

WaterSMART
Small-scale Water Efficiency Projects
Washington County
**Water Conservation Programs:
Irrigation Efficiency Measures
2020-2022**

FOA: BOR-DO-20-F006



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February 13, 2020

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TECHNICAL PROPOSAL AND EVALUATION CRITERIA

Executive Summary

Date, applicant name, city county and state.

March 4, 2020

Washington County Water Conservancy District (WCWCD)

St. George, Washington, Utah (Southwest Utah)

One paragraph project summary that specifies the work proposed, including how funds will be used to accomplish specific project activities and briefly identifies how the proposed project contributes to accomplishing the goals of this FOA

Water Efficiency Projects identified in water planning efforts—Water Efficient Irrigation Measures

This proposal will address the task area of water conservation projects on irrigation efficiency measures. This proposal is seeking for funding to continue offering rebates for an existing measure. The measure is: Water Smart Irrigation Upgrades (residential, multifamily, and CII users). This proposal provides Washington County with funding assistance in offering an incentive program to residents, multifamily developments, and CII water users in Washington County. This program, water efficient irrigation systems upgrades, is identified in our recently updated water conservation plan (2015). The measure will offer rebates for installing smart irrigation controllers, high-efficiency nozzles along with other changes to irrigation system to save outside water use. This measure and other measures offered by WCWCD has helped reduce our water use by 9 percent while our population increased 13 percent. Such financial assistance brings WCWCD closer to reaching its water conservation target.

State the length of time and estimated completion date for the proposed project including the construction start date (month/year).

Length of time, estimated project completion and location

- Project Timeline: October 1, 2020 to September 30, 2022

Is the proposed project is located on a Federal facility?

- This proposed project is not located on a federal facility.

Background Data

Describe the source of water supply, total quantity of water supplies managed and supplied, the water rights involved, current water uses, the number of water users served, the current and projected water demand, potential shortfalls in water supply

WCWCD's jurisdiction covers all of Washington County though most of its projects are located in the heaviest populated areas of the county. According to the Governor's Office of Planning and Budget and 2015 US Census, this is the fastest going community in the west. The county's population increased 13 percent from 2010 to 2015. The 2018 population of the county was 170,000. WCWCD reliable annual water supply is 32,047 AF and its sole water source is from the Virgin River Basin. WCWCD manages and operates 6 reservoirs (2 for culinary use),

over 200 miles of culinary pipelines, 80 miles of secondary pipelines, two hydroelectric plants, 4 pump stations, 23 wells, 6 tanks and a 60 mgd culinary water treatment plant. Broken down into percentage of potable water use by class, 52 percent is residential customer sector and the remaining 48 percent is used by the commercial, industrial and institutional customer base. WCWCD is a local government entity with a property tax base and revenues from hydroelectric power and wholesale water sales. Based on a 2019 Water Needs Assessment report, the county will need additional water sources by the year 2025. The conserved water from these rebate programs will delay water projects, help to meet the water needs of our growing population, minimize impacts of drought cycles and climate change issues.

Prior projects with Bureau of Reclamation

Identify any past working relationships with Reclamation (dates, description)

In the past, WCWCD has had many opportunities of working with Bureau of Reclamation through their various grant programs.

Year	Agreement #	Program
2003	WCFSP	Built southern Utah’s first demonstration garden
2005	05FC300021	River Telemetry Project
2011	R11AP30016	Study on arsenic occurrence and mobilization in the Navajo Sandstone Aquifer.
2011	R11AP30009	Water Audit & Loss Control Program & Water Conservation Rebate Programs
2012	R12AP30012	Water Conservation Rebate Programs
2013	R13AP30007	Water Conservation Rebate Programs
2014	R14AP00012	Water Conservation Rebate Programs
2016	R16AP00047	Water Conservation Rebate Programs
2016	R16AP00110	AMI Metering on Secondary System in Toquerville
2017	R17AP00049	Water Conservation Rebate Programs
2018	R18AP00223	Water Conservation Rebate Programs
2019	R19AP00211	Water Conservation Rebate Programs

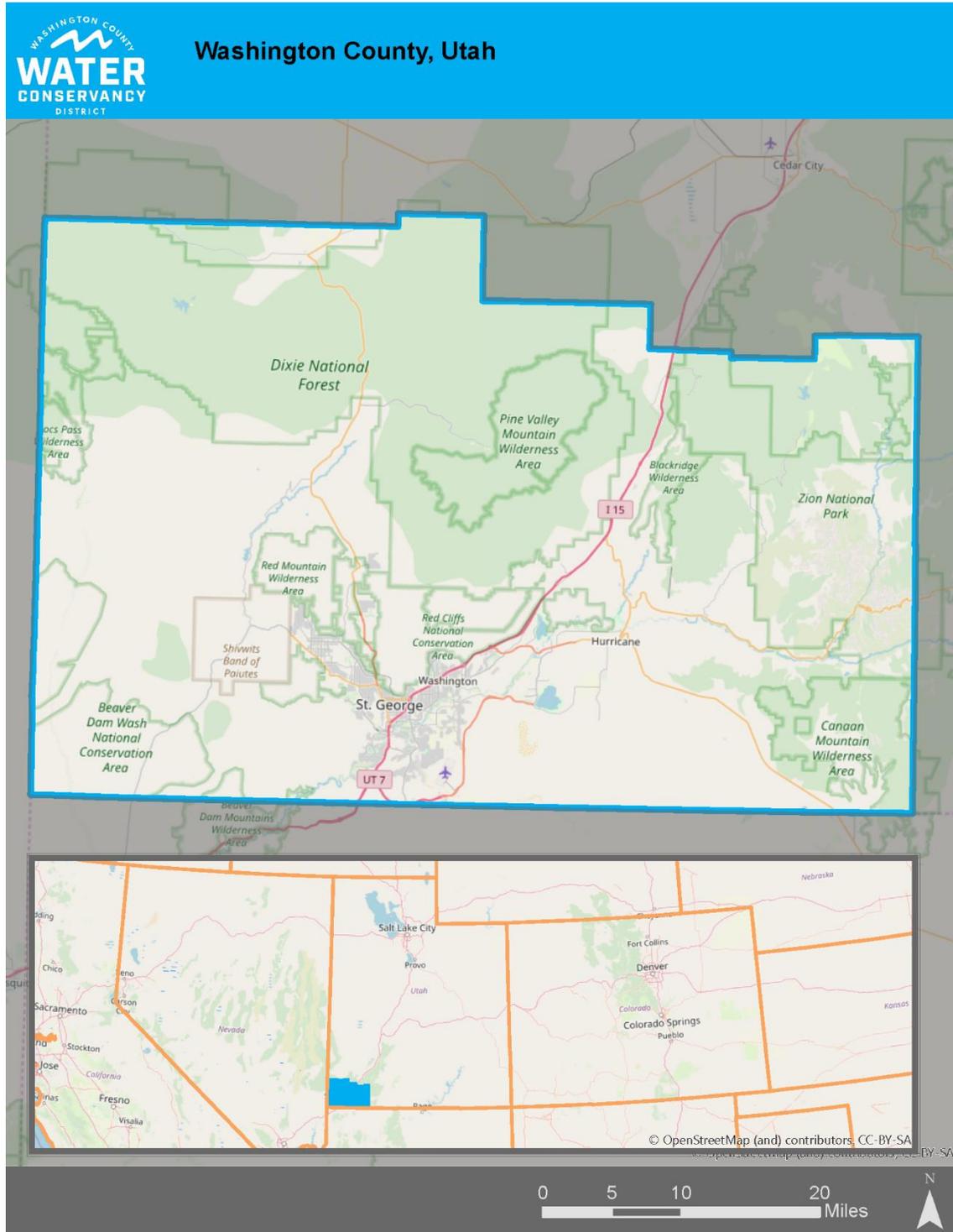
All these programs have been with assistance of Bureau of Reclamation funds. These grant opportunities help to extend limited funding to offer water saving programs and implement changes to facilities and structures to further save and manage water resources and reduce the environmental impacts of water needs and delivery.

Project Location

Specific information on the project location

Washington County is in the southwest corner of Utah. It is approximately 300 miles south of Salt Lake City and approximately 122 miles north of Las Vegas. The elevation varies from 2,178

to 10,365 feet. Washington County is made up of three major geographic areas; the Colorado Plateau in the east-northeast, the Great Basin in the northwest and the Mojave Desert in the south-southwest. The main city in county's latitude and longitude is: 37.116938, -113.571019.



Technical Project Description

Identify the problems and needs, how the project is intended to address the problems and needs, the expected outcomes.

Identify problem. In 2019, the state developed water conservation goals for its nine regions. Washington County is in the Lower Colorado River South region and has been given a target goal of 260 gallons per capita daily (gpcd) by 2030. This proposal will address the FOA of eligible projects identified in applicant's water conservation projects for Irrigation measures. This proposal is seeking for funding to continue existing program: Water Smart Irrigation Upgrades Rebates (WSIUR) offered to both single family, multi-family and CII.



Proposed project solution.

Water Smart Irrigation Upgrades Rebates (WSIUR).

This program provides rebates to upgrade irrigation systems with water saving devices. This activity could see a water savings of 24.17 AF annually. The

savings is estimated

with 100 single family participants. This program will rebate half the cost up to \$500 for residential. This program allows for half the cost of the project up to \$2,000 for commercial/Multifamily and half the cost up to \$5,000 for institutional per application. Qualifying devices are SWAT controllers, high-efficiency nozzles, pressure reducer valves, conversion of a spray station to drip and capping a station.

This funding will allow WCWCD to continue to provide rebates for applying water efficiencies to residential, multifamily and CII user's irrigation systems. These programs have allowed the district to surpass its previous goals in reducing water demand. Washington County by 14 percent by 2030. This is based on 2015 water use. To reach this goal, our water consumption needs to be reduced by 42 gallons per person per day. Below the measure is detailed.

The final step to apply for the rebate is to participate in a "water check" (an audit of the system to determine distribution uniformity and calculate precipitation rate). This water check educates the homeowner on appropriate irrigation practices as well as provide information to set

up the smart controller and/or adjust the time on zones to accommodate for new water efficient heads.

Evaluation Criteria

Evaluation Criterion A—Project Benefits.

(Project Benefits for Smart Irrigation Controller and High-efficiency nozzles. (Describe the expected benefits and outcomes of implementing the proposed project.)

WCWCD's Water Management and Conservation Plan lists all measures with a recommended implementation date in this proposal. The measures with their implementation dates are listed in this current water conservation plan. The Water Conservation Plan can be found at: <http://www.wcwcd.org/conservation/plan-tips-resources/>. The specific measure for this proposal will increase efficient use of outside water use. This measure will reduce water demand and delay the need of new water development projects. Its estimated 50 percent of the water applied outside is lost.

WCWCD's target plan is to reduce water use by 14% by the year 2030 based on 2015 water use numbers. Our water conservation goal for all programs will maximize our water resources by reducing water consumption by 42 gallons per person per day.

Any WaterSense approved devices for irrigation efficiency are considered for the rebate. This activity could see a water savings of 24.17 AF annually. The savings is estimated with 100 single family participants. This program will rebate half the cost up to \$500 for residential. This program allows half the cost for up to \$2,000 for commercial/Multifamily and up to \$5,000 for institutional per application (approximately 50 applications). Historical ET is approximately 60 inches a year. Qualifying WaterSense certified devices are SWAT controllers, high-efficiency nozzles, any pressure reducer valve, conversion of a spray station to drip and capping a station.

The conserved water from these programs will help to deal with increased water demand with the county's high population growth, the extended periods and harsher drought cycles, climate change issues and preservation of native fish and its habitat. In addition, this measure will reduce water demand and delay the need of new water development projects.

The major river in the county is the Virgin River. This river is home to 6 native fish. Two species are endangered, and the others are sensitive. The county's major river, Virgin River, is home to some of the rarest fish species on earth. The community has entered into the Virgin Spinedace Agreement (Found here: <https://www.wcwcd.org/wp-content/themes/wcwcd/pdf/enviormental/Virgin-Spinedace-Agreement.pdf>) and partners with the Virgin River Program to protect the native fish and its habitat while providing water to its residents in an environmentally and economically sound manner. Entering into this agreement allows the different agencies to work together to protect the native fish and its habitat while providing for the needs of the growing population.

Reducing our water demand through this measure will improve water reliability for the fish species as well as our county residents. Within our county, the reservation of the Shivwits Band of the Paiute tribe resides. Water saved through this measure will benefit all residence of the county.

Last year, Governor Herbert issued a state emergency due to drought with Washington County seeing its worse year. St. George City is located in Washington. This city is ranked to be in the nation's top five fastest growing cities. These programs help the county meet the water needs for the growing population. The 61 percent of the county's water is applied outside. Targeting outside water use with these irrigation measures brings the greatest water savings.

Evaluation Criterion B—Planning Efforts Supporting the Project

(Extent to which the proposed on -the-ground project is supported by an applicant's existing WMP, WCP, SOR...)

Washington County's current water supply comes from a combination of surface (direct diversions and reservoirs) and ground (springs and wells) water from the Virgin River watershed, a tributary of the Colorado River. This water source has been developed and used by the county since the area was founded and is reaching its full development capacity. The district's reliable annual water supply is 32,047 AF. With 52 percent of this water is used in the residential customer sector and the remaining 48 percent is used by the commercial, industrial and institutional customer base.

We have had these measures independently evaluated by Maddaus Water Management (MWM) and are identified in our current water conservation plan, updated in 2015. The programs are a part of a portfolio that MWM ran through their proprietary Decision Support System (DSS) model to verify the effectiveness of these measures and to assure they will help to meet the goal. Using the DSS model of an independent consultant, verifies the outcomes of these measures and confirms the ability of WCWCD to reach its target. The memo documenting these results are in **Exhibit C**.

Included in this proposal are letters of support (See Exhibit F) for offering these programs. It is through this collaboration of all the municipal partners that make it possible to offer this measure which benefit all communities in this county.

Since the district is primarily a wholesaler of water, it has a cooperative agreement with seven of the major municipal utility companies through the Regional Water Supply Agreement to provide this information. This agreement also promotes collaboration on the conservation programs administered by the District. Although the agreement doesn't have provisions for financial contribution, it does provide promotion of programs among the utility customer base and access to customer database on to evaluate success of programs. This agreement provides for cooperative and coordinated action with respect to all aspects of water management, including conservation of water. With this cooperation, the district is able to pull water use records from the rebate participants water account of the various municipal partners. This cooperation of the utilities will provide data for analysis and documentation of water savings through participants of this measure.

The purpose of these programs is to help meet the target of a reduction of per capita daily water use by 42 gallons by 2030.

Evaluation Criterion C—Project Implementation

(Extent to which the applicant is capable of proceeding with the proposed project upon entering into a financial assistance agreement.)

Project Planning.

WCWCD’s Water Management and Conservation Plan lists all measures with a recommended implementation date in this proposal. The measures with their implementation dates are listed in this current water conservation plan. The Water Conservation Plan can be found at: <http://www.wcwcd.org/conservation/plan-tips-resources/>.

The savings of this measure have been verified by an industry recognized independent consultant, Maddaus Water Management, using their decision support system. We have had these measures independently evaluated by Maddaus Water Management (MWM) and are identified in our current water conservation plan, updated in 2015. The programs are a part of a portfolio that MWM ran through their proprietary Decision Support System (DSS) model to verify the effectiveness of these measures and to assure they will help to meet the goal. Using the DSS model of an independent consultant, verifies the outcomes of these measures and confirms the ability of WCWCD to reach its target. The memo documenting these results are in Exhibit C.

This measure will have the same protocol for monitoring performance of our other measures by using the cooperation from regional water supply partners to pull water use records from the rebate participants water account of the various municipal partners. This cooperation of the utilities will provide data for analysis and documentation of water savings through participants of this measure.

Performance Measures.

The District has a cooperative working relationship with seven of the major municipal utility companies through the Regional Water Supply Agreement to provide this information. This agreement also promotes collaboration on the conservation programs administered by the District. Although the agreement doesn’t have provisions for financial contribution, it does provide promotion of programs among the utility customer base and access to customer database on to evaluate success of programs. This agreement provides for cooperative and coordinated action with respect to all aspects of water management, including conservation of water. With this cooperation, the district is able to pull water use records from the rebate participants water account of the various municipal partners. This cooperation of the utilities will provide data for analysis and documentation of water savings through participants of these rebates.

Readiness to Proceed.

Milestone/Task/Activity	
ACTIVITIES	Planned Dates
When contracts signed, finalize forms for program and get them approved through legal department.	10/1/2020 — 10/15/2020
Upload .pdf forms for the program on website. (Draft of these forms can be found in Exhibit D)	10/15/2020 — 10/15/2020
Work with inhouse communication department to put out press release of rebate program at the local paper, radio and television. Put information of program on	10/15/2020

website. Have public information ads give information on program. Send out notices to utilities to put in billings or city newsletters.	
Process rebates applications as needed. Set up calendar tasks to write and submit required progress reports as defined in the agreement and submit prior to deadline.	10/1/2020 — 12/31/2020
Assess remaining funds and if needed, have another push on advertising.	1/1/2021
Process rebates as needed.	1/1/2021
Evaluate funding availability	12/31/2021
Process rebates as needed.	1/1/2022
Two (2) months prior to program closing, evaluate funding availability. If necessary, make another final push in the media for programs.	7/1/2022
FINAL ACTIVITES	
Close program and prepare closing report and documents.	9/30/2022
Start collecting data of program participants where a post-year water use is collectable. The District has a cooperative working relationship with seven of the major municipal utility companies through the Regional Water Supply Agreement to provide this information.	12/1/2022

Evaluation Criterion D—Nexus to Reclamation

(Extent that the proposal demonstrates a nexus between the proposed project and a Reclamation project or activity.)

The Reclamation Reform Act of 1982 key component was to encourage and implement water conservation measures. Part of this act was to provide technical and financial assistance in the administration of water conservation plan. With about half of the county’s water resource comes from the Virgin River, a tributary to the Colorado River. This has direct association with several BOR reclamation projects. Implementation of these conservation measures helps to “to address the competing needs of our limited water resources”. Implementation of efficiency measures also fall within the tasks outlined as eligible in this FOA.

The key component of Bureau of Reclamation’s (BOR) management strategy is more efficient use of water. Its mission is to develop partnerships with local agencies “to address the competing needs of our limited water resources”. About half of the county’s water resource comes from the Virgin River, a tributary to the Colorado River. In the recent study published by the BOR: Colorado River Basin Water Supply and Demand Study, it identifies this area as one to experience a nine percent decrease in the Colorado River basin flows in the next 50 years due to

climate change. This report considers four options to resolve the imbalance of water supply and demand. One of those options is to reduce demand in water and energy.

WCWCD has been innovative in water conservation and is featured as part of the Case Study 4 located in Appendix 3B of the Innovative M&I Water Conservation and Reuse Programs Case Studies found in the final report of the Colorado River Basin Study. (Case study is found on page 135 of the 452-page report.)

Case Study 4

Water Conservation Easement

Washington County Water Conservancy District, Utah

Program Overview

Washington County Water Conservancy District (WCWCD) assesses impact fees for new development based on meter and lot size. If the lot is more than 10,000 square feet, the applicant can qualify for a minimum impact fee by signing a water conservation easement. This easement generally restricts the lot to 5,000 square feet of irrigated landscape. By assessing impact fees and requiring users to pay based on irrigated landscape area, incentives are provided for water conservation. Impact fees and water conservation easements apply to all culinary (potable) water users in the District’s wholesale and retail systems, including residential and commercial users, so the incentives to reduce outdoor water use by limiting irrigated landscape are widespread.

The water conservation easement program is part of WCWCD’s Regional Water Supply Agreement with its seven major municipal customers. This Agreement also encourages conservation by eliminating the “take-or-pay” contract incentive for municipal customers to sell water because they must pay for it whether or not it is used. Municipal customers pay only for water as it is delivered from the WCWCD system, allowing them to actively promote conservation without creating budget issues. Additional provisions call for water conservation rate structures, time of day water use and landscape ordinances, and maximum use of secondary irrigation and water reuse systems.

Main Program Elements

Costs

The Agreement provides that impact fees will be paid at the time of platting or building permit issuance. Impact fees are paid by developers or lot owners and must be segregated to pay for system costs as set forth in WCWCD’s Regional Water Capital Facilities Plan and Impact Fee Analysis. Accordingly, WCWCD does not budget separately for this program, but rather absorbs the costs of its operation into general staffing allocations.

Agency

Washington County Water Conservancy District

Project Status

2006 – Ongoing

Targeted Use Sector

Residential/Commercial, Industrial irrigated landscape

Estimated Annual Savings

2,000 acre-feet per year

Estimated Annual Cost

Budget included in general staffing allocations

Key Program Elements

- Increased awareness of developers and lot owners of the costs of irrigated landscape
- Limits outdoor watering with every new connection
- Financial incentives to reduce irrigated landscape and consequently outdoor water use.
- WCWCD and municipal customers partner under terms of the Regional Water Supply Agreement with its seven municipal customers to eliminate the “take or pay” contract



Impact Fees in New Developments
Source: Washington County Water Conservancy District

Implementation Resources

The water conservation easement, which limits landscape area, is a benefit offered to avoid additional impact fee charges. This option is part of the processing of impact fees and is explained in published materials and on WCWCD’s website (wccwd.org). Because many unique circumstances are presented at the time impact fees are processed, WCWCD staff works with developers and lot owners to find ways to make the water conservation easement work in varying

<https://www.usbr.gov/lc/region/programs/crbstudy/MovingForward/PhaseIReport/fullreport.pdf>
This proposal would work toward utilizing that option. This grant will allow our agency to meet future water needs from growth, extended periods of drought, and climate change through implementation of these water conservation programs outlined in its plan.

Evaluation Criterion E—Department of the Interior and Bureau of Reclamation Priorities
(Extent that the proposal demonstrates that the project supports Department of Reclamation priorities.)

As identified in DOI priorities, this proposal supports these in the following:

1. *Creating a conservation stewardship legacy second only to Teddy Roosevelt.* This proposal promotes a conservation stewardship by decreasing water use demand and allowing for better management of our natural resources.
2. *Utilizing our natural resources.* Water is the lifeblood of a community. Implementing best management practices such as demand management ensures a healthy economic security for this area.
3. *Restoring trust with local communities.* The district has partnered with the local municipalities to pool our water resources together to manage our needs collectively.
4. *Striking a regulatory balance.* The area is home to 6 native fish. Two species are endangered, and the others are sensitive. The county’s major river, Virgin River, is home to some of the rarest fish species on earth. The community has entered into the Virgin Spinedace Agreement (Found here: <https://www.wcwcd.org/wp-content/themes/wcwcd/pdf/enviornmental/Virgin-Spinedace-Agreement.pdf>) and partners with the Virgin River Program to protect the native fish and its habitat while providing water to its residents in an environmentally and economically sound manner. Entering into this agreement allows the different agencies to work together to protect the native fish and its habitat while providing for the needs of the growing population.
5. *Modernizing our infrastructure.* While this proposal does not affect the modernizing the district’s infrastructure, the district has made many advances in keeping up with technology in managing their facilities and distribution systems. This irrigation measure keeps up with the new technology that has advanced in irrigation application.



Virgin River Spinedace

BOR Priorities

1. *Increase Water Supplies, Storage, and Reliability under WIIN and other Authorities.* This project provides all the benefit of reliability and increase water supplies from using water efficiently.
2. *Streamline Regulatory Processes and Remove Unnecessary Burdens to Provide More Water and Power Supply Reliability.*
3. *Leverage Science and Technology to Improve Water Supply Reliability to Communities.* This project uses state-of-the-art technology to improve water efficiency at the end user.
4. *Address Ongoing Drought.*
5. *Improve the Value of Hydropower to Reclamation Power Customers.*
6. *Improve Water Supplies for Tribal and Rural Communities.* This project’s area encompasses the Shivwits Band reservation and many rural communities. All benefit from using water efficiently to expand water supplies further in the whole county and identified communities.
7. *Implementation of new Title Transfer authority pursuant to P.L. 116-9.*



Technical Project Budget

Funding plan and letter of commitment, budget proposal, budget narrative

Funding Plan and Letters of Commitment. Exhibit A includes a letter explaining the financial sovereignty of WCWCD. Exhibit B provides the General Fund Budget to show the revenues anticipated for 2020. The funds the district will use towards its contribution of this grant will not come from any federal partners.

Budget Proposal.

Summary of non-Federal and Federal funding sources

Funding Sources	Percent of Total Project Cost	Funding Amount
Non-federal entities: WCWCD	50%	\$75,000
Other federal entities:		
Requested Reclamation funding	50%	\$75,000
Total project Percentage/Funds	100%	\$150,000

2020 2022 Budget Worksheet

Water Conservation Program Irrigation Measures	Computation		Recipient Funding	Reclamation Funding	Total Cost
	\$/Unit and Unit	Quantity			
SALARIES AND WAGES	Not applicable		0.00	0.00	0.00
TRAVEL	Not Applicable		\$0.00	\$0.00	\$0.00
EQUIPMENT	Not Applicable		\$0.00	\$0.00	\$0.00
SUPPLIES/MATERIALS	Not Applicable				\$0.00
OTHER COSTS – Rebate Programs	\$150,000	1	75,000	75,000	\$150,000.00
CONTRACTUAL/CONSTRUCTION	Not Applicable				\$0.00
				Total Direct Costs	\$150,000.00
				Indirect Costs	\$0.00
				Total Estimated Project Cost	\$150,000.00

Budget Narrative

A. SALARIES AND WAGES/PERSONNEL —

The program manager of this measure is Julie Gillins, Water Conservation Manager. Grant funds will not go towards her salary.

B. FRINGE BENEFITS.

No fringe benefits will be paid by this grant.

C. Travel. No travel will be paid for by this grant.

D. Equipment. No Equipment will be paid by this grant.

E. Supplies/Materials. No Supplies/Materials will be funded by this grant.

F. Consultants/Contracts There will be no consultants/contracts funded with this grant.

G. Environmental and Regulatory Compliance Costs. Based on the nature of the water conservation programs, there is no need to include Environmental and Regulatory Compliance Costs. These costs will not be incurred implementing these two programs. Therefore, no costs are listed in the budget worksheet.

H. Other Costs. The Water Smart Irrigation Upgrade Rebate has an average of \$300 per rebate and can accommodate approximately 200 applications for residential (an average of \$250per rebate) and 50 applications (an average of \$2,000 per rebate) of CII sector.

Calculations for Estimations

Water Smart Irrigation Upgrade Rebate (WSIUR)		
# of Rebates	Average Rebate	Total
200	\$250	\$50,000
50	\$2,000	100,000
	Total	\$150,000

I. Indirect Costs. No indirect costs will be funded by this grant.

REQUIRED PERMITS OR APPROVALS

Not applicable.

Exhibit A: FUNDING PLAN

Exhibit A

2020 Approved Budget

December 4, 2019



WASHINGTON COUNTY WATER CONSERVANCY DISTRICT GENERAL FUND			
	Actual 12/31/2018	Estimated 12/31/2019	Adopted 2020 Budget
Revenues			
Property Taxes	10,241,189	11,515,613	12,500,000
Property Taxes for SG Redevelopment	-	290,424	308,140
In Lieu of Fees	758,604	1,073,371	1,138,846
Prior Year Taxes	437,810	911,464	967,064
Interest Income	1,733,079	1,776,331	193,412
Other Income	359,242	425,569	212,200
Septic Administration Fees	11,408	15,360	10,610
Grants From Bureau Rec		100,000	106,100
Total Revenues and Other Sources	\$ 13,541,332	\$ 16,108,132	\$ 15,436,372
Expenditures			
Payroll Taxes	16,608	25,340	30,000
Wages	892,176	1,189,243	1,409,582
State Retirement	214,224	299,878	344,825
Insurance and Bonds	6,725	8,254	22,571
Health Insurance	204,145	247,170	450,925
Board Quarterly Expense	7,000	20,250	20,064
Board Expenses	24,916	58,686	62,699
Legal	358,385	633,178	700,000
Accounting	40,011	40,330	56,429
Internet Technology and computers	110,181	205,265	185,675
Office	35,515	36,460	42,440
Building Maintenance	42,498	43,886	62,699
Printing	-	1,260	36,074
Redevelopment fees to St. George City	204,717	274,218	308,140
New Project Development	-	-	1,485,400
Public Relations/Education	46,343	140,529	275,877
Telephone	26,092	24,653	42,440
Cloud Seeding	26,381	26,381	36,523
Travel	27,105	47,063	48,699
Miscellaneous	-	208	11,706
Seminars and Training	44,809	70,306	60,000
Water Rights	800	615,880	689,694
Utilities	22,729	24,139	41,381
Fees and Permits	-	1,439	6,270
Service Charge	1,530	420	6,269
Auto Expense	12,816	14,970	17,045
Capital Expenditures	63,578	(21,942)	75,000
Water Conservation	408,181	165,786	450,000
Total Expenditures	\$ 2,837,465	\$ 4,193,248	\$ 6,978,428
Other Uses			
Contribution to Water Fund	3,400,000	3,400,000	3,400,000
Contribution to Hydro Fund	-	-	-
Contribution to Capital Projects	4,276,364	4,532,392	4,073,242
Contribution to Debt Service Fund	-	-	984,702
Total Other Uses	7,676,364	7,932,392	8,457,944
Total Expenditures and Other Uses	\$ 10,513,829	\$ 12,125,640	\$ 15,436,372
Fund Balance			
CY Contribution to Fund Balance			\$ 0

Exhibit B: LETTER OF COMMITMENT



January 24, 2020

Bureau of Reclamation
Financial Assistance Support Section
Attn: Ms. Irene Hoiby
Mail Code: 84-27814
PO Box 25007
Denver, CO 80225

This letter explains the financial ability of Washington County Water Conservancy District (WCWCD). WCWCD was established to conserve, develop, manage and stabilize water supplies within the county. WCWCD is a political subdivision of the State of Utah organized and existing under the Water Conservancy District Act.

WCWCD is a local government entity with a property tax base and revenues from hydroelectric power and water sales. This provides adequate monies for the cost share of the grant proposal. Therefore, WCWCD is able to fulfill the obligation of the costs identified in this funding request in this proposal.

WCWCD is committed to conserving the limited and unpredictable water resources of this county. Grant opportunities like these allow projects, such as these, to be implemented in this area. The partnership with Bureau of Reclamation has proved beneficial to this local community in the past and WCWCD looks forward to future opportunities.

Respectfully,

Zachary Renstrom
General Manager

Exhibit C: FINAL MWM MEMO SUPPORT OF WATER SAVINGS

Exhibit D: REBATE APPLICATION FORMS



533 E Waterworks Drive
 St. George, UT 84770
 435.673.3617
 wcwcd.org

Water Smart Irrigation Upgrade Rebate Application Existing Single-Family Residential Form

October 1, 2020 through September 30, 2022

Important: Please read this application carefully. It is the applicant’s responsibility to complete the application and submit it with the required documentation. Rebates are available only for EXISTING sprinkler systems of single-family residential homes located in Washington County. The application must be signed by the customer of the utility account. Rebates will not be paid for ineligible or incomplete applications. Rebates will be paid in the form of a credit issued on the utility account. **The maximum rebate amount per property is \$500.**

Funding is limited and submitting a rebate application does not guarantee you will receive a rebate. Rebates will be issued on a first-come, first-serve basis contingent upon fulfilling requirements of rebate and until funding is exhausted. Rebate applications are available online and may also be available at retail stores. Rebate program is subject to change. Rebate amount will be credited to utility account. All products purchased for rebate must be new.

Customer Information

Water Provider:	Account #:
Customer Name:	How did you find out about the program (please circle all that apply)?
Daytime Phone:	Radio TV Spectrum SGNews.org
Alt. Phone:	SU Family & Kids Email Website
Other: _____	
Service Address:	City:
Mailing Address (if different than service address):	City:
Email Address:	
If property is a rental and rebate is to go to landlord, please provide the following information:	
Landlord Name:	Phone:
Mailing Address:	

Date of Post-Inspection	Process Date	Rebate Amount

Irrigation System Upgrade Information*

Total # of zones/stations/valves: _____

Installation done by: WaterSense/QWEL Landscape Professional or Property owner

*** Rebate is for existing irrigation systems only; new systems or expansions are not eligible.**

New Equipment to be Rebated

Pressure Regulating Valve (Limit 1 valve.)

Cost: _____

Rebate Amt: _____
(Cost up to \$100)

Station changed to high-efficiency nozzles.

(The entire station must be converted to high-efficiency nozzles. See wcwcd.org for qualifying devices.)

of valves converted _____

Cost _____

Rebate Amt: _____
(Cost up to \$60 per station)

Conversion of a spray zone to drip (must include filter and pressure regulating components).

of valves converted _____

Cost _____

Rebate Amt: _____
(Cost up to \$60 per station)

Capping a station (station valve must be removed and kept for final inspection.

Cap on the system must remain visible until final inspection is completed. Limit 2 stations.)

of valves converted _____

Cost _____

Rebate Amt: _____
(\$60 per station)

Certified Landscape Irrigation Audit (must be performed by an active WaterSense/QWEL Landscape Professional)

Auditor's Name _____

Rebate Amt: _____
(the cost up to \$75)

Total Amount: _____
(Maximum Amount is \$500)

Application Procedure:

Qualifying devices or service for rebates are:

- High-efficiency sprinkler nozzles (www.wcwcd.org/wp-content/uploads/2012/08/Qualified-High-efficiency-Nozzles.pdf)
- Pressure reducer valves
- Conversion of a spray zone to drip
- The capping of a station (station valve must be removed and kept for final inspection. Cap on the system must remain visible until final inspection is completed.)
- Install a pressure reducer valve on the irrigation system.
- The cost for a WaterSense Landscape Professional system audit only for up to \$75.

1. Complete upgrades as approved either by hiring a *WaterSense/QWEL* landscape professional (<http://www.wcwcd.org/conservation/find-a-landscaper/>); or property owner may do the work themselves.
2. After work is complete have a landscape irrigation audit performed on the new upgraded system by a *WaterSense/QWEL* landscape professional or participate in a free water check (program only runs through May 15 thru September 30). If WCWCD personnel performs the post site visit, paperwork can be collected at time of visit.
3. Please make sure application is completed before submitting.
 - a. Include the following supporting documentation and attach it to the application:
 - Original and itemized receipt or invoice which clearly details:
 - Date (between October 1, 2020 and September 30, 2022)
 - Retailer/Landscape company name, address and phone number.
 - Include copy of the Landscape Irrigation Audit/Water Check Report with receipt.
 - b. Review acceptance terms and **sign application**.
 - c. Keep a copy of documents for your records.
4. Rebates will be made as a credit to your utility account. Please allow 6 to 8 weeks after a successful post-inspection for rebate to be completed.

Customer Agreement:

I have read and understand the Terms and Conditions for Participation. I will provide receipts and documentation that qualifies me for the rebate program. I understand that WCWCD reserves the right to cancel or modify the program without notice, and that rebates are subject to funding availability. I waive and release WCWCD, participating water agencies, and their contractors or agents from any and all claims and causes of action arising out of the installation or use of qualified products. I understand and agree that my water utility account may be monitored by WCWCD for the sole purpose of evaluating prior and post rebate water use in order to determine the effectiveness of the program. I understand that submission of this application DOES NOT relieve me of my obligation to pay my utility account on time and in full while waiting for the rebate to be processed.

Customer Signature: _____ Dated: _____

WCWCD is not responsible if your retailer or contractor provides inaccurate information about the amount and/or conditions of the actual rebate and for devices that are mislabeled or misrepresented by dealers regarding rebate qualifications.

For more information on this program, visit www.wcwcd.org or contact Julie at 435.673.3617 or julie@wcwcd.org.

Smart Controller Rebates for residential homes are available through the state at www.utahwatersavers.com.



533 E Waterworks Drive
 St. George, UT 84770
 435.673.3617
 wcwcd.org

Water Smart Irrigation Upgrade Rebate Application
Commercial/Multi-family Form
October 1, 2020 through June 30, 2022

Important: Please read this application carefully. It is the applicant’s responsibility to complete the application and submit it with the required documentation. Rebates are available only for EXISTING properties located in Washington County. The application must be signed by the customer of the utility account. Rebates will not be paid for ineligible or incomplete applications. Rebates will be paid in the form of a credit issued on the utility account. **The maximum rebate amount per application is \$1,000, not to exceed half the cost of the entire project or \$10,000.**

Funding is limited and submitting a rebate application does not guarantee you will receive a rebate. Rebates will be issued on a first-come, first-serve basis contingent upon fulfilling requirements of rebate and until funding is exhausted. Rebate applications are available online and may also be available at retail stores. Rebate program is subject to change. Rebate amount will be credited to utility account. All products purchased for rebate must be new.

Customer Information

Water Provider:	Account #:
Customer Name:	How did you find out about the program (please circle all that apply)? Radio Spectrum StGNews.org Email Website Other: _____
Daytime Phone:	
Alt. Phone:	
Service Address:	City:
Mailing Address (if different than service address):	City:
Email Address:	
If a rental and improvements made by landlord, please provide the following information:	
Landlord Name:	Phone:
Mailing Address:	

Date of Post-Inspection	Date Processed	Rebate Amount

Pre-approval (required to qualify for rebate)

Estimated Rebate Amount: _____ Preapproval Accepted: _____ Date: _____

All work and documents must be completed and submitted before September 30, 2022.

Irrigation System Upgrade Information*

Total # of zones/stations: _____

Installation done by: WaterSense/QWEL Landscape Professional

*** Rebate is for existing irrigation systems only; new systems or expansions are not eligible.**

New Equipment to be Rebated

Pressure Regulating Valve

Cost: _____

Rebate Amt: _____
(1/2 the cost up to \$300)

Station changed to high-efficiency nozzles.

(The entire station must be converted to high-efficiency nozzles. See <https://lookforwatersense.epa.gov/Product-Search-Results-Sprinkler.html> for qualifying devices.)

of valves converted _____

Cost _____

Rebate Amt: _____
(\$60 per station)

Conversion of a spray zone to drip (must include filter and pressure regulating components).

of valves converted _____

Cost _____

Rebate Amt: _____
(\$60 per station)

Capping a station (station valve must be removed and kept for final inspection.

Cap on the system must remain visible until final inspection is completed. Limit 2 stations.)

of valves converted _____

Cost _____

Rebate Amt: _____
(\$60 per station)

SWAT Controller (Any controller that irrigates using ET or soil moisture content. Limit 1 controller.)

Cost _____

Rebate Amt: _____
(1/2 the cost)

Certified Landscape Irrigation Audit (ONLY spray valves need an audit and the audit must be performed by an active WaterSense Landscape Professional)

Auditor's Name _____

Rebate Amt: _____
(the cost up to \$100 per application)

Total Amount: _____

(Maximum Amount is \$1,000 not to exceed 1/2 the cost of the total project)

Program Specifics:

1. Applicant must be pre-approved. Request a pre-approval by calling Julie at 435.673.3617. If needed, an appointment will be scheduled for a site visit with a WCWCD representative.

Qualifying devices or service for rebates are:

SWAT (Smart) controllers. (Controller must have capability to irrigate using to ET or soil moisture content.)

High-efficiency sprinkler nozzles (see wcwcd.org)

Pressure reducer valves

Conversion of a spray zone to drip

Capping of a station (station valve must be removed and kept for final inspection; cap on the system must remain visible until final inspection is completed.)

Install a pressure reducer valve on the irrigation system.

Cost for a WaterSense Landscape Professional system audit only for up to \$100 per application (only necessary for spray valves).

2. After pre-approval, complete upgrades as approved by hiring a *WaterSense/QWEL* landscape professional (see wcwcd.org)
3. After work is complete have a landscape irrigation audit performed on the new upgraded system by a *WaterSense/QWEL* landscape professional or participate in a free water check (program only runs through May 15 thru September 30). If audit performed by *WaterSense/QWEL* landscape professional, call for a post-inspection. Otherwise, WCWCD personnel can collect the paperwork needed for processing.
4. Please make sure application is completed as directed before submitting.
 - a. Include the following supporting documentation and attach it to the application:
 - Original and itemized receipt or invoice which clearly details:
Date (between *October 1, 2020 through September 30, 2020*)
Retailer/Landscape company name, address and phone number.
 - Include copy of the Landscape Irrigation Audit/Water Check Report with receipt.
 - b. Review acceptance terms and **sign application**.
 - c. Keep a copy of documents for your records.
5. Rebates will be made as a credit to your utility account. Please allow 6 to 8 weeks after a successful post-inspection for rebate to be completed.

Customer Agreement:

I have read and understand the Terms and Conditions for Participation. I will provide receipts and documentation that qualifies me for the rebate program. I understand that WCWCD reserves the right to cancel or modify the program without notice, and that rebates are subject to funding availability. I waive and release WCWCD, participating water agencies, and their contractors or agents from any and all claims and causes of action arising out of the installation or use of qualified products. I understand and agree that my water utility account may be monitored by WCWCD for the sole purpose of evaluating prior and post rebate water use in order to determine the effectiveness of the program. I understand that submission of this application DOES NOT relieve me of my obligation to pay my utility account on time and in full while waiting for the rebate to be processed.

Customer Signature: _____ Dated: _____

WCWCD is not responsible if your retailer or contractor provides inaccurate information about the amount and/or conditions of the actual rebate and for fixtures that are mislabeled or misrepresented by dealers regarding rebate qualifications.

For more information on this program, visit www.wcwcd.org or contact Julie at 435.673.3617 or julie@wcwcd.org.

Exhibit E: RESOLUTION

Exhibit E

RESOLUTION AUTHORIZING SUBMISSION OF A WATERSMART GRANT PROPOSAL TO THE U.S. BUREAU OF RECLAMATION AND AUTHORIZING A COOPERATIVE AGREEMENT WITH RECLAMATION AND GRANT MATCH FUNDS

WHEREAS, Washington County Water Conservancy District (District) strives to efficiently manage and conserve the use of the available water resources.

WHEREAS, the District has already achieved a 26 percent reduction in water use since 2000 and is targeting further reductions.

WHEREAS, the District's water conservation plan identifies rebate programs that promote adoption of technologies, practices and devices that yield improvements in efficient use and management of water as a measure the District will engage in to enhance water conservation.

WHEREAS, the District finds these incentives encourage action toward efficient use of water.

WHEREAS, the District desires to continue its rebate programs for residents of Washington County.

WHEREAS, a WaterSMART grant for small-scale water efficiency programs, including rebate programs, is available through the United States Bureau of Reclamation (Reclamation) for entities that will provide matching funds and that will work with Reclamation to meet the established deadlines for entering into a cooperative agreement.

WHEREAS, the grant proposal provides that the District will match grant funds up to \$75,000 for the grant period of July 1, 2020 through June 30, 2022.

WHEREAS, the District is authorized by law, including but not limited to the Utah Interlocal Cooperation Act (Utah Code Sections 11-13-101 *et seq.*), to enter into a cooperative agreement with Reclamation.

NOW THEREFORE, BE IT RESOLVED by the Washington County Water District Board of Trustees that:

- A. If selected for the WaterSMART grant, the District is authorized to enter into an agreement with Reclamation regarding the attached grant proposal.
- B. The attached grant proposal that will be submitted to Reclamation has been reviewed and is approved.
- C. If selected for the WaterSMART grant, the District will provide the amount of match funding specified in the grant proposal funding plan in the amount of \$75,000; and
- D. If selected for the WaterSMART grant, the District will work with Reclamation to meet established deadlines for entering into a cooperative agreement to provide progress reports on expenditures key milestones completed.

DATED this 5th day of Feb 2020.



Ed-Bowler, Chairman of the Board

ATTEST:



Roberta McMullin, Secretary

Exhibit F: LETTERS OF SUPPORT



St. George

THE BRIGHTER SIDE

February 4, 2020

Bureau of Reclamation
Financial Assistance Support Section
Attn: Ms. Irene Hoiby
PO Box 25007, MS 84-27814
Denver, CO 80225

Dear Ms. Hoiby:

The City of St. George Water Services Department is pleased to offer support for the Washington County Water Conservancy District's (WCWCD) water conservation programs.

The city has approximately 29,500 connections and serves a population of approximately 87,000. During the irrigation season approximately 60 percent of water consumption is for outdoor purposes. A program targeting outdoor water use will greatly assist the goal to reduce water consumption and waste.

The programs offered by WCWCD benefit the city water customers as well as customers throughout the county. WCWCD programs complement the city's water conservation efforts to improve water efficiency by:

- Helping to reduce overall demand during the high use months of the irrigation season
- Reducing the peak system demand
- Increasing efficiency which results in a drop of per capita use
- Educating customers regarding the importance of using water wisely

I look forward to continued incentive opportunities in developing a community-wide conservation ethic.

Regards,

Scott Taylor
Water Services Director

CITY OF ST. GEORGE



City of Hurricane

Water Department
Ken Richins, Superintendent

Bureau of Reclamation
Financial Assistance Support Section
Attn: Ms. Irene Hoiby
PO Box 25007, MS 84-27814
Denver, CO 80225

January 31, 2020

Dear Ms. Hoiby:

Hurricane City is pleased to offer support for the Washington County Water Conservancy District's (WCWCD) water conservation programs.

The city has approximately 7,000 Connections and serves a population of approximately 20,000. During the irrigation season approximately 60 percent of water consumption is for outdoor purposes. A program targeting outdoor water use will greatly assist the goal to reduce water consumption and waste.

The programs offered by WCWCD benefit the city water customers as well as customers throughout the county. WCWCD programs complement the city's water conservation efforts to improve water efficiency by:

- Helping to reduce overall demand during the high use months in the irrigation season
- Reducing the peak system demand
- Increasing efficiency which results in a drop of per capita use
- Educating customers regarding the importance of using water wisely

I look forward to continued incentive opportunities in developing a community-wide conservation ethic.

Regards,

Ken Richins, Water Superintendent