



# **Fund 423**

## **Water Capital Replacement**

# Milton Seaman Outlet Works

<b>Project Number:</b>	11225	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Milton Seaman Reservoir
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	4231060890160000011225
<b>Project Status:</b>	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.

## 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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	286,853	-	-	-	225,000	5,300,600	-	-	5,812,453
	<b>Total Revenue</b>	\$286,853	-	-	-	\$225,000	\$5,300,600	-	-	\$5,812,453
Expense										
8202	Construction	93,684	-	-	-	-	4,746,000	-	-	4,839,684
8204	Contingency	-	-	-	-	-	474,600	-	-	474,600
8216	Miscellaneous	26	-	-	-	-	-	-	-	26
8226	Permits, Fees, Etc	-	-	-	-	10,000	-	-	-	10,000
8229	Professional Services	184,602	-	-	-	200,000	40,000	-	-	424,602
8232	Project Management	8,541	-	-	-	15,000	40,000	-	-	63,541
	<b>Total Expense</b>	\$286,853	-	-	-	\$225,000	\$5,300,600	-	-	\$5,812,453
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## Non-Potable Replacement Rehabilitation

<b>Project Number:</b>	11107	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	4231060890120000011107
<b>Project Status:</b>	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:

Ongoing effort.

### 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:

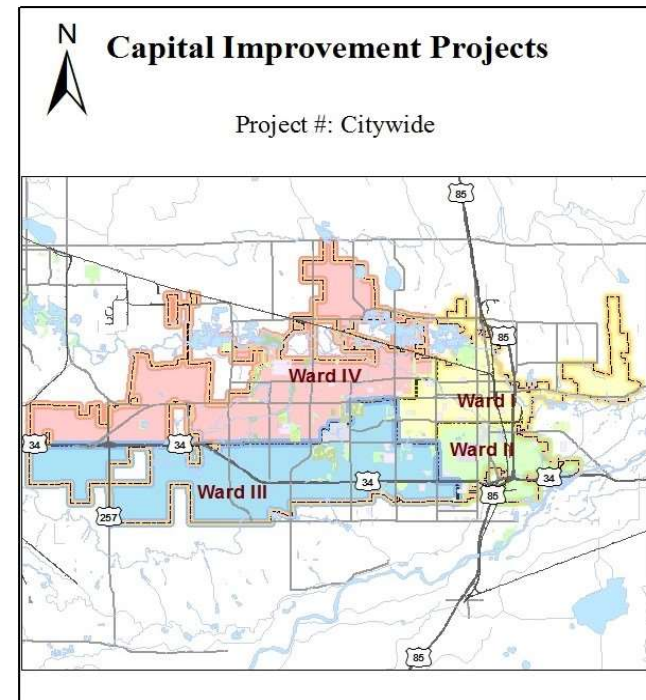
The non-potable division has taken on assets that were being maintained by Parks. The electric budget in operating has increased to account for the increased pumping capacity.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future	Grand Total
Revenue											
	Fund Balance	531,708	34,243	-	1,160,000	536,000	2,188,000	270,000	285,000	295,000	5,299,951
4787	Other	-	-	1,275,000	-	-	-	-	-	-	1,275,000
<b>Total Revenue</b>		<b>\$531,708</b>	<b>\$34,243</b>	<b>\$1,275,000</b>	<b>\$1,160,000</b>	<b>\$536,000</b>	<b>\$2,188,000</b>	<b>\$270,000</b>	<b>\$285,000</b>	<b>\$295,000</b>	<b>\$6,574,951</b>



Expense

8202	Construction	261,350	12,923	835,000	829,000	381,000	1,601,000	190,000	200,000	205,000	4,515,273
8204	Contingency	-	-	45,000	110,500	59,000	234,000	31,000	33,000	35,000	547,500
8212	Land/Building	-	-	100,000	-	-	-	-	-	-	100,000
8216	Miscellaneous	121,891	-	15,000	20,000	-	-	-	-	-	156,891
8224	Operating Supplies	184,492	-	100,000	-	-	-	-	-	-	284,492
8229	Professional Services	-45,075	9,120	150,000	106,500	38,000	261,000	25,000	25,000	25,000	594,545
8232	Project Management	634	12,200	30,000	28,000	8,000	41,000	-	-	-	119,834
8242	Utility Services	-	-	-	31,000	32,000	30,000	-	-	-	93,000
8244	Capital Equipment >\$5,000	8,416	-	-	35,000	18,000	21,000	24,000	27,000	30,000	163,416
<b>Total Expense</b>		<b>\$531,708</b>	<b>\$34,243</b>	<b>\$1,275,000</b>	<b>\$1,160,000</b>	<b>\$536,000</b>	<b>\$2,188,000</b>	<b>\$270,000</b>	<b>\$285,000</b>	<b>\$295,000</b>	<b>\$6,574,951</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



## Risk and Resiliency Projects

<b>Project Number:</b>	11108	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	5- Outside City , 1- 16 St North/35 Ave East
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Multiple Water System Sites
<b>Project Manager:</b>	Adam Prior	<b>Budget Unit #:</b>	4231060890150000011108
<b>Project Status:</b>	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 threads and consequences to the water system that will be mitigated with this project.

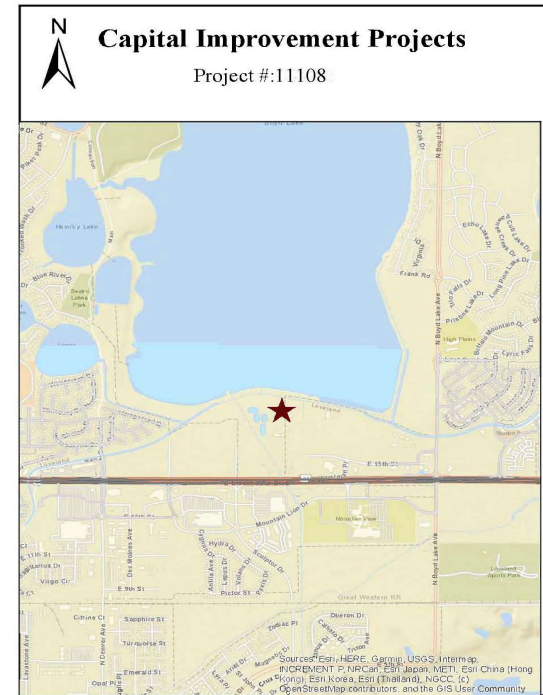
### Discussion of Progress:

Completing projects identified in 2021 study.

### 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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	134,200	315,200	164,500	335,000	175,500	-	1,124,400
4787	Other	-	-	349,940	-	-	-	-	-	349,940
	<b>Total Revenue</b>	-	-	<b>\$484,140</b>	<b>\$315,200</b>	<b>\$164,500</b>	<b>\$335,000</b>	<b>\$175,500</b>	-	<b>\$1,474,340</b>
Expense										
8202	Construction	-	-	329,800	282,000	145,000	300,000	155,000	-	1,211,800
8204	Contingency	-	-	29,340	28,200	14,500	30,000	15,500	-	117,540
8232	Project Management	-	-	5,000	5,000	5,000	5,000	5,000	-	25,000
8244	Capital Equipment >\$5,000	-	-	120,000	-	-	-	-	-	120,000
	<b>Total Expense</b>	-	-	<b>\$484,140</b>	<b>\$315,200</b>	<b>\$164,500</b>	<b>\$335,000</b>	<b>\$175,500</b>	-	<b>\$1,474,340</b>
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## Ancillary System Improvements

<b>Project Number:</b>	11102	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	4231060890070000011102
<b>Project Status:</b>	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:

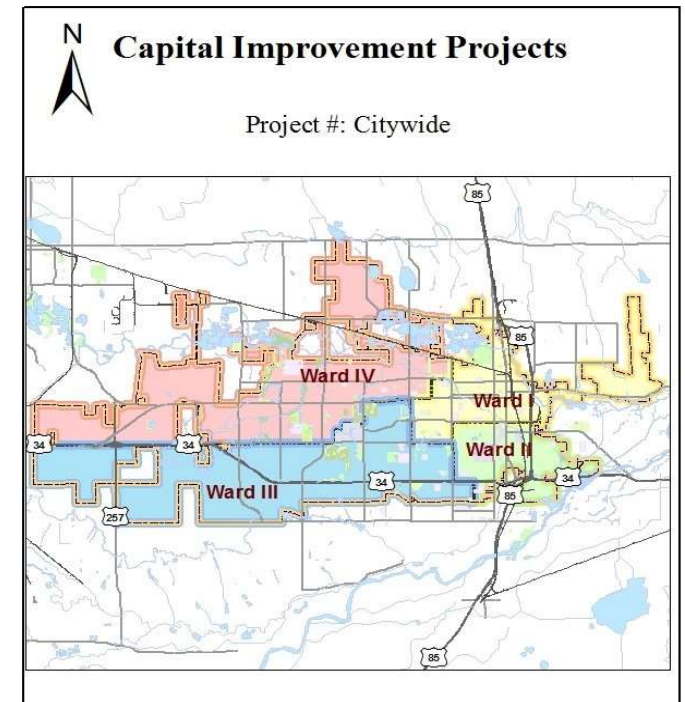
Ongoing annual program

### 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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	603,102	2,030	-	50,000	50,000	50,000	50,000	50,000	855,132
4787	Other	-	-	50,000	-	-	-	-	-	50,000
5801	Sales Of Fixed Assets	-14,306	-	-	-	-	-	-	-	-14,306
<b>Total Revenue</b>		<b>\$588,796</b>	<b>\$2,030</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$890,826</b>
Expense										
8202	Construction	581,582	2,030	50,000	50,000	50,000	50,000	50,000	50,000	883,612
8216	Miscellaneous	276	-	-	-	-	-	-	-	276
8224	Operating Supplies	490	-	-	-	-	-	-	-	490
8229	Professional Services	1,055	-	-	-	-	-	-	-	1,055
8232	Project Management	5,393	-	-	-	-	-	-	-	5,393
<b>Total Expense</b>		<b>\$588,796</b>	<b>\$2,030</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$890,826</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>





## Bellvue Intake Maintenance Phase 2

<b>Project Number:</b>	A307	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Bellvue Water Treatment Plant
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	4231060890080000000000
<b>Project Status:</b>	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.

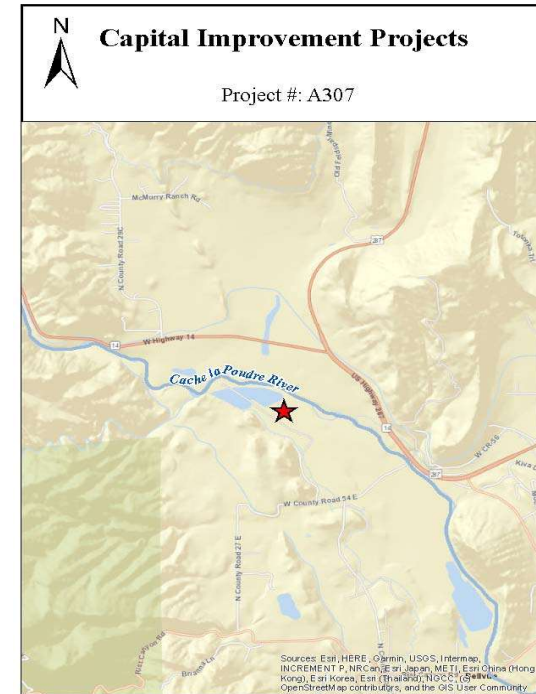
### Discussion of Progress:

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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future	Grand Total
Revenue											
	Fund Balance	13,907	-	-	-	-	-	-	8,255,000	120,000	8,388,907
	<b>Total Revenue</b>	\$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	1,528	-	-	-	-	-	-	45,000	45,000	91,528
	<b>Total Expense</b>	\$13,907	-	-	-	-	-	-	\$8,255,000	\$120,000	\$8,388,907
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-	-



## Suburban Ditch Non-Potable Replacement

<b>Project Number:</b>	11110	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	2- 16 St South/23 Ave East
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Suburban Ditch Reservoir Road
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	4231060890120000011110
<b>Project Status:</b>	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:

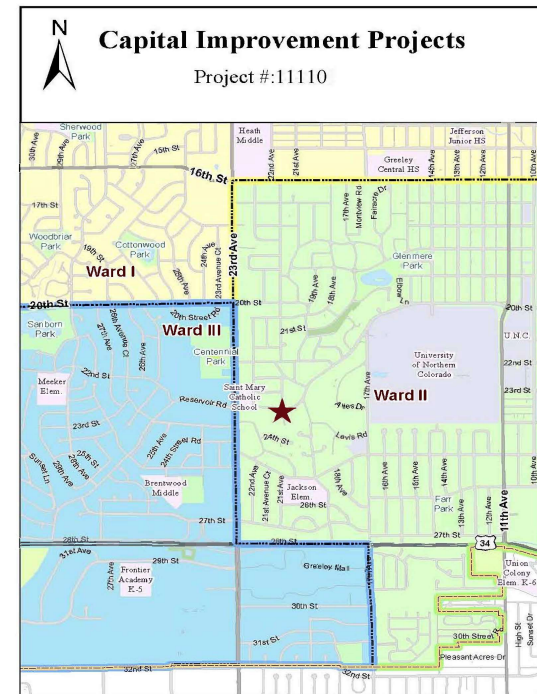
Construction starts in 2023.

### 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	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	25,000	1,295,420	1,373,005	1,455,186	-	-	4,148,611
4787	Other	-	-	150,000	-	-	-	-	-	150,000
<b>Total Revenue</b>		-	-	\$175,000	\$1,295,420	\$1,373,005	\$1,455,186	-	-	\$4,298,611
Expense										
8202	Construction	-	-	-	1,170,000	1,240,200	1,314,612	-	-	3,724,812
8204	Contingency	-	-	-	106,420	112,805	119,574	-	-	338,799
8229	Professional Services	-	-	175,000	-	-	-	-	-	175,000
8232	Project Management	-	-	-	19,000	20,000	21,000	-	-	60,000
<b>Total Expense</b>		-	-	\$175,000	\$1,295,420	\$1,373,005	\$1,455,186	-	-	\$4,298,611
<b>Net Total</b>		-	-	-	-	-	-	-	-	-





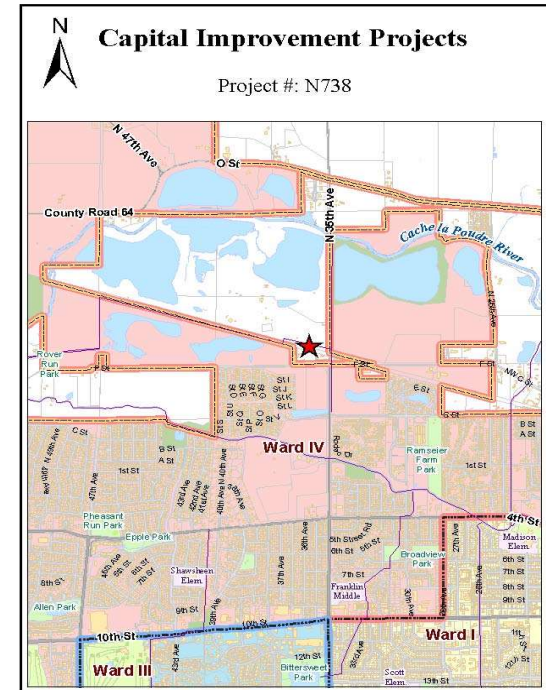
## Boyd Freeman Ditch Improvements

<b>Project Number:</b>	N738	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Boyd Freeman Ditch - west of 35th Avenue
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

The Boyd Freeman Ditch is the primary source of water to fill the Poudre Ponds. The ponds are used for augmentation and downstream return flow obligations. The ponds are important components and assets of the Greeley's raw water system. The 2016 Repairs to Boyd Freeman involved the installation of an inverted syphon, the syphon since has failed twice. There are capacity restrictions in the ditch limiting the capacity to approximately 10 CFS. Eventually, 50 CFS is needed. Approximately 2,000 feet of open ditch needs to be enlarged and 1,100 feet of 18" culvert needs to be replaced with 36" pipe. Phase 1 is to widen the existing open ditch, Phase 2 is to replace the 18" culvert and Phase 3 is to replace the syphon.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	918,000	482,000	544,000	-	1,944,000
	<b>Total Revenue</b>	-	-	-	-	\$918,000	\$482,000	\$544,000	-	\$1,944,000
Expense										
8202	Construction	-	-	-	-	813,000	407,000	457,500	-	1,677,500
8204	Contingency	-	-	-	-	60,000	30,000	41,500	-	131,500
8229	Professional Services	-	-	-	-	30,000	30,000	30,000	-	90,000
8232	Project Management	-	-	-	-	15,000	15,000	15,000	-	45,000
	<b>Total Expense</b>	-	-	-	-	\$918,000	\$482,000	\$544,000	-	\$1,944,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## Lake Loveland Tower Cover

<b>Project Number:</b>	N669	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Lake Loveland
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	2023*
<b>Project Status:</b>	Funded		

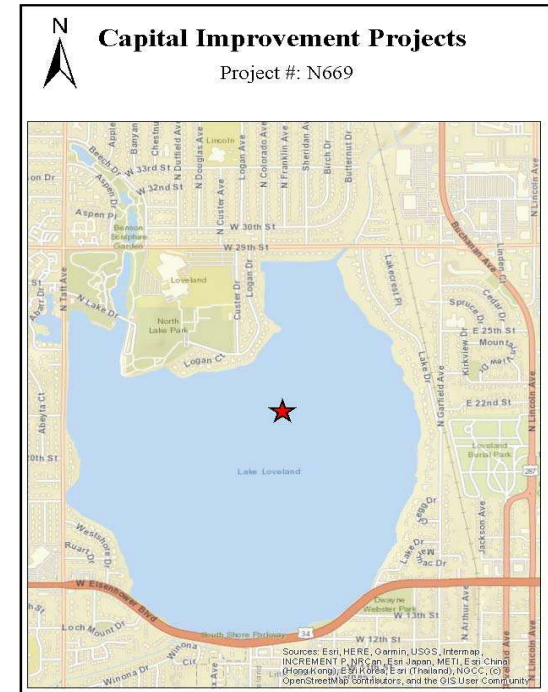
### Description:

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

### 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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	-	270,000	-	270,000
	<b>Total Revenue</b>	-	-	-	-	-	-	\$270,000	-	\$270,000
Expense										
8202	Construction	-	-	-	-	-	-	150,000	-	150,000
8204	Contingency	-	-	-	-	-	-	100,000	-	100,000
8232	Project Management	-	-	-	-	-	-	20,000	-	20,000
	<b>Total Expense</b>	-	-	-	-	-	-	\$270,000	-	\$270,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-





## SCADA Upgrades High Mountain Reservoirs

<b>Project Number:</b>	N621	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	High Mountain Reservoirs
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	2023*
<b>Project Status:</b>	Funded		

### Description:

Anticipate upgrading SCADA for the high mountain reservoirs to meet upgraded regulations required by state engineer's office.

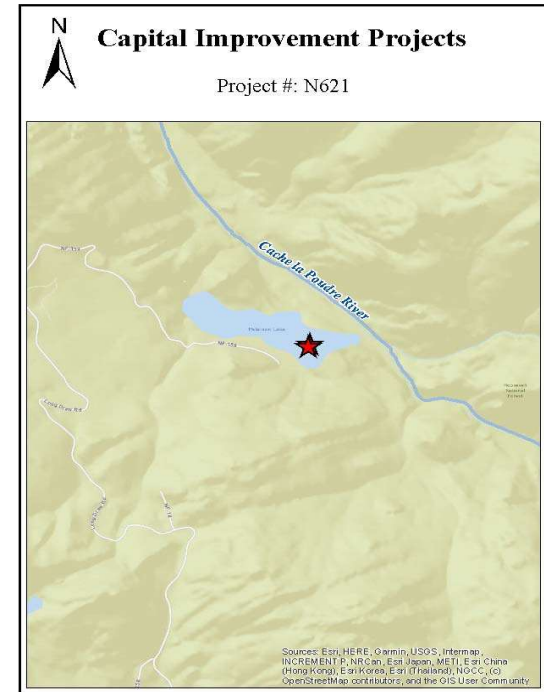
### Discussion of Progress:

Project planned to start in 2023.

### 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

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	124,000	131,200	138,000	-	-	393,200
	<b>Total Revenue</b>	-	-	-	\$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	-	-	-	4,000	4,000	4,000	-	-	12,000
	<b>Total Expense</b>	-	-	-	\$124,000	\$131,200	\$138,000	-	-	\$393,200
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## Peterson Reservoir Spillway Abutment Repair

<b>Project Number:</b>	A642	<b>Budget Year:</b>	2023
<b>Division:</b>	Depreciation	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Peterson Reservoir
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	4231060000000000000000
<b>Project Status:</b>	Funded		

### Description:

Repair deteriorating abutements

### Discussion of Progress:

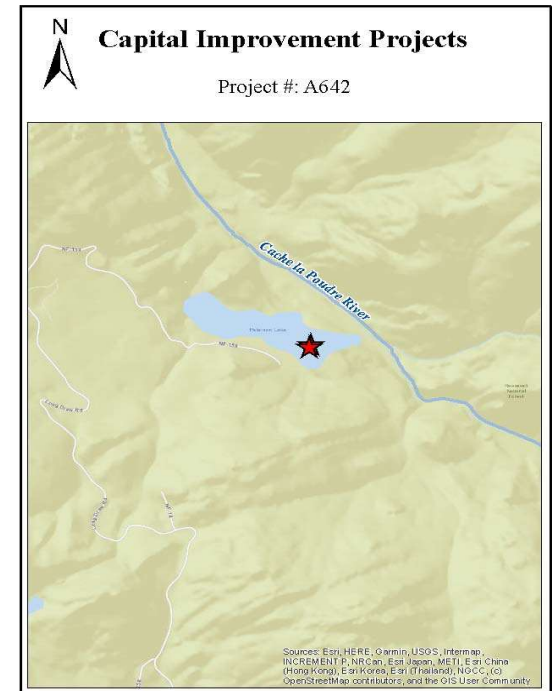
Project in planning for 2024

### Justification:

Required by State Engineers Office

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	200,500	-	-	-	200,500
	<b>Total Revenue</b>	-	-	-	-	\$200,500	-	-	-	\$200,500
Expense										
8202	Construction	-	-	-	-	145,000	-	-	-	145,000
8204	Contingency	-	-	-	-	14,500	-	-	-	14,500
8229	Professional Services	-	-	-	-	29,000	-	-	-	29,000
8232	Project Management	-	-	-	-	12,000	-	-	-	12,000
	<b>Total Expense</b>	-	-	-	-	\$200,500	-	-	-	\$200,500
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-





# Non-Potable Water Master Plan Update

<b>Project Number:</b>	423New	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

## Description:

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

## Discussion of Progress:

Planned for 2025.

## Justification:

Maintain an up to date Master Plan for prioritizing capital improvements for the existing and expanding system. The non-potable system reduces demand for treated water.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	325,000	-	-	325,000
	<b>Total Revenue</b>	-	-	-	-	-	\$325,000	-	-	\$325,000
Expense										
8204	Contingency	-	-	-	-	-	50,000	-	-	50,000
8229	Professional Services	-	-	-	-	-	250,000	-	-	250,000
8232	Project Management	-	-	-	-	-	25,000	-	-	25,000
	<b>Total Expense</b>	-	-	-	-	-	\$325,000	-	-	\$325,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-

## Boyd WTP Process Improvements

<b>Project Number:</b>	11226	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Treatment	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Boyd Filter Plant
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	4231060890110000011226
<b>Project Status:</b>	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:

Carollo has completed the and provided the stamped issued for construction drawings. Hydro Construction started construction in the winter of 2020 of the new chemical building and replacement of the incoming power switch gear. The construction is expected to be completed in the spring of 2022.

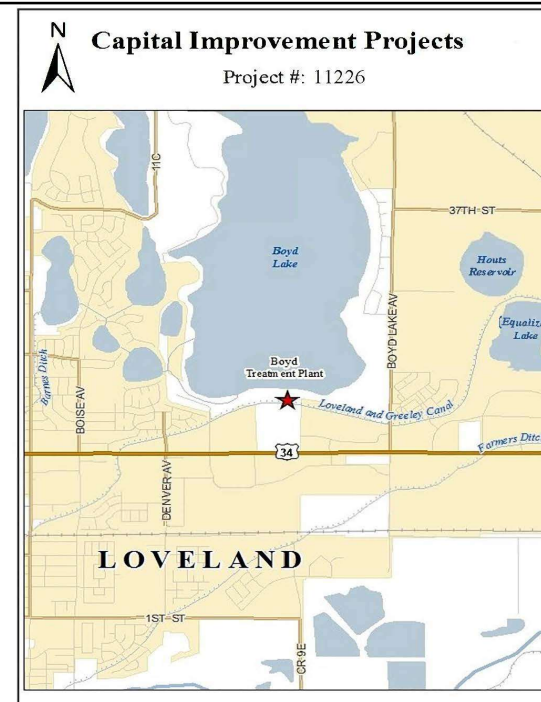
### Justification:

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 proposed 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

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

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future	Grand Total
Revenue											
	Fund Balance	7,622,891	4,033,981	2,359,368	-	-	-	-	4,625,000	12,450,000	31,091,239
4789	Expense	11,600	-	-	-	-	-	-	-	-	11,600
5761	Rebates	11,600	-	-	-	-	-	-	-	-	11,600
5902	Bond Proceeds	-	-	2,776,000	-	-	-	-	-	-	2,776,000
<b>Total Revenue</b>		<b>\$7,646,091</b>	<b>\$4,033,981</b>	<b>\$5,135,368</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>\$4,625,000</b>	<b>\$12,450,000</b>	<b>\$33,890,439</b>
Expense											
8202	Construction	5,671,074	3,791,702	4,509,368	-	-	-	-	4,000,000	12,000,000	29,972,145
8204	Contingency	100,062	61,353	250,000	-	-	-	-	250,000	-	661,415
8216	Miscellaneous	104	-	1,000	-	-	-	-	-	-	1,104
8224	Operating Supplies	72	-	-	-	-	-	-	-	-	72
8229	Professional Services	1,813,410	180,925	325,000	-	-	-	-	325,000	350,000	2,994,335
8232	Project Management	61,369	-	50,000	-	-	-	-	50,000	100,000	261,369
<b>Total Expense</b>		<b>\$7,646,091</b>	<b>\$4,033,981</b>	<b>\$5,135,368</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>\$4,625,000</b>	<b>\$12,450,000</b>	<b>\$33,890,439</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



## Boyd Sedimentation Basin Repair

<b>Project Number:</b>	11386	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Treatment	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Boyd Lake Water Treatment Plant, 3119 E Eisenhower Blvd, Loveland, CO 80537
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	4231060400070000011386
<b>Project Status:</b>	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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	-	900,000	-	85,000
4787	Other	-	-	815,000	-	-	-	-	-	815,000
<b>Total Revenue</b>		-	-	\$815,000	-	-	-	\$900,000	-	\$900,000
Expense										
8202	Construction	-	-	-65,000	-	-	-	750,000	-	685,000
8204	Contingency	-	-	25,000	-	-	-	100,000	-	125,000
8229	Professional Services	-	-	30,000	-	-	-	30,000	-	60,000
8232	Project Management	-	-	10,000	-	-	-	20,000	-	30,000
<b>Total Expense</b>		-	-	-	-	-	-	\$900,000	-	\$900,000
<b>Net Total</b>		-	-	\$815,000	-	-	-	-	-	-

## Bellvue Water Treatment Plant General Rehabilitation

<b>Project Number:</b>	11103	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Treatment	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Bellvue Filter Plant
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	4231060890080000011103
<b>Project Status:</b>	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 2022 this includes the replacement of a sludge pump, new or rehab of the chlorine gas scrubber, and a 24" finished water mag meter.

### Discussion of Progress:

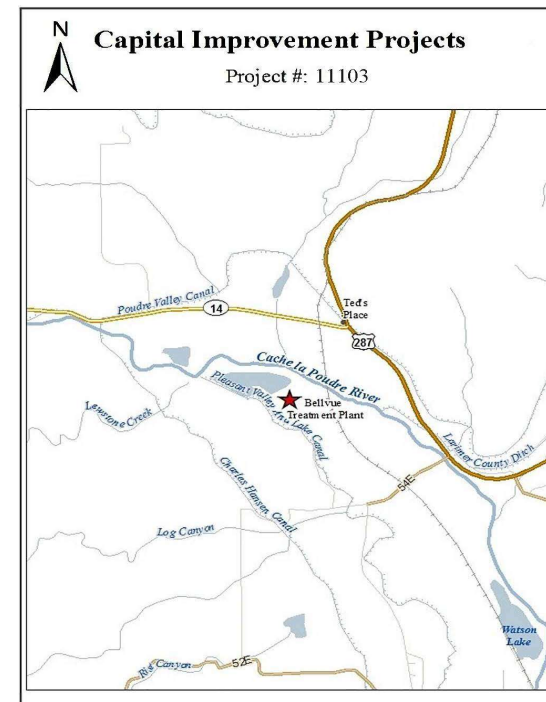
Ongoing planning, design, procurement, and construction.

### 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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	1,367,038	114,317	516,965	500,000	460,000	475,000	555,000	490,000	4,478,320
4787	Other	-	-	505,000	-	-	-	-	-	505,000
<b>Total Revenue</b>		<b>\$1,367,038</b>	<b>\$114,317</b>	<b>\$1,021,965</b>	<b>\$500,000</b>	<b>\$460,000</b>	<b>\$475,000</b>	<b>\$555,000</b>	<b>\$490,000</b>	<b>\$4,983,320</b>
Expense										
8202	Construction	936,845	77,061	597,059	375,000	325,000	285,000	475,000	400,000	3,470,965
8204	Contingency	-	-	159,906	10,000	20,000	20,000	15,000	20,000	244,906
8208	Furniture, Fixtures & Equipment	24,669	-	20,000	20,000	20,000	20,000	15,000	15,000	134,669
8212	Land/Building Cost/Demolition	6,500	-	-	-	-	-	-	-	6,500
8216	Miscellaneous	19	-	-	-	-	-	-	-	19
8224	Operating Supplies	1,407	7,085	-	-	-	-	-	-	8,492
8229	Professional Services	74,609	13,721	10,000	50,000	10,000	50,000	10,000	10,000	228,331
8232	Project Management	35,451	-	20,000	25,000	25,000	25,000	25,000	25,000	180,451
8244	Capital Equipment >\$5,000	287,538	16,450	215,000	20,000	60,000	75,000	15,000	20,000	708,988
<b>Total Expense</b>		<b>\$1,367,038</b>	<b>\$114,317</b>	<b>\$1,021,965</b>	<b>\$500,000</b>	<b>\$460,000</b>	<b>\$475,000</b>	<b>\$555,000</b>	<b>\$490,000</b>	<b>\$4,983,320</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>





## Boyd Water Treatment Plant - General Rehabilitation

<b>Project Number:</b>	11106	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Treatment	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Boyd Filter Plant
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	4231060890110000011106
<b>Project Status:</b>	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:

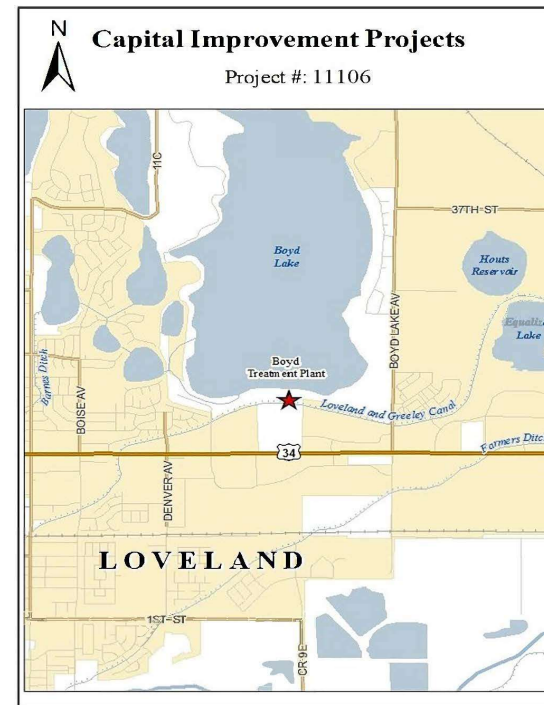
Ongoing planning, design, procurement, and construction. The plan for 2023 is to procure and install a new fluoride skit to be located by the influent of the clearwell. The new fluoride system will allow the use of super sacks to improve operator maintenance. This new system being located outside of 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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future	Grand Total
Revenue											
	Fund Balance	1,190,449	134,512	-	490,000	525,000	495,000	580,000	450,000	475,000	4,339,961
4787	Other	-	-	450,000	-	-	-	-	-	-	450,000
5761	Rebates	12,148	-	-	-	-	-	-	-	-	12,148
<b>Total Revenue</b>		<b>\$1,202,597</b>	<b>\$134,512</b>	<b>\$450,000</b>	<b>\$490,000</b>	<b>\$525,000</b>	<b>\$495,000</b>	<b>\$580,000</b>	<b>\$450,000</b>	<b>\$475,000</b>	<b>\$4,802,109</b>
Expense											
8202	Construction	889,984	41,060	250,000	400,000	450,000	400,000	500,000	300,000	350,000	3,581,044
8204	Contingency	-	-	-	25,000	20,000	25,000	25,000	50,000	25,000	170,000
8208	Furniture, Fixtures &	19,220	-	25,000	20,000	15,000	25,000	15,000	25,000	25,000	169,220
8216	Miscellaneous	5,160	-	-	-	-	-	-	25,000	25,000	55,160
8224	Operating Supplies	76,352	875	-	-	-	-	-	-	-	77,227
8229	Professional Services	80,307	8,472	-	-	-	-	-	-	-	88,779
8232	Project Management	48,189	-	25,000	25,000	25,000	25,000	25,000	25,000	25,000	223,189
8244	Capital Equipment	83,385	84,105	150,000	20,000	15,000	20,000	15,000	25,000	25,000	437,490
<b>Total Expense</b>		<b>\$1,202,597</b>	<b>\$134,512</b>	<b>\$450,000</b>	<b>\$490,000</b>	<b>\$525,000</b>	<b>\$495,000</b>	<b>\$580,000</b>	<b>\$450,000</b>	<b>\$475,000</b>	<b>\$4,802,109</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>





# Water Treatment Plants Master Plan

<b>Project Number:</b>	N735	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Treatment	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Bellvue and Boyd Water Treatment Plants
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

## Description:

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

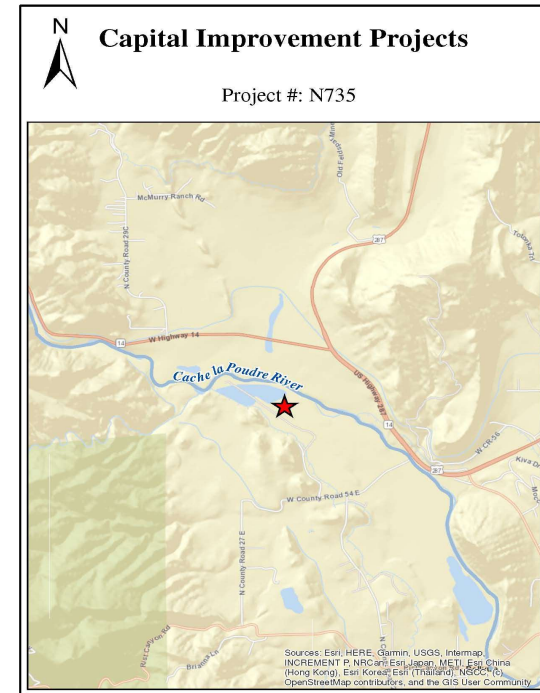
## Discussion of Progress:

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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	790,000	-	-	-	790,000
	<b>Total Revenue</b>	-	-	-	-	\$790,000	-	-	-	\$790,000
Expense										
8204	Contingency	-	-	-	-	100,000	-	-	-	100,000
8229	Professional Services	-	-	-	-	650,000	-	-	-	650,000
8232	Project Management	-	-	-	-	40,000	-	-	-	40,000
	<b>Total Expense</b>	-	-	-	-	\$790,000	-	-	-	\$790,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## Boyd Pump Station Intake Valve Replacement

<b>Project Number:</b>	N618	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Treatment	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Boyd Lake Pump Station
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

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

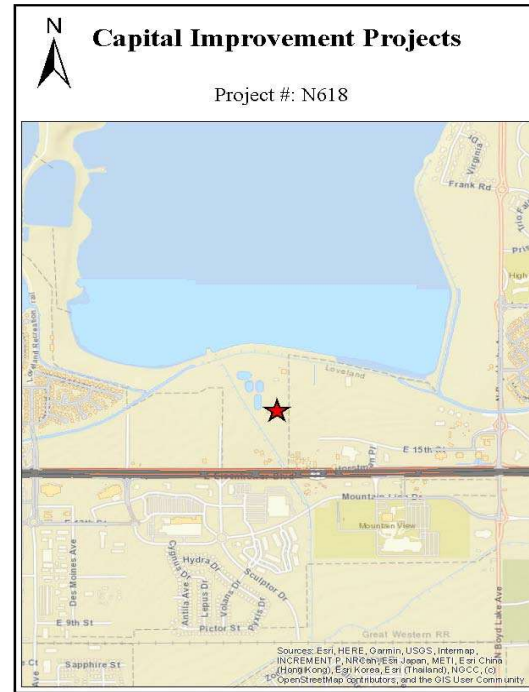
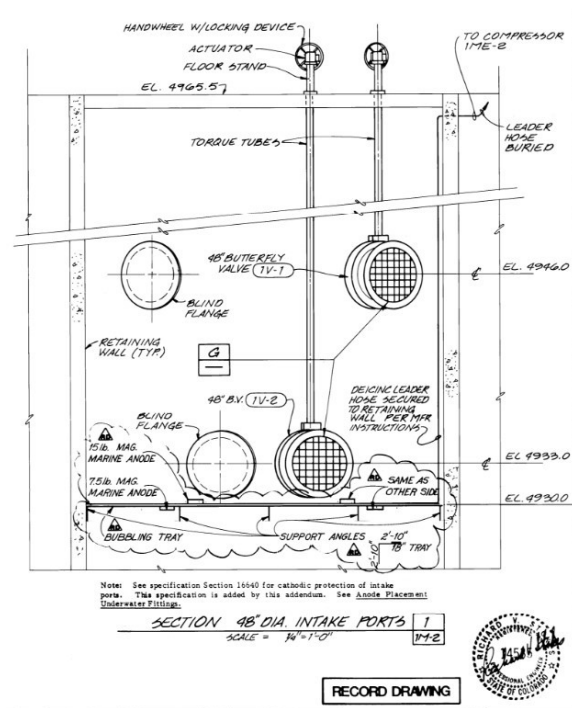
### Discussion of Progress:

Planned for replacement in 2026.

### Justification:

The valve dose 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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	-	520,000	-	520,000
	<b>Total Revenue</b>	-	-	-	-	-	-	\$520,000	-	\$520,000
Expense										
8202	Construction	-	-	-	-	-	-	400,000	-	400,000
8204	Contingency	-	-	-	-	-	-	100,000	-	100,000
8232	Project Management	-	-	-	-	-	-	20,000	-	20,000
	<b>Total Expense</b>	-	-	-	-	-	-	\$520,000	-	\$520,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## Transmission System Rehabilitation

<b>Project Number:</b>	11101	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission &	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide and Along the Major Transmission Line from Bellvue and Boyd Filter Plants
<b>Project Manager:</b>	Dan Moore	<b>Budget Unit #:</b>	4231060890060000011101
<b>Project Status:</b>	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 in-house design and construction.

### Discussion of Progress:

In 2020, 800 linear feet of 20" pipe was rehabilitated with a slip liner at 35th Ave and 22nd St. The original amount of rehab work was significantly reduced after further investigation of leak history. As a result, a lot of cost was avoided by only rehabilitating the 800 feet of pipe. This work also coincided with modifications at Lift Station 13 to reduce impacts to traffic.

### Justification:

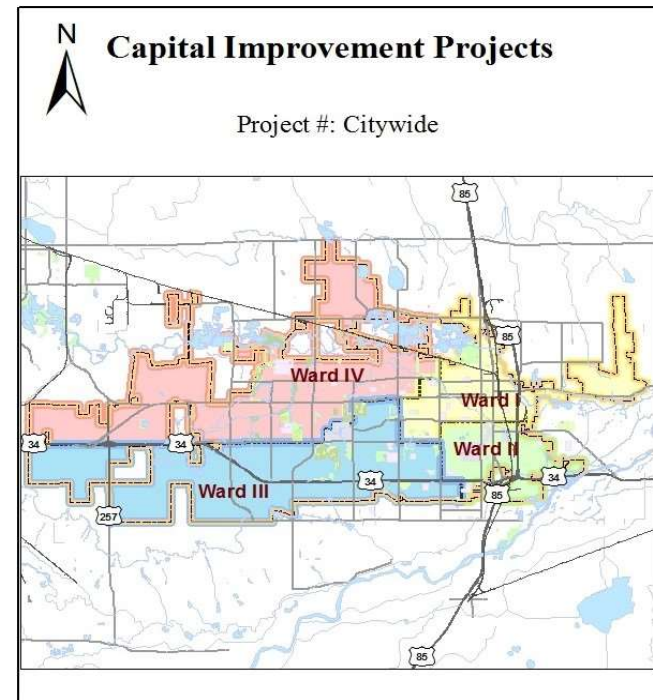
Council priority to maintain critical infrastructure. This program is intended to maintain and protect assets worth over \$105,000,000 (replacement value) and restore and prolong the useful life of the 138 miles of older pipeline. Bellvue's pipelines were constructed between 1923- 1969 and 31 miles have 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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future	Grand Total
Revenue											
	Fund Balance	5,704,345	990,033	-	1,000,000	1,000,000	2,101,000	2,276,000	2,251,000	11,255,000	25,477,378
4322	State Pass Through	86,252	-	-	-	-	-	-	-	-	86,252
4789	Expense Reimbursement	298,273	-	-	-	-	-	-	-	-	298,273
5902	Bond Proceeds	-	-	2,101,000	-	-	-	-	-	-	2,101,000
<b>Total Revenue</b>		<b>\$6,088,871</b>	<b>\$990,033</b>	<b>\$2,101,000</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$2,101,000</b>	<b>\$2,276,000</b>	<b>\$2,251,000</b>	<b>\$11,255,000</b>	<b>\$27,962,903</b>



Expense

8202	Construction	5,262,813	946,393	700,000	800,000	800,000	1,800,000	1,800,000	1,800,000	9,000,000	22,909,206
8204	Contingency	40,000	1,500	180,000	140,000	140,000	180,000	180,000	180,000	900,000	1,941,500
8208	Furniture, Fixtures &	4,746	-	-	-	-	-	-	-	-	4,746
8212	Land/Building	-	-	10,000	4,000	4,000	10,000	10,000	10,000	50,000	98,000
8216	Miscellaneous	124	-	1,000	1,000	1,000	1,000	1,000	1,000	5,000	11,124
8224	Operating Supplies	89,723	-	50,000	25,000	25,000	50,000	50,000	50,000	250,000	589,723
8226	Permits, Fees, Etc	1,000	-	25,000	10,000	10,000	25,000	25,000	25,000	125,000	246,000
8229	Professional Services	559,941	42,139	25,000	15,000	15,000	25,000	200,000	175,000	875,000	1,932,080
8232	Project Management	129,524	-	10,000	5,000	5,000	10,000	10,000	10,000	50,000	229,524
8233	Project Management -	1,000	-	-	-	-	-	-	-	-	1,000
<b>Total Expense</b>		<b>\$6,088,871</b>	<b>\$990,033</b>	<b>\$1,001,000</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$2,101,000</b>	<b>\$2,276,000</b>	<b>\$2,251,000</b>	<b>\$11,255,000</b>	<b>\$27,962,903</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>\$1,100,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



## Distribution Pipeline Replacement

<b>Project Number:</b>	11098	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission &	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Dan Moore	<b>Budget Unit #:</b>	4231060890040000011098
<b>Project Status:</b>	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:

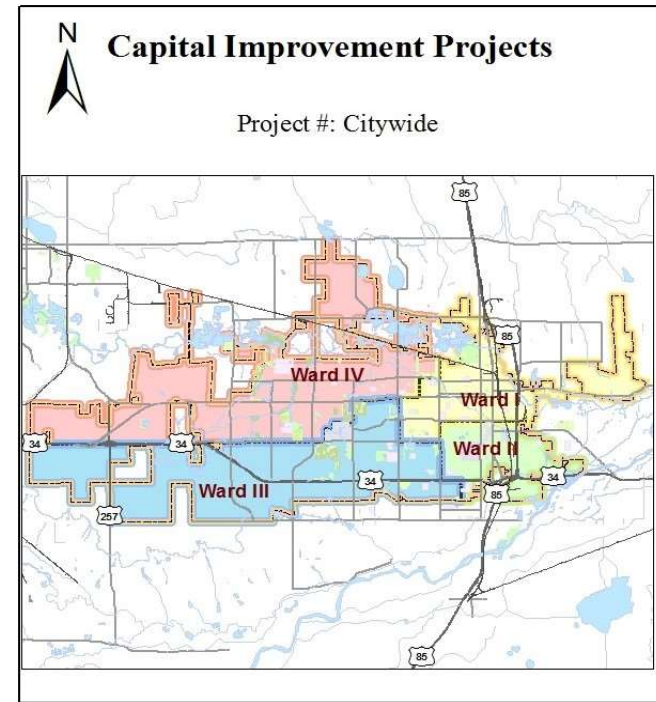
Completed projects include the abandonment of 1,000 feet of 4" cast iron pipe along 4th St from 26th Ave Ct to 35th Ave and replacement by cross-connects to adjacent 27" steel pipe, mitigation of 17 sanitary sewer manholes conflicting with water lines, and the replacement of 1,900 feet of 8" PVC pipe along 4th Ave from 22nd Street to 25th Street.

### 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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future	Grand Total
Revenue											
	Fund Balance	3,605,218	974,731	-	1,895,000	2,400,000	2,324,000	2,134,000	1,719,000	8,595,000	23,646,949
5902	Bond Proceeds	-	-	1,895,000	-	-	-	-	-	-	1,895,000
<b>Total Revenue</b>		\$3,605,218	\$974,731	\$1,895,000	\$1,895,000	\$2,400,000	\$2,324,000	\$2,134,000	\$1,719,000	\$8,595,000	\$25,541,949
Expense											
8202	Construction	2,844,808	974,731	1,580,000	1,580,000	1,910,000	1,864,000	1,864,000	1,449,000	7,245,000	21,311,539
8204	Contingency	99,451	-	150,000	150,000	200,000	175,000	100,000	100,000	500,000	1,474,451
8212	Land/Building	500	-	50,000	50,000	50,000	-	-	-	-	150,500
8216	Miscellaneous	55	-	-	-	-	-	-	-	-	55
8224	Operating Supplies	571,543	-	50,000	50,000	50,000	100,000	100,000	100,000	500,000	1,521,543
8226	Permits, Fees, Etc	50,164	-	25,000	25,000	25,000	25,000	10,000	10,000	50,000	220,164
8229	Professional Services	-	-	25,000	25,000	150,000	150,000	50,000	50,000	250,000	700,000
8232	Project Management	38,698	-	15,000	15,000	15,000	10,000	10,000	10,000	50,000	163,698
<b>Total Expense</b>		\$3,605,218	\$974,731	\$1,895,000	\$1,895,000	\$2,400,000	\$2,324,000	\$2,134,000	\$1,719,000	\$8,595,000	\$25,541,949
<b>Net Total</b>		-	-	-	-	-	-	-	-	-	-





## Advanced Metering Infrastructure

<b>Project Number:</b>	11093	<b>Budget Year:</b>	2023
<b>Division:</b>	Depreciation	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	4231060890040000011093
<b>Project Status:</b>	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:

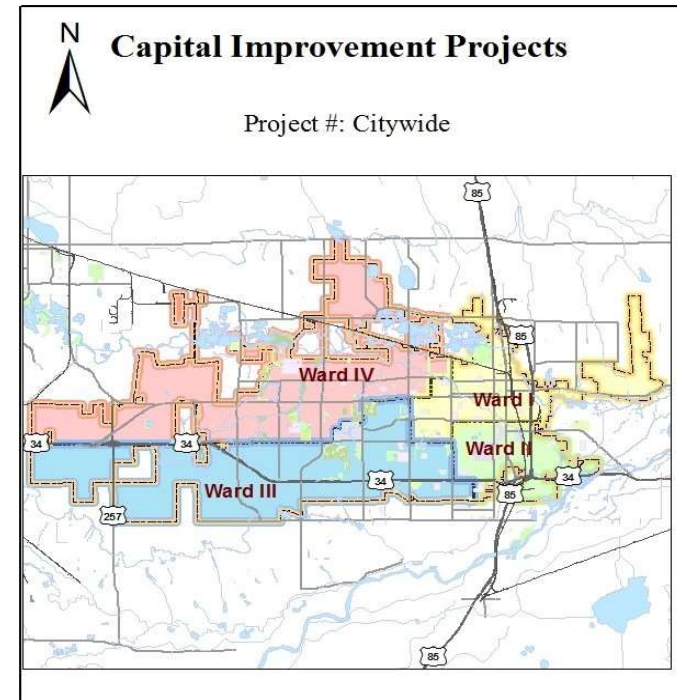
The City purchased 5,000 new Badger Beacon AMI meters in 2020 with City staff installing about 2,000 meters in the last half of 2020. The City developed a request for proposals for an installation contractor to install 12,500 meters in 2021 and 2022. The City received seven proposal and is currently selecting a contractor for the project. It is anticipated that meters will start being replaced in March/April of 2021.

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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	86,237	160,236	6,252,975	700,000	725,000	925,000	-	-	8,849,448
4311	Federal Grants	1,478,450	-	-	-	-	-	-	-	1,478,450
5902	Bond Proceeds	-	-	3,993,900	-	-	-	-	-	3,993,900
<b>Total Revenue</b>		\$1,564,687	\$160,236	\$10,246,875	\$700,000	\$725,000	\$925,000	-	-	\$14,321,798
Expense										
8202	Construction	10,579	-	1,008,900	550,000	-	-	-	-	1,569,479
8204	Contingency	-	-	355,000	100,000	100,000	100,000	-	-	655,000
8208	Furniture, Fixtures & Equipment	1,554,107	160,236	8,817,975	-	600,000	800,000	-	-	11,932,318
8232	Project Management	-	-	65,000	50,000	25,000	25,000	-	-	165,000
<b>Total Expense</b>		\$1,564,687	\$160,236	\$10,246,875	\$700,000	\$725,000	\$925,000	-	-	\$14,321,798
<b>Net Total</b>		-	-	-	-	-	-	-	-	-



# Treated Water Reservoir Rehabilitation

<b>Project Number:</b>	11105	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Dan Moore	<b>Budget Unit #:</b>	4231060890100000011105
<b>Project Status:</b>	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 in Tower 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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	122,167	-	-	2,390,410	175,000	140,000	50,000	45,000	1,515,577
4787	Other	-	-	1,739,410	-	-	-	-	-	1,739,410
<b>Total Revenue</b>		\$122,167	-	\$1,739,410	\$2,390,410	\$175,000	\$140,000	\$50,000	\$45,000	\$3,254,987
Expense										
8202	Construction	7,100	-	-700,000	1,308,000	9,000	9,000	9,000	9,000	651,100
8204	Contingency	-	-	50,000	50,000	1,000	1,000	1,000	1,000	104,000
8208	Furniture, Fixtures & Equipment	-	-	25,000	25,000	25,000	20,000	-	-	95,000
8212	Land/Building Cost/Demolition	-	-	684,410	684,410	10,000	10,000	-	-	1,388,820
8224	Operating Supplies	88,454	-	58,000	58,000	30,000	30,000	30,000	30,000	324,454
8229	Professional Services	26,613	-	175,000	225,000	25,000	-	-	-	451,613
8232	Project Management	-	-	40,000	40,000	15,000	10,000	10,000	5,000	120,000
8244	Capital Equipment >\$5,000	-	-	-	-	60,000	60,000	-	-	120,000
<b>Total Expense</b>		\$122,167	-	\$332,410	\$2,390,410	\$175,000	\$140,000	\$50,000	\$45,000	\$3,254,987
<b>Net Total</b>		-	-	\$1,407,000	-	-	-	-	-	-





## Capital Outlay Replacement - Water

<b>Project Number:</b>	11099	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Erik Dial	<b>Budget Unit #:</b>	4231060105000000011099
<b>Project Status:</b>	Funded		

**Description:**

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

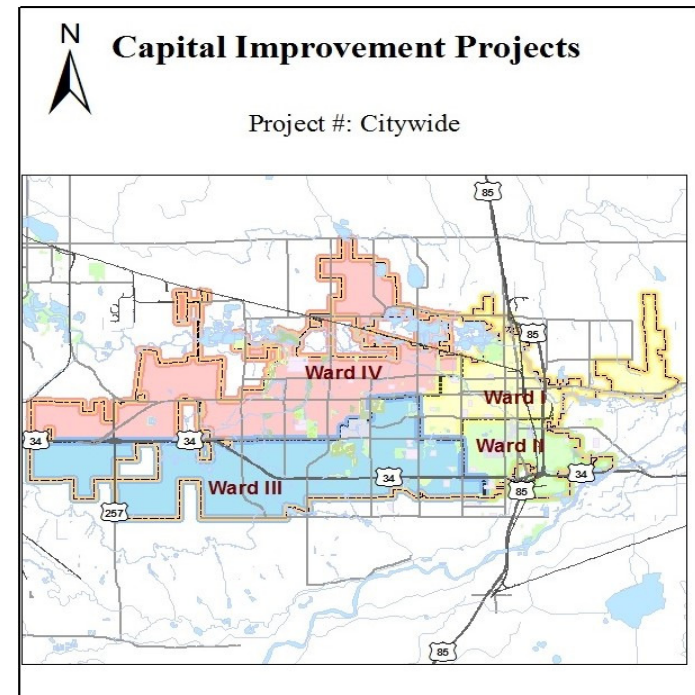
### Discussion of Progress:

### 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.

[illegible]



## Utility Billing Replacement-Water

<b>Project Number:</b>	11094	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Erik Dial	<b>Budget Unit #:</b>	4231060870010000011094
<b>Project Status:</b>	Funded		

### Description:

The current Utility Billing software is at its end of life. It will be replaced with a new system that will enhance customer service and reporting capabilities.

### Discussion of Progress:

Greeley had shortlisted 3 vendor solutions in early 2020. The vendors provided their pricing with their solutions and the budget numbers are based off of their proposals. Because the project was postponed, some inflation is assumed.

### Justification:

A new utility billing system is needed. This will be funded by the Water, Sewer, and Stormwater funds.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	72,462	-	-	3,000,000	-	-	-	-	1,572,462
5902	Bond Proceeds	-	-	1,500,000	-	-	-	-	-	1,500,000
<b>Total Revenue</b>		\$72,462	-	\$1,500,000	\$3,000,000	-	-	-	-	\$3,072,462
Expense										
8208	Furniture, Fixtures & Equipment	652	-	-	-	-	-	-	-	652
8229	Professional Services	71,810	-	-	3,000,000	-	-	-	-	3,071,810
<b>Total Expense</b>		\$72,462	-	-	\$3,000,000	-	-	-	-	\$3,072,462
<b>Net Total</b>		-	-	\$1,500,000	-	-	-	-	-	-



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

### Statement of Account for Utility Service(s)

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

#### ACCOUNT INFORMATION

Account Number: **222-222222-22**

Service: **2000 GREELEY AVENUE CT**  
Location:

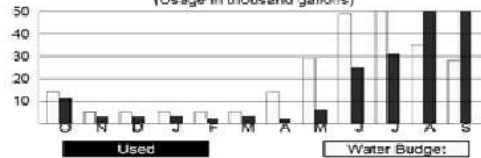
Persons in Household: **4** Irrigable Area: **7799**

#### METER INFORMATION

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

#### CONSUMPTION HISTORY

(Usage in thousand gallons)



#### WATER CHARGES

BUDGET: Indoor		7	Outdoor		21	Total	28
RESIDENTIAL WATER		Used	Rate	Amount			
Water Budget (0% to 100%)		28	3.97	\$108.84			
Inefficient Use (>100% to 130%)		9	4.85	\$42.66			
Excessive Use (>130% to 150%)		5	6.62	\$30.20			
Unsustainable Use (>150%)		8	8.82	\$68.96			
Base Charge				\$11.83			

#### BILLING SUMMARY

Payments	\$165.74
Bal Fwd	\$10.74
RESIDENTIAL WATER	\$262.29
RESIDENTIAL SEWER	\$15.72
STORMWATER	\$11.09

CURRENT CHARGES **\$289.10**

**TOTAL DUE ON 10/18/17 \$299.84**

## Instrumentation & Controls - Water

<b>Project Number:</b>	11100	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Mathew Finch	<b>Budget Unit #:</b>	4231060890050000011100
<b>Project Status:</b>	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.

**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.

[illegible]



# Meter Replacement

<b>Project Number:</b>	11104	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Paul Tucker/Brian Dunlap	<b>Budget Unit #:</b>	4231060890090000011104
<b>Project Status:</b>	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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	784,191	5,125	-	100,000	100,000	100,000	100,000	100,000	1,289,316
4787	Other	-	-	100,000	-	-	-	-	-	100,000
<b>Total Revenue</b>		<b>\$784,191</b>	<b>\$5,125</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$1,389,316</b>
Expense										
8208	Furniture, Fixtures & Equipment	81,671	-	80,000	80,000	80,000	80,000	80,000	80,000	561,671
8216	Miscellaneous	26,736	-	-	10,000	10,000	10,000	10,000	10,000	76,736
8224	Operating Supplies	658,178	-	20,000	10,000	10,000	10,000	10,000	10,000	728,178
8229	Professional Services	17,606	-	-	-	-	-	-	-	17,606
8232	Project Management	-	5,125	-	-	-	-	-	-	5,125
<b>Total Expense</b>		<b>\$784,191</b>	<b>\$5,125</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$1,389,316</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



# Valve Replacement

<b>Project Number:</b>	11096	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Paul Tucker	<b>Budget Unit #:</b>	4231060890020000011096
<b>Project Status:</b>	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.

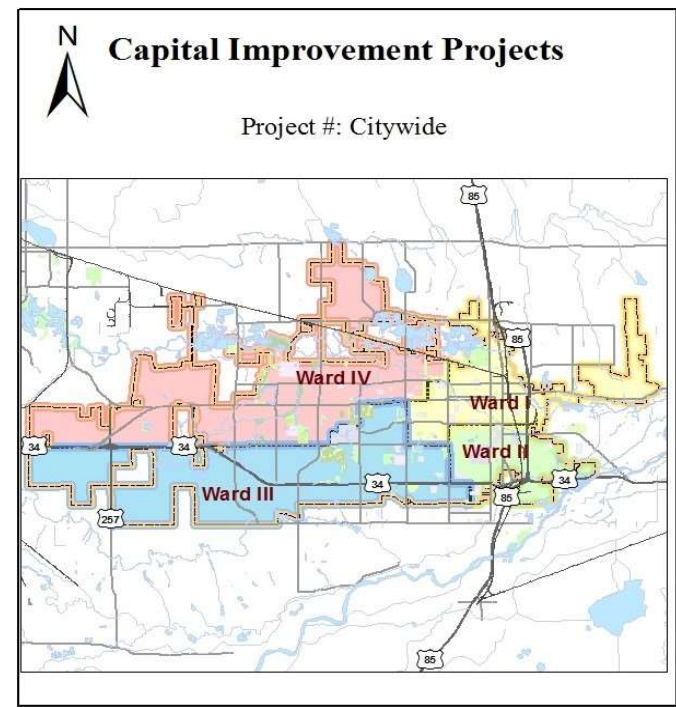
## Discussion of Progress:

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 11,143 valves.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	271,487	1,616	-	100,000	100,000	100,000	100,000	100,000	773,103
4787	Other	-	-	100,000	-	-	-	-	-	100,000
<b>Total Revenue</b>		\$271,487	\$1,616	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$873,103
Expense										
8202	Construction	9,142	1,616	10,000	10,000	10,000	10,000	10,000	10,000	70,757
8216	Miscellaneous	-	-	2,000	2,000	2,000	2,000	2,000	2,000	12,000
8224	Operating Supplies	257,584	-	84,000	84,000	84,000	86,000	86,000	86,000	767,584
8226	Permits, Fees, Etc	4,762	-	2,000	2,000	2,000	2,000	2,000	2,000	16,762
8229	Professional Services	-	-	2,000	2,000	2,000	-	-	-	6,000
<b>Total Expense</b>		\$271,487	\$1,616	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$873,103
<b>Net Total</b>		-	-	-	-	-	-	-	-	-



# Fire Hydrant Replacement

<b>Project Number:</b>	11097	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Paul Tucker	<b>Budget Unit #:</b>	4231060890030000011097
<b>Project Status:</b>	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.

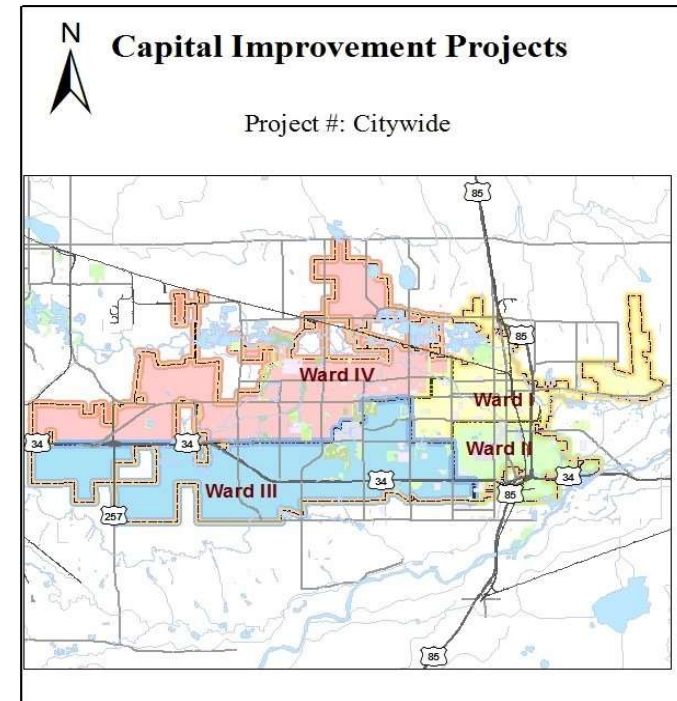
## Discussion of Progress:

Ongoing annual program.

## Justification:

The Water staff and Fire department personnel identify approximately ten units for replacement each year. Labor for replacing and performing hydrant maintenance is charged to the operating account. The system has 3800 hydrants with an expected service life of 50 years. Fire hydrants are also used to distribute water to fracking and construction customers resulting in pavement damage caused by the heavy truck traffic. Each year the damaged pavement is corrected

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	97,070	-	-	77,000	77,000	77,000	77,000	77,000	482,070
4464	Labor & Materials	2,520	-	-	-	-	-	-	-	2,520
4787	Other	-	-	77,000	-	-	-	-	-	77,000
4789	Expense Reimbursement	994	-	-	-	-	-	-	-	994
5812	Damages Recovered	41,664	-	-	-	-	-	-	-	41,664
<b>Total Revenue</b>		\$142,248	-	\$77,000	\$77,000	\$77,000	\$77,000	\$77,000	\$77,000	\$604,248
Expense										
8202	Construction	10,000	-	-	38,000	38,000	38,000	38,000	38,000	200,000
8216	Miscellaneous	-	-	-	4,000	4,000	4,000	4,000	4,000	20,000
8224	Operating Supplies	126,277	-	76,000	35,000	35,000	35,000	35,000	35,000	377,277
8226	Permits, Fees, Etc	194	-	1,000	-	-	-	-	-	1,194
8232	Project Management	5,777	-	-	-	-	-	-	-	5,777
<b>Total Expense</b>		\$142,248	-	\$77,000	\$77,000	\$77,000	\$77,000	\$77,000	\$77,000	\$604,248
<b>Net Total</b>		-	-	-	-	-	-	-	-	-





## Water and Sewer Facilities Program

<b>Project Number:</b>	11112	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Operational Excellence , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	1- 16 St North/35 Ave East
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	TBD
<b>Project Manager:</b>	Cadee Oakleaf	<b>Budget Unit #:</b>	4231060870010000011112
<b>Project Status:</b>	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, which began in the spring of 2021. The feasibility study includes evaluation for occupancy by Water and Sewer, Public Works, and Culture Parks and Recreation. The completion of the feasibility study is anticipated in Fall of 2021 with design beginning after that.

### 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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	12,911	50,120	-	-	3,000,000	-	20,918,162	65,000	24,046,193
4787	Other	-	-	325,000	-	-	-	-	-	325,000
	<b>Total Revenue</b>	<b>\$12,911</b>	<b>\$50,120</b>	<b>\$325,000</b>	<b>-</b>	<b>\$3,000,000</b>	<b>-</b>	<b>\$20,918,162</b>	<b>\$65,000</b>	<b>\$24,371,193</b>
Expense										
8202	Construction	-	-	-	-	3,000,000	-	20,103,162	-	23,103,162
8229	Professional Services	5,541	50,120	300,000	-	-	-	750,000	-	1,105,661
8232	Project Management	7,370	-	25,000	-	-	-	65,000	65,000	162,370
	<b>Total Expense</b>	<b>\$12,911</b>	<b>\$50,120</b>	<b>\$325,000</b>	<b>-</b>	<b>\$3,000,000</b>	<b>-</b>	<b>\$20,918,162</b>	<b>\$65,000</b>	<b>\$24,371,193</b>
	<b>Net Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



## Transmission Line Customers Re-Route

<b>Project Number:</b>	11383	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Along the Bellvue Transmission Line
<b>Project Manager:</b>	Adam Prior	<b>Budget Unit #:</b>	4231060400660000011383
<b>Project Status:</b>	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. A planning program is proposed in 2015 followed by customer removal in the following years.

### 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. A planning program is proposed in 2015 with customer removal in the following years.

### 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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	480,000	-	-	400,000	400,000	400,000	1,680,000
4787	Other	-	-	400,000	-	-	-	-	-	400,000
<b>Total Revenue</b>		-	-	\$880,000	-	-	\$400,000	\$400,000	\$400,000	\$2,080,000
Expense										
8202	Construction	-	-	550,000	-	-	400,000	400,000	400,000	1,750,000
8204	Contingency	-	-	25,000	-	-	-	-	-	25,000
8212	Land/Building Cost/Demolition	-	-	5,000	-	-	-	-	-	5,000
8224	Operating Supplies	-	-	250,000	-	-	-	-	-	250,000
8226	Permits, Fees, Etc	-	-	5,000	-	-	-	-	-	5,000
8229	Professional Services	-	-	35,000	-	-	-	-	-	35,000
8234	Project Management - Burdened Labor	-	-	10,000	-	-	-	-	-	10,000
<b>Total Expense</b>		-	-	\$880,000	-	-	\$400,000	\$400,000	\$400,000	\$2,080,000
<b>Net Total</b>		-	-	-	-	-	-	-	-	-

## Lead Service Line Inventory and Replacement

<b>Project Number:</b>	423New2	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	
<b>Project Type:</b>		<b>Regions:</b>	
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Adam Prior	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	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:

Currently started lead inventory with 20-30 potholes planned for 2022.

### 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.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	2,137,727	2,129,807	2,129,807	2,129,807	2,129,807	10,656,955
	<b>Total Revenue</b>	-	-	-	\$2,137,727	\$2,129,807	\$2,129,807	\$2,129,807	\$2,129,807	\$10,656,955
Expense										
8202	Construction	-	-	-	1,971,245	1,971,245	1,971,245	1,971,245	1,971,245	9,856,225
8229	Professional Services	-	-	-	106,482	98,562	98,562	98,562	98,562	500,730
8232	Project Management	-	-	-	60,000	60,000	60,000	60,000	60,000	300,000
	<b>Total Expense</b>	-	-	-	\$2,137,727	\$2,129,807	\$2,129,807	\$2,129,807	\$2,129,807	\$10,656,955
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-