

Fund 423 Water Capital Replacement

SCADA Master Plan

Project Number: 12626 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Studies Regions: 1- 16 St North/35 Ave East

Fund: Water Capital Replacement Location: System-Wide

Project Status: Funded

Description:

Master Plan identifying SCADA conditions, assets, needs and prioritization. Incorporating recommendations from risk and resiliency study, other master plans, and emergency ops plan(s).

Discussion of Progress:

Project started in 2023 with planned completion in 2024. Additional budget was needed due to increase in scope.

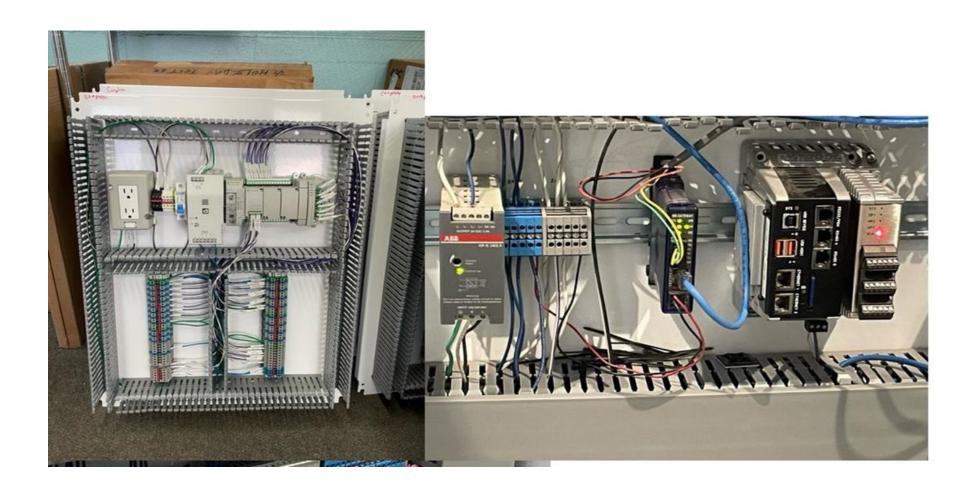
Justification:

This new budget amount is to expand the scope of the Master Plan development to include an assessment and creation of one-line drawings of the existing electrical infrastructure.

SCADA Upgrades and major infrastructure replacements are being made as incorporated project elements of various CIP projects, but there is no centralized Master Plan that articulates all needs, considers impact to operations, considers efficiency opportunities and prioritizes the projects. Further, we should recieve recommendations and cost estimatates for additional connectivity for additional data input for pressure, flow, CI residual, and other parameters within various systems at strategic locations.

SCADA telemetry is outdated at many of our sites, disfunctional in some key areas and the needs are so great that we're not able to work effectively much less efficiently. There are long-term savings and system reliability and system resiliency opportunities in looking system wide at the necessary upgrades.

GL Account	Description	Previous 3 Years	2022 Actual	2023 Revised Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	375,000	150,000	-	=	=		- 525,000
Total I	Revenue	-	-	\$375,000	\$150,000	-	-	-		- \$525,000
Expense										
8204	Contingency	-	-	60,000	-	-	-	-		- 60,000
8229	Professional Services	-	-	300,000	150,000	-	-	-		- 450,000
8232	Project Management - Labor	-	-	15,000	-	-	-	-		- 15,000
Total	Expense	-	-	\$375,000	\$150,000	-	-	-		- \$525,000
Net Total		-	-	-	-	=	-	-		



Risk and Resiliency Projects

Project Number: 12625 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement SupplyRegions:1- 16 St North/35 Ave EastFund:Water Capital ReplacementLocation:Multiple Water System SitesProject Manager:Adam PriorBudget Unit #:4234401890150000000000

Project Status: Funded

Description:

A Risk & Resiliency Assessment (RRA) was completed in March of 2020 by the City of Greeley and Merrick & Company to considers man-made hazards, natural hazards, and dependency hazards (interruptions of supply chains or proximity to dangerous sites). Threat characterization was also performed to identify general and specific threat scenarios to serve as reference threats to Greeley's water system. The projects identified in this budget had some of the higher systems threats and consequences to the water system that will be mitigated with this project.

Discussion of Progress:

Completing projects identified in 2021 study. 2024 - 2026 budget will also include as yet unknown work needed to meet new EPA regulations for cybersecurity for public water systems.

Justification:

A Risk & Resiliency Assessment (RRA) was completed in March of 2020 by the City of Greeley and Merrick & Company to considers man-made hazards, natural hazards, and dependency hazards (interruptions of supply chains or proximity to dangerous sites). Threat characterization was also performed to identify general and specific threat scenarios to serve as reference threats to Greeley's water system. The projects identified in this budget had some of the higher systems threads and consequences to the water system that will be mitigated with this project. Projects include site security, access control to the facilities, fencing, and other projects identified by the RRA.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										_
	Fund Balance	-	28	562,270	802,500	637,500	280,000	-		- 2,282,298
Total	Revenue	-	\$28	\$562,270	\$802,500	\$637,500	\$280,000	-		- \$2,282,298
Expense										
8202	Construction	-	28	449,690	725,000	575,000	250,000	-		- 1,999,718
8204	Contingency	-	-	28,286	72,500	57,500	25,000	-		- 183,286
8208	Furniture, Fixtures & Equipment	-	-	4,032	-	-	-	-		- 4,032
8232	Project Management - Labor	-	-	10,000	5,000	5,000	5,000	-		- 25,000
8244	Capital Equipment >\$5,000	-	-	70,262	-	-	-	-		- 70,262
Total	Expense	-	\$28	\$562,270	\$802,500	\$637,500	\$280,000	-		- \$2,282,298
Net Total		-	-	-	-	-	-	-		-



Suburban Ditch Non-Potable Replacement

Project Number: 12639 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement SupplyRegions:2- 16 St South/23 Ave EastFund:Water Capital ReplacementLocation:Suburban Ditch Reservoir RoadProject Manager:Ryan DuveBudget Unit #:4234401890120000000000

Project Status: Funded

Description:

Replace a 1961 irrigation line due to it deteriorating to a point it is becoming unusable. In some sections the tree roots are so large that the sections have to be dug up and replaced. Many of the sections could not be videoed due to tree roots and obstructions. Currently serves UNC, Cottonwood and Glenmere Park. Future service is estimated at 90 acres if the capacity is available.

Discussion of Progress:

Construction started in 2023 and planned to complete in 2024.

Justification:

This line is essential for the City of Greeley, UNC and Alles Acres. The line loses approximately 300 AF per year. The annual maintenance and repair costs increase each year.

GL Account	Description	Previous 3 Years	2022 Actual	2023 Revised Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	1,455,910	420,000	-	-	-	-	1,875,910
Total	Revenue	-	-	\$1,455,910	\$420,000	-	-	-	-	\$1,875,910
Expense										
8202	Construction	-	-	1,170,000	400,000	-	-	-		1,570,000
8204	Contingency	-	-	266,910	-	-	-	-	-	266,910
8232	Project Management - Labor	-	-	19,000	20,000	-	-	-		39,000
Total	Expense	-		\$1,455,910	\$420,000	-	-	-		\$1,875,910
Net Total		-	-	-	-	-	-	-	-	



SCADA Upgrades High Mountain Reservoirs

Project Number: 12745 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Supply **Regions:** 5- Outside City

Fund: Water Capital Replacement Location: High Mountain Reservoirs

Project Manager: Ryan Duve Budget Unit #: 4234401870030000000000

Project Status: Funded

Description:

Anticipate upgrading System Control and Data Acquisition (SCADA) for the high mountain reservoirs to meet upgraded regulations required by state engineer's office. This will reduce the need to staff to physically monitor with the use of new equipment.

Discussion of Progress:

Procurement of buildings to house equipment in progress. Electrical/Controls Engineer hired. Construction planned for 2023-2025.

Justification:

Given how remote Greeley's high mountain reservoirs are, SCADA upgrades are critical to ensure that these high-hazard dams continue to operate safely

Impact on Operating Budget:

Reduced safety risks by personnel working in the mountains.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	124,000	131,200	138,000	-	-		- 393,200
Total	Revenue	-	-	\$124,000	\$131,200	\$138,000	-	-		- \$393,200
Expense										
8202	Construction	-	-	100,000	106,000	112,000	-	-		- 318,000
8204	Contingency	-	-	10,000	10,600	11,000	-	-		- 31,600
8229	Professional Services	-	-	10,000	10,600	11,000	-	-		- 31,600
8232	Project Management - Labor	=	-	4,000	4,000	4,000	-	-		- 12,000
Total	Expense	-	-	\$124,000	\$131,200	\$138,000	-	-		- \$393,200
Net Total		-	-	-	-	-	-	-		



North Boomerang Pump Station Replacement

Project Number: 423New11 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Supply Regions:

Fund: Water Capital Replacement Location: 7309 W 4th Street
Project Manager: Unassigned Budget Unit #: Unassigned

Project Status: Funded

Description:

The North Boomerang Pump Station is used to irrigate the North 9 course of the Boomerang Links Golf Course. This project includes the total replacement of the existing pump station that was constructed in 1992. The project also includes upsizing the intake pipe between the storage pond and wet well and lining of the storage pond.

Discussion of Progress:

Water and Sewer met with Culture, Parks, and Recreation to coordinate the two projects. Design is planned for 2024 with construction in 2025.

Justification:

This pump station is over 30 years old and is the oldest pump station in the non-pot system. This pump station has passed its useful life. CPRD is planning a total replacement of the North 9 Course irrigation system and this project would be completed in conjunction of the irrigation system replacement. Upsizing of the station with replacement will allow new customers to be served by the station and increase the expanse of the city's non-potable irrigation system.

We are tagging the "Sustainable Infrastructure and Mobility" council priority, however because of the pump station's direct service to the Boomerang Golf Course, the project also impacts the "Quality of Life" council priority.

Impact on Operating Budget:

Operations costs are expected to be similar to those of the existing non-potable pump station.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	-	300,000	3,635,000	-	-		- 3,935,000
Total I	Revenue	-	-	-	\$300,000	\$3,635,000	-	-		- \$3,935,000
Expense										_
8202	Construction	-	-	-	-	3,165,000	-	-		- 3,165,000
8204	Contingency	-	-	-	-	310,000	-	-		- 310,000
8229	Professional Services	-	-	-	285,000	100,000	-	-		- 385,000
8232	Project Management - Labor	-	-	-	15,000	30,000	-	-		- 45,000
8242	Utility Services	-	-	-	-	30,000	-	-		- 30,000
Total	Expense	-	-	-	\$300,000	\$3,635,000	-	-		- \$3,935,000
Net Total		-	-	-	-	-	-	-		



Non-Potable Pump Station Replacement

Project Number: 423New12 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Supply Regions:

Fund:Water Capital ReplacementLocation:CitywideProject Manager:UnassignedBudget Unit #:Unassigned

Project Status: Funded

Description:

Replacement and upsizing of existing non-potable pump stations that have reached the end of their useful life.

Discussion of Progress:

The department has identified four existing non-potable pump stations that require replacement.

Justification:

Replacing pump stations that have reached the end of their useful life ensures that non-potable water will be available to deliver irrigation water to parks, golf courses, campuses, etc. This project includes increasing station capacity to expand non-pot system to nearby properties to convert from potable water irrigation to non-pot.

We are tagging the "Sustainable Infrastructure and Mobility" council priority, however because of the non-potable system's direct services to city parks, the project also impacts the "Quality of Life" council priority.

		D		2022 Davidson						
	5	Previous 3	2022 4	2023 Revised	2024	2025	2026	2027	2020	Cuand Tatal
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	-	2,504,850	-	1,744,000	402,000	537,000	5,187,850
Total I	Revenue	-	-	-	\$2,504,850	-	\$1,744,000	\$402,000	\$537,000	\$5,187,850
Expense										
8202	Construction	-	-	-	1,925,000	-	1,279,000	271,000	408,000	3,883,000
8204	Contingency	-	-	-	288,850	-	192,000	41,000	62,000	583,850
8229	Professional Services	-	-	-	201,000	-	221,000	47,000	23,000	492,000
8232	Project Management - Labor	-	-	-	28,000	-	19,000	9,000	9,000	65,000
8242	Utility Services	-	-	-	62,000	-	33,000	34,000	35,000	164,000
Total I	Expense	-	=	-	\$2,504,850	-	\$1,744,000	\$402,000	\$537,000	\$5,187,850
Net Total		-	-	-	-	-	-	-	-	-



Cottonwood Park Non-Potable Pond Lining

Project Number: 423New13 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Supply **Regions:**

Fund: Water Capital Replacement Location: Cottonwood Park, 26th Ave and 19th St. Rd.

Project Manager: Unassigned Budget Unit #: Unassigned

Project Status: Funded

Description:

Project will install a plastic pond liner within Cottonwood Pond.

Discussion of Progress:

Project is planned for 2033.

Justification:

Cottonwood Pond is known to leak. It was reportedly lined with Bentonite about 15 years ago but may have developed leaks when it was dredged around 10 years ago. The Water Conservation Report suggested a relatively modest 10 Acre Feet loss per year. This was estimated by assuming that the shoulder tap draw during the winter was equal to the seepage losses (as seepage loss is the only water loss occurring during the winter when ice covers the pond, and the outlet structure is not flowing). This is likely an underestimate. For comparison the loss due to evaporation is estimated at 7.2 Acre Feet per year.

Impact on Operating Budget:

Continued loss of raw water through seepage.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	-	· -	-			-		-	1,532,200	1,532,200
Total	Revenue	-	-	-			-	-	-	\$1,532,200	\$1,532,200
Expense											
8202	Construction	-	-	-			-	-	-	1,256,000	1,256,000
8204	Contingency	-	-	-			-		-	188,400	188,400
8229	Professional Services	-	-	-			-	-	-	62,800	62,800
8232	Project Management - Labor	-	-	-			-		-	25,000	25,000
Total	Expense	-	-	-			-	-	-	\$1,532,200	\$1,532,200
Net Total		-	-	-			-			-	-



Lake Loveland Tower Cover

Project Number: N669 Budget Year: 2024

Division: WATER GENERAL MANAGEMENT **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement SupplyRegions:5- Outside CityFund:Water Capital ReplacementLocation:Lake LovelandProject Manager:Peter ChampionBudget Unit #:423New1

Project Status: Funded

Description:

Remove and replace 1 fiberglass cover over the Lake Loveland intake tower.

Discussion of Progress:

Planned for 2026.

Justification:

The existing cover is part of the original equipment installed in 1967. The current cover is failing from age. The failure of this cover will expose electrical equipment that was recently replaced inside.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	-		-	- 270,000	-		- 270,000
Total	Revenue	-	-	-	,	-	- \$270,000	-		- \$270,000
Expense										_
8202	Construction	-	-	-		-	- 150,000	-		- 150,000
8204	Contingency	-	-	-		-	- 100,000	-		- 100,000
8232	Project Management - Labor	-	-	-		-	- 20,000	-		- 20,000
Total	Expense	-	-	-		-	- \$270,000	-		- \$270,000
Net Total		-	-	-		-		=		



Ancillary System Improvements

Project Number: 12479 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement SupplyRegions:0 - All WardsFund:Water Capital ReplacementLocation:Citywide

Project Manager: Ryan Duve Budget Unit #: 4234401890070000000000

Project Status: Funded

Description:

This program provides contributions for capital repairs of irrigation ditches and pumping systems of which the City is part owner.

Discussion of Progress:

The W&S Raw Water Operations utilizes this budget on as needed basis. W&S Engineering and Raw Water Operations Dept. inspected the Bittersweet Ditch 4/13/23 and found sections of ditch that need cleaning and installation of pipe to prevent future maintenance and maintain ditch capacity.

A hydraulic flow test will be completed in 2023 to determine bottlenecks within the system. The Bittersweet Ditch conveys water to Greeley West Pump Station's storage pond. The pump station will be replaced and its capacity increased, The ditch will need to be capable of supplying sufficient flows to the pond.

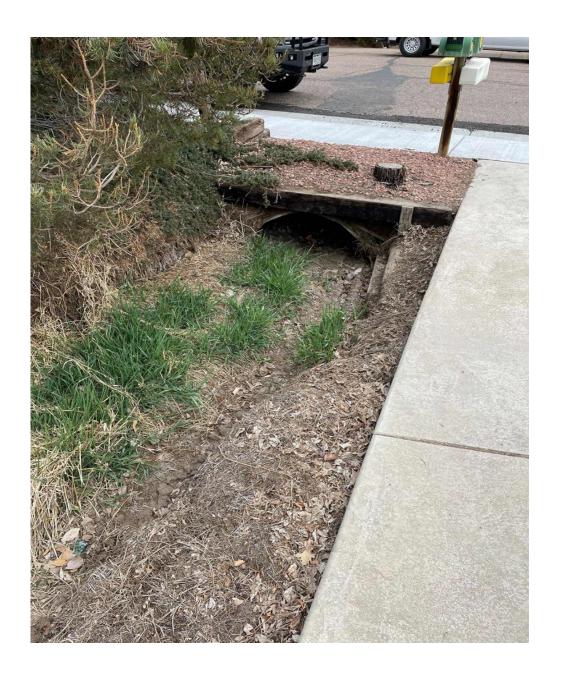
Justification:

As a part owner of various irrigation ditches, the department has the responsibility to participate in the cost and maintenance of aging ditch and lateral infrastructure.

Impact on Operating Budget:

Cost savings to City by maintaining and or improving system efficiency.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	208,508	-	50,000	50,000	52,000	54,000	56,000	58,000	320,000	848,508
5801	Sales Of Fixed Assets	-14,306	=	-	-	-	-	-	-	-	-14,306
Total I	Revenue	\$194,202	-	\$50,000	\$50,000	\$52,000	\$54,000	\$56,000	\$58,000	\$320,000	\$834,202
Expense											
8202	Construction	145,894	-	50,000	50,000	52,000	54,000	56,000	58,000	320,000	785,894
8224	Operating Supplies	490	-	-	-	-	-	-	-	-	490
8232	Project Management	47,818	-	-	-	-	-	-	-	-	47,818
Total I	Expense	\$194,202	-	\$50,000	\$50,000	\$52,000	\$54,000	\$56,000	\$58,000	\$320,000	\$834,202
Net Total	_	-	-	-	-	-	-	-	-	-	-



Non-Potable Replacement Rehabilitation

Project Number: 12586 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement SupplyRegions:0 - All WardsFund:Water Capital ReplacementLocation:Citywide

Project Manager: Ryan Duve **Budget Unit #:** 42344018901200000000000

Project Status: Funded

Description:

This item funds replacement or rehabilitation of non-potable pumps, piping, ponds, and related equipment, as well as expanding sites we currently have to add new customers. This is an on-going project.

Discussion of Progress:

W&S continues to maintain the City's non-potable water system by rebuilding pumps, replacing filters, repairing and or replacing piping that has corroded.

Justification:

Efficient economic operation of this program requires ongoing rehabilitation and replacement of features such as pumps, motors, controls, Supervisory Control and Data Acquisition (SCADA) equipment, pressure reducing valves, buildings and piping. Adding new HOAs, schools, parks and other customers to our existing sites to meet City Council's priority to develop more non-potable usage. Our goal is to add 3-4 new customers a year with this.

Impact on Operating Budget:

The non-potable division has taken on assets that were being maintained by Parks. The electric budget in operating has increased to account for the increased pumping capacity.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	437,046	589,382	1,314,110	504,100	702,000	490,100	513,500	537,000	3,046,700	8,133,938
4342	Intergovernmental Agreement	-	34,436	-	-	-	-	-	-	-	34,436
Total	Revenue	\$437,046	\$623,819	\$1,314,110	\$504,100	\$702,000	\$490,100	\$513,500	\$537,000	\$3,046,700	\$8,168,374
Expense											
8202	Construction	309,088	535,329	900,072	370,500	559,400	338,500	352,900	367,400	2,063,700	5,796,888
8204	Contingency	1,442	53,006	110,500	55,600	57,600	59,600	61,600	63,600	348,000	810,948
8216	Miscellaneous	122,313	-	20,000	-	-	-	-	-	-	142,313
8224	Operating Supplies	34,054	24,502	3,448	-	-	-	-	-	-	62,004
8229	Professional Services	-42,386	10,866	186,090	30,000	32,000	34,000	36,000	38,000	220,000	544,571
8232	Project Management	3,185	116	-	-	-	-	-	-	-	3,301
8242	Utility Services	-	-	31,000	-	-	-	-	-	-	31,000
8244	Capital Equipment >\$5,000	9,121	-	35,000	18,000	21,000	24,000	27,000	30,000	195,000	359,121
Total	Expense	\$437,046	\$623,819	\$1,314,110	\$504,100	\$702,000	\$490,100	\$513,500	\$537,000	\$3,046,700	\$8,168,374
Net Total		-	-	-	-	-	-	=	-	-	-



Milton Seaman Outlet Works

Project Number: 12576 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Supply **Regions:** 5- Outside City

Fund:Water Capital ReplacementLocation:Milton Seaman ReservoirProject Manager:Ryan DuveBudget Unit #:4234401890160000000000

Project Status: Funded

Description:

Complete design and construction of replacement outlet gates and engineering evaluation to determine if a multi-outlet tower can be intergrated at a later time to the proposed design of the outlet gates replacement project.

Discussion of Progress:

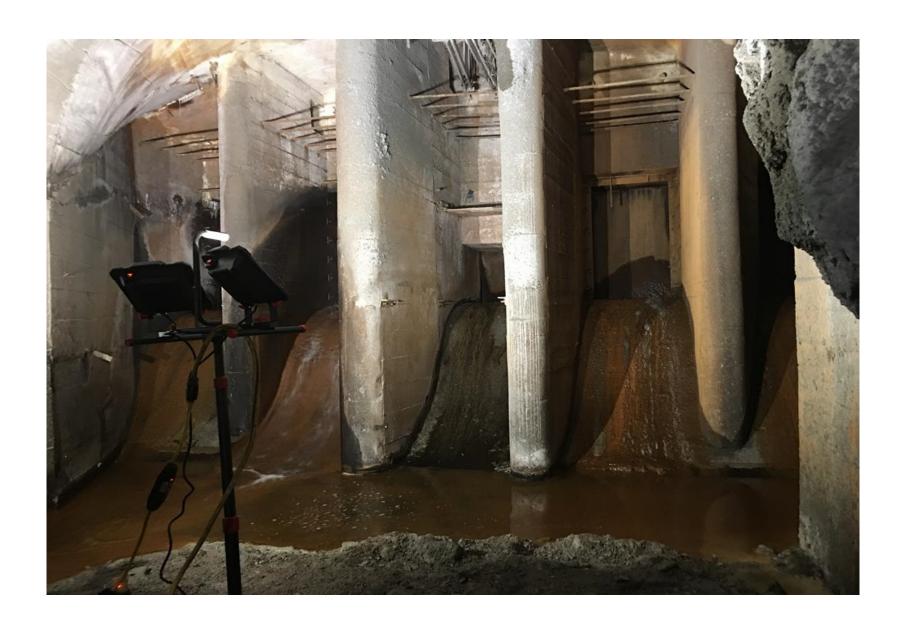
An engineering evaluation of alternatives and preliminary design to replace the original reservoir outlet gates was completed in 2017. Met with AECOM in February 2022 to discuss scope for additional study for integrating a multi-tower inlet.

The final designs and construction have been postponed until 2024 due to budgetary constraints.

Justification:

The original gates have withstood over 60 years of submergence in an anaerobic condition. The cast iron gate leaf seal channels have corroded and eroded to the point of compromising the brass seals allowing about 9 acre-feet/day to leak past the gates. This water is lost and can not be credited to our account.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	149,376	-	-	54,000	225,000	5,537,900	-		- 5,966,276
Total I	Revenue	\$149,376	-	•	\$54,000	\$225,000	\$5,537,900	-		- \$5,966,276
Expense										_
8202	Construction	2,080	-	-	-	-	4,746,000	-		- 4,748,080
8208	Furniture, Fixtures & Equipment	-	-	-	-	-	711,900	-		- 711,900
8229	Professional Services	140,068	-	-	-	10,000	-	-		- 150,068
8232	Project Management	5,323	-	-	-	-	-	-		- 5,323
8234	Project Management - Burdened	-	-	-	4,000	15,000	40,000	-		- 59,000
Total	Expense	\$149,376	-	-	\$54,000	\$225,000	\$5,537,900	-		- \$5,966,276
Net Total		-	-	-	-	-	-	-		



Bellyue Intake Maintenance Phase 2

Project Number: A307 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Supply **Regions:** 5- Outside City

Fund:Water Capital ReplacementLocation:Bellvue Water Treatment PlantProject Manager:Peter ChampionBudget Unit #:4231060890080000000000

Project Status: Funded

Description:

This project will repair damages to the Bellvue raw water intake (including patching exposed rebar in the weir, resurfacing the weir, and replacing a failing retaining wall) that were identified during construction of the 2017 maintenance project.

Discussion of Progress:

Design was completed for Phase 2 in 2019. Construction has been pushed back to 2027 due to higher priority needs in the capital program.

Justification:

Without this project, the damage to the weir and downstream retaining wall will continue to grow; the repair will be more extensive; and the repair costs will be more expensive.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	5	2026	2027	2028	Grand Total
Revenue											
	Fund Balance	13,907	-	-		-	-	-	8,255,000	120,000	8,388,907
Total	Revenue	\$13,907	-	-		-	-	-	\$8,255,000	\$120,000	\$8,388,907
Expense											_
8202	Construction	-	-	-		-	-	-	3,000,000	-	3,000,000
8204	Contingency	-	-	-		-	-	-	5,000,000	-	5,000,000
8216	Miscellaneous	-	-	-		-	-	-	100,000	-	100,000
8226	Permits, Fees, Etc	-	-	-		-	-	-	10,000	-	10,000
8229	Professional Services	12,379	-	-		-	-	-	100,000	75,000	187,379
8232	Project Management	1,441	-	-		-	-	-	-	-	1,441
Total	Expense	\$13,907	-	-		-	-	-	\$8,255,000	\$120,000	\$8,388,907
Net Total		-	-	-		-	-	-	-		-



Lead Service Line Inventory and Replacement

Project Number: 12736 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement Transmission & DistributionRegions:0 - All WardsFund:Water Capital ReplacementLocation:Citywide

Project Manager: Keri Fishlock Budget Unit #: 4234401890040000000000

Project Status: Funded

Description:

The Lead and Copper Rule Revisions (LCRR) are anticipated to go into effect on October 16, 2024. Currently, the City of Greeley (CO0162321) is deemed to have optimized corrosion control without treatment. The LCRR will require any large public water system deemed without treatment to complete corrosion control steps and/or removal lead or galvanized pipe downstream of lead services. This project will complete the lead service inventory, potholing to confirm data, and finally removal of any lead services found.

Discussion of Progress:

First phase of potholes is complete, in mid 2022 will be working on the first phase of lead replacements and the second phase of potholes. State Revolving Fund application for a subsidized loan to fund the project is in progress, and the State Historical Preservation Office has been notified of the region of the city funded work will be focused in.

Justification:

In 2021, the water system provided the department with lead data which resulted in a 90th percentile greater than 5 ppb. These results are from sample locations that have been verified via the department's Lead Outreach and Verification Effort. Once the LCRR becomes effective, a 90th percentile greater than 5 ppb would require that your water system complete the corrosion control steps and perform a corrosion control study (CCS). The new LCRR changed the definition of lead services that had historically been from main to meter and is not main to house. This change has resulted in potentially having lead services that must be minitigated and removed from the system.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue	•									
	Fund Balance	-	-	6,067,727	8,116,800	8,454,720	-	-		22,639,247
Total	Total Revenue		-	\$6,067,727	\$8,116,800	\$8,454,720	-	-		\$22,639,247
Expense										
8202	Construction	-	-	5,421,245	7,816,800	8,254,720	-	-		21,492,765
8208	Furniture, Fixtures & Equipment	-	-	130,000	-	-	-	-		130,000
8229	Professional Services	-	-	356,482	100,000	50,000	-	-		506,482
8232	Project Management - Labor	-	-	160,000	200,000	150,000	-	-		510,000
Total	Total Expense -		-	\$6,067,727	\$8,116,800	\$8,454,720	-	-		\$22,639,247
Net Total		-	-	-	-	-	-	-		-



Mosier Reservoir Rehab and Optimization

Project Number: 423New1 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Transmission & Distribution Regions:

Fund: Water Capital Replacement Location: Mosier Reservoir 13th St and 58th Ave

Project Manager: Unassigned Budget Unit #: Unassigned

Project Status: Funded

Description:

Design and construction of modifications based on the Optimization Study completed in 2023 to the existing reservoir facility to improve the facility, replace outdated electrical equipment, add in SCADA for the site, and improvements to the north pump station to pump into zone 2.

Discussion of Progress:

Design planned for 2024 with construction to start in 2025.

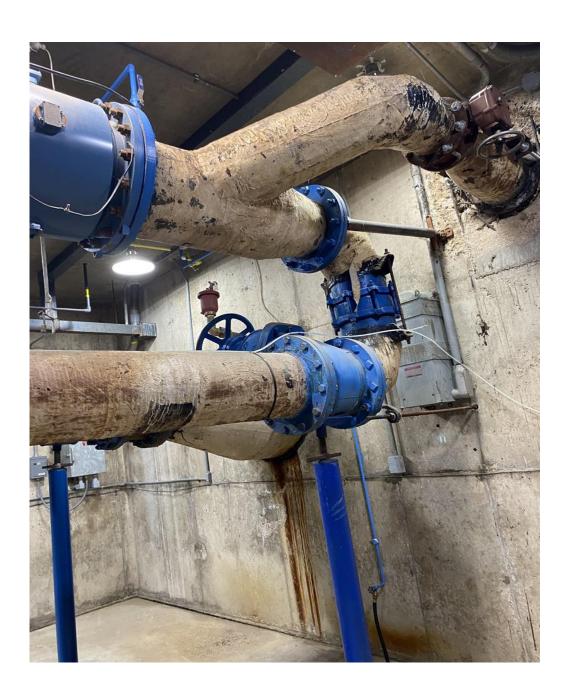
Justification:

There has not been any major modifications or rehab to the facility since it was built in 1962 and the north pump station that was built in 1973. The proposed improvements will improve water quality, reducing energy use, eliminate the risk of electrical failure, reduce pressures in zone 3, improve operations of the facility.

Impact on Operating Budget:

Anticipated a yet to be determined decrease in O&M budget from an extensive rehab of the site and reducing electricity costs for pumping.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										_
	Fund Balance	-	-	-	675,000	8,075,000	25,000	25,000		- 8,800,000
Total	Revenue	-	-	-	\$675,000	\$8,075,000	\$25,000	\$25,000		- \$8,800,000
Expense										
8202	Construction	-	-	-	-	7,000,000	-	-		- 7,000,000
8204	Contingency	-	-	-	-	700,000	-	-		- 700,000
8229	Professional Services	-	-	-	650,000	350,000	-	-		- 1,000,000
8232	Project Management - Labor	-	-	-	25,000	25,000	25,000	25,000		100,000
Total Expense		-	\$675,000	\$8,075,000	\$25,000	\$25,000		- \$8,800,000		
Net Total		-	-	-	-	-	-	-		



Transmission Lines 1 and 2 Reroute and Rehab - Schneider

Project Number: 423New14 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Transmission & Distribution Regions:

Fund: Water Capital Replacement Location: 83rd Ave and 4th St to 10th St at the Schneider Farm Development

Project Manager: Unassigned Budget Unit #: Unassigned

Project Status: Funded

Description:

This is a relocation and rehab of the existing Bellvue Transmission Line #1 (24") and #2 (20") which were installed in 1993 and 1931. This will relocate the line along 83rd Ave and 4th St to a 36" single water line. We anticipate that this project will be completed by the Schneider Developer as part of the development with a yet to be finalized contribution from the city.

Discussion of Progress:

Construction planned for 2024.

Justification:

The existing 1993 Bellvue Transmission Line #1 (24") is in fair condition and the 1931 Bellvue Transmision Line #2 (20") is in poor condition. This project allows for collaboration with the developer to reduce costs for rehab and save the W&S fund about \$1 million.

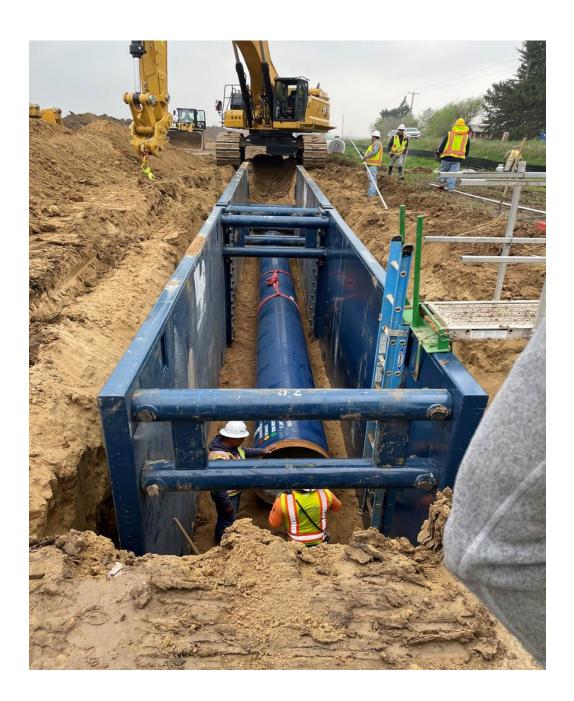
Revenue Detail:

Negotiations need to be finalized but we anticipate that Greeley will share the construction costs with the developer.

Impact on Operating Budget:

Reduced concerns for protecting the old lines and repairs to the 1991 cast iron joints that can leak.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	-	1,681,200	95,000	-	-		- 1,776,200
Total	Total Revenue -		-	-	\$1,681,200	\$95,000	=	-		- \$1,776,200
Expense										
8202	Construction	-	-	-	1,442,000	-	-	-		- 1,442,000
8204	Contingency	-	-	-	144,200	-	-	-		- 144,200
8229	Professional Services	-	-	-	75,000	75,000	-	-		- 150,000
8232	Project Management - Labor	-	-	-	20,000	20,000	-	-		- 40,000
Total	Total Expense		-	\$1,681,200	\$95,000	-	-		- \$1,776,200	
Net Total		-	-	-	-	=	=	=		



Transmission Lines 1 and 2 Rehab - Cache to Poudre River

Project Number: 423New15 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Transmission & Distribution Regions:

Fund: Water Capital Replacement Location: 4th St and 89th Ave to the Poudre River

Project Manager: Unassigned Budget Unit #: Unassigned

Project Status: Description:

This project is the replacement of the existing Bellvue Transmission Line #1 (24") and #2 (20") which were installed in 1993 and 1931. This will replace the lines in the same alignment as a 36" single water line.

Discussion of Progress:

Design planned for 2024 with construction in 2025-2027.

Funded

Justification:

The existing 1993 Bellvue Transmission Line #1 (24") is in fair condition and the 1931 Bellvue Transmission Line #2 (20") is in poor condition. This project addresses existing issues and reduces the overall length of waterline to be maintained in the future.

Impact on Operating Budget:

Reduced concerns for protecting the old lines and repairs to the 1991 cast iron joints that can leak.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	-	380,000	3,997,900	140,000	4,404,250	115,000	9,037,150
Total I	Revenue	-	-	-	\$380,000	\$3,997,900	\$140,000	\$4,404,250	\$115,000	\$9,037,150
Expense										
8202	Construction	-	-	-	-	3,698,000	-	4,085,000	-	7,783,000
8204	Contingency	-	-	-	-	184,900	-	204,250	-	389,150
8229	Professional Services	-	-	-	325,000	75,000	100,000	75,000	75,000	650,000
8232	Project Management - Labor	-	-	-	40,000	40,000	40,000	40,000	40,000	200,000
8235	Real Estate - Internal Chgs Only	-	-	-	15,000	-	-	-	-	15,000
Total	Total Expense		-	\$380,000	\$3,997,900	\$140,000	\$4,404,250	\$115,000	\$9,037,150	
Net Total		-	-	-	-	-	-	-	-	-

8th Avenue Waterline Replacement

Project Number: 423New16 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Transmission & Distribution Regions:

Fund: Water Capital Replacement **Location:** 8th Ave from 5th St. to 25th St

Project Manager: Unassigned Budget Unit #: Unassigned

Project Status: Funded

Description:

Project is to Install 8-12" waterline to replace the existing 4-12" mainline on 8th Avenue in collaboration with the Public Works road project.

Discussion of Progress:

Design is planned for 2025 with construction in 2026-2028.

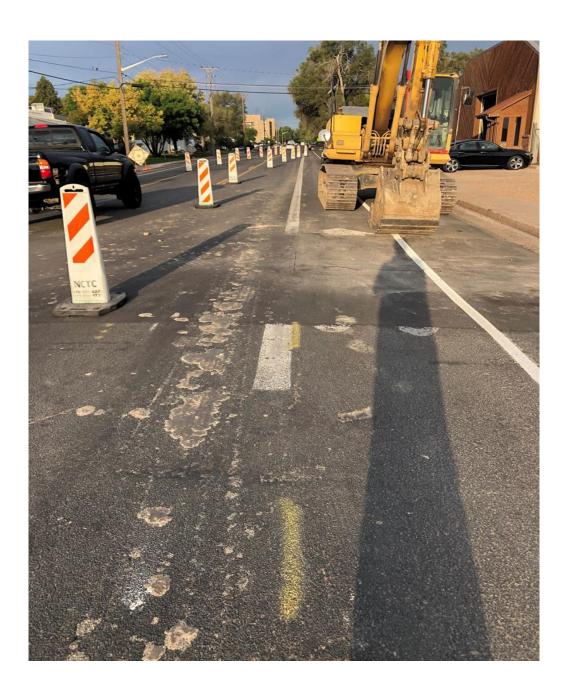
Justification:

The existing waterline on 8th Avenue was constructed in the 1920s-1940s. Public Works is planning a major road reconstruction project that will be a welcoming corridor for the City of Greeley.

Impact on Operating Budget:

New pipe is replacing existing aging infrastructure, which will decrease the likelihood of leaks in this area and protect the new roadway infrastructure from damage due to waterline leaks.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024		2025	2026	2027	2028	Grand Total
Revenue											_
	Fund Balance	-	-	-		-	113,200	946,000	946,000	946,000	2,951,200
Total	Revenue	-	-	•		-	\$113,200	\$946,000	\$946,000	\$946,000	\$2,951,200
Expense										,	-
8202	Construction	-	-	-		-	-	742,500	742,500	742,500	2,227,500
8204	Contingency	-	-	-		-	-	107,500	107,500	107,500	322,500
8229	Professional Services	-	-	-		-	103,200	86,000	86,000	86,000	361,200
8232	Project Management - Labor	-	-	-		-	10,000	10,000	10,000	10,000	40,000
Total Expense		-		-	\$113,200	\$946,000	\$946,000	\$946,000	\$2,951,200		
Net Total		-	-	-		-	-	-	-	-	-



9th and 10th Streets Waterline Replacement

Project Number: 423New2 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Transmission & Distribution Regions:

Fund: Water Capital Replacement Location: 9th and 10th Streets from 10th Ave to 23rd Ave

Project Manager: Unassigned Budget Unit #: Unassigned

Project Status: Funded

Description:

Install 8" waterline to replace the existing 4" and 6" mainline on 9th and 10th Streets and making system connections in collaboration with the Public Works road project.

Discussion of Progress:

Design planned for 2024 with construction planned in 2025 and 2026.

Justification:

Portions of this project were identified as part of the Water Transmission and Distribution Master Plan as necessary for fire flow. The existing waterline on 9th Street is 4" and over 100 years old. 10th Street has 4" and 6" waterlines built in the 1940s and 1960s with several leaks. Public Works is planning major reconstruction and reconfiguration of the overlying roadways.

Impact on Operating Budget:

New pipe is replacing existing aging infrastructure, which will decrease the likelihood of leaks in this area and protect the new roadway infrastructure from damage due to waterline leaks.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	-	150,000	1,702,500	1,702,500	-		- 3,555,000
Total Revenue		-	-	-	\$150,000	\$1,702,500	\$1,702,500	-		- \$3,555,000
Expense				-						-
8202	Construction	-	-	-	-	1,476,563	1,476,563	-		- 2,953,126
8204	Contingency	-	-	-	-	140,625	140,625	-		- 281,250
8229	Professional Services	-	-	-	135,000	70,312	70,312	-		- 275,624
8232	Project Management - Labor	-	-	-	15,000	15,000	15,000	-		- 45,000
Total Expense		-	\$150,000	\$1,702,500	\$1,702,500	-		- \$3,555,000		
Net Total		-	-	-	-	-	-	-	-	



23rd Avenue Reservoir Replacements

Project Number: 423New3 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Transmission & **Regions:**

Fund: Water Capital Replacement Location: 2503 RESERVOIR RD

Project Manager:UnassignedBudget Unit #:UnassignedProject Status:Funded

Description:

Demolition of 2 out of service reservoirs, design and construct piping replacements, upgrades. Design and construct a new 5MG treated water storage tank in the 2031+ time frame.

Discussion of Progress:

Evaluating updates needed to accommodate near term needs, and planning for replacement to start in 2032 and continue in 2033 and 2034. On going assessments of the tanks will inform additional plans.

Justification:

Three reservoirs at 23rd Ave were taken out of service due to regulatory compliance issues in 2022. Treated water storage capacity will need to replace the long-range capacity based on Master Plan. In the near term the site needs to be cleaned up, the out of service tanks demolished or repurposed, and piping for Pressure Zone 1 needs to be updated to utilize Mosier Hill storage.

Revenue Detail:

The department is seeking a subsidized loan from the Colorado Drinking Water Revolving Fund for up to 50% of the costs to mitigate some of the impacts to rate payers of the near term plans. Revolving fund loans would likely be an option for the future replacement assuming the state continues the program.

Impact on Operating Budget:

Limited inspections and maintenance items will need to be included in operations budget. Reduced O&M compared to previous tanks.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance			-	3,510,000	10,000	-	-	-	12,960,000	16,480,000
Total I	Revenue			-	\$3,510,000	\$10,000	-	=	-	\$12,960,000	\$16,480,000
Expense				-							
8202	Construction			-	2,500,000	-	-	-	-	10,000,000	12,500,000
8204	Contingency			-	225,000	-	-	-	-	900,000	1,125,000
8212	Land/Building			-	750,000	-	-	-	-	=	750,000
8229	Professional Services			-	-	-	-	-	-	1,900,000	1,900,000
8232	Project Management - Labor			-	35,000	10,000	-	-	-	60,000	105,000
9303	Public Art Fund			-	-	-	-	-	-	100,000	100,000
Total I	Expense			-	\$3,510,000	\$10,000	-	-	-	\$12,960,000	\$16,480,000
Net Total				-	-	-	-	-	-	-	-



Island Grove Park Waterline Replacement

Project Number: 423New5 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Transmission & Distribution Regions:

Fund: Water Capital Replacement Location: D Street from 11th Ave to 15th Ave

Project Manager: Unassigned Budget Unit #: Unassigned

Project Status: Funded

Description:

Install 16" waterline to replace the existing 8" on D Street (Vern Schaffer Boulevard) from 11th Ave to 14th Ave and abandon the existing 12" through the park. This project also replaces the 4" waterline from 14th Ave to 15th Ave with an 8" waterline to enhance fire flows to Island Grove Park.

Discussion of Progress:

Design is planned for 2024 and 2025 with construction in 2026.

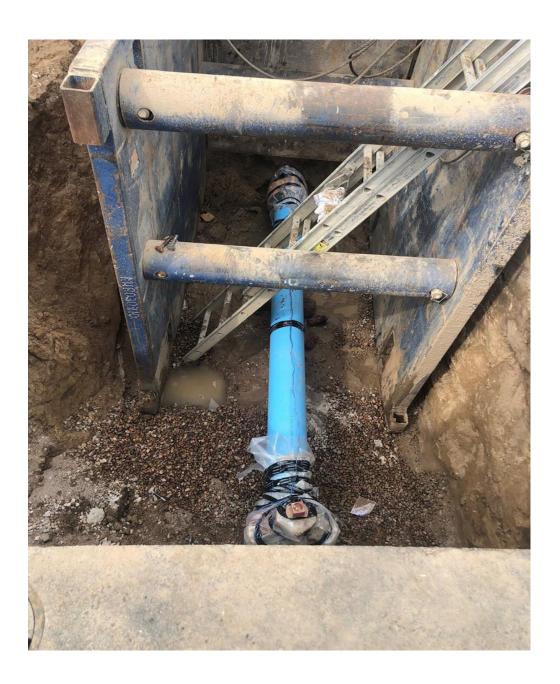
Justification:

This project was identified as three projects in the Water Transmission and Distribution Master Plan that were necessary to replace aging infrastructure, provide capacity improvements, and for fire flow. The existing waterlines are 16" and 4".

Impact on Operating Budget:

New pipe is replacing existing aging infrastructure, which will decrease the likelihood of leaks in this area. The total pipe in the system will decrease reducing future operational costs. This project also has capacity improvements to provide better protection for fire flow.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	-	133,000	138,000	1,630,520	-		- 1,901,520
Total	Revenue	-	-	-	\$133,000	\$138,000	\$1,630,520	-		- \$1,901,520
Expense										
8202	Construction	-	-	-	-	-	1,052,000	-		- 1,052,000
8204	Contingency	-	-	-	-	-	368,000	-		- 368,000
8229	Professional Services	-	-	-	128,000	128,000	185,000	-		- 441,000
8232	Project Management - Labor	-	-	-	5,000	10,000	15,000	-		- 30,000
9303	Public Art Fund	-	-	-	-	-	10,520	-		- 10,520
Total	Total Expense		-	\$133,000	\$138,000	\$1,630,520	-		- \$1,901,520	
Net Total		-	-	-	-	-	-	-		



Transmission System Corrosion Protection

Project Number: 423New6 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Transmission & **Regions:**

Fund: Water Capital Replacement Location: Boyd and Bellvue WTP to Citywide

Project Manager: Unassigned Budget Unit #: Unassigned

Project Status: Funded

Description:

Greeley maintains and extensive water transmission system with three pipelines from the Bellvue Water Treatment Plant and one pipeline from the Boyd Lake Water Treatment Plant into and through the city. The system includes cathodic protection: sacrificial and electrical devices intended to protect the components of the transmission system from corrosion.

Discussion of Progress:

Design and construction will begin in 2024 with intial construction complete in 2028. Project includes an ongoing maintenance cost of the system from 2029 - 2033.

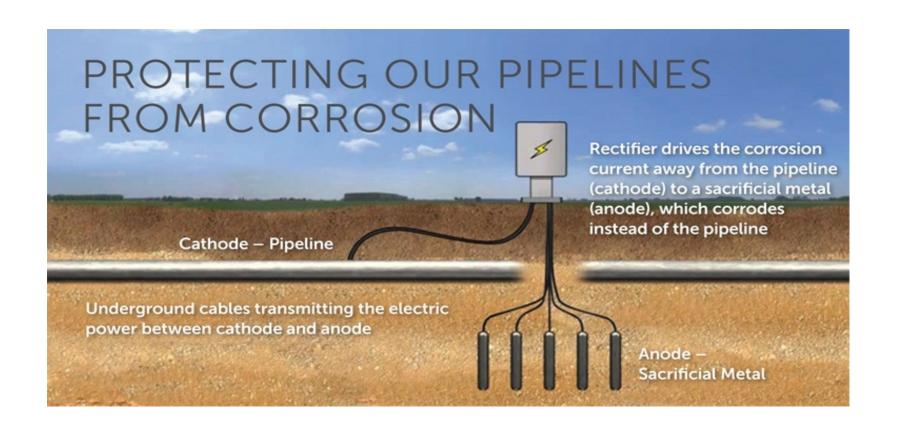
Justification:

The condition assessment in 2019 found that most of Greeley's transmission pipes were unprotected from corrosion, likely due to electrical isolation and continuity issues. Numerous studies have shown that a proactive, comprehensive external corrosion control program can extend the life of an asset nearly indefinitely. Corrosion remains the #1 threat to today's aging infrastructure and if not properly mitigated, can result in operational outages, substantial repair or replacement costs, and/or life-threatening and environmental damage. A properly designed and implemented external corrosion control program can be implemented for less than 10% of the total replacement cost of an asset, therefore making it a viable and cost-effective solution to maintain critical infrastructure.

Impact on Operating Budget:

Properly maintained corrosion protection will reduce the likelihood of leaks in the transmission system.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance			-	582,300	642,900	360,000	360,000	360,000	250,000	2,555,200
Total	Revenue			-	\$582,300	\$642,900	\$360,000	\$360,000	\$360,000	\$250,000	\$2,555,200
Expense											
8202	Construction			-	491,000	557,000	300,000	300,000	300,000	250,000	2,198,000
8204	Contingency			-	49,100	55,700	30,000	30,000	30,000	-	194,800
8229	Professional Services			-	37,200	25,200	25,000	25,000	25,000	=	137,400
8232	Project Management - Labor			-	5,000	5,000	5,000	5,000	5,000	-	25,000
Total	Expense			-	\$582,300	\$642,900	\$360,000	\$360,000	\$360,000	\$250,000	\$2,555,200
Net Total				-	-	-	-	-	-	-	-



Zone 4 Electrical Upgrade

Project Number: 423New7 Budget Year:

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Transmission & Regions:

Fund: Water Capital Replacement Location: 40.393355, -104.887573

Project Manager: Unassigned Budget Unit #: Unassigned

Project Status: Funded

Description:

Upgrade of the electrical equipment serving the distribution system for Zone 4 at the Gold Hill tank site. The project will be to replace and relocate the Variable Frequency Drives (VFD) for the water pumps used at the tank site. Additionally, the project will replace the electrical transformers and other equipment that have reached their end of life and simultaneously upgrade the safety and protection for personnel on the site.

2024

Discussion of Progress:

Lead times of up to two years are forecasted for new electrical transformers so the schedule is to order those and the VFDs in 2024 with construction planned for 2026.

Justification:

The current electrical equipment serving Zone 4 at the Gold Hill tank site is at end of life. The transformer needs to be replaced to due to making a lot of noise. The VFDs for the water pumps are located in the pump station underground and need to be relocated to the upstairs electrical building. Having the VFD below grade in the pump station is a safety risk to the operators and maintenance staff. If the electrical equipment fails, the pump station will be without power, and it increases the risk of someone getting killed or hurt in the in the event of a fault in the vault.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	-	305,000	-	350,000	-		- 655,000
Total	Revenue	-	-	-	\$305,000	-	\$350,000	-		- \$655,000
Expense										
8202	Construction	-	-	-	-	-	300,000	-		300,000
8204	Contingency	-	-	-	-	-	50,000	-		50,000
8229	Professional Services	-	-	-	30,000	-	-	-		- 30,000
8244	Capital Equipment >\$5,000	-	-	-	275,000	-	-	-		- 275,000
Total	Expense	-	-	-	\$305,000	-	\$350,000	-		- \$655,000
Net Total		-	-	-	-	-	-	-		-

Water and Sewer Facilities Program

Project Number: 12674 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Transmission & Distribution **Regions:** 1- 16 St North/35 Ave East

Fund: Water Capital Replacement Location: TBD

Project Manager: Cadee Oakleaf Budget Unit #: 4234401870010000000000

Project Status: Funded

Description:

A site will be developed to house water and sewer, public works, and CPRD crews.

Discussion of Progress:

Multiple site locations were evaluated by City Staff in the first part of 2020 for consideration. A site was selected off of F-Street for further evaluation through a feasibility study started in 2021. The feasibility study includes evaluation for occupancy by Water and Sewer, Public Works, and Culture Parks and Recreation.

Design is planned for 2024 with construction in 2025-2027.

Justification:

Water and Sewer field operations staff need to move out of the City's A Street facility to free up additional space for Public Works staff. In addition, the building that the water crews are currently housed in is in poor condition and is not centrally located resulting in significant travel times for staff to get to the west side of the City. Public Works and CPRD also need additional space and it was determined that economically and for functionality a shared facility was in the best interest of the City.

Impact on Operating Budget:

Will add efficiencies to the operations staff and decrease maintenance costs on equipment.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	67,827	-	-	775,000	16,420,000	2,165,000	65,000	-	19,492,827
Total Revenue \$67.		\$67,827	-	-	\$775,000	\$16,420,000	\$2,165,000	\$65,000	-	\$19,492,827
Expense				-						
8202	Construction	-	-	-	-	14,000,000	-	-	-	14,000,000
8204	Contingency	-	-	-	-	1,120,000	100,000	-	-	1,220,000
8208	Furniture, Fixtures & Equipment	-	-	-	-	-	1,000,000	-	-	1,000,000
8226	Permits, Fees, Etc	-	-	-	-	25,000	-	-	-	25,000
8229	Professional Services	5,541	-	-	750,000	1,250,000	1,000,000	-	-	3,005,541
8232	Project Management	61,283	-	-	-	-	-	-	-	61,283
Total	Total Expense \$67,827 -		-	\$775,000	\$16,420,000	\$2,165,000	\$65,000	-	\$19,492,827	
Net Total		-	-	-	-	-	-	-	-	-



Utility Billing Replacement-Water

Water Capital Replacement

Project Number: 12662 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Location:

Project Type: Water Replacement Transmission & Distribution Regions: 0 - All Wards

Project Manager: Erik Dial Budget Unit #: 4234401870010000000000

Project Status: Description:

Fund:

The current Utility Billing software (called Customer Information Systems, or a CIS, in the utility business) is at its end of life. It will be replaced with a new system that will significantly enhance customer service and reporting capabilities. Staff had started the process to select a new CIS in 2019 and 2020, but paused to enable City staff to focus on the ERP project that was nearing completion. A new CIS is needed to meet the expected customer service level for Greeley's utility customers.

Citywide

Discussion of Progress:

A solicitation will begin in May 2023 and a vendor will likely be selected by the end of 2023 or the start of 2024.

Justification:

The current Utility Billing software is currently being supported by the vendor, but it is not being enhanced and is falling behind in it's competitors in it's ability to support Greeley's customers. A new system is needed. This will be funded by the Water, Sewer, and Stormwater funds.

Revenue Detail:

The new CIS will enable a number of important changes to billing practices that are not possible with the current system.

Impact on Operating Budget:

The annual maintenance for the CIS will increase when Greeley transitions to a new system.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	72,462	-	4,489,246	5,250,000	-	-	-		9,811,708
Total	Revenue	\$72,462	-	\$4,489,246	\$5,250,000	-	-	-		\$9,811,708
Expense										
8208	Furniture, Fixtures & Equipment	652	-	8,800	50,000	-	-	-		59,452
8229	Professional Services	71,810	-	4,245,446	4,550,000	-	-	-		8,867,256
8232	Project Management - Labor	-	-	235,000	650,000	-	-	-		- 885,000
Total	Total Expense \$72,462			\$4,489,246	\$5,250,000	-	-	-		\$9,811,708
Net Total		-	-	-	-	-	-	-	,	-



City of Greeley Director of Finance P.O. Box 1928 Greeley, CO 80632-1928

Statement of Account for Utility Service(s)

Outdoor 21

Used

28

9

8

Total 28

Amount

\$108.64

\$42.66

\$30.20

\$68.96

\$11.83

\$165.74-

\$10.74

\$262.29

\$15.72

Rate

3.97

4.85

6.62

8.82

THIS BILL SHOWS A PREVIOUS AMOUNT DUE. PLEASE REMIT AT EARLIEST CONVENIENCE. IF PYMT HAS BEEN MADE, THANK YOU.

BUDGET: Indoor 7

RESIDENTIAL WATER

Base Charge

Payments Bal Fwd

Water Budget (0% to 100%)

Unsustainable Use (>150%)

RESIDENTIAL WATER

RESIDENTIAL SEWER

Inefficient Use (>100% to 130%)

Excessive Use (>130% to 150%) 5

ACCOUNT INFORMATION Account Number 222-22222-22 Service 2000 GREELEY AVENUE CT Location Persons in Household: 4 Irrigable Area: 7799

METER INFORMATION										
Meter ID	Date	Curr Read	Date	Prev Read	Usage					
97403425U	09/28	750	08/28	700	50					

CONSUMPT	ION HISTO	ORY		
				_
			CONSUMPTION HISTORY (Usage in thousand gallons)	

STORMWATER	\$11.09
CURRENT CHARGES	\$289.10
TOTAL DUE ON 10/18/17	\$299.84

WATER CONSERVATION MESSAGES

Water Budget

HOW DO YOU MEASURE UP? CHECK OUT YOUR WATER BUDGET AT WWW.EFFICIENCYREWARDED.COM WHAT IS IT?, UPDATE YOUR PROFILE, FAQS, CHECK OUT THE WATER BUDGET WEBMAP. SIGNUP FOR WATERSMART AND MORE...

THE WATER CONSERVATION PROGRAM OFFERS FREE AUDITS. WINTER IS THE TIME TO GET AN INDOOR AUDIT OR SIGN UP FOR A SPRINKLER SYSTEM AUDIT NEXT SUMMER. SIGN UP AT GREELEYGOV.COM/AUDITS OR CALL 970-336-4229

LEAK ALERT POTENTIAL LEAK HAS BEEN DETECTED PLEASE MAKE ANY NECESSARY REPAIRS

QUESTIONS? CALL 970-350-9260

TO PAY YOUR BILL USING YOUR DEBIT OR CREDIT CARD WITH NO ADDITIONAL FEES, GO TO WWW.GREELEYGOV.COM/UTILITYBILL

PARA PAGAR SU FACTURA CON TARJETA DE DEBITO O CREDITO SIN CARGOS ADICIONALES, VAYA A: WWW.GREELEYGOV.COM/UTILITYBILL

YOUR STORMWATER FEE IS CALCULATED USING THE SQFT SHOWN BELOW. QUESTIONS? CALL 970-336-4074 Stormwater SQFT: 12201

DETACH AT PERFORATION AND RETURN WITH YOUR REMITTANCE									
Account Number	Service Location	Due Date	Amount Due	Amount Enclosed					
222-22222-22	2000 GREELEY AVENUE CT	10/18/17	\$289.10						



City of Greeley Director of Finance P.O. Box 1928 Greeley, CO 80632-1928

GREELEY CUSTOMER 2 2000 GREELEY AVENUE CT GREELEY CO 80634

Treated Water Reservoir Rehabilitation

Project Number: 12652 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement Transmission & Regions:0 - All WardsFund:Water Capital ReplacementLocation:Citywide

Project Manager: Adam Prior Budget Unit #: 4234401890100000000000

Project Status: Funded

Description:

This project will fund the required rehabilitation of the four treated water tanks and reservoirs. The projects may include pumps, motors, structural repairs, floating covers, asphalt driveways, and other miscellaneous reservoir related rehabilitation requirements. This is an on-going project. (2023-2025 will address potential pump and motor replacements at Zone 4 pump and Tower and Mosier.)

Discussion of Progress:

Planning in progress for replacements at Gold Hill and Mosier.

Justification:

Council priority to maintain critical infrastructure. Concrete and steel reservoir and tanks require major structural repairs and maintenance approximately every 20 years. These 4 major facilities also contain numerous large pumps and control valves that also need repairs and maintenance in addition to the maintenance of the respective reservoir sites.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	125,270	28,515	4,232,836	574,500	435,500	279,500	207,500	873,500	947,500	7,704,622
Total	Revenue	\$125,270	\$28,515	\$4,232,836	\$574,500	\$435,500	\$279,500	\$207,500	\$873,500	\$947,500	\$7,704,622
Expense											
8202	Construction	14,267	28,515	2,672,476	437,325	319,175	186,575	125,375	691,475	550,375	5,025,558
8204	Contingency	-	-	50,000	50,000	50,000	50,000	50,000	50,000	250,000	550,000
8208	Furniture, Fixtures & Equipment	-	-	31,796	-	-	-	-	=	-	31,796
8212	Land/Building Cost/Demolition	-	-	1,058,420	-	-	-	-	-	-	1,058,420
8224	Operating Supplies	51,924	-	58,000	-	-	-	-	-	-	109,924
8229	Professional Services	26,386	-	286,443	77,175	56,325	32,925	22,125	122,025	97,125	720,529
8232	Project Management	32,694	-	-	-	-	-	-	-	-	32,694
8244	Capital Equipment >\$5,000	-	-	35,701	-	-	-	-	-	-	35,701
Total	Expense	\$125,270	\$28,515	\$4,232,836	\$574,500	\$435,500	\$279,500	\$207,500	\$873,500	\$947,500	\$7,704,622
Net Total		-	-	-	-	-	-	-	-	-	-



Instrumentation & Controls - Water

Project Number: 12556 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement Transmission & Regions:5- Outside CityFund:Water Capital ReplacementLocation:Citywide

Project Status: Funded

Description:

This program replaces and refurbishes instruments and control systems known as SCADA (Supervisory Control and Data Acquisition). These devices are used to operate water and sewer systems, including recording data required by regulation and measurement and control of various chemicals. This is an on-going project.

Discussion of Progress:

Ongoing annual program to maintain the water system I&C.

Justification:

Instrumentation and controls wear out or become obsolete over time, requiring replacement or major refurbishment. Refurbishment typically occurs at the facilities of the local supplier or manufacturer. City instrumentation technicians perform the replacement projects. This account includes instruments at all water facilities and pipelines.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	489,918	10,069	214,116	196,000	196,000	196,000	196,000	196,000	980,000	2,674,103
5761	Other Rebates	4,900	-	-	-	-	-	-	-	-	4,900
Total	Revenue	\$494,818	\$10,069	\$214,116	\$196,000	\$196,000	\$196,000	\$196,000	\$196,000	\$980,000	\$2,679,003
Expense											
8202	Construction	11,849	-	50,000	50,000	50,000	50,000	50,000	50,000	250,000	561,849
8204	Contingency	-	-	17,800	18,000	18,000	18,000	18,000	18,000	90,000	197,800
8208	Furniture, Fixtures &	73,628	-	54,874	50,000	50,000	50,000	50,000	50,000	250,000	628,502
8216	Miscellaneous	7,618	-	5,000	5,000	5,000	5,000	5,000	5,000	25,000	62,618
8224	Operating Supplies	170,710	2,030	5,000	5,000	5,000	5,000	5,000	5,000	25,000	227,739
8229	Professional Services	21,493	-	63,000	63,000	63,000	63,000	63,000	63,000	315,000	714,493
8232	Project Management	183,828	-	-	-	-	-	-	-	-	183,828
8244	Capital Equipment >\$5,000	25,692	8,039	18,442	5,000	5,000	5,000	5,000	5,000	25,000	102,173
Total	Expense	\$494,818	\$10,069	\$214,116	\$196,000	\$196,000	\$196,000	\$196,000	\$196,000	\$980,000	\$2,679,003
Net Total		-	-	-	-	-	-	-	-	-	-

Meter Replacement

Project Number: 12575 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement Transmission & Regions:0 - All WardsFund:Water Capital ReplacementLocation:Citywide

Project Manager: John Goin Budget Unit #: 423440189009000000000

Project Status: Funded

Description:

This program funds the replacement of both large and small water meters and their related components as they wear out or fail; this is an on-going project.

Discussion of Progress:

This project is the replacement of existing failing water meters with more accurate meters and improved communications. Advanced metering infrastructure (AMI) is a communication tool that enables nearly constant communication between the water meter and the utility. Meter readings can occur every 15 minutes, making leak detection much more effective.

Justification:

Meter accuracy is paramount for revenue collection, therefore all meters and end-points are replaced when they fail, which is approximately every ten to fifteen years. In 2014, a new federal law requires any new meter to the system be constructed with "no-lead". These meters cost approximately 50% more than the current system meters and requires any meter removed for maintenance be replaced with a no-lead meters.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	525,160	30,004	101,068	100,000	100,000	100,000	100,000	100,000	500,000	1,656,232
Total I	Revenue	\$525,160	\$30,004	\$101,068	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000	\$1,656,232
Expense											
8208	Furniture, Fixtures &	81,671	30,004	85,068	80,000	80,000	80,000	80,000	80,000	400,000	996,742
8216	Miscellaneous	14,170	-	6,000	10,000	10,000	10,000	10,000	10,000	50,000	120,170
8224	Operating Supplies	394,200	-	10,000	10,000	10,000	10,000	10,000	10,000	50,000	504,200
8229	Professional Services	7,500	-	-	-	-	-	-	-	-	7,500
8232	Project Management	27,619	-	-	-	-	-	-	-	-	27,619
Total	Expense	\$525,160	\$30,004	\$101,068	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000	\$1,656,232
Net Total		-	-	-	-	-	-	-	-	-	-



Transmission System Rehabilitation

Project Number: 12649 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Transmission & **Regions:** 5- Outside City

Fund: Water Capital Replacement Location: Citywide and Along the Major Transmission Line from Bellvue and Boyd Filter Plants

Project Status: Funded

Description:

This project will fund all types of required rehabilitation or replacement of the treated water transmission system. Projects may include the protection of pipe joints, pipe replacement, cathodic protection, lining of pipe, minor upgrades, and repairs to piping for protection prior to impending development. This is an on-going project in part utilizing inhouse design and construction.

Discussion of Progress:

Annual project to rehab the aging portions of the transmission system.

Justification:

Council priority to maintain critical infrastructure. This program is intended to maintain and protect assets worth over \$105,000,000 (replacement value) and restore and prolong the useful life of the 138 miles of older pipeline. Bellvue's pipelines were constructed between 1923- 1969 and 31 miles have been rehabilitated by cement mortar or poly lining. The Boyd lines were constructed in 1967 and 1973. The rehabilitation schedule will be adjusted to meet the most pressing priority.

				2000 5 1							
GL Account	Description	Previous 3 Years	2022 Actual	2023 Revised Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue	Description		ZOZZ ACTUAL	Dauget	2024					· utu.c	Grand rotal
	Fund Balance	5,289,048	1,653,258	2,484,276	1,046,000	1,046,000	1,046,000	1,046,000	1,046,000	5,230,000	19,886,582
4322	State Pass Through	86,252	-	-	-	-	-	-	-	-	86,252
4789	Expense Reimbursement	557,215	-	-	-	-	-	-	-	-	557,215
Total	Revenue	\$5,932,516	\$1,653,258	\$2,484,276	\$1,046,000	\$1,046,000	\$1,046,000	\$1,046,000	\$1,046,000	\$5,230,000	\$20,530,050
Expense											
8202	Construction	5,253,183	1,562,675	2,264,742	800,000	800,000	800,000	800,000	800,000	4,000,000	17,080,600
8204	Contingency	44,406	-	59,777	120,000	120,000	120,000	120,000	120,000	600,000	1,304,183
8208	Furniture, Fixtures & Equipment	4,746	-	-	-	-	-	-	-	-	4,746
8212	Land/Building Cost/Demolition	-	-	4,000	10,000	10,000	10,000	10,000	10,000	50,000	104,000
8216	Miscellaneous	97	-	1,000	1,000	1,000	1,000	1,000	1,000	5,000	11,097
8224	Operating Supplies	64,537	-	25,000	50,000	50,000	50,000	50,000	50,000	250,000	589,537
8226	Permits, Fees, Etc	309	-	10,000	25,000	25,000	25,000	25,000	25,000	125,000	260,309
8229	Professional Services	393,780	-	114,757	25,000	25,000	25,000	25,000	25,000	125,000	758,537
8232	Project Management	132,580	-	-	-	-	-	-	-	-	132,580
8233	Project Management - Benefits	1,000	-	-	-	-	-	-	-	-	1,000
8235	Real Estate - Internal Chgs Only	-	90,583	-	-	-	-	-	-	-	90,583
8244	Capital Equipment >\$5,000	9,790	-	-	-	-	-	-	-	-	9,790
Total	Expense	\$5,932,516	\$1,653,258	\$2,484,276	\$1,046,000	\$1,046,000	\$1,046,000	\$1,046,000	\$1,046,000	\$5,230,000	\$20,530,050
Net Total		-	-	-	-	-	-	-	-	-	-



Distribution Pipeline Replacement

Project Number: 12525 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement Transmission & Regions:0 - All WardsFund:Water Capital ReplacementLocation:Citywide

Project Manager: Rebecca Andrus Budget Unit #: 4234401890040000000000

Project Status: Funded

Description:

This will provide replacement and/or rehabilitation of pipes that exhibit corrosion or have a leak history. Pipes that are too small are replaced and enlarged to increase flow capacity. Various rehabilitation methods such as cement mortar lining, swage lining, and pipe bursting may be used. Every two years projects are prioritized based on paving project coordination and other factors. Projects are split between COG crews and CMAR contract crews.

Discussion of Progress:

Annual project for rehabilitation of the city's extensive water distribution system. Budget includes estimated costs for unforeseen leak and breakages.

Justification:

Council priority to maintain critical infrastructure. This program reduces the number of emergency repairs and customer complaints by improving the flow quantity and service for customers and fire protection. Water quality is also improved and chlorination is more effective.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	6,542,559	491,797	3,010,332	2,400,000	2,324,000	2,134,000	1,719,000	2,096,000	10,480,000	31,197,688
Total	Revenue	\$6,542,559	\$491,797	\$3,010,332	\$2,400,000	\$2,324,000	\$2,134,000	\$1,719,000	\$2,096,000	\$10,480,000	\$31,197,688
Expense											
8202	Construction	3,010,186	479,029	2,557,063	1,910,000	1,864,000	1,864,000	1,449,000	1,800,000	9,000,000	23,933,278
8204	Contingency	140,159	-	-14,223	200,000	175,000	100,000	100,000	126,000	630,000	1,456,936
8208	Furniture, Fixtures &	8,846	-	-	-	-	-	-	-	-	8,846
8212	Land/Building	-	-	50,000	50,000	-	-	-	-	-	100,000
8216	Miscellaneous	51	=	-	-	-	-	-	-	-	51
8224	Operating Supplies	389,481	12,768	50,000	50,000	100,000	100,000	100,000	100,000	500,000	1,402,249
8226	Permits, Fees, Etc	31,072	-	25,000	25,000	25,000	10,000	10,000	10,000	50,000	186,072
8229	Professional Services	-	-	243,492	150,000	150,000	50,000	50,000	50,000	250,000	943,492
8232	Project Management	2,939,578	-	-	-	-	-	-	-	-	2,939,578
8244	Capital Equipment >\$5,000	5,129	-	84,000	-	-	-	-	-	-	89,129
Total	Expense	\$6,542,559	\$491,797	\$3,010,332	\$2,400,000	\$2,324,000	\$2,134,000	\$1,719,000	\$2,096,000	\$10,480,000	\$31,197,688
Net Total		-	-	-	-	=	=	-	=	-	_



Fire Hydrant Replacement

Project Number: 12540 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement Transmission & Regions:0 - All WardsFund:Water Capital ReplacementLocation:Citywide

Project Manager: Mark Uhland Budget Unit #: 4234401890030000000000

Project Status: Funded

Description:

This program will replace substandard fire hydrants and applicable branch piping, gate valves, and asphalt. Repair of asphalt and street damage caused by water truck loading at hydrants is also included. This is an on-going project.

Discussion of Progress:

Ongoing annual program.

Justification:

The Water staff and Fire department personnel plans to increase the amount of hydrants replaced each year as staff time and funding allows (15 in 2024, 20 in 2025, 25 in 2026, 30 in 2027, 35 in 2028-2033). Labor for replacing and performing hydrant maintenance is charged to the operating account. The system has 3,800 hydrants with an expected service life of 50 years.

We have tagged this project to the Sustainable Infrastructure council priority, however providing guarantees of functioning fire hydrants has a positive impact on the Safe and Secure Communities council priority and ensures a high insurance rating for the city lowering costs for homeowners and businessowners.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											_
	Fund Balance	94,015	-	165,597	215,000	240,000	300,000	360,000	420,000	2,100,000	3,894,288
4464	Labor & Materials	1,260	-	-	-	-	-	-	-	-	1,260
4789	Expense Reimbursement	994	-	-	-	-	-	-	-	-	994
5812	Damages Recovered	21,745	525	-	-	-	-	-	-	-	22,270
Total	Revenue	\$118,014	\$525	\$165,597	\$215,000	\$240,000	\$300,000	\$360,000	\$420,000	\$2,100,000	\$3,918,812
Expense											
8202	Construction	10,000	-	38,000	75,250	84,000	105,000	126,000	147,000	735,000	1,320,250
8204	Contingency	-	-	-	7,525	8,400	10,500	12,600	14,700	73,500	127,225
8216	Miscellaneous	-	-	4,000	3,225	3,600	4,500	5,400	6,300	31,500	58,525
8224	Operating Supplies	102,330	-	123,597	129,000	144,000	180,000	216,000	252,000	1,260,000	2,406,927
8226	Permits, Fees, Etc	1,072	201	-	-	-	-	-	-	-	1,273
8232	Project Management	4,612	-	-	-	-	-	-	-	-	4,612
Total	Expense	\$118,014	\$201	\$165,597	\$215,000	\$240,000	\$300,000	\$360,000	\$420,000	\$2,100,000	\$3,918,812
Net Total		-	\$324	-	-	-	-	-	-	-	-



Valve Replacement

Project Number: 12664 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement Transmission & Regions:0 - All WardsFund:Water Capital ReplacementLocation:Citywide

Project Manager: Mark Uhland Budget Unit #: 4234401890020000000000

Project Status: Funded

Description:

This project replaces inoperable valves. The life expectancy varies from twenty-five to fifty years depending on valve size and maintenance/operation. This is an on-going project.

Discussion of Progress:

Ongoing annual program.

Justification:

The replacement program ensures that system valves are able to be located, in operating condition and are in the correct operating position (open or closed). Replacement valves are obtained through the Transmission/Distribution division's inventory budget. The system has approximately 12,000 valves. With the implementation of Cityworks it is expected that the Valve Replacement program will become more active as the backlog of inoperative and end-of-life valves is identified and addressed.

Impact on Operating Budget:

This is replacement of aging or broken infrastructure. The operations budget will not be negatively affected by this work.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	272,799	413	100,000	176,400	240,000	240,000	240,000	240,000	1,200,000	2,709,612
Total	Revenue	\$272,799	\$413	\$100,000	\$176,400	\$240,000	\$240,000	\$240,000	\$240,000	\$1,200,000	\$2,709,612
Expense											
8202	Construction	3,599	-	10,000	44,100	60,000	60,000	60,000	60,000	300,000	597,699
8204	Contingency	-	-	-	4,410	6,000	6,000	6,000	6,000	30,000	58,410
8216	Miscellaneous	-	-	2,000	4,410	6,000	6,000	6,000	6,000	30,000	60,410
8224	Operating Supplies	218,432	413	84,000	123,480	168,000	168,000	168,000	168,000	840,000	1,938,325
8226	Permits, Fees, Etc	4,282	-	2,000	-	-	-	-	-	-	6,282
8229	Professional Services	-	-	2,000	-	=	-	-	-	-	2,000
8232	Project Management	46,486	-	-	-	-	-	-	-	-	46,486
Total	Expense	\$272,799	\$413	\$100,000	\$176,400	\$240,000	\$240,000	\$240,000	\$240,000	\$1,200,000	\$2,709,612
Net Total		-	-	-	-	-	-	-	-	-	-



Capital Outlay Replacement - Water

Project Number: 12510 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement Transmission & Regions:0 - All WardsFund:Water Capital ReplacementLocation:Citywide

Project Status: Funded

Description:

This program replaces major rolling stock: pickups, tractor backhoes, loaders, compressors, dump trucks, and other identified replacement capital items.

Discussion of Progress:

Ongoing equipment replacement

Justification:

This will replace rolling stock that has reached the end of its economic life. This will help maintain the equipment's ability to perform daily tasks and handle emergency calls.

Impact on Operating Budget:

Keeping fleet age from being excessive controls maintenance costs.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	1,206,276	164,317	1,102,780	912,207	1,799,480	1,870,836	1,980,727	1,116,897	2,037,986	12,191,506
4787	Other	-	-	965,077	-	-	-	-	-	-	965,077
5801	Sales Of Fixed Assets	83,828	-	-	-	-	-	-	-	-	83,828
Total F	Revenue	\$1,290,104	\$164,317	\$2,067,857	\$912,207	\$1,799,480	\$1,870,836	\$1,980,727	\$1,116,897	\$2,037,986	\$13,240,411
Expense											_
8142	Construction	775,897	-	1,112,175	445,911	1,415,374	1,458,212	1,848,308	829,615	741,890	8,627,382
8144	Transportation/Vehicles	367,026	146,164	731,271	329,263	294,506	272,962	60,419	237,282	987,005	3,425,898
8149	Other Machinery And	99,679	18,153	224,411	137,033	89,600	139,662	72,000	50,000	309,091	1,139,629
8232	Project Management	47,502	-	-	-	-	-	-	-	-	47,502
Total E	xpense	\$1,290,104	\$164,317	\$2,067,857	\$912,207	\$1,799,480	\$1,870,836	\$1,980,727	\$1,116,897	\$2,037,986	\$13,240,411
Net Total		-	-	-	-	-	-	-	-	-	-



Distribution System Model & Master Plan Update

Project Number: 12526 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement Transmission & DistributionRegions:0 - All WardsFund:Water Capital ReplacementLocation:Citywide

Project Manager: John Goin Budget Unit #: 4234401890130000000000

Project Status: Funded

Description:

Engineering Study to determine what water distribution system improvements are necessary to accommodate future growth and system improvements. The project began with the development of a water Distribution Model in 2019. The master plans then utilized this model to evaluate water quality, fire flows, system capacities, and plans for future growth.

Discussion of Progress:

Update to the plan and model scheduled for 2026.

Justification:

Council priority to plan and develop critical infrastructure. This tool will help facilitate timely and efficient planning to determine the most cost effective improvements required for new development and system improvements.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										_
	Fund Balance	503,737	22,233	31,513	-	290,000	610,000	-		- 1,457,484
4341	Local Government Grants	442	-	-	-	-	-	-		- 442
4781	Sales Of Publications	1,464	60	-	-	-	-	-		- 1,524
Total I	Revenue	\$505,643	\$22,293	\$31,513	-	\$290,000	\$610,000	-		- \$1,459,449
Expense										
8202	Construction	80,924	-	-	-	-	-	-		- 80,924
8229	Professional Services	307,539	4,752	31,513	-	275,000	575,000	-		- 1,193,804
8232	Project Management	110,349	17,541	-	-	-	-	-		- 127,891
Total I	Expense	\$505,643	\$22,293	\$31,513	-	\$290,000	\$610,000	=		- \$1,459,449
Net Total		-	-	-	-	-	-	-		-

Advanced Metering Infrastructure

Project Number: 12478 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement Transmission & DistributionRegions:0 - All WardsFund:Water Capital ReplacementLocation:Citywide

Project Manager: John Goin Budget Unit #: 423440189004000000000

Project Status: Funded

Description:

This project is the replacement of existing failing water meters with more accurate meters and improved communications. Advanced metering infrastructure (AMI) is a communication tool that enables nearly constant communication between the water meter and the utility. Meter readings will occur every 15 minutes, making leak detection much more effective. Water savings could be significant and it will increase customer service capabilities.

Discussion of Progress:

The contractor (UMS) successfully replaced 12,500 meters as part of Phase I and II in December 2022, and will be continuing into Phase III in spring of 2023, with another 7,000 to 9,000 additional meters, and is expected to be complete by May 2025.

In 2022 the city received a 2 million dollar WaterSmart grant to purchase the meters used in this project.

Justification:

Some of the existing meters batteries have been failing and some meters are beyond the expected life span of the meters. The W&S Department received a \$1.48 million USBR WaterSmart grant in the spring of 2020. This grant will support the City in the replacement of 14,500 meters or about have the meters within the system. It is also estimated that water savings could be significant with the ability to see leaks quickly on the customer services.

Impact on Operating Budget:

A budget increase request is being submitted for 2024 to cover the 0.89 / meter / month service charge for the AMI meters being installed.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue	•									
	Fund Balance	697,712	798,812	7,432,347	-	785,000	-	-	-	8,498,871
4311	Federal Grants	1,478,450	-	-	2,000,000	-	-	-	-	3,478,450
5801	Sales Of Fixed Assets	-4,308	-	-	-	-	-	-	-	-4,308
Total	Revenue	\$2,171,854	\$798,812	\$7,432,347	\$2,000,000	\$785,000	-	-	-	\$11,973,013
Expense										
8202	Construction	127,835	281,603	1,168,530	650,000	650,000	-	-	-	2,877,969
8204	Contingency	6,693	-	384,112	100,000	100,000	-	-	-	590,805
8208	Furniture, Fixtures & Equipment	1,555,562	516,593	5,764,601	-	-	-	-	-	7,836,756
8216	Miscellaneous	5	-	-	-	-	-	-	-	5
8224	Operating Supplies	-	114	-	-	-	-	-	-	114
8226	Permits, Fees, Etc	-	502	-	-	-	-	-	-	502
8229	Professional Services	-	-	104	-	-	-	-	-	104
8232	Project Management	479,114	-	-	-	-	-	-	-	479,114
8244	Capital Equipment >\$5,000	843	-	-	-	-	-	-	-	843
Total	Expense	\$2,171,854	\$798,812	\$7,432,347	\$785,000	\$785,000	-	-	-	\$11,973,013
Net Total		-	-	-	\$1,215,000	-	-	-	-	-



Transmission Line Customers Re-Route

Project Number: 12648 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Transmission & **Regions:** 5- Outside City

Fund: Water Capital Replacement **Location:** Along the Bellvue Transmission Line

Project Manager: Rebecca Andrus Budget Unit #: 4234401880040000000000

Project Status: Funded

Description:

The city has a number of water customers who are connected along the Bellvue Transmission Line. This project would remove them from Greeley's water system and connect them to other water providers in their area.

Discussion of Progress:

In 2022 the City removed the 34 customers off the top of the system that is located in Laporte.

Justification:

During development of the Bellvue Transmission system many years ago, it appears the easement cost was exchanged for connection to the transmission lines. This plan made sense when developed but as the system grew and demands increased in Greeley the operation of the system is greatly influenced by these customer connections. In winter months the system has limitations on how staff can operate without eliminating service to these transmission line customers. To remove customers it is likely that Greeley will need to buy connections to other water providers in the area and build needed infrastructure to eliminate the connection to the Greeley Bellvue Transmission system.

Revenue Detail:

There would be a very small decrease in revenue, but the benefit of not having to serve customers outside Greeley's water service area would outweigh the minimal lost revenue.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	-	-	732,797	250,000	250,000	250,000	250,000	250,000	1,250,000	3,232,797
Total I	Revenue	-	-	\$732,797	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,250,000	\$3,232,797
Expense											
8202	Construction	-	-	681,797	75,000	75,000	75,000	75,000	75,000	375,000	1,431,797
8204	Contingency	-	-	3,000	-	-	-	-	-	=	3,000
8212	Land/Building Cost/Demolition	-	. <u>-</u>	5,000	-	-	-	-	-	-	5,000
8226	Permits, Fees, Etc	-	-	5,000	175,000	175,000	175,000	175,000	175,000	875,000	1,755,000
8229	Professional Services	-	-	28,000	-	-	-	-	-	-	28,000
8232	Project Management - Labor	-	-	10,000	-	-	-	-	-	-	10,000
Total	Expense	-	-	\$732,797	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,250,000	\$3,232,797
Net Total		-	-	-	-	-	-	-	-	-	-



Bellvue Switchgear Replacement

Project Number: 423New10 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Treatment **Regions:**

Fund: Water Capital Replacement Location: 4505 Filter Plant Rd, Bellvue, CO 80512

Project Manager: Unassigned Budget Unit #: Unassigned

Project Status: Funded

Description:

The project is for the replacement of the medium voltage electrical switchgear equipment at the Bellvue Water Treatment Plant (WTP).

Discussion of Progress:

Planning is in progress in 2023, parts will be ordered in 2024 and 2025 and construction is planned for 2026.

Justification:

The Bellvue WTP medium voltage switchgear is at end of life and is over 30 years old. We have had several fuses blow due to the main switchgear having a bad cartridge. This will start to happen on the other two switchgears if we do not replace them.

Impact on Operating Budget:

Will reduce time spent by staff assessing electrical issues at the Bellvue WTP.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										_
	Fund Balance	-	-	-	250,000	170,000	300,000	-		- 720,000
Total	Revenue	-	-	-	\$250,000	\$170,000	\$300,000	-		- \$720,000
Expense										
8202	Construction	-	-	-	-	-	300,000	-		- 300,000
8229	Professional Services	-	-	-	-	20,000	-	-		- 20,000
8244	Capital Equipment >\$5,000	-	-	-	250,000	150,000	-	-		- 400,000
Total	Expense	-	-	-	\$250,000	\$170,000	\$300,000	-		- \$720,000
Net Total		-	-	-	-	-	-	-		-



Bellvue Filter Media Replacement

Project Number: 423New8 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Treatment **Regions:**

Fund: Water Capital Replacement Location: 4505 Filter Plant Rd, Bellvue, CO 80512

Project Manager: Unassigned Budget Unit #: Unassigned

Project Status: Funded

Description:

The Bellvue Water Treatment Plant treatment train BEN includes Filters for treating water to reduce turbidity which is necessary to ensure that disinfection is effective. The filters use a media tailored for the condition of the source water being treated. The media is degraded over time and use and eventually needs to be replaced (approximately every 10 years).

Discussion of Progress:

Assessment and design are planned for 2025 with replacement and construction in 2026 if needed.

Justification:

The filter media is reaching its expected life. An analysis of the media will verify the lifespan left in the media. When the media is replaced a underdrain, blowers, and air scour will be installed to remain in compliance with Federal and State regulations.

Impact on Operating Budget:

TB1 will be the primary treatment train at Bellvue during construction.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024		2025	2026	2027	2028	Grand Total
Revenue											_
	Fund Balance	-	-	-		-	290,000	2,800,000	-		- 3,090,000
Total	Revenue	-	-	-		-	\$290,000	\$2,800,000	-		- \$3,090,000
Expense											
8202	Construction	-	-	-		-	-	2,500,000	-		- 2,500,000
8204	Contingency	-	-	-		-	20,000	250,000	-		- 270,000
8229	Professional Services	-	-	-		-	250,000	-	-		- 250,000
8232	Project Management - Labor	-	-	-		-	20,000	50,000	-		- 70,000
Total	Expense	-	-	-		-	\$290,000	\$2,800,000	-		- \$3,090,000
Net Total		-	-	-		-	=	-	-		



Bellvue Flocculator and Sedimentation Building Rehabilitiation

Project Number: 423New9 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Treatment **Regions:**

Fund: Water Capital Replacement Location: 4505 Filter Plant Rd, Bellvue, CO 80512

Project Manager: Unassigned Budget Unit #: Unassigned

Project Status: Funded

Description:

The Bellvue WTP Focculator and Sedimentation Building that is part of the BEN treatment train is in need of rehabilitation.

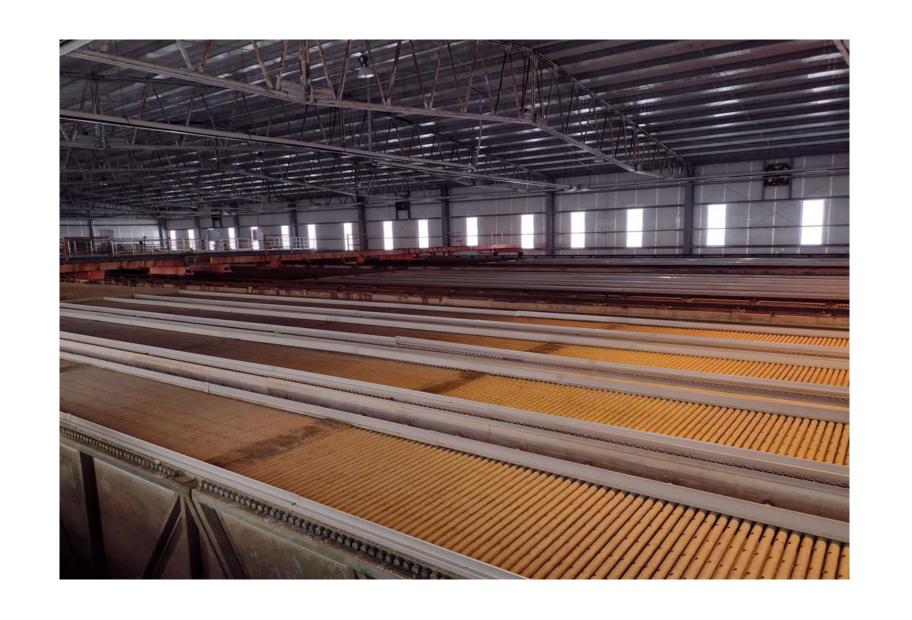
Discussion of Progress:

Design and assessment are planned for 2024 with construction in 2025-2026.

Justification:

The basins were constructed in 1946 and the building exterior was built in 1991. The building is showing signs of deterioration and rust. Lack of air flow is creating a humid environment and water is also leaking from the roof. Both can damage electrical systems and create a corrosive environment. Prolonging the life of this building will delay the need to build TB2.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										_
	Fund Balance	-	-	-	300,000	543,750	443,750	-		- 1,287,500
Total	Revenue	-	-	-	\$300,000	\$543,750	\$443,750	-		- \$1,287,500
Expense										
8202	Construction	-	-	-	-	275,000	275,000	-		- 550,000
8204	Contingency	-	-	-	-	68,750	68,750	-		- 137,500
8229	Professional Services	-	-	-	300,000	150,000	50,000	-		- 500,000
8232	Project Management - Labor	-	-	-	-	50,000	50,000	-		- 100,000
Total	Expense	-	-	-	\$300,000	\$543,750	\$443,750	-		- \$1,287,500
Net Total		-	-	-	-	-	-	-	•	



Water Treatment Plants Master Plan

Project Number: N735 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Treatment **Regions:** 5- Outside City

Fund: Water Capital Replacement Location: Bellvue and Boyd Water Treatment Plants

Project Manager: Peter Champion Budget Unit #: 423New5

Project Status: Funded

Description:

Master plan for planning project needs in the future for the City's two water plants.

Discussion of Progress:

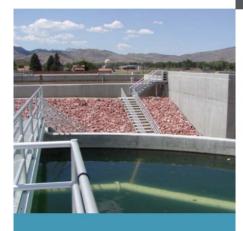
Planned for 2024.

Justification:

The master plan is used to set priority to CIP projects and allows optimization of available funds to maximize efficiency and results.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	-	790,000	-	-	-		- 790,000
Total I	Revenue	-	-	-	\$790,000	-	=	-		- \$790,000
Expense										
8204	Contingency	-	-	-	100,000	-	-	-		100,000
8229	Professional Services	-	-	-	650,000	-	-	-		- 650,000
8232	Project Management - Labor	-	-	-	40,000	-	-	-		- 40,000
Total	Expense	-	-	-	\$790,000	-	-	-		- \$790,000
Net Total			-	-	-	-	-	-		-





City of Greeley

Executive Summary

Water Treatment Plant Needs Assessment Task Series 100 – Executive Summary

Denver, CO September 19, 2016

FD3

FDS

Bellvue 20 MGD Treatment Train - Ph 2

Project Number: N771 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Treatment **Regions:** 5- Outside City

Fund: Water Capital Replacement **Location:** 4505 Filter Plant Rd, Bellvue, CO

Project Manager: Peter Champion Budget Unit #: Unassigned

Project Status: Funded

Description:

20 MGD replacement of the old flocculation/sedimentation and 1958 and 1964 filters.

Discussion of Progress:

Project is planned to start in 2033.

Justification:

This is the next phase of treatment upgrade at the Bellvue WTP. This will replace the remaining portion of the old part of the plant the was constructed in the 1950's brining the treatment plant up to today's CDPHE requirements.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance			-	-	-	-	-	-	4,410,000	4,410,000
Total I	Revenue			-	-	-	-	-	-	\$4,410,000	\$4,410,000
Expense											
8202	Construction			-	-	-	-	-	-	3,500,000	3,500,000
8204	Contingency			-	-	-	-	-	-	500,000	500,000
8229	Professional Services			-	-	-	-	-	-	350,000	350,000
8232	Project Management - Labor			_	-	-	-	-	-	60,000	60,000
Total I	Expense			-	-	-	-	-	-	\$4,410,000	\$4,410,000
Net Total				-	-	-	-	-	-	-	-



Boyd Microstrainer Building Remodel

Project Number: N772 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Treatment Regions: 5- Outside City

Fund: Water Capital Replacement **Location:** 3119 E Eisenhower Blvd, Loveland, CO

Project Manager: Peter Champion Budget Unit #: Unassigned

Project Status: Funded

Description:

Remodel microstrainer building to meet current building code and expand space

Discussion of Progress:

Project is scheduled to start in 2029.

Justification:

The Boyd Lake WTP does not have adequate office space for staff. The Microstrainer building is no longer housing chemicals and the microstrainers are obsolete. The remodel of the building will bring it up to current code as well as create usable office/clean shop space for staff.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance		· -	-	-	-	-	-	-	2,020,000	2,020,000
Total I	Revenue		-	-	-	-	-	-	-	\$2,020,000	\$2,020,000
Expense											
8202	Construction			-	-	-	-	-	-	1,500,000	1,500,000
8204	Contingency		-	-	-	-	-	-	-	200,000	200,000
8229	Professional Services			-	-	-	-	-	-	250,000	250,000
8232	Project Management - Labor		-	-	-	-	-	-	-	70,000	70,000
Total	Expense		-	-	-	-	-	-	-	\$2,020,000	\$2,020,000
Net Total			-	-	-	-	-	-	-	-	-



Bellvue Water Treatment Plant General Rehabilitation

Project Number: 12493 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement TreatmentRegions:5- Outside CityFund:Water Capital ReplacementLocation:Bellvue Filter Plant

Project Manager: Stephen Goodwin Budget Unit #: 4234401890080000000000

Project Status: Funded

Description:

This is an annual project for the rehabilitation of buildings, heating/ventilating/air conditioning (HVAC) systems, pumps and motors, electrical replacements, chemical storage & metering, valves, and compressors. For 2024, this includes rehabilitation of the BEN sed barn and HVAC in the chem building.

Discussion of Progress:

Ongoing planning, design, procurement, and construction.

Justification:

These items will help to maintain operational reliability, effectiveness, and improve efficiency for continued compliance with Federal and State regulations and fulfill the Water & Sewer department mandates.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	1,215,752	171,063	500,000	625,000	565,000	615,000	645,000	645,000	3,225,000	8,206,815
Total	Revenue	\$1,215,752	\$171,063	\$500,000	\$625,000	\$565,000	\$615,000	\$645,000	\$645,000	\$3,225,000	\$8,206,815
Expense			,	-						,	-
8202	Construction	689,548	162,381	375,000	425,000	370,000	500,000	525,000	525,000	2,625,000	6,196,928
8204	Contingency	-	=	10,000	85,000	20,000	50,000	50,000	50,000	250,000	515,000
8208	Furniture, Fixtures &	51,550	-	20,000	20,000	25,000	15,000	15,000	15,000	75,000	236,550
8224	Operating Supplies	1,407	-	-	-	-	-	-	-	-	1,407
8229	Professional Services	62,105	863	50,000	10,000	50,000	10,000	10,000	10,000	50,000	252,967
8232	Project Management	110,043	7,820	-	-	-	-	-	-	-	117,863
8244	Capital Equipment >\$5,000	295,370	-	20,000	60,000	75,000	15,000	20,000	20,000	100,000	605,370
Total	Expense	\$1,215,752	\$171,063	\$500,000	\$625,000	\$565,000	\$615,000	\$645,000	\$645,000	\$3,225,000	\$8,206,815
Net Total		-	-	-	-	-	-	-	-	-	-



Boyd Water Treatment Plant - General Rehabilitation

Project Number: 12502 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement TreatmentRegions:5- Outside CityFund:Water Capital ReplacementLocation:Boyd Filter Plant

Project Manager: Stephen Goodwin Budget Unit #: 4234401890110000000000

Project Status: Funded

Description:

This project consists of replacing the combined filter effluent finished water hatch on the east side of the filter building. The existing hatch is set at grade of the sidewalk and is in need of replacement. The new hatch will be raised to add more protection against water infiltration into the finished water. The planned work also includes rehab of the existing sludge cross collector system located in the sedimentation basin. There are some various heaters at the plant that are in need of replacement that is planned to occur as well. Project also includes the purchase of a mass spectrometer that will be used for lab testing.

Discussion of Progress:

Ongoing planning, design, procurement, and construction. The plan for 2023 is to procure and install a new fluoride skit to be located by the influent of the clearwell. The new fluoride system will allow the use of super sacks to improve operator maintenance. This new system being located outside of the Microstrainer building will lead the way for the future planned remodel of the building. Remodel of the back office into the new water quality lab.

Justification:

These items will help maintain operational reliability, effectiveness, and improve efficiency for continued compliance with Federal and State regulations. They will also help to fulfill Water and Sewer department mandates.

		Duardana 2		2022 Davised							
GL Account	Description	Previous 3 Years	2022 Actual	2023 Revised Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue	•										
	Fund Balance	892,579	124,684	713,795	525,000	495,000	580,000	450,000	475,000	2,375,000	6,631,058
5761	Other Rebates	12,148	-	-	-	-	-	-	-	-	12,148
Total	Revenue	\$904,727	\$124,684	\$713,795	\$525,000	\$495,000	\$580,000	\$450,000	\$475,000	\$2,375,000	\$6,643,206
Expense											
8202	Construction	753,615	121,999	623,795	450,000	400,000	500,000	300,000	350,000	1,750,000	5,249,409
8204	Contingency	-	-	25,000	20,000	25,000	25,000	50,000	25,000	125,000	295,000
8208	Furniture, Fixtures &	18,648	-	20,000	15,000	25,000	15,000	25,000	25,000	125,000	268,648
8216	Miscellaneous	5,141	-	-	-	-	-	25,000	25,000	125,000	180,141
8224	Operating Supplies	62,684	-	-	-	-	-	-	-	-	62,684
8229	Professional Services	22,418	2,686	-	-	-	-	-	-	-	25,104
8232	Project Management	38,537	-	-	-	-	-	-	-	-	38,537
8244	Capital Equipment >\$5,000	-	-	20,000	15,000	20,000	15,000	25,000	25,000	125,000	245,000
Total	Expense	\$904,727	\$124,684	\$713,795	\$525,000	\$495,000	\$580,000	\$450,000	\$475,000	\$2,375,000	\$6,643,206
Net Total		-	-	-	-	-	-	-	-	-	-



Boyd WTP Process Improvements

Project Number: 12501 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type:Water Replacement TreatmentRegions:5- Outside CityFund:Water Capital ReplacementLocation:Boyd Filter Plant

Project Manager: Stephen Goodwin Budget Unit #: 4234401890110000000000

Project Status: Funded

Description:

Design & construct improvements to enable the plant to operate during winter, improve water quality with additional contact time with powder activated carbon, better interaction of treatment chemicals, and replacement of significantly aging electrical infrastructure.

Discussion of Progress:

Upgrades to winterize the plant are complete. Installation of the ozone treatment system is being postponed to 2033 to see what impact the recent improvements have had.

Justification:

The plant is inoperable during the winter. If the 2013 flood would have compromised both transmission lines instead of one, shutting Bellvue down for 6 months, Boyd would not have been able to sustain operations once freezing weather set in. Emergency interconnects for short durations are reliant on unused capacity at the time of other purveyors. The prposed improvements will improve water quality, operations costs, and winterization of the plant for essential infrastructure. The improvements would include a new chemical building and piping, and future treatment process upgrades.

Impact on Operating Budget:

Will result in increased operations and maintenance at plant when goal of year-round operation is reached.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											_
	Fund Balance	11,306,303	138,603	3,100,000	-	-	100,000	-	-	23,000,000	37,644,906
4789	Expense Reimbursement	11,600	-	-	-	-	-	-	-	-	11,600
5761	Other Rebates	11,600	-	-	-	-	-	-	-	-	11,600
Total I	Revenue	\$11,329,503	\$138,603	\$3,100,000	-	-	\$100,000	-	-	\$23,000,000	\$37,668,106
Expense											_
8202	Construction	8,933,858	5,459	2,350,000	-	-	-	-	-	22,600,000	33,889,317
8204	Contingency	100,062	-	-	-	-	-	-	-	-	100,062
8216	Miscellaneous	47	=	-	-	-	-	-	-	-	47
8229	Professional Services	1,743,387	133,144	700,000	-	-	100,000	-	-	350,000	3,026,532
8232	Project Management	544,047	-	-	-	-	-	-	-	-	544,047
Total I	Expense	\$11,329,503	\$138,603	\$3,100,000	-	-	\$100,000	-	-	\$23,000,000	\$37,668,106
Net Total		-	-	-	-	-	-	-	-	-	-

Boyd Pump Station Intake Valve Replacement

Project Number: N618 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Treatment **Regions:** 5- Outside City

Fund: Water Capital Replacement Location: Boyd Lake Pump Station

Project Manager: Peter Champion **Budget Unit #:** 423New6

Project Status: Description:

Replacement of the of the non-working intake valve at the Boyd Lake pump station

Discussion of Progress:

Planned for replacement in 2026.

Funded

Justification:

The valve close not currently operate and is needed for proper operation of the intake structure. With the valve not working we are at risk of not being able to operate the intake structure in low water situations resulting in not having source water for the Boyd WTP.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025		2026	2027	2028	Grand Total
Revenue											
	Fund Balance	-		-		-	-	520,000	-		- 520,000
Total I	Revenue	-	-	-		-	-	\$520,000	-		- \$520,000
Expense											
8202	Construction	-	-	-		-	-	400,000	-		- 400,000
8204	Contingency	-		-		-	-	100,000	-		- 100,000
8232	Project Management - Labor	-	-	-		-	-	20,000	-		- 20,000
Total I	Expense	-	-	-		-	-	\$520,000	-		- \$520,000
Net Total		-	-	-		-	-	-	-		



Boyd Sedimentation Basin Repair

Project Number: 12500 Budget Year: 2024

Division: Water Capital Projects **Council Priority:** Sustainable Infrastructure & Mobility

Project Type: Water Replacement Treatment **Regions:** 5- Outside City

Fund: Water Capital Replacement Location: Boyd Lake Water Treatment Plant, 3119 E Eisenhower Blvd, Loveland, CO 80537

Project Manager: Stephen Goodwin Budget Unit #: 4234401890110000000000

Project Status: Funded

Description:

Repair of the concrete sedimentation basin at the Boyd Lake water treatment plant. This includes resurfacing of the concrete walls and re sloping the concrete floor for proper drainage.

Discussion of Progress:

Started in 2022 with further work postponed till 2026.

Justification:

The concrete sedimentation basin at the Boyd Lake water treatment plant needs repair. The concrete is spalling and the aggregate is exposed. The walls need to be resurfaced to prevent any further damage. The floor of the basin is not sloped correctly and needs to be addressed.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	202	25	2026	2027	2028	Grand Total
Revenue	Description	icais	ZUZZ ACTUAI	Duuget	2024	202		2020	2027	2020	Grand rotal
Revenue											_
	Fund Balance	-	-	815,000		-	-	900,000	-		- 1,715,000
Total	Revenue	-	-	\$815,000		-	-	\$900,000	-		- \$1,715,000
Expense											
8202	Construction	-	-	750,000		-	-	750,000	-		- 1,500,000
8204	Contingency	-	-	25,000		-	-	100,000	-		- 125,000
8229	Professional Services	-	-	30,000		-	-	30,000	-		- 60,000
8232	Project Management - Labor	-	-	10,000		-	-	20,000	-		- 30,000
Total	Expense	-	-	\$815,000		_	-	\$900,000	-		- \$1,715,000
Net Total		-	-	-		-	-	-	-		

