

Kevin Reidy Senior Water Efficiency Specialist 1313 Sherman St. Denver, CO 80203

May 28, 2025

RE: CWP GRANTS – Final Report POGG1, PDAA, 202100002086 Colorado Springs Utilities-Irrigation Efficiency Improvement Program

Dear Mr. Reidy,

Please, find Colorado Springs Utilities' invoice and final report for the Irrigation Efficiency Improvement Program below. If you have any questions or concerns, please let me know.

Sincerely,

Lance Ackerman Senior Water Conservation Specialist Colorado Springs Utilities <u>lackerman@csu.org</u>



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INVOICE

May 28, 2025

From:

Lance Ackerman Sr. Water Conservation Specialist Colorado Springs Utilities 2855 Mesa Rd. Colorado Springs, CO 80904 (719) 668-4559

Bill to:

Colorado Water Conservation Board Kevin Reidy 131 Sherman St., Room 718 Denver, CO 80203

Project: WPG, Irrigation Efficiency Improvement Program Number: POGG1, PDAA, 202100002086

Task / Description	Cost	Amount Invoiced
Task 4 – Educate owners and contractors	\$5,997.72	\$2,998.86
Task 5 – Perform post-project inspection and track post-project water consumption	\$5,997.72	\$2,998.86
Total Cost	\$11,995.44	
Total Amount Due	Remaining Grant Balance	\$5,997.72

See Table 4 for in-kind contributions of staff time.



Program Objectives

The purpose of this program is to create a program to help Colorado Springs Utilities commercial water customers implement landscape irrigation efficiency improvements. This program will reduce two major barriers to efficiency upgrades by 1) paying for efficiency improvements and 2) managing the irrigation upgrades through an irrigation consultant and irrigation contractor. To make a significant impact, we plan to:

- Assist at least ten commercial properties.
- Improve irrigation efficiency by 25% or more.
- Achieve at least 1 AF/year of permanent savings for each \$7,000.00 of program expenditure.
- Prioritize commercial customers with large savings potential, financial need and capacity to maintain improvements.
- Consider the cost of the efficiency improvements compared to the savings potential, then select the highest value projects to maximize the program's impact.

Summary of Findings

The purpose of this program is to determine if "project-based" irrigation rebates are more cost effective than traditional "equipment" rebates for high-efficiency irrigation components. We wanted to test if, by subsidizing the cost of an irrigation efficiency project, we could overcome significant barriers that prevent customers from implementing irrigation audit findings, achieve landscape water savings quicker and inspire water customers to take additional action.

We defined a project-based rebate as a site-specific combination of leak repair, equipment upgrades, scheduling changes and maintenance tasks designed to gain irrigation water savings. After an initial irrigation evaluation, we wrote scopes of work to improve a portion of the customer's irrigation system. This typically included addressing the controller, scheduling, rain sensor, and head/nozzle replacement for three irrigation zones. Approved irrigation contractors performed the work.

At the conclusion of the second year and usage of all grant funds, here are several promising findings.

- Cost of per acre foot saved. Our target cost per acre foot saved is \$7,000. Project costs for 2022 is \$138,940.63 with 17.3AF saved making our cost per acre foot saved \$8,012.72. The cost per acre foot saved has the potential be closer to our goal once we quantify savings from scheduling changes and leak repair.
- <u>A project-based offering appears to motivate more customers to participate</u>. We structured this program so that we would pay for 100% of a portion of the upgrades needed, directly to an approved irrigation contractor, based on a scope of work that our Irrigation Specialist designed to



gain the most water savings. Because this avoided up-front costs for the water customer, we have had education-sector, affordable housing and low-resourced businesses apply. These water customers traditionally have seldom participated in our equipment rebates. Although this program will rarely cover the cost of all the irrigation efficiency upgrades needed, it can lessen the cost barrier for water customers and achieve quick water efficiency wins.

- <u>A project-based rebate gives us the ability to gain savings we couldn't achieve through equipment</u> <u>rebates.</u> Through this program we will include leak repair, rain sensor replacement, and scheduling changes. These tasks are not eligible costs for our equipment rebate, even though they often represent significant savings.
- Irrigation contractors are eager to participate. By having our Irrigation Specialist write the scope of work, we remove the water customer's fear that the irrigation contractor is selling them work they don't need. This provides a benefit to irrigation contractors who see water-savings opportunities but need a neutral third-party to motivate water customers to invest. Contractors are also motivated to perform the improvement work since it can be done when they have less seasonal work and ultimately makes a site easier to manage.
- <u>Customers are inspired to improve the rest of their systems.</u> For example, after replacing nozzles and heads for irrigation zones through the program, Powers Place BOA, Promontory Point HOA and Pinon Bluffs HOA participated in our traditional irrigation equipment rebate program to continue to make improvements to remaining portions of their irrigation systems. This will help define the maximum rebate amount we'll offer in the future.
- Equipment rebates play a supporting role moving forward. We will continue to measure the water savings and cost per acre foot saved to determine where to focus our rebate funds. We have found that a project-based approach is competitive with equipment rebates, gains additional savings and inspires customers to make upgrades beyond equipment attrition. For now, we will also continue to fund the project-based rebate program. Equipment-based rebates will still play a role for customers with limited water savings potential, participants who wish to continue investing in improvements, and customers that already have knowledgeable staff and contractors along with ample capital improvement funds.
- <u>This program can be scaled to gain additional savings.</u> Due to water supply risks, we have secured additional funding for this program. The ability to reach inefficient customers and quickly gain savings makes this program an attractive option. Also, using a third-party Irrigation Consultant to perform some of the evaluations lessens the strain on water provider staff.
- <u>Project based irrigation rebates can lead to hydro zoning and successful non-essential turfgrass</u> <u>conversions.</u> Efficiency improvements to irrigation systems can include hydro zoning, coverage improvements, scheduling for successful native grass conversions. This work will lead to a pilot program for native turf conversion projects.



Summary of Work Performed, January 2022-December 2022

- Improved the program processes for water customer, irrigation consultant and irrigation contractor participation.
- Recruited and trained irrigation contractors to bid, perform and bill for work performed.
- Scheduled a free contractor training session to increase number of certified irrigation contractors approved to participate in program.
- Completed 78 irrigation evaluations for overall Commercial Irrigation Audit Program, 36 for program applicants.
- Drafted 22 scopes of work for efficiency improvement projects.
- Completed 19 efficiency projects.
- Put 17 customers on wait list for 2023 (will begin with irrigation evaluation).
- Secured \$325,000 additional funds from Colorado Springs Utilities to expand the program through 2025.



Status of Program Tasks

Task 1: Recruit Participants and Perform Irrigation Evaluations

Description- Recruit program participants; create a water use history report for each commercial water customer to identify savings potential; perform an irrigation evaluation of each commercial property to identify irrigation efficiency improvements. Participant goal is 10 commercial properties.

Results

Table 1: Summary of Participants by Program Phase

Customers	Irrigation	Scopes of	Quotes	Projects	Rebates
on 2023	Evaluations	Work	Received	Completed	Issued
Wait List	Completed	Drafted			
(waiting for					
evaluations)					
17	36	22	19	19	19
	Customers on 2023 Wait List (waiting for evaluations) 17	Customers on 2023IrrigationWait ListEvaluations(waiting for evaluations)	Customers on 2023Irrigation EvaluationsScopes of WorkWait List (waiting for evaluations)Completed DraftedDrafted173622	Customers on 2023Irrigation EvaluationsScopes of WorkQuotes ReceivedWait List (waiting for evaluations)CompletedDraftedHereine17362219	Customers on 2023Irrigation EvaluationsScopes of WorkQuotes ReceivedProjects CompletedWait List (waiting for evaluations)CompletedDraftedProjects CompletedCompleted1736221919

Task 2: Create Irrigation Efficiency Scopes of Work

Description- Create a scope of work for irrigation efficiency upgrades and management improvements. The scope of work will be provided to several irrigation contractors pre-approved by Colorado Springs Utilities to provide their cost of performing the work.

Results- As we continue gaining experience, we realize this task is best provided by Colorado Springs Utilities' Irrigation Specialist rather than a third-party irrigation consultant. This approach better guides participants because our Irrigation Specialist has deep expertise in efficiency program options, program rules and program objectives. This ensures the scopes of work are aligned with program requirements and objectives. We plan to continue this approach for the remainder of the program. A total of 22 scopes of work were completed to date.



Task 3: Implement Irrigation Upgrades

Description- An approved irrigation contractor will perform the irrigation upgrades according to the scope of work.

Results- See Table 2

Table 2: Summary of Completed Projects (Total 2022 Program Savings 17.31AF)

Savings are estimated from equipment changes and exclude leak repair and scheduling.

Customer	Pre-Project	Post-Project Efficiency Improvements	Estimated	Project
	Inefficiency	Made	Savings *	Cost
Powers Place Owners Association	Heavy runoff occurring due to head spacing, high precipitation rates, high pressure, low head drainage and scheduling. As a result of runoff parking lot asphalt is deteriorating.	Replaced heads with check valve heads with proper pressure regulation. Several heads were removed from the lateral line to reduce heavy coverage and precipitation rates. All nozzles were replaced with Rainbird R-Van nozzles. Scheduling was addressed on a zone-by- zone basis, considering precipitation rates, microclimates, etc. These improvements inspired the customer to improve the entire site with the same equipment.	1.47AF	\$10,000.00
Promontory Point HOA	Irrigation system is not providing proper coverage and leading to poor landscape health. Several mixed irrigation zones on site, over spray and low head drainage occurring.	Replaced heads with check valve heads with proper pressure regulation and addressed nozzles on rotor zone for matched precipitation rates. Scheduling was addressed on a zone-by-zone basis, considering precipitation rates, microclimates, etc. These improvements inspired the customer to improve the entire site with the same equipment.	2.41AF	\$10,000.00



Pinon Bluffs HOA	Irrigation water window is difficult with our water wise rules program. Three large zones experience low pressure due to flow required and long lateral line runs.	Installed a flow sensor and weather Trak controller to help with water window and maximize mainline. These devices will also help with leak repair and scheduling. All heads on the three large zones were with check valve heads with proper pressure regulation and paired with proper MP rotator nozzles to lower the flow and improve pressure. Scheduling was addressed on a zone-by- zone basis, considering precipitation rates, microclimates, etc. The project rebate inspired the customer to utilize equipment rebates to fully address the three zones experiencing low pressure.	0.57AF	\$10,000.00
Atrium Business Campus	Heavy runoff occurring due to head spacing, high precipitation rates, high pressure, low head drainage and scheduling. As a result of runoff parking lot asphalt is deteriorating.	Replaced existing heads with check valve heads with proper pressure regulation. Several heads were removed from the lateral line to reduce heavy coverage and precipitation rates. All nozzles were replaced with MP Rotator nozzles. Scheduling was addressed on a zone-by- zone basis, considering precipitation rates, microclimates, etc.	1.2AF	\$10,000.00
Twin Harbors HOA	Mixed irrigation zones throughout site and several zones with low pressure and poor coverage. The low pressure and poor coverage were leading to excess use of water to attain desired aesthetics.	All existing heads were replaced with check valve heads with proper pressure regulation and paired with proper MP rotator nozzles to lower the flow and improve pressure. Irrigation zones experiencing low pressure and poor coverage were significantly improved. Scheduling was addressed on a zone-by- zone basis, considering precipitation rates, microclimates, etc.	1.59AF	\$10,000.00



Arbors at	Poor coverage	An additional lateral line was added	1.43AF	\$10,000.00
Mountain	leading to high water	down the center of the polygon. This		
Shadows	use and poor	resulted in all existing heads in this		
	landscape health.	space transitioning to 6" Hunter Pro		
	Fixed spray nozzles	Spray with MP nozzles for improved		
	without pressure	coverage. The remainder of the site was		
	regulation and heads	converted to heads with pressure		
	without check valves	regulation and check valves paired with		
	with high	Toro precision nozzles.		
	precipitation rates in			
	areas with extreme			
	slopes and heavy clay			
	soils.			
Ptarmigan	Irrigation	Irrigation controllers were consolidated	0.17AF	\$10,000.00
Townhomes	management is	from four controllers to two weather		
	challenging due to	Trak Opti flow smart controllers. All		
	number of irrigation	programming was completed to		
	controllers, extreme	accommodate all zone parameters on a		
	sandy soils, and	zone-by-zone basis. The customer plans		
	Utilities' water-wise	to utilize equipment rebates to pair a		
	rules.	flow sensor for the irrigation system for		
		better irrigation management		
		capabilities.		



N Union	Several large on-	All irrigation leaks observed during the	1.08AF	\$9 <i>,</i> 989.13
Properties	going lateral line	irrigation evaluation were repaired and		
	leaks observed during	additional leaks as repairs were made		
	irrigation evaluation.	were completed. An additional lateral		
	Irrigation zones are	was added along the sidewalk edge to		
	designated to water	prevent irrigation from water across		
	across sidewalks.	sidewalk. All existing heads were		
	Several zones	replaced with check valve heads with		
	experiencing low	proper pressure regulation and paired		
	pressure because of	with proper MP rotator nozzles to lower		
	surface tree roots.	the flow and improve coverage.		
	Fixed spray nozzles	Irrigation controller was replaced to a		
	without pressure	smart controller and rain sensor with		
	regulation and heads	remote programing and wet check		
	without check valves	capabilities for better water		
	with high	management.		
	precipitation rates			
	and over spray			
	resulting in heavy			
	runoff. The controller			
	on site is unreachable			
	for programming			
	changes and			
	performing irrigation			
	checks.			



Gottlieb Trust Properties	Irrigation zones are designated to water across sidewalks.	An additional lateral was added along the sidewalk edge to prevent irrigation from water across sidewalk. All existing	1.47AF	\$9,972.61
	without pressure regulation and heads without check valves with high precipitation rates and over spray resulting in heavy runoff. Several leaks occurring during irrigation evaluation.	heads were replaced with check valve heads with proper pressure regulation and paired with proper MP rotator nozzles to lower the flow and improve coverage. Irrigation controller was replaced to a smart controller and rain sensor with remote programing and wet check capabilities for better water management.		
Powers Dental Group	All irrigation zones along N. Carefree were designed for irrigation coverage across the sidewalk. The entire site consisted of fixed spray nozzles, heads without check valves, over spray, etc. The controller on site is unreachable for programming changes and performing irrigation checks.	An additional 300' of lateral was added along the sidewalk edge to prevent irrigation from water across sidewalk. All existing heads were replaced with check valve heads with proper pressure regulation and paired with proper MP rotator nozzles to lower the flow and improve coverage. Irrigation controller was replaced to a smart controller and rain sensor with remote programing and wet check capabilities for better water management.	1.31AF	\$9,925.00



Oakbrook	Several large on-	All irrigation leaks observed during the	1.04AF	\$8,398.41
Properties	going lateral line	irrigation evaluation were repaired and		-
	leaks observed during	additional leaks as repairs were made		
	irrigation evaluation.	were completed. All existing heads were		
	Several zones	replaced with check valve heads with		
	experiencing low	proper pressure regulation and paired		
	pressure because of	with proper MP rotator nozzles to lower		
	surface tree roots.	the flow and improve coverage.		
	Fixed spray nozzles	Irrigation controller was replaced to a		
	without pressure	smart controller and rain sensor with		
	regulation and heads	remote programing and wet check		
	without check valves	capabilities for better water		
	with high	management.		
	precipitation rates			
	and over spray			
	resulting in heavy			
	runoff. The controller			
	on site is unreachable			
	for programming			
	changes and			
	performing irrigation			
	checks.			
Avvento, LLC	Fixed spray nozzles	All existing heads were replaced with	1.24AF	\$7 <i>,</i> 570.00
	without pressure	check valve heads with proper pressure		
	regulation and heads	regulation and paired with proper MP		
	without check valves	rotator nozzles to lower the flow and		
	with high	improve coverage. Irrigation controller		
	precipitation rates in	was replaced to a smart controller and		
	areas with extreme	rain sensor with remote programing and		
	slopes and heavy clay	wet check capabilities for better water		
	soils. The controller	management.		
	on site is unreachable			
	for programming			
	changes and			
	performing irrigation			
	checks.			



Dominion Way	Irrigation zones are	An additional lateral was added along	0.86AF	\$7,075.00
Properties	designated to water	the sidewalk edge to prevent irrigation		
	across sidewalks.	from water across sidewalk. All existing		
	Fixed spray nozzles	heads were replaced with check valve		
	without pressure	heads with proper pressure regulation		
	regulation and heads	and paired with proper MP rotator		
	without check valves	nozzles to lower the flow and improve		
	with high	coverage. Irrigation controller was		
	precipitation rates	replaced to a smart controller and rain		
	and over spray	sensor with remote programing and wet		
	resulting in heavy	check capabilities for better water		
	runoff. Several leaks	management.		
	occurring during			
	irrigation evaluation.			
	-			
Academy	Irrigation zones are	An additional lateral was added along	0.52AF	\$5,700.00
Academy Christian	Irrigation zones are designated to water	An additional lateral was added along the sidewalk edge to prevent irrigation	0.52AF	\$5,700.00
Academy Christian	Irrigation zones are designated to water across sidewalks.	An additional lateral was added along the sidewalk edge to prevent irrigation from water across sidewalk. All existing	0.52AF	\$5,700.00
Academy Christian	Irrigation zones are designated to water across sidewalks. Fixed spray nozzles	An additional lateral was added along the sidewalk edge to prevent irrigation from water across sidewalk. All existing heads were replaced with check valve	0.52AF	\$5,700.00
Academy Christian	Irrigation zones are designated to water across sidewalks. Fixed spray nozzles without pressure	An additional lateral was added along the sidewalk edge to prevent irrigation from water across sidewalk. All existing heads were replaced with check valve heads with proper pressure regulation	0.52AF	\$5,700.00
Academy Christian	Irrigation zones are designated to water across sidewalks. Fixed spray nozzles without pressure regulation and heads	An additional lateral was added along the sidewalk edge to prevent irrigation from water across sidewalk. All existing heads were replaced with check valve heads with proper pressure regulation and paired with proper MP rotator	0.52AF	\$5,700.00
Academy Christian	Irrigation zones are designated to water across sidewalks. Fixed spray nozzles without pressure regulation and heads without check valves	An additional lateral was added along the sidewalk edge to prevent irrigation from water across sidewalk. All existing heads were replaced with check valve heads with proper pressure regulation and paired with proper MP rotator nozzles to lower the flow and improve	0.52AF	\$5,700.00
Academy Christian	Irrigation zones are designated to water across sidewalks. Fixed spray nozzles without pressure regulation and heads without check valves with high	An additional lateral was added along the sidewalk edge to prevent irrigation from water across sidewalk. All existing heads were replaced with check valve heads with proper pressure regulation and paired with proper MP rotator nozzles to lower the flow and improve coverage. Irrigation controller was	0.52AF	\$5,700.00
Academy Christian	Irrigation zones are designated to water across sidewalks. Fixed spray nozzles without pressure regulation and heads without check valves with high precipitation rates	An additional lateral was added along the sidewalk edge to prevent irrigation from water across sidewalk. All existing heads were replaced with check valve heads with proper pressure regulation and paired with proper MP rotator nozzles to lower the flow and improve coverage. Irrigation controller was replaced to a smart controller and rain	0.52AF	\$5,700.00
Academy Christian	Irrigation zones are designated to water across sidewalks. Fixed spray nozzles without pressure regulation and heads without check valves with high precipitation rates and over spray	An additional lateral was added along the sidewalk edge to prevent irrigation from water across sidewalk. All existing heads were replaced with check valve heads with proper pressure regulation and paired with proper MP rotator nozzles to lower the flow and improve coverage. Irrigation controller was replaced to a smart controller and rain sensor with remote programing and wet	0.52AF	\$5,700.00
Academy Christian	Irrigation zones are designated to water across sidewalks. Fixed spray nozzles without pressure regulation and heads without check valves with high precipitation rates and over spray resulting in heavy	An additional lateral was added along the sidewalk edge to prevent irrigation from water across sidewalk. All existing heads were replaced with check valve heads with proper pressure regulation and paired with proper MP rotator nozzles to lower the flow and improve coverage. Irrigation controller was replaced to a smart controller and rain sensor with remote programing and wet check capabilities for better water	0.52AF	\$5,700.00
Academy Christian	Irrigation zones are designated to water across sidewalks. Fixed spray nozzles without pressure regulation and heads without check valves with high precipitation rates and over spray resulting in heavy runoff.	An additional lateral was added along the sidewalk edge to prevent irrigation from water across sidewalk. All existing heads were replaced with check valve heads with proper pressure regulation and paired with proper MP rotator nozzles to lower the flow and improve coverage. Irrigation controller was replaced to a smart controller and rain sensor with remote programing and wet check capabilities for better water management.	0.52AF	\$5,700.00



New	Several large on-	All irrigation leaks observed during the	0.34AF	\$5,510.48
Beginnings	going lateral line	irrigation evaluation were repaired and		
Fellowship	leaks observed during	additional leaks as repairs were made		
	irrigation evaluation.	were completed. All existing heads were		
	Several zones	replaced with check valve heads with		
	experiencing low	proper pressure regulation and paired		
	pressure because of	with proper MP rotator nozzles to lower		
	surface tree roots.	the flow and improve coverage.		
	Existing irrigation	Irrigation controller was replaced to a		
	heads included	smart controller and rain sensor with		
	impact rotors and	remote programing and wet check		
	fixed spray nozzles	capabilities for better water		
	without pressure	management.		
	regulation and heads			
	without check valves.			
	The fixed spray heads			
	have high			
	precipitation rates			
	and over spray			
	resulting in heavy			
	runoff. The controller			
	on site is mechanical			
	and unreachable for			
	programming			
	changes and			
	performing irrigation			
	checks.			



Temple Beit	Fixed spray nozzles	All existing heads were replaced with	0.65AF	\$4,800.00
Torah	without pressure	check valve heads with proper pressure		
	regulation and heads	regulation and paired with proper MP		
	without check valves	rotator nozzles to lower the flow and		
	with high	improve coverage. Irrigation controller		
	precipitation rates	was replaced to a smart controller and		
	leading to runoff and	rain sensor with remote programing and		
	water waste. The	wet check capabilities for better water		
	controller on site is	management.		
	unreachable for			
	programming			
	changes and			
	performing irrigation			
	checks.			



Task 4: Educate Owners and Landscape Contractors

Description- Short-term education: The irrigation consultant will train the owner and landscape contractor to operate and maintain the upgraded irrigation equipment as well as how to access their water consumption data through the online portal. Long-term: Colorado Springs Utilities will provide supporting education to support participants.

Results, 100% complete. The irrigation efficiency program has exceeded expectations for both our customers and contractors. It has continued beyond our initial grant funding and has significantly contributed to our water conservation goals. Currently, over twenty-five contractors have completed the required training to participate in the program. The program's design and ease of participation have made it highly accepted among local irrigation contractors. Since its inception, our contractors have actively sought out customers who could benefit from the program.

Task 5: Perform a Post-Project Inspection and Track Post-Project Water Consumption Perform a post-project inspection; estimate the efficiency improvements gained; track post-project water consumption

Results, 100% complete. Post-project inspections and water savings estimates are finished for completed projects (see Table 2). Post-project water consumption analysis was completed for projects that had consistent water usage data. Project participants were included in a regression analysis that showed water savings higher than the estimated amounts. The analysis compared a control group of customers who have not participated in our programs to those who have. Several variables were considered, including the number of days with temperatures below 40 degrees, the number of days with temperatures below 40 degrees, the number of days with temperatures above 90 degrees, landscape composition in square footage, and landscape ET numbers for the period covered by the analysis. This regression analysis allowed us to conservatively increase our water savings estimates by 43%.

In general, irrigation usage remains highly behavioral, and further analysis will be conducted to determine the rate of decay in savings for these projects and participants.



Challenges and Corrective Action:

- When we launched the program, it was complex due to multiple steps for participants. We have worked to simplify and create program roadmaps for participants to allow for more streamlined participation.
- Not many irrigation contractors meet qualifications; contractors are sometimes not available to attend required education courses. We are reaching out to contractors to encourage them to participate and hosting no-cost trainings open to all contractors. The number of eligible contractors continues to increase with sustained outreach and education.
- Different marketing strategies were implemented initially. We have found the most effective methods include business account manager outreach to specific customers and qualified irrigation contractors identifying potential participants from their list of customers.
- Contractors are reluctant to perform work on a property managed by another contractor. Customers are hesitant to have a different contractor perform the upgrades because it might affect their relationship with their maintenance contractor. We are addressing this through reaching out to existing maintenance contractors to offer education and enroll them as approved contractors in program.
- Capacity of contractors to take on additional work outside of previously scheduled work. Labor shortages within the industry have an effect on contractor willingness to participate in the program.
- Since we are calculating savings from equipment in similar manner to our equipment rebates, projects that consist of controller upgrades and flow sensors are less cost effective due to quantity of equipment installed and cost of these devices. There were a handful of projects that resulted in controllers and flow sensors that will ultimately reduce water waste through better scheduling and leak alerts, but these benefits are challenging to quantify immediately. Although this is inexpensive compared to securing additional water supply, we will focus on funding work that will lead to significant water savings.



Table 3: Summary of Water Customer Participants

Customer Name	Туре	Participant Status
1. Powers Place Condo Association	НОА	Complete
2. Promontory Point HOA	НОА	Complete
3. Pinon Bluffs HOA	НОА	Complete
4. Twin Harbors HOA	НОА	Complete
5. Arbors at Mountain Shadows	НОА	Complete
6. Ptarmigan Townhomes	НОА	Complete
7. N Union Properties (7710 N Union)	Office Building	Complete
8. N Union Properties (7730 N Union)	Office Building	Complete
9. N Union Properties (7750 N Union)	Office Building	Complete
10. Gottlieb Trust Properties (7610 N Union)	Office Building	Complete
11. Gottlieb Trust Properties (6165 Lehman Dr)	Office Building	Complete
12. Powers Dental Group	Office Building	Complete
13. Oakbrook Properties (6270 Lehman Dr)	Office Building	Complete
14. Oakbrook Properties (6290 Lehman Dr)	Office Building	Complete
15. Avvento, LLC	Office Building	Complete
16. Dominion Way Properties	Office Building	Complete
17. Academy Christian	Religious	Complete
18. New Beginnings Fellowship	Religious	Complete
19. Temple Beit Torah	Religious	Complete



20. First and Main Town Center	Shopping Center	Complete
21. Interquest Market Place	Complete	Complete
22. Cypress Ridge HOA	НОА	Complete
23. Campus Commons HOA	НОА	Complete
24. Primrose School of Briargate	Education	Complete
25. 2424 W Garden of the Gods	Office Building	Complete
26. UC Health	Office Building	Complete
27. Villas at Briargate HOA	НОА	Complete
28. Spring Grove HOA	НОА	Complete
29. T.Rowe Price Associates	Office Building	Complete
30. Gentry Subdivision HOA	НОА	Complete
31. Pinon Glen HOA	НОА	Complete
32. Aerotech	Office Building	Complete
33. Eaglecrest HOA	НОА	Complete
34. Briargate Medical Center	Medical	Complete
35. Lexus Dealership	Office Building	Complete
36. Broadmoor Community Church	Religious	Complete
37. La Jolla Park Townhomes	НОА	Complete
38. California Casualty	Office Building	Complete
39. Seasons at Paseo	НОА	Complete
40. Belleville Condominiums	НОА	Complete
41. Spanish Oak Terrace	НОА	Complete
42. Tech Center #2	Office Building	Complete
43. Canyon Springs Apartments	Affordable Housing	Complete



44. Brook Tree Village	НОА	Complete
45. Healthcare Realty (4105-4125 Briargate Pkwy)	Medical	Complete
46. Healthcare Realty (1230 Tenderfoot Hill)	Medical	Complete
47. Healthcare Realty (320 E Fontanero)	Medical	Complete
48. Healthcare Realty (2920 N Cascade)	Medical	Complete
49. Healthcare Realty (719 N Cascade)	Medical	Complete
50. Healthcare Realty (6170 Tutt Blvd)	Medical	Complete
51. Healthcare Realty (6140 Tutt Blvd)	Medical	Complete
52. Healthcare Realty (3027 N Circle Ave)	Medical	Complete
53. Healthcare Realty (6071 Woodmen Rd)	Medical	Complete
54. Yolanda	Residential	Complete
55. McDivitt	Large Residential	Complete
56. Pinon Sun Townhomes	НОА	Complete
57. Pinon Sun Condominiums	НОА	Complete
58. Overlook Townhomes	НОА	Complete
59. Spring Grove	НОА	Complete
60. Sisters of St. Francis	Religious	Complete
61. Carefree Association	Office Building	Complete
62. Iron Horse Villas HOA	НОА	Complete
63. Northgate Owners Association	НОА	Complete
64. Quail Lake Association	НОА	Complete
65. Research Parkway Office	Office Building	Complete



66. Woodmen Pointe Condos	Office Building	Complete
67. Pikes Peak Athletics	Office Building	Complete
68. Cima Vista HOA	НОА	Complete
69. Manitou Town House Association	НОА	Complete
70. Cascades at Springs Ranch II HOA	НОА	Complete
71. Center for Creative Leadership	Office Building	Complete
72. Aspen Trail Retirement Community	НОА	Complete
73. Atrium 1	Office Building	Complete
74. Atrium 2	Office Building	Complete
75. Cheyenne Autumn Townhomes	НОА	Complete
76. SMP Properties LLC	Office Building	Complete
77. Monitor Rockrimmon LLC	Office Building	Complete
78. Nelson Ave Properties LLC	Office Building	Complete
79. Schaefer Family Tax Exclusion Trust	Office Building	Complete
80. Southpointe Office COA Inc.	Office Building	Complete
81. GSI Enterprises Inc.	Office Building	Complete
82. Medical at Briargate LLC	Office Building	Complete
83. Coachman Townhomes	НОА	Complete
84. Marketplace at Briargate	Office Building	Complete
85. Lodge at Palmer Point	Housing	Complete
86. Pier Pointe HOA	НОА	Complete
87. Carriages at Charleston Place	НОА	Complete
88. Herring Bank	Office Building	Complete
89. Ironwood at Palmer Park	Office Building	Complete
90. Willowbrook Housing	Housing	Complete



91. Colorado Springs Flea Market	Office Building	Complete
92. Silver Key Senior Services	Office Building	Complete
93. Mtn Shadows HOA/Metro	НОА	Complete
94. Mackenzie Place	НОА	Complete

Table 4: June 2023 to October 31, 2024 Expense Report

Expense	Description	Amount
CSU Irrigation Specialist Time (in- kind support)	\$50/hr * 242 hrs	\$12,100.00
Total Program Cost for 2023-2024		\$12,100.00