCE BASED UPON MANUFACTURER LEAD TIMES. ANY MATERIAL DELIVERIES DELAYED BEYOND MANUFACTURER LEAD TIMES MAY BE SUBJECT TO PRICE INCREASES AND/OR APPLICABLE STORAGE FEES. THIS BID PROPOSAL IS CONTINGENT UPON BUYER'S ACCEPTANCE OF SELLER'S TERMS AND CONDITIONS OF SALE, AS MODIFIED FROM TIME TO TIME, WHICH CAN BE FOUND AT: https://coreandmain.com/TandC/



7006 SPACE VILLAGE AVE
 PO BOX 76509
 COLORADO SPRINGS, CO 80929-9318
 PHONE (719) 622-8884
 FAX (719) 596-1538

| |
|------------------|
| Job Name |
| Pressure Monitor |

| Quote No. | Date | Page |
|-----------------|---------|---------|
| 0006633 | 1/14/25 | 1 |
| Expiration Date | | 2/13/25 |
| Revised Date | | 1/14/25 |
| Bid Due Date | | 1/14/25 |

| |
|--|
| Quoted To Customer |
| HUERFANO COUNTY GOVERNMENT 401 MAIN ST STE 306 WALSENBURG, CO 81089-2045 |
| Phone (719) 738-3000 Fax |

| |
|--|
| Quoted By |
| Steve Sloan sasloan@winwaterworks.com (719) 622-8884 |

| Customer | Payment Terms | Quoted To | Salesperson | FOB |
|----------|---------------|--------------|--------------|-----|
| 001867 | NET 30 DAYS | Nancy Bustos | STEVEN SLOAN | S |

| Line | Qty. | Description | Unit Price | UOM | Extended Price |
|------|------|--|------------|-----|----------------|
| 1.0 | 2 | 1P2F(30B) IOT CRITICAL POINT (EXTERNAL ANT- COMPATIBLE WITH ONE INTERNAL PRESSURE TRANSDUCER, DUAL FLOW CONNECTOR WITH SIM | 1458.9300 | LB | 2917.86 |
| 6.0 | 2 | AMKT1418 1 P COILED HOSE F / 1P LOGGER (W 1/4 NPT CONECTION | 42.8500 | | 85.70 |
| 8.0 | 2 | AMKT0801 MOUNTING BRACKET ALLOWS THE LOGGER/PRV TO BE SECURELY CONNECTED TO A WALL VAULT | 46.5000 | | 93.00 |
| 12.0 | 2 | AMKT0019 HIGH GAIN ANTENNA (10M) L17 | 128.7500 | | 257.50 |
| | | CONTINUED | | | |



| |
|------------------|
| Job Name |
| Pressure Monitor |

| Quote No. | Date | Page |
|-----------------|---------|---------|
| 0006633 | 1/14/25 | 2 |
| Expiration Date | | 2/13/25 |
| Revised Date | | 1/14/25 |
| Bid Due Date | | 1/14/25 |

| Line | Qty. | Description | Unit Price | UOM | Extended Price |
|------|------|--|------------|-----|----------------|
| 14.0 | 1 | AMTK1012 CONFIGURATOR CABLE CABLE TO CONNECT LAPTOP/ ANDROID DEVICE TO THE LOGGER TO INITIALLY CONFIGURE IT CABLES RE-USABLE | 46.4300 | | 46.43 |
| 19.0 | 2 | TEMP/SENTRYX1-60 SENTRYX PRESSURE MONITORING DEVICE (5 YEARS PER DEVICE) | 742.8600 | | 1485.72 |

Notes:
 This quote is for the above listed quantities. If ordered quantities are less than quoted quantities pricing is subject and may result in additional freight or shipping charges.

Lead time = 3-4 weeks aro.

Ups/ Freight to be prepaid and added to invoice .

All items are to be approved though the submittal process prior to ordering of any items.

All items are NON CANCELLABLE - NON-RETURNABLE once ordered.

| | | |
|-------------|-----------------|----------|
| Tax Area Id | Net Sales | 4,886.21 |
| 060550490 | Freight | .00 |
| | Tax | .00 |
| | Quotation Total | 4,886.21 |

**BUDGET NARRATIVE
GARDNER PUBLIC IMPROVEMENT DISTRICT
GOVERNED BY HUERFANO COUNTY**

Budget Proposal

Funding Plan and Letters of Funding Commitment

The total project budget for this project is \$90,000. This proposal request is for \$45,000 from the Bureau of Reclamation. The County, through the GPID, will provide the matching \$45,000.

Table 2. – Summary of Non-Federal and Federal Funding Sources

| FUNDING SOURCES | AMOUNT |
|----------------------------|----------|
| Non-Federal Entities | |
| Local Match | \$53,500 |
| Non-Federal Subtotal | \$53,500 |
| REQUESTED RECLAMATION FUND | \$53,500 |

Table 3. – Total Project Cost Table

| SOURCE | AMOUNT |
|---|------------------|
| Costs to be reimbursed with requested Federal funding | \$53,500 |
| Costs to be paid by the applicant | \$53,500 |
| Value of third-party contributions | |
| TOTAL PROJECT COST | \$107,000 |

Table 4. – Budget

| ITEM | DESCRIPTION | QUANTITY | UNIT COST | TOTAL COST | |
|---|---|----------|-----------|------------|----------|
| A. AMI Gateway Collectors | | | | | |
| 1 | V4 Ethernet | 1 | EA | \$10,615 | \$10,615 |
| 2 | Outdoor UPS System | 1 | EA | \$2,515 | \$2,515 |
| 3 | Antenna | 1 | EA | \$444 | \$444 |
| 4 | Startup and Training | 1 | LS | \$5,000 | \$5,000 |
| 5 | Installation of AMI System | 1 | LS | \$8,000 | \$8,000 |
| Subtotal: | | | | | \$26,574 |
| B. 3 Telemetry Site to Monitor Water in Well Houses and Tank | | | | | |
| 1 | Cellular Telemetry unit at Well House 1 | 1 | EA | \$19,811 | \$23,924 |
| 2 | AB micro 850 with cellular modem and antenna system at Well Site 2 | 1 | EA | \$11,700 | \$12,042 |
| 3 | Nema 3R painted enclosure with Micro 850 PLC and cell modem at Tank | 1 | EA | \$22,613 | \$25,044 |
| 4 | Security items including alarms | 1 | EA | \$2,327 | \$2,773 |
| Subtotal: | | | | | \$63,783 |

| ITEM | DESCRIPTION | QUANTITY | UNIT COST | TOTAL COST | |
|-------------------------|---|----------|-----------|------------|-----------|
| C. Inline Meters | | | | | |
| 1 | 1P2F (30B) IOT Critical Point | 2 | EA | \$1,459 | \$2,918 |
| 2 | AMKT1418 1 P Coiled Hose | 2 | EA | \$43 | \$86 |
| 3 | AMKT0801 Mounting Bracket | 2 | EA | \$47 | \$93 |
| 4 | AMKT0019 High Gain Antenna | 2 | EA | \$129 | \$258 |
| 5 | AMTK1012 Configurator Cable to connect laptop | 1 | EA | \$46 | \$46 |
| 6 | SeENTRYX1-60 Pressure Monitoring Device | 2 | EA | \$743 | \$1,486 |
| 7 | Installation of inline water meters | 2 | LS | \$800 | \$1,600 |
| | | | | Subtotal: | \$6,486 |
| Construction Subtotal: | | | | | \$96,843 |
| Contingencies 10% | | | | | \$10,156 |
| Grand Total | | | | | \$107,000 |

Budget Narrative

The County has received quotes from equipment suppliers for the necessary equipment and are included in Appendix B. The County will bid the project as required and needed for a successful installation. The County/GPID does not have the capacity to perform the work on its own.

- A 10% contingency is included in the budget proposal due to the increasing costs of goods and services at this time and to ensure there is an adequate budget for installation.
- No design and engineering are required for this project.
- No permits are required for this project.
- Davis-Bacon wages will be utilized.
- It is estimated that this project will be completed within 90 days of contract with the construction contractor. The work will begin after October 31, 2025 and will be completed by October 31, 2027.