

**WaterSMART: Small-Scale Water Efficiency Projects for FY2019
Funding Opportunity Announcement No. BOR-DO-19-F005**

Culinary Smart Metering Project

Prepared for:

Draper Irrigation Company

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Prepared by:



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April 18, 2019

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TABLE OF CONTENTS

EXECUTIVE SUMMARY	2
Project Summary	2
TECHNICAL PROPOSAL FOR CULINARY SMART METERING PROJECT	3
Background	3
Project Location	5
Technical Project Description & Milestones	5
Evaluation Criteria	7
BUDGET PROPOSAL FOR CULINARY SMART METERING PROJECT	10
Funding Plan and Letters of Commitment	10
Budget Proposal	11
Budget Narrative	11
ENVIRONMENTAL AND CULTURAL RESOURCES COMPLIANCE	13
REQUIRED PERMIT OR APPROVALS	14
LETTERS OF PROJECT SUPPORT	14
OFFICIAL RESOLUTION	14

LIST OF TABLES

1	DIC Well Locations and Capacities	5
2	Culinary Water Rights	6
3	DIC Storage Facilities	7
4	Summary of Non-Federal and Federal Funding Sources	10
5	Proposed Project Budget	11

LIST OF FIGURES

1	DIC Culinary and PI Service Boundaries	4
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LIST OF APPENDICES

(APPENDICES BELOW NOT INCLUDED IN PAGE COUNT)

A	Official Resolution
B	Letters of Project Support

EXECUTIVE SUMMARY

Date: April 18, 2019
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: February 1, 2020
Estimated Completion Date: October 1, 2020

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 ¾-inch and 1-inch ultrasonic meters with smart technology on existing metered culinary services and will span over a 12-month period. The project proposes installing 530 ultrasonic smart meters with cellular data transmission. The 530 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.

TECHNICAL PROPOSAL FOR CULINARY SMART METERING PROJECT

BACKGROUND

Draper Irrigation Company (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.

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 8,556 connections to the culinary system and an estimated population in 2016 of 45,830. Available data from 2012 through 2018 shows the average annual usage for the system was 1,924 million gallons. Per DIC's 2018 Water Rights Master Plan, the buildout projected water production requirement could be up to 2,759 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.

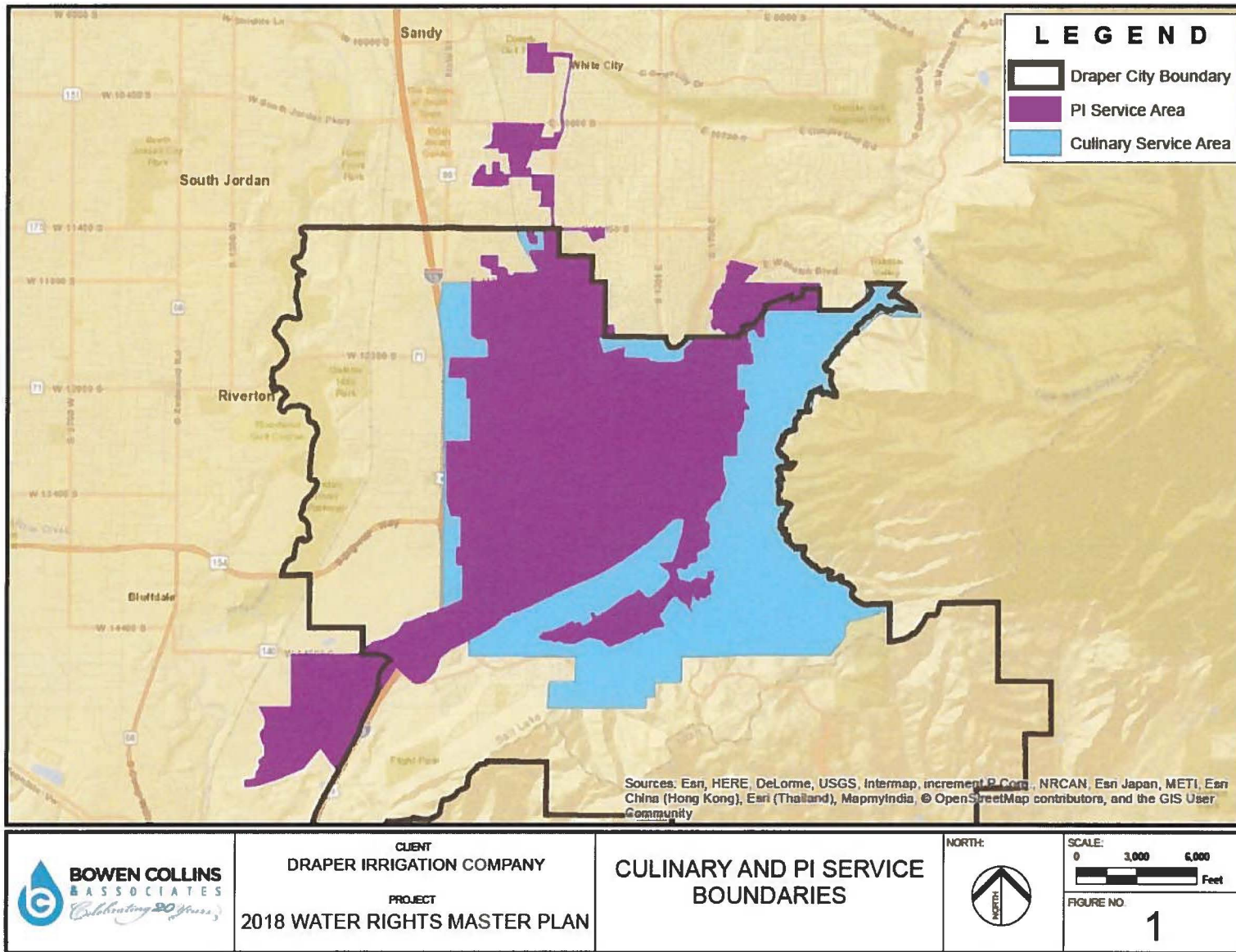
Culinary water for the DIC system comes from four sources: DIC's water treatment plant, JVWCD, DIC's wells, and surplus raw water from JVWCD and Metropolitan Water District of Salt Lake and Sandy (Metro).

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.

Figure 1 – Culinary and PI Service Boundaries



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	950
Valle Di Villa	650
Hidden Valley	3,000
Water Treatment Plant	1,100

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 the Table 3.

DIC has a contract with JWCD, which is affiliated with the Central Utah Project (CUP), a Bureau of Reclamation (BOR) project. Funding from CUP helped to develop the DIC PI system, which replaced an old flood irrigation system. In the past, DIC has also worked directly with 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.

Recently, DIC received WaterSMART grants from the BOR for installation of 2,063 PI water meters and 490 culinary water meters in fiscal year 2018. Anticipated completion of these projects is before 2022.

PROJECT LOCATION

This project will occur at 530 locations in 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 & MILESTONES

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 530 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. In addition, the lead-free ultrasonic flow meters will improve accuracy, minimize required maintenance, and increase reliability. The ultimate goal is to convert the entire culinary service area to this "smart" type of metering.

The proposed meter project will include removing the existing meter and replacing it with the new meter and a cellular endpoint for transmitting the data. The Orion Cellular AMI Network is currently being used for collecting the data. With the system already in place, 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.

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

DIC will self-install 530 of the 3/4-inch and 1-inch E-Series Ultrasonic Meters by Badger Meter. These meters include no internal moving parts. DIC selected 530 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.

The expected outcome is that DIC (and the customers with the new smart metered connections) will be able to monitor and track usage more accurately. This type of technology can increase leakage detection and sustainability of DIC’s water supply by saving water through informed use. DIC anticipates that with the additional data from the meters, they can detect maintenance issues and make repairs before larger failure occurs.

The project duration will be no more than 12 months. The initial and final design milestone will occur within the first month of the project considering little to no design is expected at this time due to the simplicity of the project. Once the final design is complete, scheduled completion of the environmental compliance and permitting milestones is to occur by the end of month 3. The construction milestone and completion of the project will take 9 months (the remainder of the project schedule).

EVALUATION CRITERIA

Evaluation Criterion A: Project Benefits (35 Points)

The anticipated benefits of this project include:

1. Reducing time and energy for meter reading
2. Reducing time to repair system deficiencies due to reduction in time spent reading meters, therefore improving system reliability
3. Reducing time for leak detection and thus reducing water losses
4. Increased metering accuracy and reliability due to meter technology advancements
5. Better understanding of overall water usage and supply reliability throughout the system
6. Increased collaboration, information sharing, and customer service due to software that enables interactive, real-time flow measurements accessible by DIC and the customer

Evaluation Criterion B: Planning Efforts Supporting the Project (35 Points)

DIC has a system-wide Water Conservation Master Plan that supports this proposed project and the common goal of the Bureau of Reclamation Central Utah Project's water conservation goal of 25 percent water usage reduction by 2025, which is directly applicable to the contract between JWCDC 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.

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.

Evaluation Criterion C: Project Implementation (10 Points)

DIC is ready to proceed with the proposed project once a financial assistance agreement is reached. Once BOR grant funding to DIC is established, planning, scheduling, and environmental compliance/permitting is established, then construction/meter replacement is estimated to begin February 2020 with completion anticipated by October 2020.

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.

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.

Customers will need information about the new meters. DIC does not anticipate that the billing structure or rates will change; however, the software may require that DIC creates new templates for billing. DIC anticipates that once the entire system has smart meters installed, some policies will require updating.

Environmental Compliance costs have been estimated at 2% of the total project costs. DIC anticipates minimal environmental and regulatory compliance costs, and the budgeted amount for compliance is part of the recipient cost share. Compliance costs will include the cost incurred by BOR to determine the level of environmental compliance required for the project, the cost of BOR and DIC personnel to prepare any necessary environmental compliance documents or reports, the cost of BOR to review any environmental compliance documents prepared by DIC, the cost of DIC to acquire any required approvals or permits, and/or implementing any required mitigation measures.

Evaluation Criterion D: Nexus to Reclamation (10 Points)

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 still has an agreement with CUP and provides updates to CUP on conservation totals.

DIC also received funding from BOR for the Bear Canyon Intake Relocation project, to construct a new intake structure resulting in estimated 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.

The project will not benefit any local tribes.

Evaluation Criterion E: Department of the Interior Priorities (10 Points)

Subcriterion 5 a.: Support White House Public/Private Partnership Initiative to modernize U.S. infrastructure.

Make Targeted Federal Investments – The White House indicates that focusing Federal dollars on the most transformative projects and processes stretches the use and benefit of taxpayer funds. The White House also acknowledges that Federal funds should go to projects that address problems that are a high priority. The calculated percentage of Federal funding to total project cost is 39.1%. DIC is funding the majority of the project costs and is above the 50% minimum percentage of non-Federal funding, thereby stretching the use of taxpayer funds.

Encourage Self Help – The White House recognizes that localities are better equipped to understand the right level and type of infrastructure investment needed for their communities. Through internal investigations and experience with smart metering, DIC has concluded that culinary system smart meters are a worthwhile investment.

Modernizing U.S. Infrastructure – This project will modernize the existing culinary water-tracking infrastructure. The 530 customers will go from having limited access to water use data to having highly accurate ultrasonic meters with cellular endpoint units allowing automatic wireless remote meter reading that provides nearly real-time flow data monitoring available online. DIC will be able to educate customers regarding water use, detect leaks, and identify other areas where additional conservation may be possible.

BUDGET PROPOSAL FOR THE CULINARY SMART METERING PROJECT

FUNDING PLAN AND LETTERS OF COMMITMENT

1. DIC seeks a \$75,000 grant from BOR for this metering project. DIC will fund the remaining \$117,003 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 commitments 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	\$24,354
2. Draper Irrigation Company: Cash	\$92,649
Non-Federal Subtotal	\$117,003
Other Federal Entities	
1. None	\$0
Other Federal Subtotal	\$0
REQUESTED RECLAMATION FUNDING	\$75,000
TOTAL PROJECT COST	\$192,003

BUDGET PROPOSAL

Table 5 shows the proposed budget for the project.

Table 5 - Proposed Project Budget

BUDGET ITEM DESCRIPTION	COMPUTATION		Quantity Type	TOTAL COST
	\$/Unit	Quantity		
Salaries and Wages				
David Gardner - PM/Assistant General Manager	\$76.74	60	Hours	\$4,604
Steve Cunningham - Office Manager	\$49.24	75	Hours	\$3,693
Meter Technician	\$25.33	398	Hours	\$10,081
Fringe Benefits				
David Gardner - PM/Assistant General Manager	\$14.79	60	Hours	\$887
Steve Cunningham - Office Manager	\$12.65	75	Hours	\$949
Meter Technician	\$10.40	398	Hours	\$4,139
Supplies and Materials				
1-inch Meter	\$204.52	106	Each	\$21,679
3/4-inch Meter	\$145.61	424	Each	\$61,740
Cellular Endpoint for Meter	\$133.82	530	Each	\$70,925
Contractual				
Engineering Consultant – Bowen Collins & Associates	\$159.00	60	Hours	\$9,540
Environmental & Regulatory Compliance				
Environmental and Regulatory Compliance (% of Total Cost)	2%	1	Lump Sum	\$3,765
TOTAL ESTIMATED PROJECT COST				\$192,003

BUDGET NARRATIVE

The project will include installation of 530 total new 3/4-inch and 1-inch water meters. Installation of all 530 meters and cellular endpoints will be completed by DIC.

Salaries and Wages

The proposed budget (Table 5) includes estimated time for DIC employees administering and overseeing the project. That includes project meetings and consultations with the design engineers, project visits, all required paperwork, reporting, and other duties involved with the project. DIC will prepare the following reports and submit them to Reclamation: SF-425 Federal Finance Report, an interim performance report, and a final report. Salaries and wages are based on 2019 figures and will be a donation in-kind by DIC. The labor rates included in the budget proposal represent the actual labor rates of the identified personnel.

Fringe Benefits

The provisional fringe benefit rate for DIC personnel is roughly 29% of salary and wages for the listed employees. Fringe benefits include Social Security, Medicare, retirement, life and disability insurance, workers' compensation, sick leave, health insurance premiums, cell phone costs, and vehicle allowances. Fringe benefits anticipated for the project will be a donation in-kind by DIC.

Equipment

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

Materials and Supplies

The project costs include the purchase of 530 meters and cellular endpoints for construction. Costs associated with this category are based on recent DIC experience purchasing these items in 2019.

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 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.

Environmental and Regulatory Compliance Costs

Environmental Compliance costs have been estimated to be 3% of total project costs. DIC anticipates minimal environmental and regulatory compliance costs. Compliance costs will include the cost incurred by BOR to determine the level of environmental compliance required for the project, BOR and DIC personnel to prepare any necessary environmental compliance documents or reports, BOR review of any environmental compliance documents prepared by DIC, DIC acquiring approvals or permits, and/or implementing any required mitigation measures.

Total Costs

The estimated total project cost for the culinary metering project is \$192,003. The requested federal share is \$75,000; the total non-federal share is \$117,003. A copy of the SF424C, Budget Information-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, 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 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

As outlined in the environmental compliance cost description of the project budget, 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.

LETTERS OF PROJECT SUPPORT

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

OFFICIAL RESOLUTION

The official resolution approved by the DIC Board of Directors is not included with this application. The regularly scheduled board meeting was supposed to be held on the third Wednesday of April (the 17th). However the board meeting was rescheduled to April 24th due to unrelated scheduling conflicts. A copy of the official resolution that will be presented at the board meeting on April 24th is included in Appendix A. That official resolution provides support for this application, designates an authorized official, commits DIC to the amount of funding and in-kind contributions specified in the proposed project funding plan, and commits DIC to meeting established deadlines for entering into a grant agreement with the BOR. Once signed, that official resolution will be sent to the BOR separately from this application.

APPENDIX A
OFFICIAL RESOLUTION

Official Resolution of Draper Irrigation Company Regarding Participation in Funding for a U.S. Department of the Interior: Bureau of Reclamation WaterSMART Grant Project

Whereas, the Bureau of Reclamation under its Small-Scale Water Efficiency Projects for FY 2019 program has made available to qualifying applicants grant funding on a matching fund basis for water conservation projects and whereas, Draper Irrigation Company has identified a project that exemplifies the objectives of the grant program for the purpose of water conservation through the installation of culinary water meters and cellular endpoints;

It is hereby Resolved, dated April 24, 2019, by the Draper Irrigation Company Board of Directors:

- That David A. Gardner is identified as the official with legal authority to represent Draper Irrigation Company and to enter into an agreement resulting from a successful application for this grant, and is specifically authorized to do so.
- That David A. Gardner and the Board of Directors have reviewed and support the application submitted.
- That Draper Irrigation Company has the financial capability to provide the amount of funding and in-kind contributions specified in the funding plan of the application.
- That Draper Irrigation Company will work with Reclamation to meet established deadlines for entering into a grant or cooperative agreement.

This resolution shall take effect immediately upon passing. Signed and approved:

Ryan Daw, President

Greg J Matis, Director

George Greenwood, Vice President

Thomas Ward, Director

Dale Smith, Secretary

Stephen L. Tripp, Director

Kent S. Ware, Past President

APPENDIX B
LETTERS OF PROJECT SUPPORT



JORDAN VALLEY WATER CONSERVANCY DISTRICT

8215 South 1300 West • West Jordan, UT 84088 • Ph: 801.565.4300 • www.jvwcd.org

Richard P. Bay, *General Manager/CEO*
Barton A. Forsyth, *Assistant General Manager*
Alan E. Packard, *Assistant General Manager*

Board of Trustees
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Stephen W. Owens
Ronald E. Sperry
Lyle C. Summers
John H. Taylor

April 10, 2019

Darren Olson, Grants Management Specialist
Financial Assistance Support Section
Bureau of Reclamation, Department of the Interior

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

Dear Mr. Olson:

Jordan Valley Water Conservancy District (JWWCD) 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 JWWCD 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 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 JWWCD to reach its goals in the following ways:

- Help sustain and conserve existing M&I water supplies, including those provided by federal projects such as the Central Utah Project and the Provo River Project.
- Reduce the per capita water usage of DIC customers and overall per capita usage within JWWCD's service area.
- Allow our current water purchase contract with DIC to supply water to 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 Packard
Assistant General Manager
Jordan Valley Water Conservancy District



April 15, 2019

Darren Olson, Grants Management Specialist
Financial Assistance Support Section
Bureau of Reclamation, Department of the Interior

**RE: WaterSMART: Water & Energy Efficiency Grants for FY 2019
Draper Irrigation Company – Culinary Water Metering Project**

Dear Mr. Olson:

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 in conserving 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 a significant amount of research on meters, and has found a culinary meter with cell point technology to allow remote reading. These 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,

Troy Walker
Mayor, Draper City