



Fund 423

Water Capital Replacement







 Morrison, Co 80465
(303) 697-0440
www.tlecc.net

Timber Line Electric
and Control Corp.

  Intelligent Platforms

CITY OF GREELEY
PETERSON RESERVOIR SOLAR SITE
RTU 104

J 4382-2 NOV 2013











Non-Potable Replacement Rehabilitation

Project Number:	12586	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Replacement Supply	Regions:	0 - All Wards
Fund:	Water Capital Replacement	Location:	Citywide
Project Manager:	Ryan Duve	Budget Unit #:	4234401890120000000000
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.

GL Account	Description	Previous 3 Years	2022 Actual	2023 Revised 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		-	-	-	-	-	-	-	-	-	-

















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:	Unassigned	Budget Unit #:	Unassigned
Project 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:

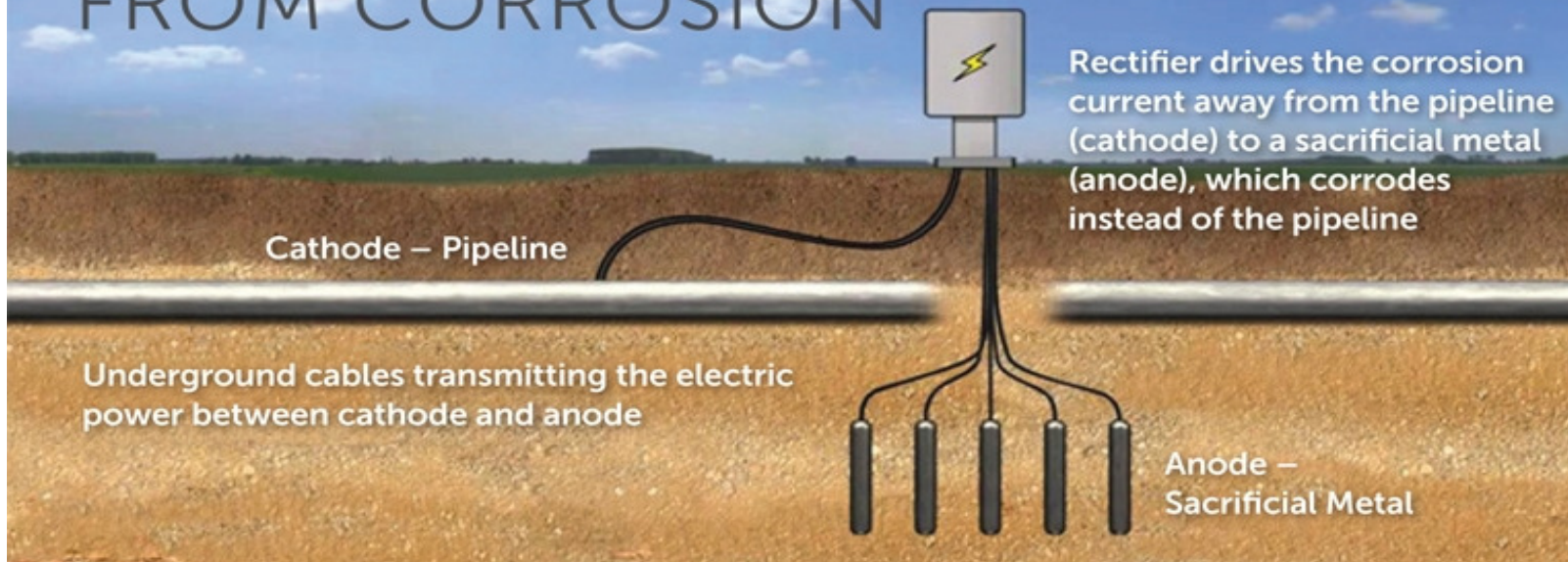
Limited inspections and maintenance items will need to be included in operations budget. Reduced O&M compared to previous tanks.

GL Account	Description	Previous 3 Years	2022 Actual	2023 Revised Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	-	-	-	3,510,000	10,000	-	-	-	12,960,000	16,480,000
Total 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 Expense		-	-	-	\$3,510,000	\$10,000	-	-	-	\$12,960,000	\$16,480,000
Net Total		-	-	-	-	-	-	-	-	-	-





PROTECTING OUR PIPELINES FROM CORROSION







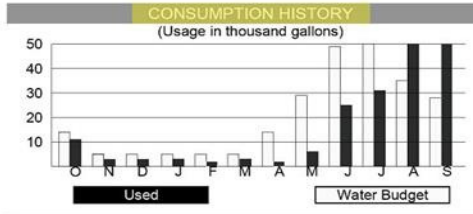
City of Greeley
 Director of Finance
 P.O. Box 1928
 Greeley, CO 80632-1928

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		WATER CHARGES					
Account Number	222-222222-22	BUDGET: Indoor	7	Outdoor	21	Total	28
Service Location	2000 GREELEY AVENUE CT	RESIDENTIAL WATER		Used	Rate	Amount	
Persons in Household:	4	Irrigable Area:	7799	Water Budget (0% to 100%)	28	3.97	\$108.64
				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

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



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

WATER CONSERVATION MESSAGES

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**

BILLING MESSAGES

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
222-222222-22	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





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 Manager:	Rebecca Andrus	Budget Unit #:	4234401890060000000000
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 in-house 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.

GL Account	Description	Previous 3		2023 Revised	2024	2025	2026	2027	2028	Future	Grand Total
		Years	2022 Actual	Budget							
Revenue											
	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		-	-	-	-	-	-	-	-	-	-





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 Wards
Fund:	Water Capital Replacement	Location:	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.

GL Account	Description	Previous 3		2023 Revised Budget	2024	2025	2026	2027	2028	Future	Grand Total
		Years	2022 Actual								
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	-	-	-	-	-	-	-	-





CAM-CENTRIC
FLUID VALVE
VIT MADG

SEAT
END



Advanced Metering Infrastructure

Project Number:	12478	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Replacement Transmission & Distribution	Regions:	0 - All Wards
Fund:	Water Capital Replacement	Location:	Citywide
Project Manager:	John Goin	Budget Unit #:	4234401890040000000000
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.

GL Account	Description	Previous 3 Years	2022 Actual	2023 Revised 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	-	-	-	-	-













City of Greeley **Executive Summary**

Water Treatment Plant Needs Assessment
Task Series 100 – Executive Summary

Denver, CO
September 19, 2016













