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EXECUTIVE SUMMARY

Date: June 26, 2024
Applicant: Draper Irrigation Company
City, County, State: Draper City, Salt Lake County, Utah

Project Name: Culinary Smart Metering Project
Project Length: 1 year
Estimated Construction Start Date: July 31, 2025
Estimated Completion Date: July 31, 2026

PROJECT SUMMARY

Culinary Smart Metering is a small-scale on-the-ground efficiency project that implements municipal metering work previously identified in Draper Irrigation Company's (DIC) water planning efforts.

The project will use federal and private funds to install new 1-inch and ¾-inch ultrasonic meters with smart technology on existing metered culinary services and will span over a 12-month period. The project proposes installing 536 ultrasonic smart meters with cellular data transmission. The 536 existing culinary service laterals will be minimally impacted by replacing the existing meters with the new meters and endpoints.

Several other municipalities and DIC have successfully used these meters to improve reliability, accuracy, and efficiency. The meters improve detection of leaks and overuse, as well as system flow understanding. These benefits should reduce overall water use. The goal is to use these meters and data collection system for the entire culinary system.

The project is not located on a federal facility.

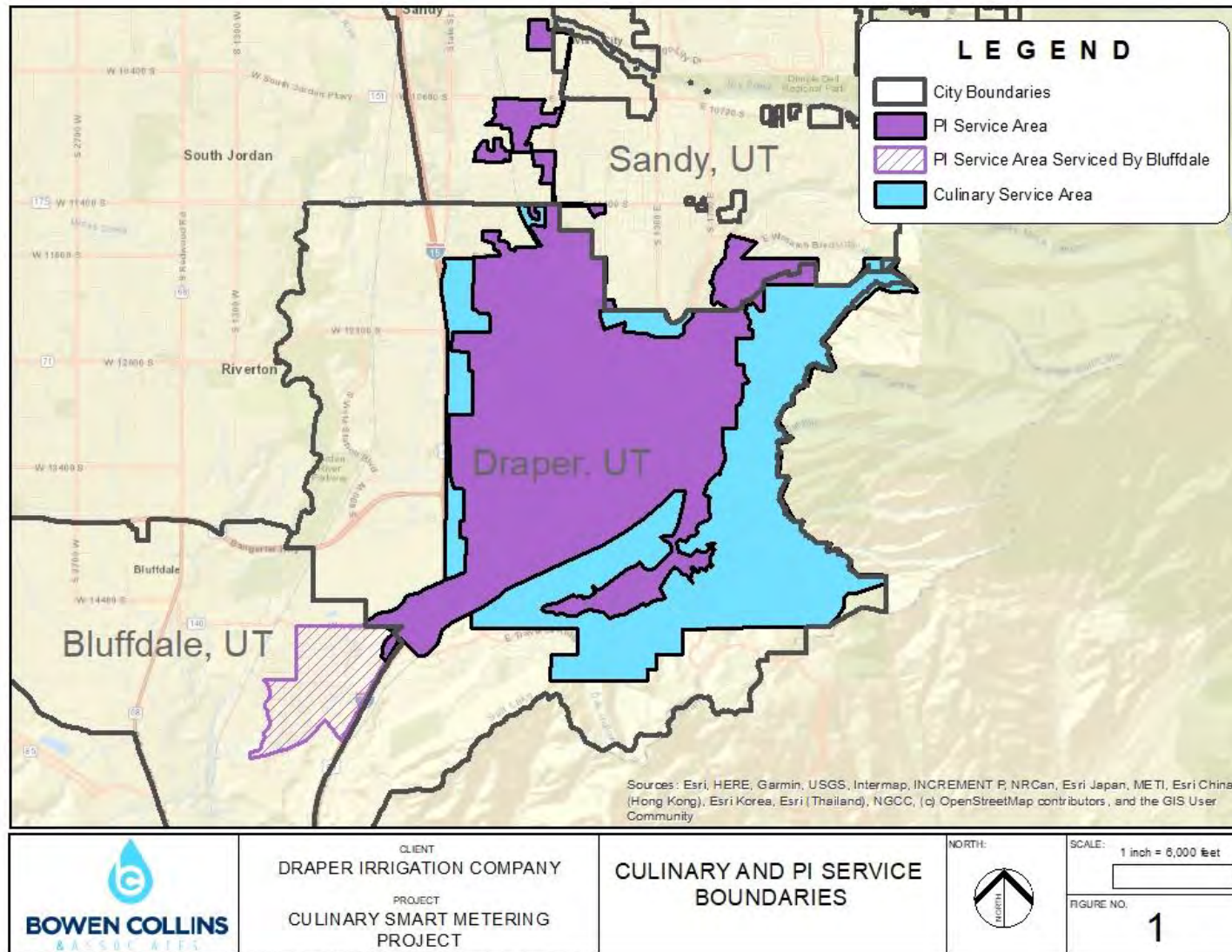
As an organization with water delivery authority, DIC is a Category A applicant.

TECHNICAL PROPOSAL

BACKGROUND

DIC is a non-profit shareholder-owned company that provides culinary and pressure irrigation water to customers primarily within Draper City, Utah (see Figure 1). DIC is a public water supplier with municipal water rights.

Figure 1 – Culinary and PI Service Boundaries



In 1911, DIC began providing culinary water to residents within the Draper area of Salt Lake County in Utah, approximately 18 miles to the south of Salt Lake City. The area was mainly farmland and undeveloped land until the 1970s when residential development began as part of a general suburbanization trend along the Wasatch Front. Now the Draper area is primarily residential with approximately 8,292 connections to the culinary system and an estimated population in 2019 of 48,000. Available data from 2012 through 2020 shows the average annual usage for the system was 1,957 million gallons. Per DIC's 2020 Water Master Plan, the buildout projected water production requirement could be up to 2,486 million gallons per year.

The system consists of over 150 miles of water lines, a water treatment plant, five wells, nine water storage reservoirs, and three connections for supplemental water from Jordan Valley Water Conservancy District (JVWCD).

The existing connections to the culinary system are metered. A significant portion of the monthly meter readings are taken by physically reading meters. DIC is in the process of upgrading all meters to be capable of transmitting meter readings wirelessly over cellular infrastructure.

Culinary water for the DIC system comes from four sources: DIC's water treatment plant, JVWCD, DIC's wells, and surplus raw water from JVWCD and Metropolitan Water District of Salt Lake and Sandy (Metro).

The culinary source categories are:

Water Treatment Plant (WTP): Most of the system's water comes from the WTP, which has a capacity of 8.0 million gallons per day with operation near or at capacity during spring runoff and during summer when demand is highest. Surface water originates from seven canyons along the Wasatch Front in the Draper and Sandy areas and is treated at the WTP, located at the northeastern part of the service area. DIC owns and operates the WTP.

JVWCD: DIC receives water from JVWCD at three separate connection points: 700 East, the WTP, and Autumn Ridge (a surplus backup connection used for emergencies). Water from JVWCD is mostly used in the summer months when demand is high due to outdoor use. DIC contracts with JVWCD to receive a perpetual yearly supply of 950 ac-ft of water with an option to use an additional 20 percent, for a total of 1,140 ac-ft. If more water is available, DIC may purchase more. DIC also has a contract with JVWCD to sell canyon water to JVWCD and buy banked water back at the lower of either the wholesale or operational cost.

Wells: Four wells, shown in Table 1, also provide water as needed.

Table 1 - DIC Well Locations and Capacities

Location	Capacity (gpm)
1300 East in Draper, Utah	835
Valle Di Villa	650
Hidden Valley	1,700
Water Treatment Plant	900

Table 2 shows DIC’s existing and active water rights and summarizes the status of each water right. DIC owns and operates eight storage tanks for the culinary water system, with a total capacity of 23,000,000 gallons as identified in Table 3. DIC has a contract with JVWCD, which is affiliated with the Central Utah Project (CUP), a Bureau of Reclamation (BOR) project. Funding from CUP helped to develop the DIC pressurized irrigation system, which replaced an old flood irrigation system. In the past, DIC has also worked directly with the BOR, receiving a WaterSMART grant for work on the Bear Canyon Intake Structure. This intake structure, completed in November 2012, saved an estimated 672 acre-feet of water per year.

DIC has three on-going projects with WaterSMART grants from the BOR for the following:

1. Installation of four shallow groundwater wells and associated 7,100-foot pipeline project (fiscal year 2022). The anticipated completion of these drought resiliency program projects is before the end of 2025.
2. Installation of 566 culinary water meters (fiscal year 2022). This project is anticipated to be completed before the end of 2024.
3. Construction of a reuse/recycled water pump station and approximately 1,000-feet of conveyance pipeline (fiscal year 2023). The anticipated completion of these drought response program projects is by March 2026.

PROJECT LOCATION

This project will occur at 536 locations throughout DIC’s culinary system service boundaries within Salt Lake County, Utah. More specifically the culinary system is located within portions of Draper City, Sandy City, and Bluffdale City, Utah as shown on Figure 1.

TECHNICAL PROJECT DESCRIPTION

The Culinary Smart Metering project includes designing and constructing a new culinary metering system using ultrasonic flow meters with cellular endpoints for transmitting data. The project includes 536 new meters. The new system will transmit meter readings to a computer system for near-instantaneous tracking and viewing, greatly reducing the manual labor required for meter reading and allowing faster detection of leakage and overuse.

The proposed meter project will include removing the existing meter and replacing it with a new meter and a cellular endpoint for transmitting the data. The Orion Cellular AMI Network is currently being used for collecting data. With the system already in place, the replacement should easily integrate with the existing services. It is anticipated that each service upgrade will require only installing a new meter and cellular endpoint.

DIC will self-install 536 of 1-inch and 3/4-inch, E-Series Ultrasonic Meters by Badger Meter. These meters include no internal moving parts. DIC selected Badger Meter ORION Water Endpoints (using the existing cellular communications network) to install with each Badger meter to transmit water meter data automatically to DIC

Table 2 - Culinary Water Rights

Water Right Number	Status	Most Recent Change App. No. (s)	Common Name	Original Priority Date	Proof Due Date (or Cert. #)	Proof Due on change Application (or Cert. #)	Max. Flow (cfs)	Max Volume (ac-ft/yr)
57-2757	Certificate	a37443	Wells - From Wangard	10/10/1961	8550	8/31/2025	None	1,086.772
57-8185			Wells	2/4/1977	12518			
57-8227			Wells - From Fitzgerald	3/3/1977	12181			
57-8520			Wells - From Riverton City	3/31/1980	13890			
57-10170			Wells - From Keogh	6/13/1972				
57-10302			Wells - From Naylor Well	3/4/1971	11553			
57-10331			Wells - From Toone	9/22/1961	7323			
57-8835	Certificate	a37447	Wells - From Zabriskie	12/3/2003		9/30/2025	None	21
57-10297	Approved	a37442	Wells - From Teerlink	6/13/1972	9/30/2022		None	15
57-10327	Approved	a37441	Wells - From Teerlink	6/13/1972	9/30/2022		None	23.4
57-7839	Certificate	a38167	Wells - South Minuteman Dr.	7/17/1972	12704	8/31/2026	None	25.856
57-3098	Certificate	a39939	Wells - Mount Jordan Corp	8/22/1960	11087	10/31/2019	3.58	240
57-10397	Diligence Claim	a40952	Wells - Dunyon Springs	1872		2/28/2022	None	64.13
57-10466								
57-2449	Certificate		Well	6/15/1954			None	None
57-3410 ¹	Diligence Claim	a37445	Corner Canyon	1880		9/30/2025	None	801.46
57-10191 ^{1 3}	Certificate	a37915	Mountain Streams (& Utah Lake)	10/27/1908	5629	4/30/2026	None	6,342.44
57-443 ^{1 3}			Mountain Streams	9/5/1940	9215			
57-3364	Certificate	a39978	Bear Canyon Spring & Creek	4/30/1964	12412	2/29/2020	1.113	None ²
57-10439	Decree				1869			
Total								9,425.83

¹Source used for both culinary and pressure irrigation systems.

²For volume calculation of total water rights, the max flow was assumed to flow the entire year (actual yield may be less).

³For purposes of source production, it is assumed all of the water is obtained through the mountain stream points of diversion, not Utah Lake

Table 3 - DIC Storage Facilities

Tank Description	Tank Location	Storage Capacity (gallons)
Northeast Bench Tank (WTP)	2558 Wasatch Blvd	1,000,000
Treatment Plant Tank	2558 Wasatch Blvd	7,000,000
Cove of Bear Canyon Sub. Tank	12300 South 2300 East	250,000
South Mountain Tank	1420 E Rambling Road	3,000,000
Traverse Ridge Road Tank	700 East Traverse Ridge Rd	3,000,000
Little Valley Tank	1430 East Traverse Ridge Rd	750,000
Corner Canyon Tanks (Qty 2)	13496 South Corner Canyon Rd	8,000,000
TOTAL STORAGE		23,000,000

EVALUATION CRITERIA

E.1.1. Evaluation Criterion A: Project Benefits (35 Points)

- *Will the project result in more efficient management of the water supply?*

Yes, the project modernizes DIC's water management system, leading to more efficient, responsive, and sustainable water supply management through:

1. Automated Metering: Transitioning to ultrasonic smart meters with cellular data transmission reduces manual meter reading efforts, saving time and energy.
2. Accurate Usage Data: Enhanced meter accuracy improves water distribution and planning, essential for effective water management due to better understanding of overall water usage and supply reliability throughout the system.
3. Leak Detection: Real-time detection capabilities enable quicker response to leaks and water wastage, crucial in drought-prone areas.
4. Data-Driven Decisions: Continuous data collection allows for informed decision-making regarding water distribution, conservation strategies, increased collaboration, information sharing, and customer service due to software that enables interactive, real-time flow measurements accessible by DIC and the customer.

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

The water conserved through this project will enhance the overall efficiency of the water distribution system, crucially mitigating the effects of Utah's drought conditions. This conservation enables the extension of water availability, particularly during dry periods, supporting both current community needs and future residential and commercial growth. Additionally, it aligns with broader environmental objectives of sustainable water use, ensuring a more reliable water supply for the area.

- *Are the customers not currently getting their full water right at certain times of year?*

As documented in DIC's 2018 Water Rights Master Plan, there is not enough reliable water rights/source capacity to meet all demands during drought conditions. By completing this project, customers and DIC will be able to track water more efficiently, make conservation decisions when it comes to water use, identify leaks more quickly, and ultimately reduce water consumption. Any reduction in water use will mitigate the drought impact and lower the potential for running out of water for outdoor landscape irrigation.

- *Does this project have the potential to prevent lawsuits or water calls?*

Groundwater rights in the Salt Lake Valley have been over-allocated. Surface water rights for sources in the DIC area have also been over-allocated in many cases. Lowering customer water usage will reduce DIC's water needs and diminish the potential for water conflicts. The leak detection features of these meters could potentially eliminate or limit damage to property (and potential lawsuits) due to large leaks.

- *What are the consequences of not making the improvement?*

By not making the improvements outlined in this project, DIC and its customers run the risk of overusing water and potentially having water shortages per DIC's 2018 Water Rights Master Plan. Water conflicts and decreased collaboration are all potential consequences of not reducing DIC's water usage.

- *Are customer water restrictions currently required?*

DIC does not have the legal authority to enforce water restrictions on its users. However, in the recent past DIC has physically run out of water and had to shut off outdoor irrigation system earlier in the year than was planned. Instead, DIC has an ongoing public awareness campaign to help promote water conservation among its users and update them on the current water situation.

- *Other significant concerns that support the need for the project.*

The Culinary Smart Metering Project by DIC is essential, particularly considering the growing population in the Draper area, which has significantly increased water demand. The project gains even more importance in light of the persistent drought conditions in Utah, which have put a strain on water supplies statewide. The introduction of smart metering technology is a proactive measure to monitor water use accurately, enabling DIC and its customers to engage in more conservative water use practices. This not only helps in managing the current water demand more efficiently, but also plays a critical role in extending the water supply availability later into the year. With this technology, DIC can better address the dual challenges of a growing residential demand and the environmental stress of drought, ensuring sustainable water management and long-term resource conservation in the region.

- *Will the proposed project increase collaboration and information share among water managers in the region? Please explain.*

The project will increase collaboration, information sharing, and customer service due to software that enables interactive, real-time flow measurements accessible by DIC and the customer.

- *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.*

Utah has recently been in one of the most severe droughts in recorded history. With low snowpack, and diminished precipitation, customers are at risk of encountering water shortages. Improved system reliability and water conservation will benefit not only DIC customers, but also the wider region served by JVWCD water by decreasing the strain on limited water sources and increasing information sharing about usage.

- *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.*

Although the project's primary goal is to improve water supply management for human use, its positive impacts extend to local ecosystems, which are crucial for maintaining biodiversity and ecological balance. Efficient water use contributes to preserving higher water levels in natural reservoirs and bodies of water, an essential factor in sustaining habitats for numerous species, including those that are environmentally sensitive, threatened, or endangered. By ensuring more water remains in the natural environment, the project aids in supporting aquatic life and contributes to the overall health of ecosystems. In Utah County and Salt Lake County, the June Sucker (*Chasmistes liorus*) is a federally recognized endangered species. This fish is endemic and unique to Utah Lake (from which DIC obtains much of its total water). This project could benefit the June Sucker by reducing the amount of water needed from Utah Lake.

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

The project will increase collaboration, information sharing, and customer service due to software that enables interactive, real-time flow measurements accessible by DIC and the customer. Improved system reliability and water conservation will benefit not only DIC customers, but also the wider region served by JVWCD water by decreasing the strain on water sources and increasing information sharing about water usage.

- *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.*

The proposed project will not complement any work being done in coordination with NRCS in the area.

E.1.2. Evaluation Criterion B: Planning Efforts Supporting the Project (25 Points)

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

DIC has a system-wide Water Conservation Master Plan (updated in 2020) that directly supports smart water metering of the culinary water system.

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

Yes, the Culinary Smart Metering Project is identified in DIC planning efforts, particularly in the system-wide Water Conservation Master Plan updated in 2020. That plan directly supports smart metering of the culinary water system.

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

DIC developed a system-wide Water Conservation Master Plan (updated in 2020) that directly supports smart water metering and the common goal of the BOR CUP's water conservation goal of 25 percent water usage reduction by 2025, which is directly applicable to the contract between JVVCD and DIC. The reduction in water usage, improved leak detection, and reduction of DIC staff efforts to collect meter data are the main conservation tactics for this project.

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

Automated flow meter data collection will be an asset for the system with respect to the aging of the infrastructure and the anticipated growth within the area. It will enable DIC to detect leaks and other deficiencies more quickly and react more efficiently. Upgrading the system to the new meters with smart technology is a priority because it will take several years and several stages due to the large number of connections.

E.1.3. Evaluation Criterion C: Implementation and Results (20 Points)

- *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.*

DIC is ready to proceed with the proposed project once a financial assistance agreement is reached with the BOR. Once BOR grant funding to DIC is established, planning, scheduling, and environmental compliance/permitting is established, then construction/meter replacement is estimated to begin July 2025 with completion anticipated by July 2026.

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

The DIC has provided a detailed budget proposal for the Culinary Smart Metering Project. The total estimated project cost is \$221,067, with DIC requesting a \$100,000 grant from

BOR. The remaining \$121,067 will be funded by DIC through cash reserves and in-kind services. The budget proposal includes a breakdown of costs for supplies and materials, specifically listing the types and quantities of meters and cellular endpoints needed, along with their individual costs (Table 5). This level of detail in the budget, along with the narrative explaining the use of funds, aligns with the criterion's requirement for a reasonable explanation of project costs.

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

DIC will obtain all necessary permits before beginning this project. As permits are expected to be needed from local municipalities with jurisdiction, DIC will coordinate with all involved municipalities. Environmental permitting is described later.

- *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 planned process and timeline for completing the design.*

The engineering work has already been completed in the form of standard details and specifications. There may be some engineering and design work required for installation issues that arise in the field and situations where typical installation is not feasible; however, none is expected at this time due to the simplicity of the 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.*

The existing meter and proposed construction will be located in the public right-of-way. Therefore, DIC has access to the land. No easements are anticipated to be required by the project.

- *Identify whether the applicant has contacted the local Reclamation office to discuss the potential environmental and cultural resource compliance requirements 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 the contractor's costs.*

DIC has completed the environmental and cultural resource compliance requirements for similar projects in 2018, 2019, and 2021. DIC anticipates no environmental and regulatory compliance costs. DIC will promptly complete all requirements after reaching a financial assistance agreement and before any meter replacement activities begin in July 2025.

E.1.4. Evaluation Criterion D: Nexus to Reclamation (5 Points)

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

Yes, DIC has a contract with the JWCD, which is affiliated with the CUP, a Bureau of Reclamation project. Additionally, DIC has received funding from BOR for various projects in the past, indicating an ongoing relationship with Reclamation.

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

Although DIC is not directly a Reclamation contractor, it does receive Reclamation water indirectly through its contract with JWCD. JWCD is associated with the BOR's Central Utah Project, and DIC contracts with JWCD for a perpetual yearly supply of water. This arrangement means that DIC indirectly utilizes Reclamation water through this contractual relationship with JWCD.

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

DIC has a contract with JWCD, which is affiliated with CUP, a BOR project. Therefore, any improvement in conservation or water management in DIC's system is indirectly connected to BOR. DIC has an agreement with CUP and provides updates to CUP on water conservation totals. DIC also received funding from BOR for the Bear Canyon Intake Relocation project to construct a new intake structure resulting in estimated annual water savings of 672 acre-feet. The project was funded through both BOR and DIC and was completed in November 2012. Increased water savings from that project could be further achieved because of this new proposed metering project since Bear Canyon is a DIC water source.

E.1.5. Evaluation Criterion E: Presidential and Department of the Interior Priorities (15 Points)

- *Please provide specific details and examples on how the project will address the impacts of climate change and help combat the climate crisis.*

Most of the western United States has recently been in the most severe drought in decades. That drought may be one of many impacts of climate change. By reducing water consumption through this proposed project, the impacts of climate change can be lessened to DIC's users. The proposed project will help combat the climate crisis by reducing vehicle carbon emissions by instead allowing all water meters to be automatically and remotely read by cellular service.

- *Does this proposed project strengthen water supply sustainability to increase resilience to climate change? Does the proposed project contribute to climate change resiliency in other ways not described above?*

This project will give DIC and its customers the infrastructure to better track and manage water usage and will ultimately provide tools to conserve water during periods of drought. By tracking water use, water waste can be reduced to a minimum and the water supply can be stretched out for use later in the water year. This will provide increased resiliency to the impacts of climate change.

E.1.5.2. Sub-criterion No. E2 Disadvantaged or Underserved Communities

- *Please use the White House Council on Environmental Quality's interactive Climate and Economic Justice Screening Tool to identify any disadvantaged communities that will benefit from your project.*

This project is not expected to benefit a disadvantaged community.

- *If applicable, describe how the project benefits those disadvantaged or underserved communities identified using the tool.*

This project is not expected to benefit a disadvantaged community.

E.1.5.3. Sub-criterion No. E3 Tribal Benefits

- *Does the proposed project directly serve and/or benefit a Tribe? Will the project improve water management for a Tribe?*

The proposed project does not directly serve nor benefit a Tribe. The proposed project will not improve water management for a Tribe.

- *Does the proposed project support Tribal resilience to climate change and drought impacts or provide other Tribal benefits such as improved public health and safety by addressing water quality, new water supplies, or economic growth opportunities?*

The proposed project will not support Tribal resilience to climate change and drought impacts, nor will the project provide any other Tribal benefits like the ones mentioned above.

- *Does the proposed project support Reclamation's Tribal trust responsibilities or a Reclamation activity with a Tribe?*

The proposed Culinary Smart Metering Project by DIC does not directly support Reclamation's Tribal trust responsibilities or involve a Reclamation activity with a Tribe.

BUDGET PROPOSAL

FUNDING PLAN AND LETTERS OF COMMITMENT

1. DIC seeks a \$100,000 grant from BOR for this metering project. DIC will fund the remaining \$121,067 from its cash reserves and in-kind services.
2. There are no costs incurred before the anticipated project start date that will be included in this project.
3. DIC has not requested any other Federal funds for the proposed project.
4. There are no other pending funding requests. Table 4 summarizes all funding sources for the project.

DIC will be funding this project itself with no commitment from other partners. No letters of commitment are therefore required.

Table 4 - Summary of Non-Federal and Federal Funding Sources

FUNDING SOURCES	AMOUNT
Non-Federal Entities	
1. Draper Irrigation Company: In-Kind Labor/Wages*	\$21,126
2. Draper Irrigation Company: Cash	\$99,941
Non-Federal Subtotal	\$121,067
Other Federal Entities	
1. None	\$0
Other Federal Subtotal	\$0
REQUESTED RECLAMATION FUNDING	\$100,000
TOTAL PROJECT COST	\$221,067

BUDGET PROPOSAL

Table 5 shows the proposed budget for the project.

Table 5 - Proposed Project Budget

BUDGET ITEM DESCRIPTION	COMPUTATION		QTY TYPE	TOTAL COST
	\$/UNIT	QTY		
Salaries and Wages				
Steve Cunningham - Project Manager	\$70.43	75	Hours	\$5,283
Meter Technician	\$22.00	402	Hours	\$8,844
Fringe Benefits				
Steve Cunningham - Project Manager	\$17.91	75	Hours	\$1,343
Meter Technician	\$14.07	402	Hours	\$5,656
Supplies and Materials				
1-inch Meter	\$245.39	82	Each	\$20,122
3/4-inch Meter	\$180.74	454	Each	\$82,056
Cellular Endpoint for Meter	\$174.26	536	Each	\$93,403
Contractual				
Engineering Consultant - Bowen Collins & Associates	\$218.00	20	Hours	\$4,360.00
TOTAL ESTIMATED PROJECT COSTS				\$221,067

BUDGET NARRATIVE

The project will include installation of 536 total new water meters and cellular endpoints. Installation of all meters and cellular endpoints will be self-performed by DIC.

Salaries and Wages/Fringe Benefits

The proposed budget (Table 5) includes estimated time for DIC employees overseeing the project, such as meetings, consultations, visits, paperwork, reporting, site visits, meter installations, and other duties. DIC will prepare and submit the SF-425 Federal Finance Report, an interim performance report, and a final report to Reclamation. Salaries and wages, based on 2024 figures, will be donated in-kind by DIC. The labor rates in the budget reflect the actual

rates of the identified personnel. The provisional fringe benefit rate for DIC personnel is approximately 25% for the project manager and 65% for the meter technician. These rates include Social Security, Medicare, retirement, insurance, workers' compensation, sick leave, health insurance, cell phone costs, and vehicle allowances. Fringe benefits anticipated for the project will be donated in-kind by DIC.

Equipment

No new equipment is required for installing new smart meters and cellular endpoints.

Materials and Supplies

The project costs include the purchase of 536 meters and cellular endpoints for construction. Costs associated with this category are based on recent DIC experience purchasing these items in 2023. Estimates of costs and quantities for all materials and supplies are shown in Table 5.

Contractual

DIC anticipates contracting with Bowen Collins & Associates Inc. (the current contracted consultant engineer for DIC) for any necessary design work required for issues that arise in the field during construction and to assist with reporting/coordinating with BOR. The proposed budget in Table 5 is the estimated time for Bowen Collins & Associates to assist with the project. That includes project meetings, consultations, project visits, required paperwork, reporting, and other support duties involved with the project.

Total Costs

The estimated total project cost for the culinary metering project is \$221,067. The requested federal share is \$100,000; the total non-federal share is \$121,067. A copy of the SF424A, Budget Information for Non-Construction Programs is included in the application.

ENVIRONMENTAL AND CULTURAL RESOURCES COMPLIANCE

DIC will not commence any ground-disturbing activities on this project before the environmental compliance process is complete and BOR explicitly authorizes work to proceed.

1. The project will install meters on existing culinary service laterals. Therefore, no soil excavation will be required. As the service laterals and meter boxes were previously installed, much of the excavated area was previously disturbed. Little to no impacts are expected on the surrounding environment due to soil, air, water, etc.
2. The U.S. Fish and Wildlife Service's Information Planning and Conservation System website provides information within the area of interest. The Canada Lynx (*Lynx canadensis*), Yellow-billed Cuckoo (*Coccyzus americanus*), June Sucker, (*Chasmistes liorus*), and Ute Ladies-tresses (*Spiranthes diluvialis*) may potentially be affected by activities in Salt Lake County. Meters will be installed on existing culinary service laterals. These locations are already highly disturbed and minimize any potential animal habitat availability. No threatened or endangered species will be impacted by the proposed project.
3. The project will potentially disturb only urban landscaping; this project will not affect wetlands or waters of the U.S.
4. The culinary water delivery system was constructed between 1911 to the present.
5. This project will not make any modifications to irrigation system features.

6. There may be historic sites within the project area; however, none are known at this time. DIC will check with the State Historic Preservation Office prior to starting the project. No buildings or facilities in the project area will be impacted by the project as work will only occur inside existing meter boxes.
7. There are no known archeological sites in the proposed project area.
8. The project will not disproportionately affect low income or minority populations.
9. There are no known sacred sites or tribal land within the project area. The project will not limit access or affect tribal lands.
10. The project may disturb very small areas of existing residential landscaping. Introduction, continued existence, or spread of noxious weeds or invasive species is not expected.

REQUIRED PERMIT OR APPROVALS

DIC will further evaluate the environmental requirements prior to commencing construction.

NEPA – National Environmental Policy Act

DIC does not anticipate any impacts on the environment and will fit within a Categorical Exclusion to NEPA. Best management practices will minimize environmental impacts.

NHPA – National Historic Preservation Act

DIC will contact the State Historic Preservation Office before beginning any work in the project area. There will be no negative impacts to historic sites as a result of this project.

ESA – Endangered Species Act

No critical habitat or endangered species are anticipated to be affected by this project.

State Permits

No State permits will be required for the project.

Local Permits

All appropriate approvals and permits for the project fall under the jurisdiction of Draper City, Sandy City, and Bluffdale City. All applicable city ordinances and procedures will be followed, and necessary approvals obtained.

OVERLAP OR DUPLICATION OF EFFORT STATEMENT

There is not any overlap between the proposed project and any other active or anticipated proposals or projects in terms of activities, costs, or commitment of key personnel. The proposal submitted for consideration under this program does not in any way duplicate any proposal or project that has been or will be submitted for funding consideration to any other potential funding source, whether it be Federal or Nonfederal.

CONFLICT OF INTEREST DISCLOSURE STATEMENT

Per 2 CFR §1402.112, no actual or potential conflicts of interest exist at the time of this submission. DIC will submit a conflict-of-interest disclosure or certification statement prior to issue of an award.

LETTERS OF PROJECT SUPPORT

Appendix A has letters from Jordan Valley Water Conservancy District and Draper City.

APPENDIX A
LETTERS OF PROJECT SUPPORT



DRAPER CITY

1020 E. Pioneer Rd. Draper, UT 84020

January 8, 2024

Financial Assistance Support Section
Bureau of Reclamation, Department of the Interior

RE: WaterSMART: Water & Energy Efficiency Grants for FY2024
Draper Irrigation Company – Culinary Water Metering Project

To whomever it may concern:

Draper City understands that Draper Irrigation Company (DIC) is seeking federal funds for a proposed Culinary Water Metering Project through the Bureau of Reclamation's (BOR) WaterSMART grant program.

DIC is currently operating under a franchise agreement with Draper City, and Draper City is one of its largest customers. It is important for us to support DIC in providing service to our customers and in exercising best management practices. One of these practices is to provide metering services that will engage and encourage customers to conserve water. We work closely with DIC in water conservation practices, such as educating schoolchildren and providing ordinances to support conservation efforts in Draper City.

We understand that DIC has completed significant research on meters and has found a culinary meter with cell-point technology to allow remote reading. The new meters feature an app that allows customers to monitor water usage in real-time, set usage goals, and create alarms to inform them of overuse. Using these meters will help improve efficiency, conserve water, and improve customer relations while encouraging customers to be proactive in conserving water. We therefore recommend BOR's joint funding of this project to help ensure its success.

Please do not hesitate to call me at (801) 576-6513 if you have any questions.

Respectfully,

David Dobbins
City Manager

SC/bm

December 26, 2023

801.565.4300
fax 801.565.4399

jvwcd.org

8215 South 1300 West
West Jordan, UT 84088



Financial Assistance Support Section
Bureau of Reclamation, Department of the Interior

To whom it may concern:

Jordan Valley Water Conservancy District (JVWCD) understands that Draper Irrigation Company (DIC) is seeking federal funds for a proposed Culinary Water Metering Project through the Bureau of Reclamation's (BOR) WaterSMART grant program. DIC currently has a wholesale water purchase contract with JVWCD for M&I water deliveries to DIC's retail service area.

As a water conservancy district and a wholesale water provider, we are committed to protection and efficient use of our current and future water supply and have a conservation goal to reduce M&I water use by 25% by 2025. DIC has indicated that this project will result in significant quantifiable water savings, improve management of their culinary water system, and help ensure the sustainability of their source supply. In addition, this project will directly help JVWCD to reach its goals in the following way:

- Help sustain and conserve existing M&I water supplies, including those provided by federal projects such as the Central Utah Water Project and the Provo River Project.
- Reduce the per capita water usage of DIC customers and overall per capita usage within JVWCD's service area.
- Allow our current water purchase contract with DIC to supply water for future DIC users.
- Reduce the need for upgrades or additions to water supply infrastructure.

We understand that DIC has completed a significant amount of research on meters and has found a culinary meter with cell point technology to allow remote reading. The new meters feature application software that allows customers to monitor water usage in real time, set usage goals, and create alarms to inform them of overuse. These meters will help improve efficiency, conserve water, and improve customer relations while encouraging customers to be proactive in conserving water. We therefore recommend BOR's joint funding of this project to help ensure its success.

Please do not hesitate to call me at (801) 565-4300 if you have any questions.

Respectfully,


Alan E. Packard, P.E.
General Manager/CEO



DRAPER CITY

1020 E. Pioneer Rd. Draper, UT 84020

January 8, 2024

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Respectfully,

David Dobbins
City Manager

SC/bm

December 26, 2023

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8215 South 1300 West
West Jordan, UT 84088



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Financial Assistance Support Section
Bureau of Reclamation, Department of the Interior

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Jordan Valley Water Conservancy District (JVWCD) understands that Draper Irrigation Company (DIC) is seeking federal funds for a proposed Culinary Water Metering Project through the Bureau of Reclamation's (BOR) WaterSMART grant program. DIC currently has a wholesale water purchase contract with JVWCD for M&I water deliveries to DIC's retail service area.

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