

2021

LANDSCAPING REBATE PROGRAMS

PROJECT MANAGER:

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Technical Proposal and Evaluation Criteria

Executive Summary

September 17, 2020
Jordan Valley Water Conservancy District
West Jordan, Salt Lake, Utah

Jordan Valley Water Conservancy District (JVWCD), a regional drinking water supplier in Salt Lake County, Utah, is administering two rebate programs to incentivize water-efficient landscaping within its service area. As a result, JVWCD expects to replace 1,720,832 square feet of inefficient landscaping and reduce outdoor water demand on its system by 79 Acre Feet in two years.

Project Length and End Date

The project period described in this application will begin July 2021 and end June 30, 2023.

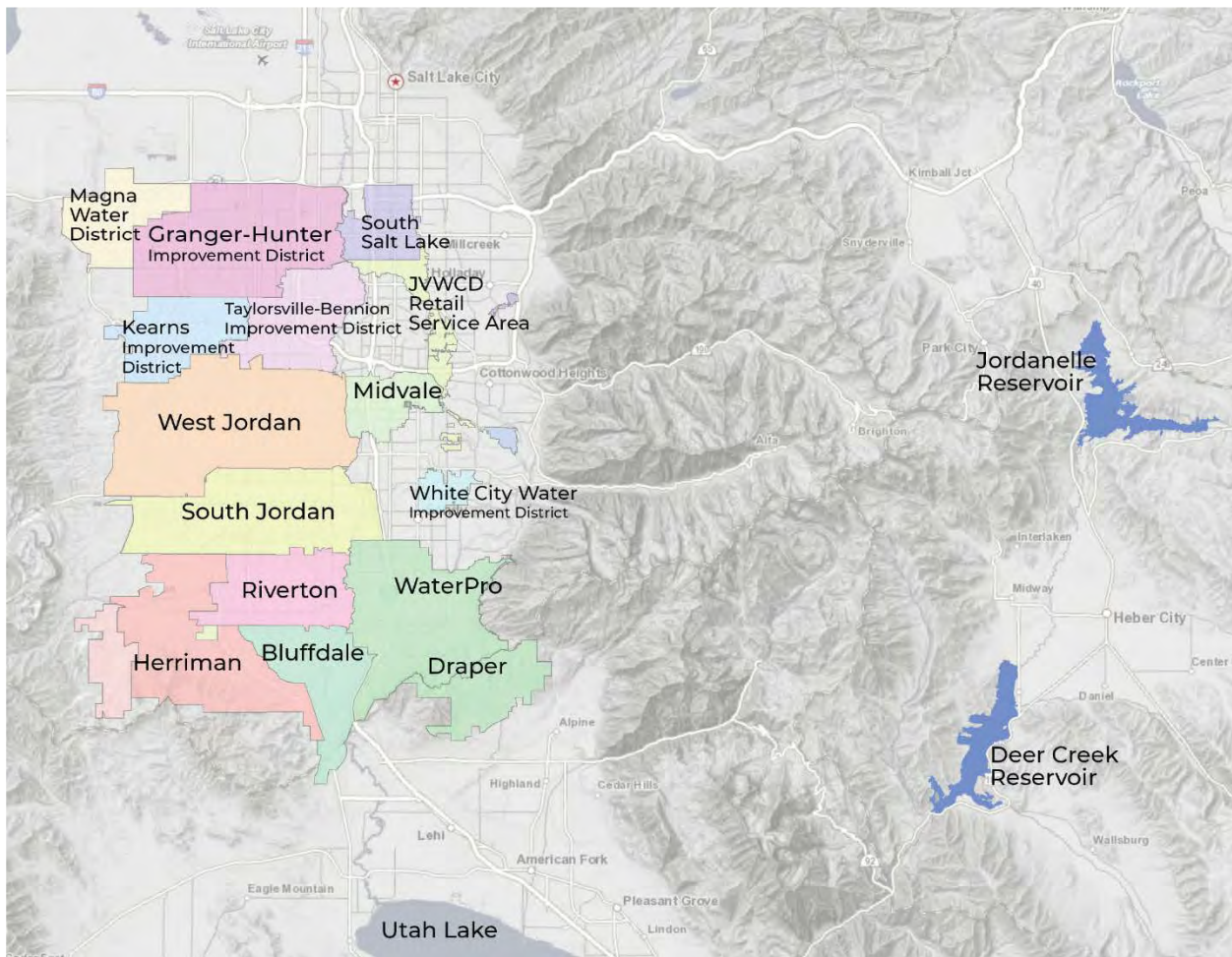
Federal Facilities

Work for the proposed project will not take place on a federal facility.

Project Location

Rebates will be offered within JWCD's service area, which includes the following cities and water providers: Bluffdale City, Draper City, Granger-Hunter Improvement District, Herriman City, Kearns Improvement District, Magna Water District, Midvale City, Riverton City, City of South Jordan, City of South Salt Lake, Taylorsville-Bennion Improvement District, Waterpro Inc., City of West Jordan, and White City Water Improvement District. Portions of Holladay City, Cottonwood Heights, Murray City, Millcreek, and Sandy will also be included. A map of JWCD's service area is provided below.

Map of JWCD's Service Area in Salt Lake County, Utah:



Technical Project Description

JVWCD will incentivize water-efficient landscaping within its service area through two separate rebate programs:

Flip Your Strip Rebate

Homeowners receive \$1.00 per square foot for replacing lawn park strips with water-efficient landscaping or \$1.25 if they have attended a free park strip class. Because park strips require minimal landscape design and are typically irrigated on their own zone, they provide an easy place for homeowners to begin the transition to a more water-efficient yard.

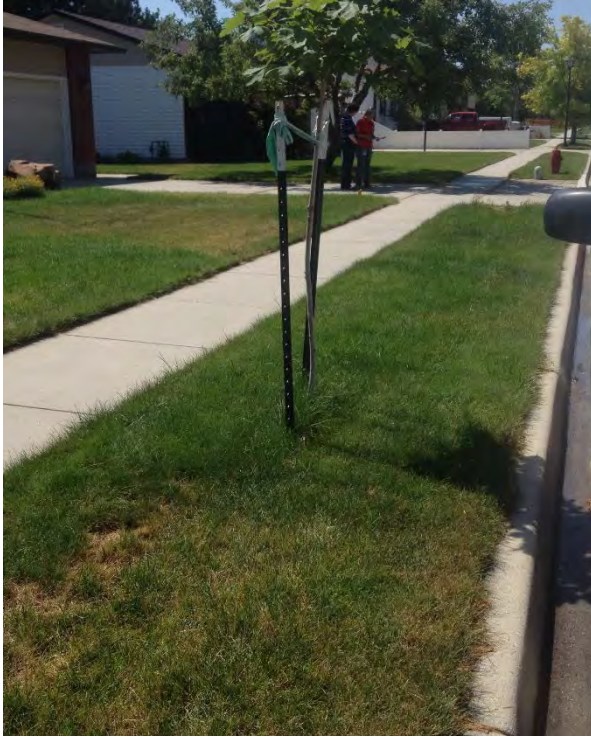
Program Requirements:

- Park strips must have existing lawn before participation.
- Finished projects must remove all lawn from the park strip.
- Finished projects must have 50% plant coverage at maturity, drip irrigation, and 3-4 inches of mulch.
- Plant height may not exceed 24 inches at maturity.
- Drip irrigation systems should have a pressure regulator and filter installed.
- Drip irrigation systems must be on their own zone.
- Drip emitters must be rated at 5 gallons per hour or less.
- Bubblers, micro-spray emitters, and soaker hoses are not eligible for this program.
- Participants agree to never reinstall lawn in their park strip for as long as they own the home.

Program Process:

1. Participants create an account on Utahwatersavers.com and apply for Flip Your Strip.
2. JVWCD staff conducts a pre-conversion site visit to verify project square footage and to confirm the existence of lawn.
3. Participants may attend a free park strip class to increase their rebate amount. This class will teach best practices for park strip design and installation.
4. Participants install a water-efficient park strip.
5. JVWCD staff conduct a final site visit to verify that all requirements have been met.
6. Participants receives a rebate up to \$1.25 per square foot.

Example Flip Your Strip Before and After:



Localscapes Rewards Rebate

Homeowners receive rebates for installing water-efficient landscaping projects that are at least 400 square feet. To qualify, participants must submit a landscape plan for their entire yard and receive training in the Localscapes approach to landscaping (www.localscapes.com). Rebate amounts are determined the actual square footage of irrigated and non-irrigated areas.

Program Requirements:

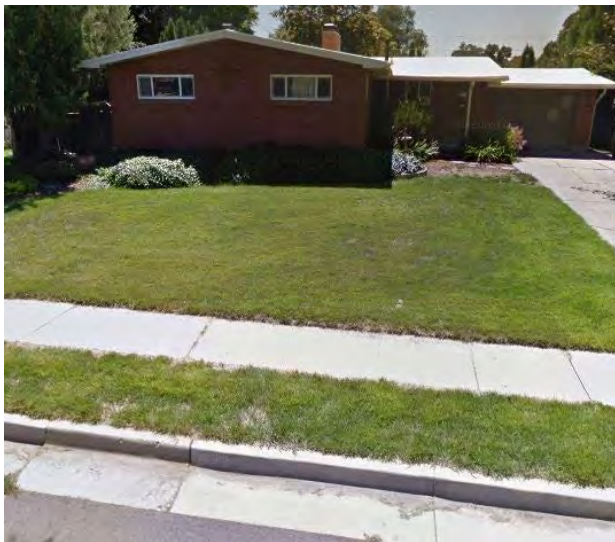
- Lawn cannot exceed 35% of the total landscaped area and should be unobstructed by trees, planting beds, playsets, or other elements.
- Lawn cannot be used on a slope with more than a 25% grade.
- Lawn must be irrigated separately from other areas of the landscape.
- Planting beds must be drip irrigated.
- All lawn areas must be a minimum of 8 feet wide at their narrowest point.
- Hardscaped areas are not irrigated.
- Activity Zones like children's play areas, fire pits, vegetable gardens, and hot tubs are not placed in lawn areas.
- Lawn is not used for paths and paths are not irrigated.
- Lawn is not used in the park strip.

- Participants agree to never reinstall lawn for as long as they own the home.

Program Process:

1. Participants take a Localscapes class online or in person.
2. Participants create an account on Utahwatersavers.com and apply for Localscapes Rewards. Participants provide before photos of their project area and a landscape plan.
3. JVVCD staff provide feedback on the landscape plan and approve the project.
4. Homeowners install their water-efficient project.
5. JVVCD conducts a final site visit to verify proper installation and to calculate the project's actual square footage.
6. Participant receives a rebate check in the mail. Payment is based on square footage of irrigated and non-irrigated areas.

Example Localscapes Rewards Project Before and After:



Evaluation Criteria

Evaluation Criteria A—Quantifiable Water Savings

Estimated Water Savings

JVWCD estimates an immediate water savings of 79 acre-feet as a direct result of this project. Assuming an average landscape life of 20 years, this project could lead to total water savings of 1,580 acre-feet.

Current Losses

JVWCD's rebate programs reduce the amount of water lost to maintaining inefficient landscaping. Through program participation, homeowners can significantly reduce the water needs of their landscape.

Support of Estimated Water Savings:

Estimated water savings for JVWCD's rebate programs were calculated by subtracting the estimated watering requirement of completed projects from the estimated watering requirement prior to program participation. To make these estimates, JVWCD used the equation for Simplified Landscape Irrigation Demand Estimation (shown below). Evapotranspiration data used in these calculations was collected by JVWCD for its service area and aggregated over a year.

Simplified Landscape Irrigation Demand Estimation (SLIDE):

$$\text{Water Demand (gal.)} = ET_o \times PF \times LA \times 0.623$$

- ET_o is inches of historical average of evapotranspiration data in inches.
- PF is the Plant Factor established for each landscaping material used. In general, lawn has a plant factor of 0.8 and perennials have a plant factor of 0.5.
- LA is the Landscape Area, in square feet.
- 0.623 is the factor to convert inches of water to gallons.

Adjustments for Irrigation Efficiency:

Because irrigation is not 100% efficient, water demand was adjusted to reflect the actual amount of water that would be consumed by a specific landscape type. Calculations for the water consumption of various landscaping types are displayed in the table on the next page.

Landscaping Type	Irrigation Efficiency	Water Demand (Inches)	Adjusted Water Consumption (Inches)	Water Consumption (Gal/Sq. ft.)
Lawn (Overhead Spray)	53%	24	45.28	28.21
Lawn (MP Rotators)	71%	24	33.80	16.67
Planting Beds (Inline Drip)	100%	19	19.00	11.84
Planting Beds (Point Source Drip)	100%	19	19.00	12.46

Project Estimations:

The estimated area of water-efficient landscaping to be installed through the Locascapes Rewards Program is 1,642,650 square feet, with individual projects averaging 6,990 square feet. The average gallons saved per project is 101,742 per year.

The estimated area of lawn to be replaced through the Flip Your Strip Program is 78,182 square feet, with each project averaging 400 square feet. The average gallons saved per project is 8,900 per year.

Flip Your Strip Verification:

Site audits will be conducted before projects are completed to verify the square footage of lawn to be removed. A second visit after the project is completed will allow JWCD staff to verify proper installation of water-efficient plantings and irrigation.

Locascapes Rewards Verification:

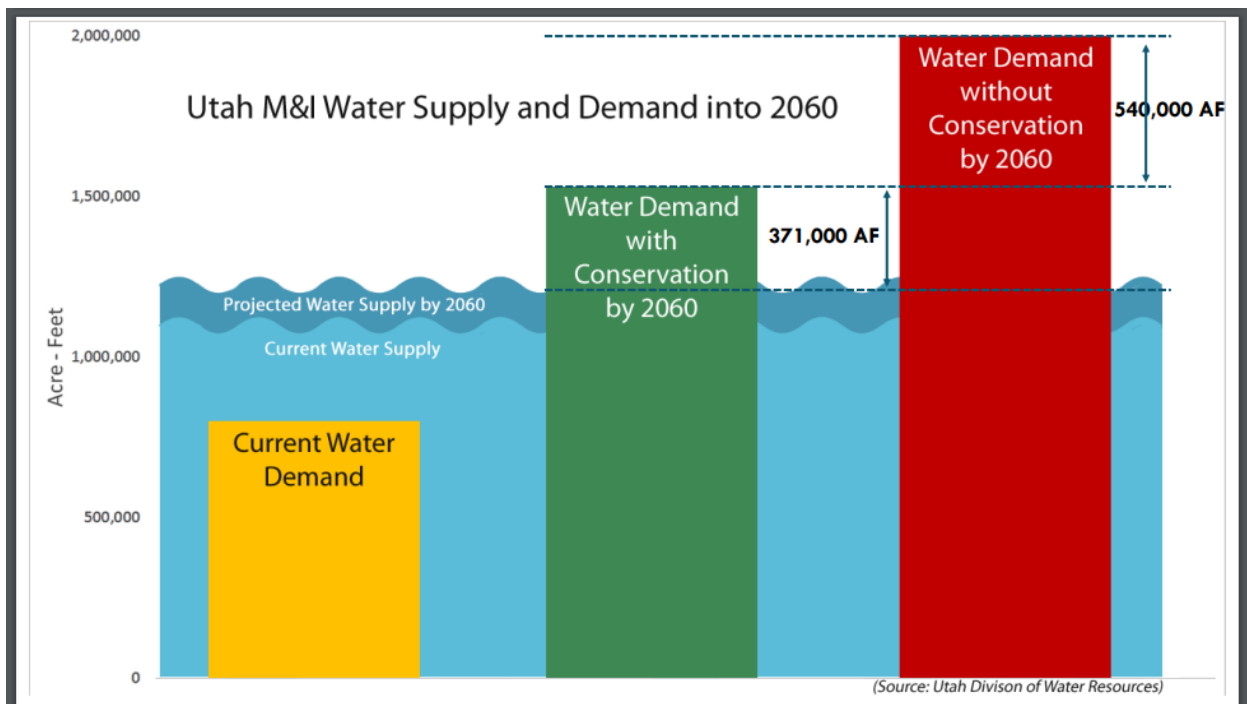
Participants in the Locascapes Rewards Program must submit before photos of their project and a site plan showing the landscape's square footage. JWCD will verify measurements of the landscape during a site visit following the landscape's installation.

Evaluation Criterion B—Water Supply Reliability

In the face of rapid population growth, rising temperatures, and limited water supplies, delivering water to JWCD's service area is a continual challenge. Several factors impacting JWCD's water supply reliability are listed below:

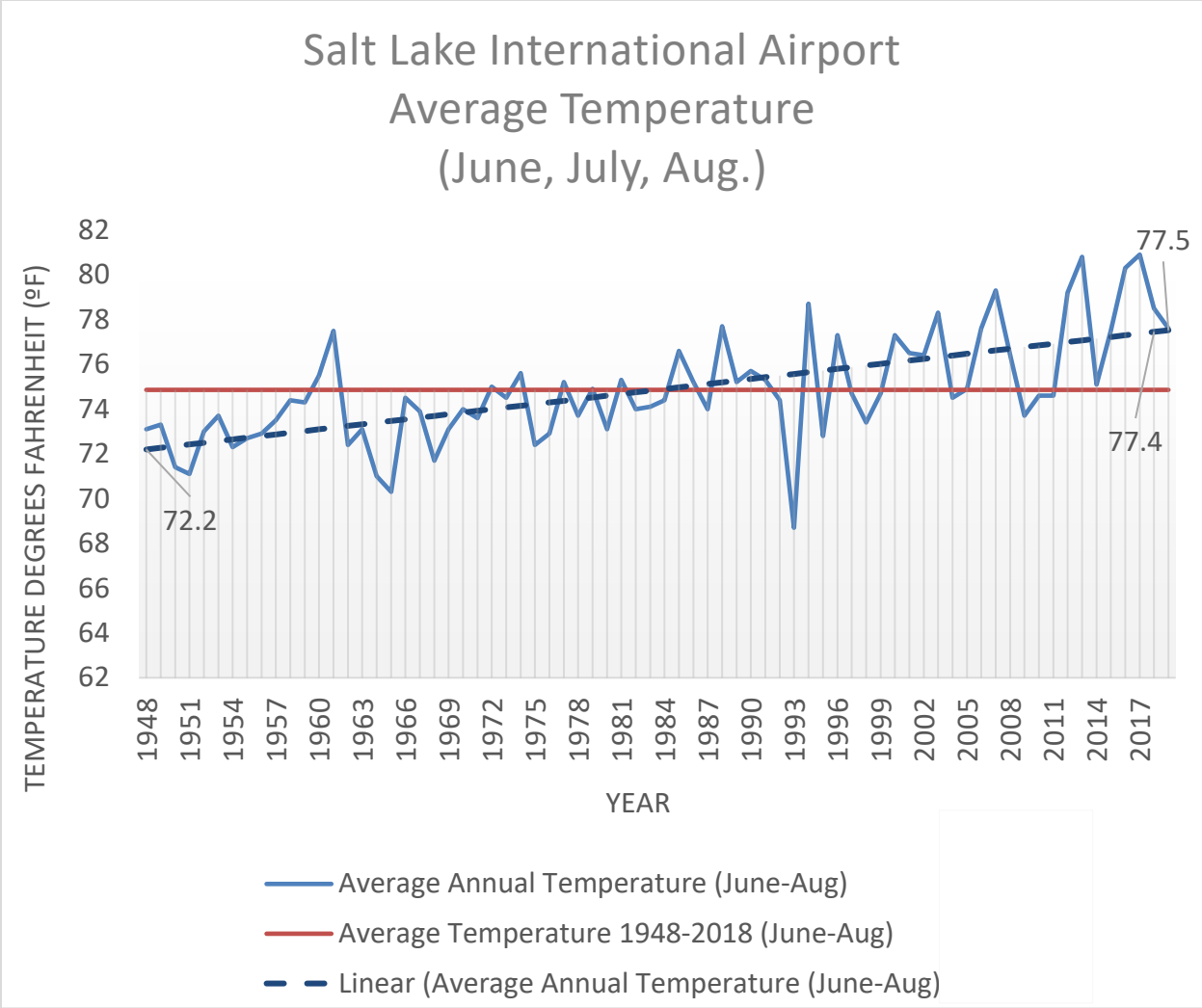
Population Growth:

Utah is one of the fastest growing states in the nation—with most of that growth happening within JWCD's service area. Currently, the Utah Division of Water Resources estimates that without significant progress in conservation, water demand will outpace supply by the year 2060 (see figure below).



Weather:

Water demand is heavily influenced by weather patterns, particularly in the residential sector. Since 2000, there has been an increasing trend of hot and dry weather in JWCD's service area, with the most extreme hot and dry year in 2013 and the most extreme wet and cold year in 2011. Frequent and unpredictable drought patterns further complicate water planning and could lead to additional shortfalls in water supply. The graph on the following page shows Salt Lake's warming average temperature over several years.

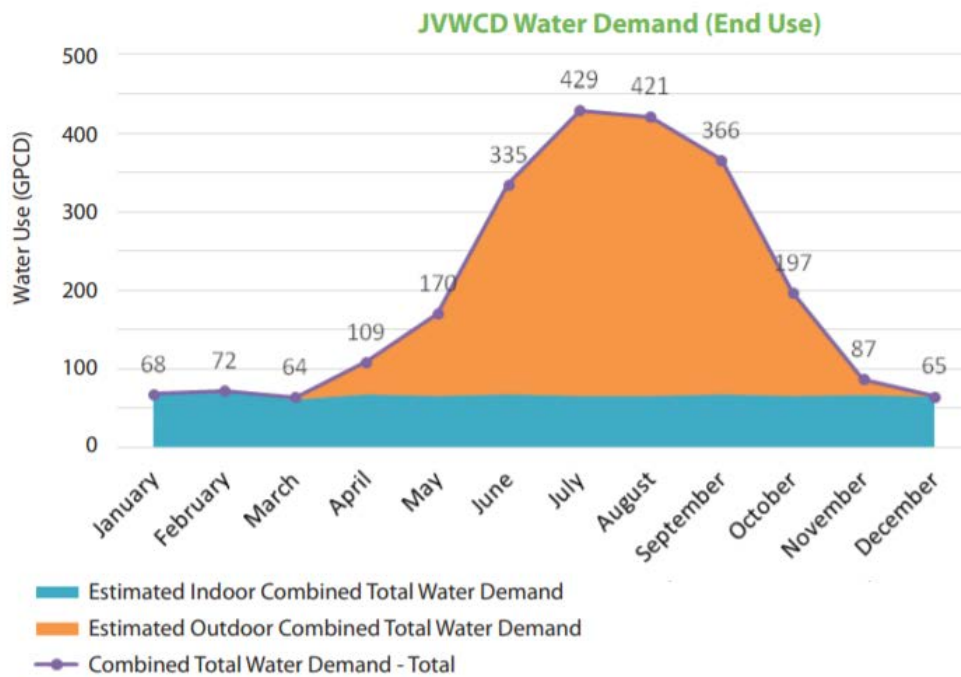


Land Use Development:

A recent study conducted by JWCD staff discovered that although increased population density often leads to a decrease in gallons used per capita per day (GPCD), greater population density also leads to a larger volume of water delivered per acre annually. And in many scenarios, the increase in total volume per acre outpaces the reduction in GPCD.

How This Project Addresses Water Reliability Concerns:

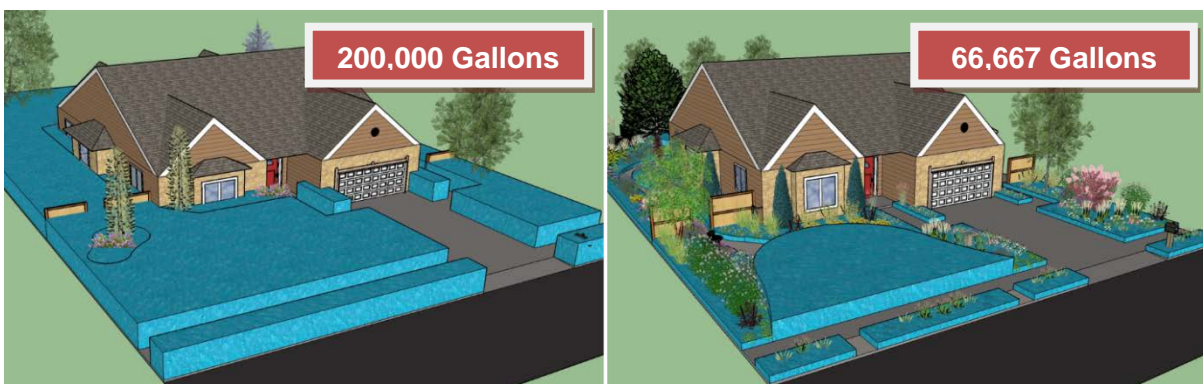
In JWCD’s service area where more than 60% of drinking water is used to maintain outdoor landscapes—sustainable landscaping practices could make the difference between meeting the water demand of growing populations and facing substantial water challenges in the future.



By incentivizing water-efficient landscaping, JWCD’s rebate programs will allow JWCD to meet increasing water demands while leaving more water in rivers, streams, and wetlands. In addition to extending JWCD’s water supply, conservation from this project will reduce peak summer demands on JWCD’s existing systems, allowing its water delivery system to meet the demands of new growth. JWCD estimates that millions of dollars will be saved in water resource development and infrastructure costs if water conservation goals are met.

Water Conservation from Localscapes Rewards:

A typical quarter-acre lot consumes around 200,000 gallons of water each year—enough to support a family of five’s indoor water needs for almost two years. Landscapes that follow water efficiency standards required by the Localscapes Rewards program use 66% less water while still providing better functionality, greater curb appeal, and easier maintenance. Water savings are achieved by removing lawn from areas where it isn’t functional and making considerations for more efficient irrigation and land use.



Water Conservation from Flip Your Strip:

Park strips with water-efficient designs and drip irrigation can save 8,000 gallons of water every year. And because park strips require minimal landscape design and are often on their own sprinkler zone, many homeowners find this an easy place to begin changing their landscape. JWCD anticipates that many homeowners who participate in the Flip Your Strip program will later complete larger projects through Locascapes Rewards.

Will the project benefit multiple sectors and/or users?

Yes, JWCD's water primarily supports residential, commercial, and industrial potable use within Salt Lake County; however, JWCD also delivers untreated water to irrigators in Salt Lake and Utah counties to meet commitments under irrigation exchanges. Water saved through JWCD's rebate program will benefit each of these sectors by creating a more sustainable water supply that can support future population growth. Conservation achieved through this project will also allow additional water to be used for recreation in local reservoirs, rivers, and streams.

Will the project benefit an endangered species?

Yes, water conservation achieved through this project will directly impact the amount of Bonneville Unit water returned to Central Utah Water Conservancy District. These flows are used to maintain Provo River instream fishery flows and assist in recovering the June Sucker, an endangered species.

Will the project benefit a larger initiative to address water reliability?

Yes. In 2019, The Utah Division of Water Resources introduced new regional water conservation goals for the state. JWCD's service area falls within the Salt Lake region which was given the goal to reduce per capita water demand to 187 GPCD by 2030. For JWCD, this goal requires a 13% reduction from the year 2015. The proposed project will help JWCD achieve its conservation goals and contribute to achieving statewide initiatives to address water reliability.

Will the project benefit Indian tribes?

No, this project does not have a direct link to any Indian tribe.

Will the project benefit rural or economically disadvantaged communities?

Yes, six cities within JWCD's service area have been identified as "Opportunity Zones" by the Governor's Office of Economic Development. These Zones were nominated based on low-income census tracts. By offering cash rebates and free educational resources, JWCD's project provides opportunities for disadvantaged communities to make landscaping change. JWCD has seen significant participation in its rebate programs from all areas of its service area.

Does the project promote and encourage collaboration among parties in a way that helps increase the reliability of the water supply?

Yes. JWCD developed Utahwatersavers.com in 2017 to operate several of its rebate programs. The next year the website was expanded in partnership with the Utah Division of Water Resources to provide additional statewide rebate programs. This partnership and collaboration allow both agencies to share promotional, hosting, and development costs while providing a single resource for the public to access. Because widescale public recognition and use of Utah Water Savers is an important aspect of escalating participation in the rebate programs to the levels described in this application, collaboration on Utahwatersavers.com is helping JWCD achieve its goals.

JWCD has also spent significant time working and collaborating with local landscape professionals to promote water-efficient principles and the Localscapes landscaping approach. Because many homeowners require professional assistance to install their landscape, this collaboration has significantly improved the success of JWCD's rebate programs.

Is there widespread support for the project?

Yes. JWCD has formed Localscapes partnerships with more than 84 community partners who agree to help promote and implement water-efficient landscaping throughout the state. These partners include professional landscape contractors and designers, landscape supply retailers, local agencies, and various educational institutions (listed below). The partners support JWCD's efforts and help communicate the benefits of water-efficient landscaping to the larger community.

Localscapes Partners as of September 2020:

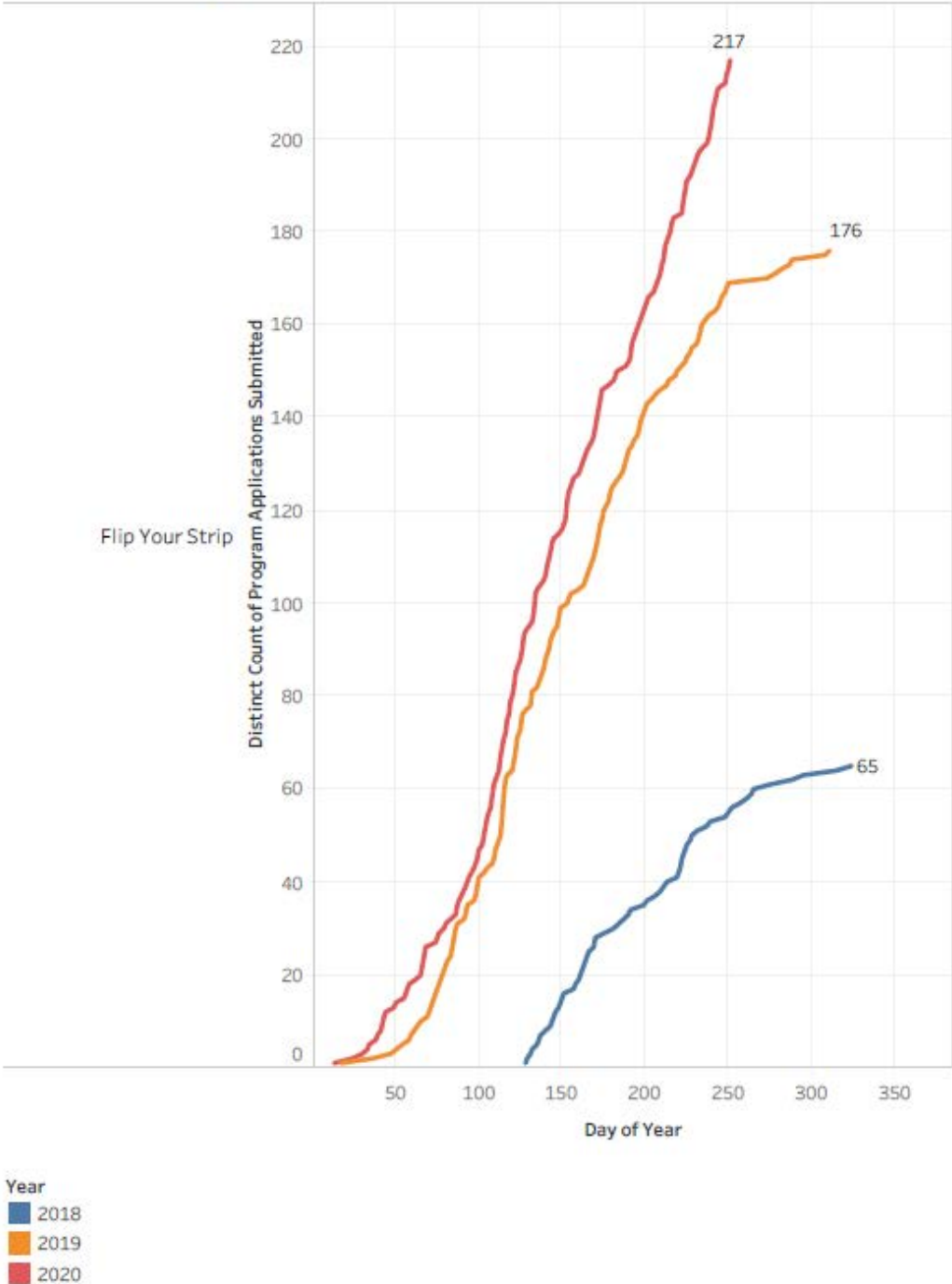
- Central Utah Water Conservancy District
- Utah Division of Water Resources
- Washington County Water Conservancy
- Weber Basin Water Conservancy District
- Alder Remodeling and Landscaping
- Alpine Homes
- Alpine Landscapes
- All States Landscaping
- Aridscape Utah
- Arrow Rock and Stone
- Artek Landscaping
- Aspen Landscape Design
- Barefoot Gardens Utah
- Celestial Landscapes
- Civil Solutions Group
- Classic Sprinklers
- Clean Cuts Trees
- Coy Custom Designs
- Desert Color, St. George
- Dig Landscape Design
- Eden's Garden Design
- Four Square Landscaping
- Garbett Homes
- Garden Flow Designs
- Gro Wild Design
- Grounds Maintenance Services, Inc.
- Haul-4-U, LLC
- Hot Shots Sprinkler Repair
- Huskies Landscaping
- Inspired by Nature
- Ivory Homes
- JP Landscape Design
- K&L Design
- Klik DIY
- Landmark Design, Inc
- Laughlin Design Associates
- Millburn Landscape
- Mott's Landscaping

- NatureScapes
- Pendleton Design Management
- Pinnacle Landscape and Maintenance Inc
- PKJ Design Group
- Rockscapes
- Rollins Landscaping
- Royal Landscaping LLC
- Rubies in the Garden
- Scenic View Landscaping
- Secret Garden Design
- Silver Sage Xeriscape & Design
- Solscapes
- South Valley Lawn Care
- Strong Landscape, Inc
- Studio PK
- TerraWorks Landscaping
- The Building Group
- The Urban Garden Co.
- Vera Landscaping
- Vivid Desert Design
- Wasatch Area Grounds Specialists
- Waterwise Designs
- Xeriscape Design
- 810 Creative Landscape Design
- Central Iron Water Conservancy District
- Granger-Hunter Improvement District
- KUED
- South Jordan City
- Utah State University
- Arbor Day Nursery
- Arrow Rock & Stone
- Asphalt Materials
- Big Jim's Little Red Wagon
- Chanshare
- Deseret Nursery
- Glover Nursery, Inc
- Landscape Supply of Utah
- McCoard's Garden Center
- Milcreek Gardens
- Mountain View Nursery
- Progressive Plants
- Stone Cover
- West Side Nursery
- Western Gardens, WVC
- Wild Valley Farms
- Willard Bay Gardens

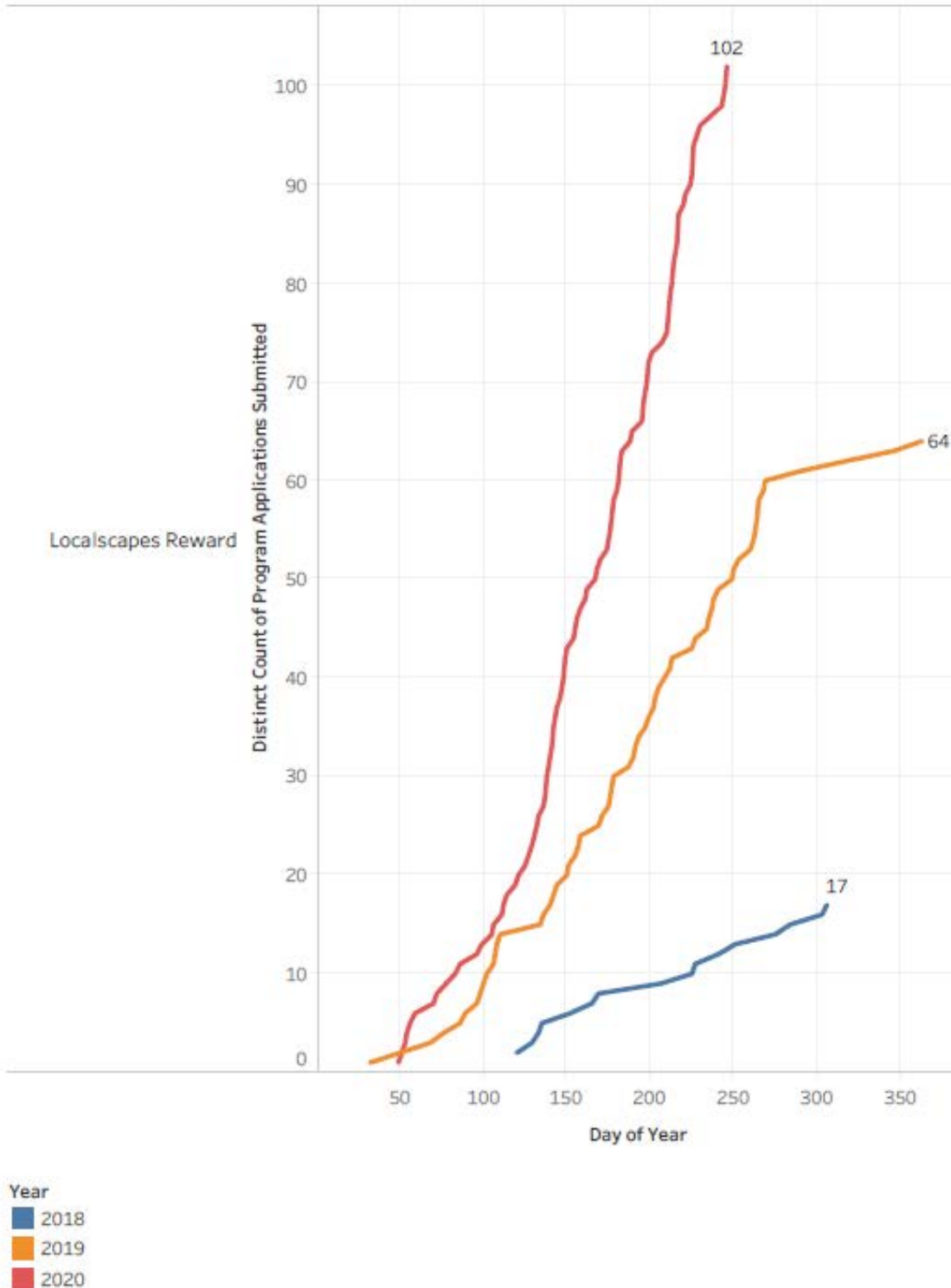
What is the significance of the collaboration/support?

As community support for Utah Water Savers has grown, participation in JVVCD's rebate programs has significantly increased. JVVCD anticipates that interest will continue to grow in future years. The graphs on the following pages show how initial applications for Flip Your Strip and Localscapes Rewards have grown since their inception three years ago.

Count of Initial Applications Submitted by Day of Year Comparing Years (New Application Latest Submit Date) - All Programs



Count of Initial Applications Submitted by Day of Year Comparing Years (New Application Latest Submit Date) - All Programs



Is the possibility of future water conservation improvements by other water users enhanced by completion of this project?

Yes, participants in each of the offered rebate programs will learn better water management practices that could lead to better water management practices elsewhere. JWCD has found that homeowners who participate in one rebate program often participate in additional programs and rebates through utahwatersavers.com. In addition to the rebates discussed in the project, utahwatersavers.com also provides opportunities for toilet rebates, smart controller rebates, and landscape consultations.

Will the project help to prevent a water-related crisis or conflict?

JWCD's projections show that full implementation of these initiatives and other conservation efforts detailed in its conservation plan would eliminate the need for Bear River water to support its existing service area. The need for Bear River development is dependent upon how soon water efficiency measures are implemented and how quickly JWCD's boundaries expand to support additional lands.

Describe the roles of any partners in the process.

Many of JWCD's professional partners design and install landscapes for the Locascapes Rewards program. As partners, they agree to follow Locascapes requirements while installing landscapes for the program. A copy of their agreement is included as Exhibit A.

Evaluation Criterion C—Implementing Hydropower

This project does not implement Hydropower.

Evaluation Criterion D—Complementing On-Farm Irrigation Improvements

Criterion D is not applicable to this project.

Evaluation Criterion E—Department of the Interior and Bureau of Reclamation Priorities

Department of the Interior Priorities

Creating a conservation stewardship legacy second only to Teddy Roosevelt: Utilize science to identify best practices to manage land and water resources and adapt to changes in the environment.

JWCD operates a conservation garden where landscaping best practices are identified through extensive research and testing. The requirements for JWCD's rebate programs were based on this research and help homeowners create water-efficient landscapes that are guaranteed to save

water while still providing benefits such as high curb appeal, and manageable maintenance. Both of JWCD's rebate programs allow homeowners to learn best practices for water management within the context of their own properties. Learning how to correct inefficiencies at home will lead to better water management practices elsewhere—helping to create lasting conservation.

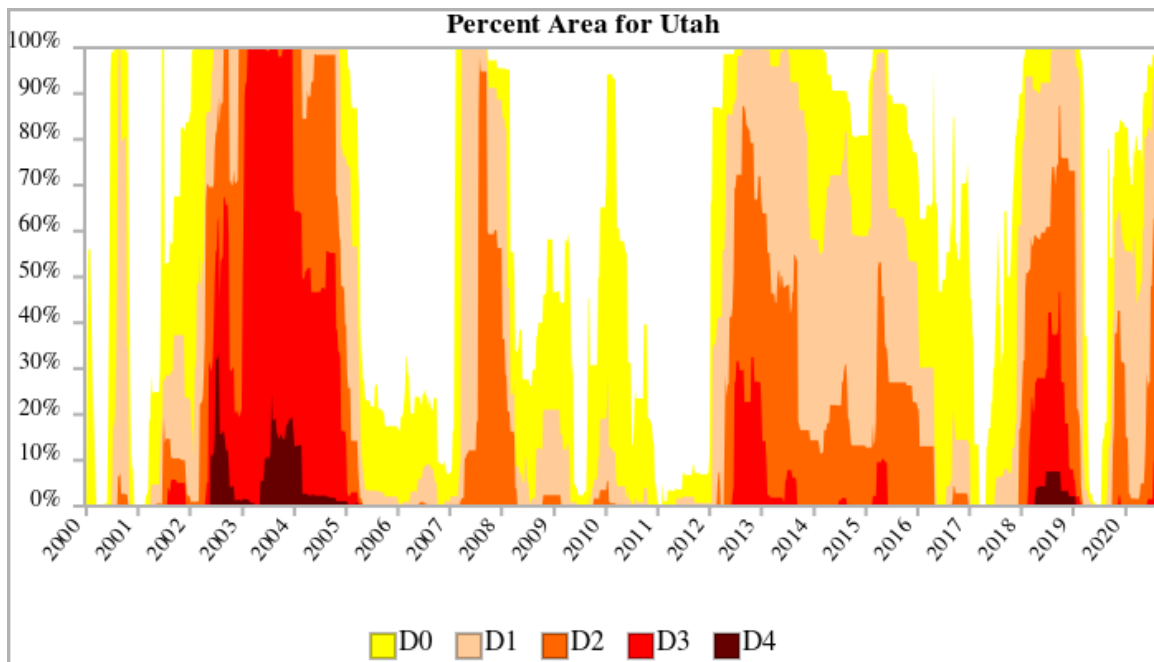
Reclamation Priorities

Increase Water Supplies, Storage, and Reliability under WIIN and other Authorities:

JWCD views water conservation as one of its most valuable future water supplies and places a high priority on programs that help homeowners make changes that create lasting conservation. Programs like Flip Your Strip and Localscapes Rewards allow water-consuming tasks to be accomplished using less water—which helps guarantee water savings into the future. JWCD's current projections show that full implementation of its conservation plan, including the initiatives in this proposal, could eliminate the need for Bear River water to support Jordan Valley Water's existing service area.

Address Ongoing Drought

Utah consistently faces drought patterns of varying severity. As average temperatures climb, the severity of drought conditions are expected to increase. By reducing the water demand of landscaping in its service area, JWCD will help alleviate the impact of drought on existing water supplies. Proper management of Utah's finite water supply is essential in ensuring a reliable water supply and environmental integrity during drought. As JWCD's service population and subsequent water demands continue to grow, so too does its potential vulnerability to drought. The chart below highlights drought patterns from recent years. D4 represents "Exceptional Drought" conditions accompanied by widespread crop failures and water emergencies.



Evaluation Criterion F—Implementation and Results

Subcriterion F.1— Project Planning

Does the applicant have a Water Conservation Plan in place? Please self-certify or provide copies of these plans where appropriate to verify that such a plan is in place.

JVWCD’s Water Conservation Plan was updated in 2019 to satisfy the requirements of the “Water Conservation Plan Act,” which requires culinary water providers and conservancy districts to submit water conservation plan updates to the Utah Division of Water Resources (DWRe) every five years. Flip Your Strip and Localscapes Rewards were both included in the plan based on their cost effectiveness and ability to achieve real water savings. A full version of the plan can be accessed at www.jvwcd.org/public/highlights

Subcriterion F.2— Performance Measures

Total estimated area to be landscaped through this project:

JVWCD expects to replace 1,720,832 square feet of inefficient landscaping in two years and reduce outdoor water demand on its system by a total of 79 Acre Feet.

Estimated historical annual average quantity of water applied per unit area of turf and the estimated amount of water to be applied to any replacement landscape vegetation:

JVWCD estimates the historical annual average quantity of water applied per unit area of turf is 45.28 inches per year. The estimated amount of water to be applied to turf replaced with planting beds and drip irrigation is 19 inches per year.

Pre-project estimations of baseline data:

Pre-project estimations were calculated using the Simplified Landscape Irrigation Demand Estimation (SLIDE) equation and account for weather with evapotranspiration data aggregated over a year. JVWCD used an assumed average irrigation efficiency rate of 53 percent (see page 7 for additional information about these estimations).

Post-project methods for quantifying benefits of turf removal projects:

Site audits will be performed to measure the size of each rebate project and to determine the watering requirements for installed landscape areas. Water conservation achieved per rebate project will be calculated using the pre-project turf irrigation rate and the measured area of turf removed minus estimated water use of any replacement landscape vegetation.

Subcriterion F.3— Readiness to Proceed

Major Tasks Necessary to Complete this Project

Localscapes Rewards:

- Review each rebate application and verify that eligibility requirements are met.

- Review landscape plan and measure each section of the landscape plan (lawn, planting bed, hardscaped area, etc.)
- Add estimated amounts into an analysis spreadsheet and determine estimated rebate amount.
- Create agreement with project participant.
- When project is completed, review completion photos and schedule a site audit.
- Take actual measurements of the lawn areas, hardscape areas, and planting bed areas on site.
- Validate that project has met Localscapes requirements.
- Approve project rebate.

Flip Your Strip Process

- Review each rebate application and verify that eligibility requirements are met.
- Schedule initial site visit to measure park strip and take photos.
- Create agreement with participant.
- After project is completed, review completion photos and schedule a final site visit.
- Inspect park strip and irrigation systems.
- Approve project rebate.

Describe any permits that will be required, along with the process for obtaining such permits.
JWCD does not anticipate the need for any permits to complete this project.

Identify and describe any engineering or design work performed specifically in support of the proposed project.
No engineering or design work will be performed for this project.

Describe any new policies or administrative actions required to implement the project.
JWCD has been offering these rebate programs for several years. No new policies or administrative actions will be required to implement the project.

Estimated Project schedule:

- **July 2021:** Begin administering rebate programs on utahwatersavers.com
- **July- October 2021:** JWCD will conduct site visits, approve rebates, and teach park strip classes.
- **October-November 2021:** Rebate programs conclude for 2021 season. (Note: these programs are not offered during the winter when snow makes it impossible to properly inspect irrigation and landscaping).
- **February 2022:** Advertising and promotion of rebate programs begins.
- **March 2022:** JWCD will begin conduct site visits, approve rebates, and teach park strip classes.

- **October-November 2022:** Rebate programs conclude for 2022 season. (Note: these programs are not offered during the winter when snow makes it impossible to properly inspect irrigation and landscaping).
- **February 2023:** Advertising and promotion of rebate programs begins.
- **March 2023:** JWCD will begin conducting site visits, approve rebates, and teach park strip classes.
- **June 2023:** Funding under this agreement ends.

Evaluation Criterion G—Nexus to Reclamation Project Activities

Does the applicant receive Reclamation project water?

Yes. JWCD is the largest petitioner of the Central Utah Project’s Bonneville Unit M&I water, contracting to receive more than 70,000 acre-feet annually. As a major stockholder in the Provo Reservoir Water Users Company, JWCD also receives deliveries associated with a substantial portfolio of water rights, including Deer Creek Reservoir storage rights (a Reclamation project facility constructed as part of the Provo River Project), direct flow water rights in the Provo and Weber rivers systems, and Echo Reservoir storage rights on the Weber River (a Reclamation project facility constructed as part of the Weber River Project).

Is the project on Reclamation project lands or involving Reclamation facilities?

No. JWCD operates and maintains the Jordan Aqueduct System, a Reclamation facility, on behalf of itself and the Metropolitan Water District of Salt Lake & Sandy. While proposed project activities will occur at residential homes within JWCD’s service area and not on Reclamation lands or facilities, all facilities operated by JWCD will benefit from conservation savings.

Is the project in the same basin as a Reclamation project or activity?

Yes. JWCD’s service area receives water from several Reclamation projects including the Provo River Project, the Central Utah Project, and the Weber River project.

Will the proposed work contribute water to a basin where a Reclamation project is located?

Water conserved as a result of the proposed programs will remain in the above listed Reclamation systems and can be allocated as needed.

Will the project benefit any tribe(s)?

No, this project does not impact any of Reclamation’s trust responsibilities with tribes.

Evaluation Criterion H— Additional Non-Federal Funding

Non-Federal Funding will cover 50 percent of the total project cost.

\$346,848.14

\$693,696.28

Project Budget

Funding Plan

The Flip Your Strip and Localscapes Rewards rebate programs are included in JVVCD's annual budget. Internal funding for these programs has been approved each of the last three years by JVVCD's board of trustees. Funding received from the Bureau of Reclamation will allow JVVCD to provide more rebates than are currently available. No additional third-party or federal funding is being sought for this project. The budget proposal does not include any costs incurred prior to the project period.

Table 1.—Total Project Cost Table

SOURCE	AMOUNT
Costs to be reimbursed with the requested Federal funding	\$346,848.14
Costs to be paid by the applicant	\$346,848.14
Value of third-party contributions	N/A
TOTAL PROJECT COST	\$693,696.28

Budget Proposal

BUDGET DESCRIPTION	COMPUTATION		QUANTITY TYPE	TOTAL COST
	\$/UNIT	QUANTITY		
Salaries and Wages				
Conservation Coordinator	\$25.81/hour	868.33	Hours	\$22,411.68
Conservation Technician	\$17/hour	685.75	Hours	\$11,657.75
Administrative Assistant	\$23.61/hour	43.10	Hours	\$1,017.59
Fringe Benefits				
Conservation Coordinator	\$21.24/hour	868.33	Hours	\$18,443.40
Administrative Assistant	\$20.77/hour	43.10	Hours	\$895.19
Supplies and Materials				
Rebate Processing	\$2.94/Rebate	431	Rebates	\$1,267.14
Other				
Outreach Expenses	11% of Rebate	574,777.50	Rebates	\$63,225.53
Flip Your Strip Rebates	\$1.25/Sq. Ft.	78,182	Square Feet	\$97,78.00
Localscapes Rewards	\$0.29/Sq. Ft.*	1,642,650	Square Feet	\$477,050.00
TOTAL DIRECT COSTS				\$693,696.28
Indirect Costs				
N/A	N/A	N/A	N/A	N/A
TOTAL ESTIMATED PROJECT COSTS				\$693,696.28

Budget Narrative

Salaries and Wages

The labor rates included in the budget proposal represent the actual labor rates of the identified personnel.

Conservation Coordinator (Amanda Strack):

The conservation coordinator will spend 3 hours per Localscapes Rewards rebate and 50 minutes per Flip Your Strip Rebate. The task breakdown for this position is included below.

Labor Rate: \$25.81/hour; Fringe Benefits = \$21.24/hour

Localscapes Rewards Initial Application Review: 90 minutes

- Verify Project Qualifications 4 minutes
- Landscape Design Review 45 minutes
- Landscape measurements 19 minutes
- Estimate Rebate Amounts: 4 minutes

- Create Project Agreement: 6 minutes
- Administrative Tasks 12 minutes

Localscapes Rewards Completed Project Review: 90 minutes

- Review completion photos and schedule site visit: 6 minutes.
- Measure lawn areas, hardscape areas, and planting bed areas on site: 45 minutes.
- Verification that program requirements have been met: 20 minutes
- Processing Rebate Payment: 5
- Administrative Tasks: 6 minutes

Flip Your Strip Initial Application Review: 30 minutes

- Review application and schedule pre-site visit: 5 minutes
- Administrative Tasks: 15 minutes
- Measure Park Strip and Take photos: 5 minutes
- Create Program Agreement: 5 minutes

Flip Your Strip Completed Project Review: 50 minutes

- Review completion photos and schedule final visit: 10 minutes
- Site visit to take photos and verify that park strip meets all program requirements: 30 minutes
- Administrative Tasks: 6 minutes
- Begin rebate processing: 4 minutes

Conservation Technician

A seasonal conservation technician will support the conservation coordinator. This position will spend 75 minutes per Localscapes Reward and 2 hours per Flip Your Strip.

Labor Rate: \$17/hour

Localscapes Rewards: 75 minutes

- Administrative Tasks: 30 minutes
- Verification Visit: 45 minutes

Flip Your Strip: 120 minutes

- Administrative Tasks: 25 minutes
- Verification Visit: 15 minutes
- Travel Time for Visits: 60 minutes
- Final Visit: 15 minutes

- Appointment Reminders: 5 minutes

Administrative Assistant

An administrative assistant will process rebate checks once projects are approved. The administrative assistant will also provide web support for utahwatersavers.com. Processing each rebate will require 6 minutes.

Labor Rate: \$23.61/hour; Benefits = \$20.77/hour

Fringe Benefits

JVWCD provides a comprehensive benefits package including medical, dental, and vision coverage; a retirement plan, life insurance, and paid leave options. Fringe rates for the Conservation Coordinator were figured at a rate of \$21.24/ hour and for the Administrative Assistant \$20.77/hour. Part time employees do not receive fringe benefits from JVWCD.

Materials and Supplies

Rebate Processing: \$2.94/rebate

- Check paper: 0.10
- Envelopes:0.10
- Postage: 0.55
- Check Processing: \$2.19

Environmental and Regulatory Compliance Costs

JVWCD does not anticipate any environmental and regulatory compliance costs for this project. Programs have been previously funded by Reclamation and no significant changes are being made. Programs will only occur on already developed properties. All programs will require that participants adhere to federal, state, and local laws.

Other Expenses

Outreach Expenses:

Because JVWCD's rebate programs require community participation, promotion and advertising is a necessary expense for success. Based on historical spending, JVWCD estimates that outreach expenses will equal approximately 11% of the amount spent on rebates. Strategies for promotion include digital marketing, direct mailers, in-person meetings, paid advertisements, online banners, partner displays, outreach booths, and earned media placements. Rebates are also promoted through city newsletters, websites, and other communication channels.

Flip Your Strip Rebates:

Rebates for the Flip Your Strip program are calculated at a rate of \$1 per square foot of lawn removed. If participants attend a park strip class their rebate increases to \$1.25 per square foot.

Localscapes Rewards Rebates:

Rebates for Localscapes Rewards are calculated based on actual water saved. The table below shows rebate amounts for various landscaping types. For the purpose of this project budget, JWCD calculated the average rebate amount for each project type.

Landscaping Type	Rebate Amount
Lawn (Overhead Spray)	No Rebate
Lawn (MP Rotators)	\$0.14/square foot
Planting Beds (Inline Drip)	\$0.39/square foot
Planting Beds (Point Source Drip)	\$0.44/square foot
Hardscape (No Irrigation)	\$0.56/square foot

Environmental and Cultural Resources Compliance

Does JWCD have any conflict of interest with the Bureau of Reclamation?

No. JWCD does not have any conflict of interest to the US Bureau of Reclamation in accordance with 2 CFR 200.112. If any conflict should arise during the duration of this grant, JWCD will follow procedures to identify, disclose, and eliminate identified conflicts of interest.

Will the proposed project impact the surrounding environment?

The proposed project may include some earth-disturbing work as homeowners make modifications to their landscapes, including adjusting or changing irrigation systems, removing lawn from park strips, or planting Utah-friendly plants. Because work will only occur on already developed properties, no impacts to historic water conveyance structures, soils, air quality, animal habitat, or endangered species are expected.

Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the project area? Would they be affected by activities associated with the proposed project?

No. There are no endangered species or critical habitats located on sites affected by the proposed project. However, water conserved through this project may be used to maintain Provo River instream fishery flows and assist in recovering the June Sucker, an endangered species.

Are there wetlands or other surface waters inside the project boundaries that potentially fall under CWA jurisdiction as “Waters of the United States?”

No, the proposed project will occur on already-developed properties and will not impact any wetlands or other surface waters.

When was the water delivery system constructed?

Construction of JWCD’s infrastructure started in 1951 and has been added to annually since then. For more details about or a timeline of construction of our delivery system, contact Megan

Jenkins at meganh@jvwcd.org.

Will the proposed project result in any modification of or effects to, individual features of an irrigation system?

The proposed project will only result in possible modifications of residential irrigation systems on individual properties. The modifications may include adjusting watering schedules, zones, or switching from spray systems to drip.

Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places?

No. While historic sites are located within JVVCD's service area, the proposed project will only occur on already-developed properties and will have no adverse effect on any building, structure or feature listed or eligible for listing on the National Register of Historic Places.

Are there any known archeological sites in the proposed project area?

No. There are no known archeological sites in the proposed project area.

Will the proposed project have a disproportionately high and adverse effect on low income or minority populations?

No. This project will allow any eligible resident to participate. Non-participation will not have any consequences.

Will the proposed project limit access to and ceremonial use of Indian sacred sites or result in other impacts on tribal lands?

No Indian sacred sites or tribal lands will be impacted by this project.

Will the proposed project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?

No. This program will only permit the installation of Utah-friendly plants and will discourage the spread of noxious weeds by utilizing mulch and drip irrigation to control weed spread.

Required Permits or Approvals

JVVCD does not anticipate any permits or approvals for this project.

Letters of Support

The non-federal match for project will be entirely supplied by the applicant, Jordan Valley Water Conservancy District.

Official Resolution

An official resolution adopted by JVVCD's board of trustees will be emailed separately following its October board meeting.

Appendix: Localscapes Contractor Agreement

Localscapes Contractor Program

PARTICIPATION AGREEMENT

This Participation Agreement is made as of _____, 20____ (the "Effective Date"), between Jordan Valley Water Conservancy District, a Utah local district ("District"), and _____ a _____ corporation qualified to do business and doing business in the State of Utah ("Contractor"), with its principal place of business located at _____, Utah_____.

Participant and the District agree as follows:

1. Purpose and Nature of the Program

- A. The purpose of the Localscapes Contractor Program ("Program") is to provide Contractor with a rebate for designing and/or installing residential landscaping projects ("Project") for homeowners participating in the Localscapes Rewards Program ("Participant"), as described in this Agreement.
- B. The District will provide a rebate to Contractor following successful completion of each qualifying Project during the term of this Agreement.

2. Program Eligibility

- A. Qualifying Projects – Only Projects for Participants that have previously entered into fully executed agreements with the District are eligible for this Program.
- B. Localscapes Partner – Contractor has signed and complies with the Localscapes Partnership Pledge and Agreement for Professional Partners and shall remain current and in good standing during the term of this Agreement.
- C. License and Permit Requirements – Contractor shall be qualified and licensed to do business in Utah and hold a current contractor's license with a classification of S330. In addition, Contractor shall hold all other necessary licenses or permits from all appropriate entities and governmental agencies in the state of Utah, and applicable city and/or county jurisdictions as required for a Project. Contractor warrants all such licenses are now and shall remain current and in good standing during the term of this Agreement. Contractor shall obtain any and all permits or authorizations required for a Project.
- D. Service Area – Projects shall be located within the District's service area.
- E. Project Description – Contractor shall design and/or install Projects that adhere to Localscapes requirements and follow the basic 5-step approach including a central open shape, gathering areas, activity zones, connecting pathways, and planting beds.
- F. Authorization to Proceed – Contractor's receipt of a fully executed copy of this Agreement constitutes the District's approval of Contractor's participation in the Program

and notice to Contractor to proceed with designing and/or installing Projects, as provided by this Agreement.

3. Definitions

- A. Activity Zones: Portions of the landscape designed for recreation or function, such as storage areas, fire pits, vegetable gardens, and playgrounds.
- B. Central Open Shape: An unobstructed area that functions as the focal point of a Localscapes and is designed in a shape that is geometric in nature.
- C. Gathering Areas: Portions of the landscape that are dedicated to congregating, such as patios, gazebos, decks, and other seating areas.
- D. Hardscape: Durable landscape materials, such as concrete, wood, pavers, stone, or compacted inorganic mulch.
- E. Lawn: Ground that is planted with short, regularly mown grass or turf.
- F. Localscapes®: A landscaping approach designed to create locally adapted and sustainable landscapes through a basic 5-step approach (central open shape, gathering areas, activity zones, connecting pathways, and planting beds).
- G. Mulch: Any material such as rock, bark, compost, wood chips or other materials left loose and applied to the soil.
- H. Park Strip: A typically narrow landscaped area located between the back-of-curb and sidewalk.
- I. Paths: Designed routes between landscape areas and features.
- J. Planting Bed: Areas of the landscape that consist of plants, such as trees, ornamental grasses, shrubs, perennials, and other regionally appropriate plants.
- K. Total Landscaped Area: Improved areas of the property that incorporate all of the completed features of the landscape. The landscape area does not include footprints of buildings or structures, sidewalks, driveways, and other non-irrigated areas intentionally left undeveloped.

4. Localscapes Requirements

- A. The Project shall include a designed Central Open Shape created by using Lawn, Hardscape, groundcover, gravel, or Mulch.
- B. Gathering Areas shall be constructed of Hardscape and placed outside of the Central Open Shape. In a landscape without Lawn, Gathering Areas may function as the Central Open Shape.

- C. Activity Zones shall be located outside of the Central Open Shape and shall be surfaced with materials other than Lawn.
- D. Paths shall be made with materials that do not include Lawn, such as Hardscape, Mulch, or other groundcover.
- E. Lawn areas shall not exceed 35 percent of the Total Landscaped Area.
- F. Lawn shall not be installed in Park Strips, Paths, or on slopes greater than 25 percent or 4:1 grade, and be less than 8 feet wide at its narrowest point. Lawn shall be free from obstructions (trees, signs, posts, valve boxes, etc.) to the extent reasonably practicable.
- G. All irrigation shall be appropriate for the designated plant material to achieve the highest water efficiency. Drip irrigation or bubblers shall be used outside of Lawn areas. Drip irrigation systems shall be equipped with a pressure regulator, filter, flush-end assembly, and any other appropriate components.
- H. Each irrigation valve shall irrigate landscaping with similar site, slope and soil conditions, and plant materials with similar watering needs. Lawn and Planting Beds shall be irrigated on separate irrigation valves. In addition, drip emitters and sprinklers shall be placed on separate irrigation valves.
- I. At least 3-4 inches of Mulch, permeable to air and water, shall be used in Planting Beds to control weeds and improve the appearance of the landscaping.

5. Terms of the Program

- A. Important Timelines and Deadlines – This Agreement shall begin on the Effective Date and it shall expire twelve (12) months following the Effective Date. During this twelve-month period, the Contractor shall notify the District upon initiation of a Project. Upon notification, the District will provide Contractor with a copy of the Participant's approved Project plan and the estimated rebate amount. Once the Project is complete, the Contractor shall submit to the District a Locascapes Contractor Program Certificate of Completion in the form of attached Exhibit A. The District will then inspect the Project for compliance. If the Project fails inspection, Participant and Contractor will be granted at least 30 days to notify the District and attain compliance through a subsequent final inspection.
- B. Rebate Amounts and Limits – Contractor must have a Participation Agreement with the District in order to receive a rebate. The District shall pay the Contractor a rebate based on the actual completed Hardscape, Planting Bed, and Lawn areas of the Project, as determined by the District, in its sole discretion. Ten (10) percent of the Participant's total rebate shall be paid to the Contractor for design of the Project and Ninety (90) percent of the Participant's total rebate shall be paid to the Contractor for the installation of the Project. Only one rebate shall be paid by the District to the Contractor for the Project. Rebates will be paid in the form of a check made payable to the Contractor within 30 days of a successful, final inspection. The Program is subject to available funds. Rebates

will be processed in the order they are received on a first-come first-served basis. Project features or attributes that are rebated through any other rebate program offered by the District are not eligible for the Program. The District reserves the right to modify or discontinue the Program at any time.

- C. Contractor Warranty - The Contractor shall provide Participant with a written warranty that warrants the Project to be free from defects in materials and workmanship for a period of one (1) year following the date of Project completion.
- D. Use of Subcontractors – Contractor shall ensure that the terms of the Program are met for both the Contractor and Participant. Contractor may use subcontractors for performance; however, Contractor shall retain sole and principle responsibility for any work performed by such subcontractors.
- E. Other Responsibilities of the Participant – The Contractor shall comply with all applicable laws, policies, codes, ordinances and covenants regarding the Project. Quality and appearance of the Project are the responsibility of the Contractor. Rebates may be considered taxable income to Contractor.
- F. Use of Information – The District hereby is authorized by Participant to use Contractor’s contact information to communicate regarding Contractor’s participation in the Program, to use and publish photographic or video images of Projects for training, public relations or marketing purposes.
- G. Participant Disputes – Contractor shall be solely responsible for the resolution of any and all disputes between Participant and Contractor. Failure to resolve disputes may result in termination of this Agreement and cancellation of the rebate.

6. Limits of the District’s Responsibility

- A. Except for the rebate, the District will not be responsible for any cost, expense, or work related to the Project, including but not limited to demolition, disposal, materials, installation, planting, irrigation, proper functioning and maintenance.
- B. The District does not endorse, guarantee, or warranty any supplier, product, or contractor, including official Locascapes partners. Contractor is solely responsible for any product and service needed to comply with the terms of this Agreement.
- C. Contractor’s participation in the Program shall be as an independent contractor and not as an agent or employee of the District.

7. Project Administration and Correspondence

- A. The person authorized to administer Projects, execute the Locascapes Contractor Program Certificate of Completion in attached Exhibit A, and to act as the chief contact for the Contractor is:

B. The person designated to represent the District in connection with this Agreement is:

Courtney Brown, Conservation Programs Manager
Jordan Valley Water Conservancy District
8275 South 1300 West
West Jordan, Utah 84088

8. Release

- A. Contractor hereby agrees to indemnify, defend, and hold harmless the District, its agents, employees, officers, Trustees, and successors from and against all claims, demands, causes of action, liability or judgement of any kind, including attorney's fees and costs, which directly or indirectly arise from or are related to Contractor's participation in the Program and/or to this Agreement.
- B. Contractor hereby agrees to release the District and its agents, employees, officers, Trustees, and successors, from liability for loss or damage of every description or kind whatsoever which may result from or be related to the Program and/or to this Agreement, provided the loss or damage was not due solely to the gross negligence or intentional misconduct of the District.

9. Representations

- A. Contractor represents that Contractor has authority to execute this Agreement and to participate in the Program. Contractor also represents that there are no other agreements between the District and Contractor, oral or written, concerning the Program or any subject matter set forth in this Agreement.

10. Agreement Renewal

- A. This Agreement may be renewed for up to three (3) additional one (1) year terms, but only upon the prior, written approval of the District, which approval the District may withhold for any reason.

“Contractor”

By: _____

Date: _____

Its: _____

“District”

By: _____

Date: _____

Its: _____