WATER & SEWER BOARD AGENDA

Wednesday, July 17, 2019 2:00 p.m.

GREELEY CITY CENTER 1001 11TH Avenue

1001 11¹¹ Avenue **Greeley, CO 80631**

1.	Roll Call:	Chairman Harold Evans Mr. Bob Ruyle Mr. Joe Murphy Mr. Manuel Sisneros Mr. Roy Otto	 Vice Chairman Mick Todd Mr. Fred Otis Mr. Tony Miller Mayor John Gates Mrs. Renee Wheeler 			
2.	Approval of M	inutes				
3.	Approval of an	d/or Additions to Agenda				
r	Consent Agenda The Consent Agenda is a meeting management tool to allow the Board to handle several routine items with one action. The Board or staff may request an item to be "pulled" off the Consent Agenda and considered separately under the next agenda item in the order they were listed.					
4.	 Billing Agreement with Colorado Department of Public Health & Environment for the Milton Seaman Water Supply Project 					
	End of Consent Agenda					
5.	Any Pulled Iter	ms from Consent Agenda				
6.	6. Welcome New Employees					
7.	7. Review and Recommend to City Council Revisions to Title 14 of the Greeley Municipal Code (Dedication Policy)					
8.	8. Update on Gold Hill Segment Property Acquisitions					
9.	9. Adopt Resolution Authorizing Additional Property Acquisitions (Gold Hill Segment – Bellvue Pipeline)					



If, to effectively and fully participate in this meeting, you require an auxiliary aid or other assistance related to a disability, please contact Ettie Arnold at 970-350-9812.

- 10. Approve and Recommend to City Manager the Water and Sewer 2020 Operating Budget and 5 Year CIP
- 11. Water Market Update
- 12. Water Supply Update
- 13. Water Court Update Q2
- 14. Legal Report
- 15. Director's Report
- 16. Executive Session
- 17. Such Other Business That May Be Brought Before the Board and Added to This Agenda by Motion of the Board



City of Greeley Water and Sewer Board Minutes of June 19, 2019 Regular Board Meeting

Chairman Harold Evans called the Water and Sewer Board meeting to order at 2:01 p.m. on Wednesday, June 19, 2019.

1. Roll Call

The Clerk called the roll and those present included:

Board Members:

Chairman Harold Evans, Vice Chairman Mick Todd, Fred Otis, Robert Ruyle, Tony Miller, Manny Sisneros, Renee Wheeler

Water and Sewer Department Staff:

Director Sean Chambers, Deputy Director Water Resources Adam Jokerst, Deputy Director of Operations Nina Cudahy, Business Manager Erik Dial, Water Resources Operations Manager Jennifer Petrzelka, Non-Potable Superintendent Roger Schmidt, Water Resource Admin. Kelen Dowdy, Staff Engineer Cadee Oakleaf, Summer Intern Victoria Soliz and Senior Administrative Assistant Ettie Arnold

Legal Counsel:

Counsel to Water & Sewer Board Attorney Carolyn Burr, Environmental and Water Resources Attorney Jerrae Swanson, Environmental and Water Resources Attorney Aaron Goldman, Environmental and Water Resources Attorney Dan Biwer

2. Approval of Minutes

Vice Chairman Todd moved, seconded by Mr. Sisneros, to approve the May 20, 2019 Water and Sewer Board meeting minutes. The motion carried 6-0.

3. Approval of and/or Additions to Agenda

There were no changes or additions to the Agenda.

****Consent Agenda****

****End of Consent Agenda****

4. Pulled Consent Agenda Items

There were no items on the consent agenda for this meeting.

5. Welcome New Employees

Mr. Chambers provided an introduction of new Water and Sewer Department employees starting this month. Civil Engineer, Cadee Oakleaf and Deputy Director of Operations Nina Cudahy.

6. Approve and Recommend to Council the Acquisition of Interest in Real Property for the Purchase of Siting the Ashcroft Lift Station

Cadee Oakleaf presented on the Ashcroft Lift Station Project. She presented information regarding the lift station purpose, site selection, force main alignment for connection to existing collection system and information on properties where temporary and permanent easements or property rights would be needed to configure wastewater utility service.

Vice Chairman Todd moved, seconded by Mr. Miller, to approve and recommend to Council the Acquisition of Interest in Real Property for the Purpose of Siting the Ashcroft Lift Station and Force Main, as described in the enclosed resolution. The motion carried 6-0.

7. Non-Potable System Overview and Update

Adam Jokerst provided an update and overview regarding the Non-Potable System. He shared history of infrastructure, an overview of the existing System, update to the 2004 Non-Potable Master Plan, future expansion plans, and next steps.

Ruth Quade joined the meeting at 2:17 p.m.

Cadee Oakleaf and Roger Schmidt left the meeting at 2:56 p.m.

8. Water Budget Report

Jen Petrzelka provided a recap on Water Budgets and the attributes and advantages of employing water budget limitations as one of the City's drought response tools. Ruth Quade provided insight into the City's ability to use Water Budgets as a water conservation tool through outreach, education, and the application of advanced metering tools to empower consumption data with automation. Ms. Petrzelka and Ms. Quade described recommendations and next steps for refining customers' Water Budget

allocations to provide more accurate water use information to customers and to effectuate adequate levels of drought response. Erik Dial addressed water budget rate questions from the Board. Chairman Evans and Board members stressed the importance of honing our message to and communications with customers prior to allocation adjustments.

Ruth Quade and Kelen Dowdy left the meeting at 3:18 p.m.

9. Legal Report

Carolyn Burr of Welborn Sullivan Meck & Tooley provided this month's legal report to the Board.

Recommended Statements of Opposition:

- a. 19CW3073: United Water & Sanitation District & South Weld Holdings LLC: Application for a plan for augmentation and substitution to replace out-of-priority depletions in Beebe Draw and the South Platte River. Applicants plan to deliver out of priority water from the Beebe Seep Canal into the not yet constructed Highlands Reservoir and replace depletions with water stored in 70 Ranch Reservoir and Milliken Reservoir. Out of priority diversions up to 2000 a.f./year from Beebe Seep Canal; storage capacity of Highlands Reservoir is planned to be 4,500 a.f. Ms. Burr recommended that Greeley file a statement of opposition. Greeley has opposed and actively monitored United/ECCV/ACWWA cases on the South Platte river to (a) protect its exchanges that involve the South Platte, and (b) because these applicants frequently pose new questions of law in their cases.
- b. 19CW3074: Arapahoe County Water & Wastewater Authority: ACWWA is seeking the following junior, conditional rights: Bowles Seep Canal Right, 30 cfs; DeSanti Water Right, 10 cfs; Milton Lake Water Storage Right, 3000 a.f. fill and refill; Highlands Reservoir Storage Right, 3000 a.f. fill and refill. ACWWA seeks to use the water as a source of augmentation and recharge in 10CW306 and 13CW3026 and 16CW3195. ACWWA seeks to divert these rights out of priority and is claiming a plan for augmentation similar to United's claims above. Ms. Burr recommended that Greeley file a statement of opposition. Greeley has opposed and actively monitored United/ECCV/ACWWA cases on the South Platte river to (a) protect its exchanges that involve the South Platte, and (b) because these applicants frequently pose new questions of law in their cases.
- c. 19CW3075: East Cherry Creek Valley Water & Sanitation District: ECCV is asserting the same claims as ACWWA, above. It's unclear if the ECCV/ACWWA claims are cumulative or additive. Ms. Burr recommended that Greeley file a statement of opposition for the same reasons stated for 19CW3073 and 3074.

Mick Todd made a motion, seconded by Mr. Miller, that the Board authorize the filing of a statement of opposition in Case Nos. 19CW3073, 19CW3074 and 19CW3075, and for staff and legal counsel to seek resolution of issues raised by that case consistent with Water and Sewer Board Resolution No. 3-15. The motion carried 6-0.

Case Update

d. 18CW3016: Tunnel Exchange Diligence Application: This is an application for diligence, and to make one of the conditional decreed exchanges associated with Greeley's interest in the Tunnel Water Company partially absolute. This exchange allows Greeley to store its Tunnel Water in Milton Seaman Reservoir. Greeley has stipulated with both parties in this case, the Cache la Poudre Water Users Association and the City of Thornton. Greeley filed a motion for entry of the proposed decree on May 8. The referee entered the ruling on May 31, and parties have until June 21 to protest that ruling. After the protest period has passed, the water judge will enter the final decree.

10. Executive Session

There was no executive session.

11. Director's Report

Mr. Chambers gave a report on the following items:

- Annual Update to Water and Sewer Master Plan
- Greeley Municipal Code 14.04.100 Budget Process
- Debrief on Town of Windsor and City of Greeley water infrastructure meeting
- Debrief on Groundwater Project Tour
- 2020 Budget Presentation July 17, 2019 W&S Board Mtg.

Victoria Soliz left the meeting at 3:39 p.m.

12. Such Other Business That May be Brought Before the Board and Added to This Agenda by Motion of the Board

- Chairman Evans provided an update on the History Book.
- Vice Chairman Todd sits on the Greeley Arts Commission and Museum. Vice Chair Todd expressed an interest in a collaborative water wise demonstration education projects that could be done with Poudre Learning Center. He suggested there may be an opportunity to message the scale of Greeley's robust water system through a landscape architecture type model that could potentially be developed with collaborative funding. The Board agreed it is a positive opportunity for education and a good location for public outreach.

There were no additional items brought before	e the Board and added to the agenda.
Chairman Evans adjourned the meeting at 4:	16 p.m.

	Harold Evans, Chairman
Ettie Arnold Senior Administrative Assistant	

WATER & SEWER BOARD AGENDA JULY 17, 2019

ENCLOSURES X NO ENCLOSURE ___

ITEM NUMBER: 4

TITLE: APPROVE ANNUAL BILLING AGREEMENT

WITH COLORADO DEPARTMENT OF PUBLIC

HEALTH AND ENVIRONMENT FOR

PARTICIPATION IN THE MILTON SEAMAN WATER SUPPLY PROJECT ENVIRONMENTAL IMPACT STATEMENT AND SECTION 401

WATER QUALITY CERTIFICATION

RECOMMENDATION: APPROVE ANNNUAL BILLING AGREEMENT

WITH COLORADO DEPARTMENT OF PUBLIC

HEALTH AND ENVIRONMENT

ADDITIONAL INFORMATION:

Staff requests the Water and Sewer Board to approve the 2019 Billing Agreement with the Colorado Department of Public Health and Environment, Water Quality Control Division (Division). The Division has been asked to review the water quality data and modeling being used for the Milton Seaman Water Supply Project (MSWSP) Environmental Impact Statement (EIS) to ensure the information used in the analyses can also be used in pursuit of a Clean Water Act Section 401 Water Quality Certification (401 Certification).

For projects requiring 401 Certification, the Division is required to categorize projects into a tier ranging from one through four based on project complexity pursuant to Colorado Regulation 25-8-502 C.R.S.. The division has determined that due to the high degree of complexity, the increased potential for water quality impacts, and the significant level of public participation regarding this project, that the MSWSP 401 Certification review is a Tier 4 project. As such, the City of Greeley is required to provide funding for the actual review costs associated with the Division's participation in the MSWSP EIS and 401 Certification through the execution of a yearly Billing Agreement.

An IGA covering this work in 2016 was approved by the Water and Sewer Board and City Council. In Resolution 24, 2017, City Council delegated authority to approve subsequent yearly Billing Agreements to the Water and Sewer Board and execution by the Mayor until such time that the Division has issued or denied the 401 Certification. Greeley and the Division entered into a Billing Agreement in 2018.

The Division has estimated that costs will not exceed \$25,000 for the 2019-2020 period (July 1, 2019 to June 30, 2020). Last year, the Division estimated that costs would not exceed \$40,000. The total fee invoiced for the 2018-2019 Billing Agreement period was \$5,200.



June 24, 2019

City of Greeley Attn: Adam Jokerst, Deputy Director of Water Resources 1100 10th Street, Suite 300 Greeley, CO 80631

Re: Milton Seaman Water Supply Project, Billing Agreement for the Section 401 of the Clean Water Act, State Water Quality Certification

Dear Mr. Jokerst:

The Colorado Department of Public Health and Environment, Water Quality Control Division (Division), has been asked to review the water quality data analysis and modeling being used for the Milton Seaman Water Supply Project (MSWSP) Environmental Impact Statement (EIS) to ensure the information used in the analysis can also be used for the 401 Water Quality Certification (401 Certification). For projects requiring 401 Certification, the Division is now required to categorize projects into a tier ranging from 1 through 4 based on project complexity pursuant to Colorado regulation 25-8-502 C.R.S. and House Bill 15-1249 (1.2). The Division determined that due to the high degree of complexity, the increased potential for water quality impacts, and the significant level of public participation regarding this project, the MSWSP qualifies as a Tier 4 project. Due to the complexity of the project, the Division will enter into a contract with a contractor to assist the Division in the analysis of the water quality data, models and technical reports. The MSWSP project will require Division staff and contractor time to review technical information and reports in support of the 401 water quality certification. Because the Division has determined that the project is a Tier 4 project, the applicant is required to pay the actual costs of review based on the calculated hourly fees. The Division has not entered into a contract with a consultant, but once the Division does, we will inform the City of Greeley of the contractor and the associated costs. The fees for the contractor will range depending on the review required for the 401 certification.

The City of Greeley will agree to pay the fees based on hours worked by both the contractor and Division staff, or the Division will cease participation in the EIS review process or the 401 application, whichever is applicable. Division staff can include administrative support and fiscal staff. Acceptance and signature of this letter by the City of Greeley will allow the Division to work on the MSWSP EIS and 401 certification. For this service, the Division will bill the City of Greeley fees on a monthly basis when work is performed on the MSWSP project. The exact amount of Division staff and contractor time is currently unknown, but based on the costs associated with the Milton Seaman project for the Division for 2018-2019 (≈\$5,200) the Division estimates that costs will not exceed a cumulative amount of \$25,000 for a time period of July 1, 2019 through June 30, 2020. The Division will revisit the work and fees quarterly to determine if an adjustment is warranted. If an adjustment is warranted, a new billing agreement will be provided. If payment is not received within 30 days, the Division will no longer be able to participate in this review and certification process. The Division will prepare a new cost estimate and billing agreement near the expiration of the current billing



agreement. If payment is not received within 30 days, the Division will cease participation in the MSWSP EIS and review of the 401 Certification application process. Before June 30, 2020, the Division will prepare a new cost estimate and billing agreement.

If you wish for the Division to withdraw from participation in the MSWSP EIS process and review of the 401 Certification, please send the Division a separate notice to that effect and we will discontinue the review.

Sincerely,

Aimee Konowal Watershed Section Manager Water Quality Control Division

The undersigned represents that the City of Greeley hereby agrees to pay the fees associated with the Divisions' participation in the MSWSP EIS process and its' review of the 401 Certification, subject to the terms stated above.

THE CITY OF GREELEY, COLORADO A Colorado home rule municipal corporation

Ву:	
Title:	
Date:	



WATER & SEWER BOARD AGENDA JULY 17, 2019

ENCLOSURE	NO ENCLOSURE _	<u>X</u>
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ITEM NUMBER: 6

TITLE: WELCOME NEW EMPLOYEES

RECOMMENDATION: INFORMATION ONLY

ADDITIONAL INFORMATION:

Staff to introduce and welcome new full-time employees starting employment in May within the department.

• Joe Studdard – Boyd WTP Operator B

WATER & SEWER BOARD AGENDA JULY 17, 2019

ENCLOSURE X NO ENCLOSURE ___

ITEM NUMBER: 7

TITLE: REVIEW AND RECOMMEND TO CITY

COUNCIL REVISIONS TO TITLE 14 OF THE GREELEY MUNICIPAL CODE (DEDICATION

POLICY)

RECOMMENDATION: RECOMMEND TO CITY COUNCIL REVISIONS

TO TITLE 14 OF THE GREELEY MUNICIPAL

CODE (DEDICATION POLICY)

ADDITIONAL INFORMATION:

At three Water and Sewer Board meetings in late 2018, staff discussed a proposal for modifying the raw water requirements for commercial and multi-family development. The non-residential raw water requirements were last modified in 1989 and are currently based on the tap size.

During the development of the proposal, staff used BBC Research and Consulting to refine and review the usage requirements per category type and test the potential impacts. BBC Research and Consulting presented their findings to the Water and Sewer Board in December. At that time, Board expressed its support for the proposal and staff started the Code revisions necessary to enact the policy changes. In the interim, staff also presented the modified raw water requirements to development interests at an open house in January and then to City Council at a work session in March.

The enclosed ordinance exhibit contains proposed revisions to Title 14 of the Greeley Municipal Code to effect these policy changes. Staff requests that the Water and Sewer Board review the proposed Code revisions and recommend to City Council the adoption of an ordinance to codify this change in raw water and dedication requirements to a volume of use based methodology.



Raw Water Dedication Requirements

2019 Tap Fees for New and Modified Water/Sewer Taps

Tap fees are charged for all new water connections and may be charged for modifications to existing connections. There are four components to the tap fee.

- 1. Cash in Lieu of Raw Water
- 2. Water Plant Investment Fee
- 3. Sewer Plant Investment Fee
- 4. Water Meter

A separate tap is required for each single-family detached and attached unit and for each multifamily and non-residential building. Buildings with mixed residential and commercial uses require separate taps for the residential and non-residential components of the building. All landscaping requires separate irrigation taps (except for residential 4 units or less).

Water Meter and Tap Sizing

- Residential single-family detached and attached houses normally have a ¾" tap and water meter.
- Multi-family and non-residential water taps and meters are sized based on the water use, which is determined by fixture, appliances and other water demands.
- Taps, water meters, and services lines must be the same size unless approved by the City.
- Non single-family projects must complete the City's Plumbing Data Sheet for sizing.
 Multi-family units with four or less units do not need to complete the Plumbing Data Sheet.

Cash in Lieu of Raw Water

- No Cash in Lieu fees are due if there is enough acceptable raw water dedicated to the City or if there is enough raw water credit associated with existing taps on the property being developed. Any raw water dedication must be approved by City staff.
- Cash in Lieu fees are based on the amount of water required for the project on an annual basis.
- Residential single-family detached and attached taps pay a standard fee based on the type
 of residential unit.
- Water demand for non-residential projects are calculated based on the type of business, the square footage of the business area, and the square footage and type of landscaping.
- Cash in Lieu fees are paid according to each user's service commitment. Each customer's service commitment represents its expected annual volume of water use.
- Service commitments must be recorded with the Weld County Clerk and Recorder.
- Because the establishment of landscaping may require extra watering, exceeding the service commitment during the first full calendar year of water service for the new

- commercial or multi-family customer will not be considered as an overage and no raw water surcharge payment will be due.
- If water use in a new commercial, mixed use, or multi-family building (greater than 4 units) exceeds its service commitment in any calendar year, the owner will be required to pay a raw water surcharge for the volume of water exceeding the service commitment. The water user will be given the option to apply their raw water surcharge payment to purchase additional raw water through a Cash in Lieu payment. Additional raw water purchases must be a minimum of 1/8 of an acre foot (41,000 gallons) of water.
- Service commitment pricing is based on the current Cash in Lieu of water prices for Greeley.

Water Plant Investment Fee

- For the domestic water tap (the tap serving the building), the water plant investment fee (PIF) is charged based on the size of the water tap. See the 2019 Non-Residential Tap Fee Schedule for the PIF.
- For the landscaping water tap, a reduced PIF will be owed if at least 75% of the landscape is xeriscape. If the landscaping does not meet this threshold of water wise landscaping then the full PIF is owed. See the 2019 Non-Residential Tap Fee Schedule for the PIF.
- The fee recovers the cost related to the potential peak flow of water through a water tap.
- The City's treatment and distribution system must be sized for the combined peak flows of all the individual taps. Each tap must pay for its portion of the total system peak flow.

Water Meter Charge

- The water meter charge is per each meter installed based on the size of the meter.
- Meters used are provided by the City.

Sewer Plant Investment Fee

• The sewer plant investment fee is charged based on the size of the domestic water tap.

Payment Timing

Building and irrigation tap fees are paid at the time of building permit issuance.

2019 Residential Tap Fee Schedule					
Meter Charge Water PIF Cash in Lieu				Sewer PIF	
Single-family per	\$313	\$10,800	Lot Acreage x 3	\$5,700	
Unit			AF/ac x CIL Price*		
Multi-family per	Based on	Based on meter	Lot Acreage x 3	\$2,850	
Unit if 4 Units or	meter size	size	AF/ac x CIL Price*		
Less					

^{*}Three acre feet per acre is the standard raw water requirement for residential development. Developments with deed restrictions requiring low water use landscaping may qualify for a lower raw water requirement.

Tap Fee Example:

A 20,000 square foot office building requiring an estimated 1.5" water tap would be calculated as follows:

Referring to the 1.5" water tap on the Non Residential Tap Fee Schedule you add the tap size components:

Meter Charge	\$1,428
Water Plant Investment Fee	\$36,000
Sewer Plant Investment Fee	\$19,000
Total	\$56,428

The next step is to look up the Office business category in the 2019 Business Category and Water Use table. Multiply 14 gallons per square foot by 20,000 square feet for a total annual gallons requirement of 280,000 gallons. Divide that by 325,851 (gallons in an acre foot of water) to determine the water resource service commitment. Multiply that by the \$31,000 Cash in Lieu cost listed on the Non-Residential Tap Fee Schedule for the total Cash in Lieu cost of \$26,638. Add the two totals together for an estimated tap fee of \$83,066.

Category Name	Units	Unit Use (Gallons per unit per year)
Auto Service & Repair	sf	12
Car Wash	bay	1,350,000
Childcare	sf	47
Church	sf	4.5
Grocery Store	sf	20
Gas Station w/o Car Wash	sf	93
Hospital	sf	21
Hotel/Motel	room	30,300
Medical Office	sf	25
Multi-family (greater than 4 units)	unit	35,500
Office	sf	14
Recreation w/ pool	sf	122
Recreation w/o pool	sf	25
Restaurant	sf	188
Retail	sf	16
School	sf	11
Warehouse	sf	5
Industrial	Determined or	a case by case basis

Restaurant outdoor seating areas with partial or full seasonal coverings are counted at 50% for building square footage.

	2019 Non-Residential Tap Fee Schedule				
Meter Size	Meter	Water PIF	Irrigation Water PIF	Cash in	Sewer PIF
	Charge		if ≥75% Xeriscape	Lieu	
5/8" & 3/4"	\$313	\$10,800	\$2,700	Calculated	\$5,700
1"	\$456	\$18,000	\$4,500	based on	\$9,500
1-1/2"	\$1,428	\$36,000	Landscape meters	Water	\$19,000
2"	\$1,637	\$57,500	larger than 1" pay	Resources	\$30,300
3"	\$7,371	\$126,000	full PIF	allocated	\$66,400
4"	\$10,752	\$216,000			\$113,700
6"	\$13,771	\$450,000			\$237,000

Irrigation Tap Fees

Irrigation tap fees are charged based on the irrigation area and the landscape type. The size of the tap determines the water plant investment fee and meter charge. The raw water requirement is determined based off the area and type of landscaping. Landscape plans with more than 75% high water use vegetation are assumed to be entirely high water using and calculated as such.

High Water Use (>14 gals/sf annual use)	(CIL price x 3)/43,560 = raw water charge/sf
Medium Water Use (10-14 gal/sf annual use)	(CIL price x 2.3)/ $43,560 = \text{raw water charge/sf}$
Low Water Use (<10 gals/sf annual use)	(CIL price x 1.6)/43,560 = raw water charge/sf
No Irrigation	No raw water charge

Non-Potable Water Service

The utilization of Greeley's non-potable water supplies is an important component of the City's long-term water resource plan. Non-potable water systems are required for developments having 20 acres or more of common open space irrigation. Developments with less than 20 acres of common space irrigation and that can be economically connected to the City's existing non-potable distribution infrastructure will be encouraged to utilize non-potable water to serve all irrigation needs. Financial incentives may be available to make the use of non-potable water on the site advantageous.



Print Name



This agreement is applicable for the property and water tap listed below. It is entered into by the current property owner but remains in effect for the property regardless of future ownership. This agreement may be amended if the current owner and the City of Greeley so desire. Once signed, this agreement must be recorded with the Weld County Clerk and Recorder.

Attach legal description. Properties with multiple taps specify service are by tap. Each separate tap requires a

separate Service Commitment Agreement. __ Permit Number: ___ Location: Owner: ____ The City of Greeley, in conjunction with the issuance of water tap for the above-mentioned property, holds a service commitment of _____ acre feet, a ____ inch meter service, and a ____ inch water tap. To determine the service commitment of said property you must refer to the Raw Water Dedication Requirements document. If the actual water usage exceeds the projected usage a raw water surcharge will be assessed. Additionally if the actual type of use differs from the proposed use, the owner may be subject to subsequent review and or additional charges. The Proposed use is as follows: Number of Units **Use Category** Sewer tap fees and service commitments are based on the size of the water tap installed. Additional sewer tap may be charged if the water tap size is changed. Water tap fees for irrigated areas are based on the size of the area and the type of landscaping. Changes to either the area or type of landscaping may result in the future review and or the imposition of additional fees. Irrigation: To be on separate agreement. **Property Owner Signature** Date **Print Name** Title Company name **Company Address** City State City of Greeley Signature Date

Date

EXHIBIT A ORDINANCE REVISING TITLE 14 GREELEY MUNICIPAL CODE

Chapter 14.04 Water and Sewer Administration

14.04.080 - Duties, fees and charges.

The Water and Sewer Board shall adopt by resolution the following rates, fees and charges:

- (1) Minimum and sufficient potable water rates;
- (2) Minimum and sufficient sanitary sewer rates;
- (3) Cash-in-lieu fees;
- (34) Raw water surcharges;
- (45) Water plant investment fees;
- (56) Sewer plant investment fees; and
- (67) Water turn-on charges.

14.04.180 - Water or sanitary sewer service; permit required, procedure.

It is unlawful for any owner or user of water to turn or cause to be turned on water for his or her premises or to take and use water or sanitary sewer service on his or her premises, without having obtained a permit therefor. Such person shall make application in writing to the Director of Finance for such permit, furnishing the necessary information for the determination of the proper water or sewer rate, and upon receipt of such information and payment of the required fees, the permit shall be issued by the Director of Finance.

14.04.190 Contents of permits.

All permits shall be signed by the Director of Finance and shall set forth the name of the person for whose benefit it is granted, the date thereof, the point of the water main at which tapping is to be done, the size of the tap, the premises to which water is to be conducted and the use to be made of water.

14.04.200 Service line extensions prohibited; exceptions.

(a) Each building shall be served by a single water and sewer tap and service line. No service line shall be extended to serve any other buildings, lots or premises. The Director of Water and Sewer has the authority to grant exceptions for accessory uses on the same or adjoining lot.

(b) A prohibited service line extension, installed prior to the effective date of this ordinance, may remain in effect so long as it does not create a sanitation, public health or public nuisance problem. If a prohibited service line extension creates a sanitation, public health or public nuisance problem, it shall be separated at the expense of the subject property owner(s). In addition to the cost of installing tap(s) and service line(s), the owner(s) of the lot(s) or premises involved who have not previously paid plant investment fees shall be required to pay plant investment fees for the new tap(s) installed. The current plant investment fee schedule shall be the basis for such payment. Plant investment fees for compound taps installed prior to January 20, 1959, will be waived. Any subject property owner who fails to separate a prohibited service line extension as required herein may be subject to such penalties as provided in Section 14.04.270 or Section 14.08.240 of this Code.

(e) The use of a common service line by abutting property owners shall not alter the maintenance responsibility by the users of the common service line. The common service shall not constitute a public responsibility and the Director of Water and Sewer shall not perform maintenance or repair on the separate or combined service lines that may serve abutting properties.

14.04.210180 - Standards for design and construction.

The Director of Water and Sewer shall adopt and publish design and construction standards for water and sanitary sewer facilities to be connected to the City system or installed within its jurisdiction. The design and construction of water and sanitary sewer mains and appurtenances shall conform to the published standards, unless deviations from those standards are approved in writing by the Director of Water and Sewer. The City may refuse to accept facilities inadequately constructed or constructed in variance with City requirements. The City shall be held harmless for the engineer's or installer's failure to conform to City standards and specifications.

14.04.220190 - Water and sewer line construction plan approval.

For the purpose of establishing uniformity in construction of water and sewer lines, it shall be the duty of the Director of Water and Sewer to approve all plans and specifications for water and sewer lines prior to construction. Construction of water and sewer mains shall not start until all applicable plan review or inspection fees have been paid. All plans showing asconstructed conditions shall be made a matter of record and shall be kept on file for the use of the City and public in maintenance, construction, alteration and repair of water and sewer lines.

14.04.230200 - Right of entry.

Upon presentation of proper credentials, the Director of Water and Sewer or the Director's designee may enter, at reasonable times, any subdivision, building, premises or area served by the Water and Sewer Enterprises or on which water and sewer facilities, easements or other legal interests exist, to perform any duty imposed upon the Director by this Code.

14.04.240**210** - Stop-work authority.

Whenever any work is being done contrary to the provisions of this Code, the Director of Water and Sewer may order the work stopped by notice in writing, served on any person engaged in doing or causing such work to be done, and any such person shall forthwith stop such work until authorized by the Director of Water and Sewer to proceed with the work.

14.04.250 Permit, tap or connection authority.

It is unlawful for the Director of Finance to issue any permit for any connection with the waterworks or any other purposes in any manner other than is provided by this Chapter, or for the Director of Water and Sewer to permit any tap or connection to be installed or made contrary to this Code and ordinances of the City until a permit has been issued and delivered to the Director, or contrary to or in excess of the provisions thereof.

14.04.260220 - Appeals.

If a person <u>or entity</u> wishes to appeal any decision of the Director of Water and Sewer pursuant to the provisions of this <u>Chapter or Chapters 14.08 or 14.12Title 14</u>, that person <u>or entity</u> shall file a written request with the Director asking that the Director's decision be reduced to writing and submitted for review by the Water and Sewer Board. <u>Such review shall be</u>

<u>considered</u> as soon as reasonably possible. Appeals of decisions by the Water and Sewer Board, excluding matters pertaining to the minimum water and sanitary sewer rates, shall be submitted in writing to the City Clerk and addressed to the Mayor and <u>considered by the</u> City Council. Both the Water and Sewer Board and the City Council reserve the right, at any stage, to either refer the matter to an outside claims adjuster or to request mediation by an outside agent.

14.04.270230 - Violations; penalties.

Any person <u>or entity</u> convicted of violating any provision of this <u>Chapter or Chapter 14.08</u>, 14.12, 14.20 or 14.24 <u>Title 14 related in regard to the tapping water or sewer mains, laying service pipes and stopcocks or installing water service lines, <u>meters, or other infrastructure, and</u> taking and using water or sewer service through <u>any of</u> the same, shall be punish <u>able</u>ed as provided in Chapter 1.32.</u>

Chapter 14.06 Water Service

14.06.010 - Initiation of water service; service commitment agreements

- (a) Any person or entity seeking water service from the City shall make a request for such service within the associated land use or development application process required by Title 18. If the person or entity seeking water service is not pursuing a land use or development application, the request shall be made in writing to the Director of Water and Sewer. It is unlawful for a person or entity to take and use water service from the City without first obtaining authorization from the Director of Water and Sewer.
- (b) Requests for water service made through the land use or development application process required by Title 18 shall be forwarded to the Director of Water and Sewer. All requests for water service shall include the information necessary to determine all applicable fees and rates for such service. The Director of Water and Sewer shall not authorize any such water service until all required information is received and all required fees are paid.
- (c) All applicants granted authorization for water service to non-residential and multi-family residential developments with more than four (4) units within the City limits shall execute a Service Commitment Agreement to be recorded with the Weld County Clerk and Recorder setting forth the details and parameters of such service, including (i) the person or entity to whom service is granted, (ii) the date upon which service shall commence, (iii) the specific location at which the tap or service connection shall be made, (iv) the permitted size of the tap or service connection, (v) a description of the property to which service will be provided, and (vi) the permissible uses of water on the property.

14.06.020 - Tapping for water without authority unlawful.

It is unlawful for a person or entity to make a service connection with any water pipe or main of the waterworks without authorization from the Director of Water and Sewer, or for a person or entity so authorized to install a tap or other service connection to the waterworks contrary to the provisions of this Title 14.

14.06.030 - Certain water usage, turning on water unlawful.

(a) It is unlawful for a person or entity to use water through a tap or other service connection with any water pipe or main of the waterworks in a manner contrary to the provisions of this Title 14.

Commented [DB1]: 14.04.180, 14.04.190, and 14.04.250

Commented [DB2]: 14.08.010 and 14.04.250

Commented [DB3]: 14.08.020

(b) It is unlawful for a person or entity to turn on water service to a property, or to otherwise use water through a tap or other service connection to a property, when the Director of Water and Sewer has directed that water service to such property be turned off.	
(c) The Director of Water and Sewer has the authority to designate water enforcement officials for the City.	
14.06.040 - Taps required; service line extensions prohibited.	Commented [DB4]: 14.04.200
(a) Each detached single-family residential building, multi-family residential building, and non-residential building shall be served by a minimum of one (1) separate water tap and service line. Buildings with mixed residential and non-residential uses shall be served by separate water taps for the residential and non-residential components of the development.	
(b) A separate and additional landscape irrigation tap shall be required for all non-residential buildings and multi-family residential buildings with more than four (4) units. The Director of Water and Sewer has the authority to grant a variance to the landscape irrigation tap requirement in this Section upon a written finding that the subject property can be served by a single tap due to minimal landscaping irrigation demand.	
(c) It is unlawful for a person or entity to extend a service line to serve any other buildings, lots or premises contrary to the requirements of this Section. Notwithstanding the foregoing, the Director of Water and Sewer has the discretionary authority to grant variances when appropriate for accessory uses on the same property or an adjoining lot.	
(d) A prohibited service line extension that was installed prior to July 1, 2019, may remain in effect so long as it does not create a sanitation, public health or public nuisance problem. If, in the discretion of the Director of Water and Sewer, a prohibited service line extension creates a sanitation, public health or public nuisance problem, the subject property owner(s) shall separate the compound tap at their own expense.	
(e) The owner of a property to which a new water service line is installed after the associated separation of a compound tap shall be required to pay all fees applicable to the initiation of water service to the subject property, including, without limitation, the costs required to install another water tap and service line. Plant investment fees that would otherwise be due and payable for a new water service line installed pursuant to this Section shall be waived upon a written finding of the Director of Water and Sewer that there will be no increase in water service to the subject property.	
(f) The use of a common service line by abutting property owners shall not alter the maintenance responsibility of the users of the common service line. The common service shall not constitute a public responsibility and the Director of Water and Sewer shall not perform maintenance or repair on the separate or combined service lines that may serve abutting properties.	
14.06.050 – Cash in lieu of raw water required; single-family and small multi-family residential.	Commented [DB5]: 14.24.100
(a) All applicants for water service to single-family residential and multi-family residential developments with four (4) units or less within the City limits shall furnish to the City a cash-in-lieu fee as a prerequisite to, and as a part of the consideration for, City water service to the subject property.	
(b) The cash-in-lieu fee for single-family residential and multi-family residential developments with four (4) units or less shall be set by resolution of the Water and Sewer Board and calculated as the cash equivalent of three	

(3) acre-feet of water per acre, or fraction thereof, of property to which water service will be provided, using the fair market value of water per acre-foot.

14.06.060 - Cash in lieu of raw water required; non-residential and large multi-family residential

(a) All applicants for water service to non-residential and multi-family residential developments with more than four (4) units within the City limits, including, without limitation, commercial, industrial, and group housing (apartment buildings, condominiums, nursing homes, hotels, and motels), shall furnish to the City a cash-in-lieu fee as a prerequisite to, and as a part of the consideration for, City water service to the subject property.

(b) The cash-in-lieu fee for non-residential and large multi-family residential developments shall be set by resolution of the Water and Sewer Board and calculated by multiplying the Water Service Demand for the subject property by the fair market value of water per acre-foot. The Water Service Demand for non-residential and large multi-family residential developments shall be determined by multiplying the total Units proposed by the applicant by the Average Unit Use, as set forth in the Business Category and Water Use Table below.

Business Category and Water Use

<u>Category</u>	<u>Units</u>	Average Unit Use (Gallons per Unit per Year)
Auto Service and Repair	<u>sf</u>	<u>12</u>
<u>Car Wash</u>	<u>bay</u>	1,350,000
<u>Childcare</u>	<u>sf</u>	<u>47</u>
<u>Church</u>	<u>sf</u>	<u>4.5</u>
Grocery Store	<u>sf</u>	<u>20</u>
Gas Station without Car Wash	<u>sf</u>	<u>93</u>
<u>Hospital</u>	<u>sf</u>	<u>21</u>
<u>Hotel/Motel</u>	room	30,300
Medical Office	<u>sf</u>	<u>25</u>
Multi-Family Residential (Greater than 4 Units)	<u>unit</u>	<u>35,500</u>
Office	<u>sf</u>	<u>14</u>
Recreation with Pool	<u>sf</u>	<u>122</u>
Recreation without Pool	<u>sf</u>	<u>25</u>
Restaurant (Outdoor Seating Areas 50%)	<u>sf</u>	188
<u>Retail</u>	<u>sf</u>	<u>16</u>
School	<u>sf</u>	<u>11</u>
<u>Warehouse</u>	<u>sf</u>	<u>5</u>

Commented [DB6]: 14.24.100

<u>Industrial</u>	Demand determined on case-by-case basis	
14.06.070 - Cash in lieu of raw water; exception for large parcel s	ingle-family <mark>residential</mark> .	Commented [DB7]: 14.24.185
(a) The cash-in-lieu fee requirement set forth in S	section 14.06.050 shall not apply to applications for	
domestic water service to parcels of land exceeding one (1) acre	hat contain only one (1) single-family residence. Any	
application for water service to such a parcel through a tap larg		
not considered domestic, and therefore ineligible for the exception	in this Section.	
	sidential water service pursuant to this Section shall	
furnish to the City a cash-in-lieu fee as a prerequisite to, and as a		
subject property. The cash-in-lieu fee for large parcel single-fan		
shall be set by resolution of the Water and Sewer Board and cale	culated as the cash equivalent of three (3) acre-feet of	
water per 3/4" domestic tap, using the fair market value of water p	er acre-foot.	
14.06.080 – Determination of fees for cash in lieu of raw water.		Commented [DB8]: 14.24.100
(a) The cash-in-lieu fee requirement associated with	a request for water service, as set forth in Sections	
14.06.050 through 14.06.070, shall be determined at the time tha		
water service shall be reviewed every six (6) months. If at the		
resolution of the Water and Sewer Board have changed, the ca		
service shall be updated accordingly. The Water and Sewer Board	shall determine, in its sole discretion, the fair market	
value of water utilized to calculate cash-in-lieu fees pursuant to the	nis Chapter 14.06.	
(b) The cash-in-lieu fee requirements set forth in set	forth in Sections 14.06.050 through 14.06.070 shall be	
applied one (1) time only to any development, subdivision, or p		
service is requested, unless such parcel is redeveloped, further	·	
requested. If redevelopment or further subdivision is made of any		
set forth in Sections 14.06.050 through 14.06.070 shall be applied		
is requested.		
14.06.090 - Raw water surcharge and supplemental cash in lieu o	fraw water; exception.	Commented [DB9]: 14.24.100
(a) A non-residential or large multi-family resident vear exceeds its annual allotment shall be required to pay a raw w	ial customer whose metered water use in a calendar	
of such allotment, as set forth in its Service Commitment Agreem		
of such anotherit, as set for in in its Service Communicate Agreem	ent.	
(b) Non-residential and large multi-family resident		
enactment of the ordinance codified in this Section and have not		
entitled to an annual allotment in accordance with the raw water		
initiation of service. Any such customer whose metered water use		
be required to pay a raw water surcharge on the volume of water	used in excess of such allotment.	
(c) Large parcel single-family residential customer	s shall be entitled to an annual allotment of three (3)	
acre-feet per 3/4" domestic tap. Any such customer whose meter		
allotment shall be required to pay a raw water surcharge on the	volume of water used in excess of such allotment	

(d) The raw water surcharge applicable to customers pursuant to this Section shall be set by resolution of	<u> f</u>
the Water and Sewer Board. Any customer who incurs a raw water surcharge may apply its raw water surcharg	e
payment to a supplemental cash-in-lieu fee. Any such supplemental cash-in-lieu fee shall be calculated using the fai	r
market value of water per acre-foot, as set by the Water and Sewer Board and in place when the raw water surcharg	e
payment is due and payable, and shall result in a corresponding increase to the annual allotment for that custome	<u>r,</u>
whether as determined in accordance with this Section 14.06.090 or as set forth in its Service Commitment Agreemen	t.

(e) Any customers whose metered water use during its first full calendar year of water service exceeds its annual allotment shall be exempt from the raw water surcharge requirements of this Section for that first year only.

14.06.100 - Credit for raw water supplies dedicated or cash in lieu of raw water paid; existing taps.

- (a) An applicant for water service shall not be required to pay a cash-in-lieu fee if the raw water dedication or cash in lieu of raw water requirement for the subject property was satisfied in full prior to the enactment of the ordinance codified in this Section. Notwithstanding the foregoing, any such applicant that seeks to initiate new water service, change the type of water service, or change the use of a non-residential development shall be subject to the cash-in-lieu fee requirements set forth in Sections 14.06.050 through 14.06.070.
- (b) Any customer that seeks to abandon an existing water tap in favor of a smaller or larger tap to serve the same property shall be entitled to a credit against the cash-in-lieu fee requirements set forth in Sections 14.06.050 through 14.06.070. Such credit shall be equal to the raw water previously dedicated or cash-in-lieu fee previously paid for development of the subject property. If there are no records to evidence the previous dedication of water rights or payment of cash-in-lieu fee for the subject property, such credit shall be equal to the then current cash-in-lieu fee value associated with the abandoned tap, but shall not include credit for any fire flow diameter associated with the abandoned tap.
- (c) Any credit issued for an abandoned tap pursuant to this Section shall not exceed the cash-in-lieu fee due and payable for the replacement tap; the City shall not be required to provide cash refunds for any such credit.

14.06.110 - Plant investment fees for water service; inside and outside the City.

- (a) All applicants for water service, whether inside or outside the City limits, shall furnish to the City a water plant investment fee as a prerequisite to, and as a part of the consideration for, City water service to the subject property. The water plant investment fee shall be the minimum amount set by resolution of the Water and Sewer Board, unless subsequently increased by resolution of the City Council. The diameter of a service line water tap installed for fire suppression purposes shall not be considered when calculating plant investment fees due pursuant to this Section.
- (b) Upon approval of the Director of Water and Sewer, plant investment fees may be based on the volume of a customer's annual allotment rather than the diameter of its tap. When the Director of Water and Sewer authorizes a plant investment fee based on size of service, the schedule of tap fees set by resolution of the Water and Sewer Board shall be applied in accordance with the size of service.

14.06.120 – Installation costs for water service.

In addition to the water plant investment fee requirement set forth in Section 14.06.110, an applicant for water service shall pay for all meters, labor and other materials required to tap the water main, to install service pipes, and to trench and repair the street, as such costs are determined by the Director of Water and Sewer. All costs shall be paid by the applicant in advance of such work and no later than the time at which a building permit is issued by the City for the subject property.

Commented [DB10]: 14.24.100

Commented [DB11]: 14.08.030, 14.08.040, 14.08.050, and 14.08.060

Commented [DB12]: 14.08.040 and 14.08.060

Any customer that seeks to abandon an existing water tap in favor of a smaller or larger tap to serve the same property shall be entitled to a credit against the water plant investment fee requirement set forth in Section 14.06.110. Such credit shall be equal to the then current plant investment fee value associated with the abandoned tap, but shall not include credit for any fire flow diameter associated with the abandoned tap. Any credit issued for an abandoned tap pursuant to this Section shall not exceed the water plant investment fee due and payable for the replacement tap; the City shall not be required to provide cash refunds for any such credit. Any tap abandoned pursuant to this Section shall be turned off at the main, and the costs associated with turning off the abandoned tap shall be borne by the person or entity requesting the change of service. Any customer that renovates one (1) or more residential units that were constructed prior to January 20, 1959 and is accordingly required to replace an existing tap that serves such residential units to comply with the current minimum tap size requirements established by the Water and Sewer Board shall not be required to furnish an additional water plant investment fee if (i) the renovation does not increase the number or size of the residential units, and (ii) the use of the subject property is not changed. 14.06.140 - Water rights dedication variance and criteria. Commented [DB14]: 14.24.095 The Director of Water and Sewer has the discretionary authority to grant a variance to an applicant for water service, allowing that applicant to dedicate water rights to the City in place of the cash-in-lieu fee requirements set forth in Sections 14.06.050 through 14.06.070. The transfer of any such water rights approved for dedication to the City shall be made no later than the date on which a final plat for the development is approved. Any such water rights accepted in dedication pursuant to this Section shall meet the legal criteria under Colorado law necessary to convert water to municipal use by the City, including, without limitation, sustained historical consumptive use. Any such water rights shall also meet the criteria for dedication of water rights to the City set forth by resolution of the Water and Sewer Board. 14.06.150 - Payment of fees and costs; exception. Commented [DB15]: 14.24.120 and 14.24.130 Payment in full of costs and fees required pursuant to this Chapter 14.06 shall be a prerequisite to receiving City water service, and all such costs and fees required shall be due and payable by the applicant no later than the date on which a building permit is issued.

Notwithstanding the procedures set forth in this Chapter 14.06, any shareholder of the Greeley-

Loveland Irrigation Company who holds a valid domestic water shareholder agreement with the City shall follow the

The Director of Water and Sewer may consider applications for extraterritorial water service from persons or entities located outside the City limits. Any such extraterritorial water service authorized shall be contingent upon receipt by the City of written consent to the service from the jurisdiction in which the extraterritorial customer is located, if so required. Any person or entity granted such extraterritorial water service shall agree to transfer when a request for City water is made, at no cost to the City, certain water rights, including Northern Colorado Water

procedures set forth in that contract.

14.06.160 – Water service outside the City limits.

Commented [DB13]: 14.08.055 and 14.08.056

Commented [DB16]: 14.24.080

14.06.130 - Water plant investment fee credits and exchange; renovations

Conservancy District allotments, irrigation water and carriage rights of such water, to the City before receiving water service from the City.

14.06.170 - Transfer of water rights upon annexation.

Any petitioners requesting annexation of their land to the City shall agree, as a prerequisite to receiving approval of such annexation and on behalf of themselves and all successors in interest to the land to be annexed, to transfer, at no cost to the City, water rights, including Northern Colorado Water Conservancy District allotments, irrigation water and carriage rights upon subdividing and/or requesting domestic water service to the City, before receiving the approval of the annexation.

14.06.180 - Special agreements approved by City Council.

The provisions of this Chapter 14.06 shall not preclude the City Council from approving special agreements with applicants for water service regarding the requirements for development within the City.

14.06.190 - Meters required for water service; specifications and exceptions.

- (a) It is unlawful for any person or entity to take, receive or use any water from the City waterworks for any purpose whatsoever, unless such water is measured through a meter. This requirement shall not apply to residential fire sprinkling lines which are two (2) inches or less in diameter and which serve only the fire suppression system.
- (b) Failure to install a meter before water is used is punishable under Chapter 1.32 and shall result in the water being turned off to the property until a meter is installed and all penalties and fines are paid in full.
- (c) All meters installed shall be of a type, size and design approved by the Director of Water and Sewer. There shall be only one (1) meter for each water tap installed, and each meter shall be of the same size as the associated water tap. The Director of Water and Sewer shall have the discretion to adjust meter size requirements based on AWWA standards.
- (d) Each meter shall be placed under the direction of the Director of Water and Sewer, and each new meter shall be installed outside in a code meter pit/vault. Each meter shall be supplied with a stopcock on the inlet side of the voke. Existing meters inside buildings must have a stopcock on both sides of the meter. All meters shall be located where accessible for inspection and/or repair at any time during business hours. Meters previously installed inside buildings shall be relocated outside to code meter pits/vaults when the building is remodeled, plumbing systems are modified, accessibility becomes limited, or as otherwise directed by the Director of Water and Sewer.

14.06.200 - Testing, maintenance and repair of meters.

- (a) All new meters shall be tested before being installed. The Director of Water and Sewer shall make periodic tests of water meters and order replacement or repair of meters as needed.
- (b) The Director of Water and Sewer shall maintain all meters for costumers being served and billed directly by the City. Property owners shall be responsible for any damage to meters and their appurtenances caused by abuse, negligence or vandalism.
- (c) <u>Property owners shall purchase new meters prior to reactivating service for vacant properties when</u> the meters become obsolete or no longer meet AWWA standards for accuracy and performance.

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Commented [DB18]: 14.24.100(g)

Commented [DB19]: 14.08.130, 14.08.140, 14.08.150, and 14.08.160

Commented [DB20]: 14.08.170

(d) Property owners shall be responsible for the maintenance of meter pits/vaults and covers. Failure to make repairs when notified by the Director of Water and Sewer shall result in the water being turned off until repairs are completed.

14.06.210 - Meter failure; computation of charges.

- (a) If any meter fails to register in any billing period, the customer shall be charged based upon the average consumption for the same period in the two (2) years immediately preceding the meter failure, and accordingly billed at the current rates. If a meter is tested in accordance with Section 14.06.200 and be found to be inaccurate by five percent (5%) or more, the customer's bill shall be adjusted as indicated by the test for the current billing period and the one (1) immediately preceding billing period.
- (b) In the event a particular customer account is found to have been misclassified, the City is authorized to make appropriate billing adjustments where warranted, based upon information obtained concerning the particular customer account.

14.06.220 - Consent to withdrawal of nontributary groundwater.

- (a) All nontributary groundwater, including but not limited to waters of the Dawson, Denver, Arapahoe, Laramie-Fox Hills and Dakota aquifers, are incorporated into the City's actual service plan as authorized by Section 37-90-137(8), C.R.S. The land area in the actual municipal service plan is all that area within the City boundary as of January 1, 1985, except that land north of the Cache la Poudre River. Public interest justifies the use of nontributary groundwater underlying the service area.
- (b) Upon the effective date of the original ordinance codified in this Section (January 21, 1986), the owners of all land in the service area shall be deemed to have consented to the withdrawal by the City of all such nontributary groundwater unless consent is withheld pursuant to the above described state statute.
- (c) All applicants granted authorization for water service shall execute, as a prerequisite to such service, a consent agreement approving the withdrawal by the City of all nontributary groundwater as described herein from the land being served.

Chapter 14.08

Water Rates and Regulation

14.08.010 - Tapping for water without authority unlawful.

It is unlawful for any person authorized by ordinance to make any connection with any water pipe or main of the waterworks, or for any authorized person to put in any tap contrary to the provisions of this Chapter or Chapters 14.04, 14.12, 14.20 or 14.24.

14.08.020 - Certain water usage, turning on water unlawful.

(a) It is unlawful for any water consumer to use water through any tap or service connected with such water mains as are described in Section 14.08.010 contrary to the provisions of this Chapter, of Chapters 14.04, 14.12, 14.20 or 14.24 or to turn on water to his or her premises, lot buildings or house when the water has been turned off.

Commented [DB21]: 14.08.080

Commented [DB22]: 14.24.125

(b) The Director of Finance or the Director of Water and Sewer has the explicit authority to designate a water enforcement official for the City.

14.08.030 Plant investment fees designated for service inside City.

The water plant investment fee inside the City limits shall be the minimum fee as approved by the Water and Sewer Board, unless increased by resolution by the City Council.

14.08.040 - Installation costs; payments due; plant investment fee computed.

(a) In addition to the fee provided at Section 14.08.030, the owner, lessee or user of water shall pay for all meters, labor and other materials required in tapping the water main, installing the service pipes and trenching and repair of streets, as determined by the Director of Water and Sewer. All costs shall be paid in advance; except that in the case of undeveloped property, the owner, lessee or user of any water shall have the option of requesting that the plant investment fee provided for at Section 14.08.030 be paid at the time application is made for a building permit. The diameter of the water tap for a waterline installed for firefighting purposes shall not be considered in computing plant investment fees under the schedule set out at Section 14.08.030.

(b) Upon approval of the Director of Water and Sewer, plant investment fees may be based on the size of service rather than the diameter of the tap. When the Director of Water and Sewer authorizes a plant investment fee based on size of service, the above schedule of tap fees shall be applied as if the size of service were the diameter of the tap.

14.08.050 Plant investment fee designated for service outside City

The water plant investment fee outside the City limits shall be the minimum fee as approved by the Water and Sewer Board, unless increased by resolution by the City Council.

14.08.055 - Water plant investment fee credit and exchange.

Where one (1) or more living units are being served by an existing tap and the owner, lessee or user of water being served by the existing tap desires to abandon such tap in favor of a larger or smaller tap to the same property, the plant investment fee established in Sections 14.08.030 and 14.08.050 shall be reduced by the current plant investment fee value of the existing tap to be abandoned but shall not include credit for the fire flow diameter. The abandoned tap shall be turned off at the main and the cost of the turnoff shall be borne by the person requesting the change of service. In no case shall the City provide cash refunds, and credit against new taps shall not exceed the plant investment fee of such new tap or taps.

14.08.056 Additional credit and exchange; renovation.

In the event one (1) or more living units are being renovated and a larger water tap is required to meet the minimum tap size requirements established by the Water and Sewer Board, there shall be no additional water plant investment fee required on account of the renovation, provided that the units being renovated were constructed prior to January 20, 1959, and the renovation does not increase the number or size of the units and the use of the property is not being changed.

14.08.060 Installation costs; advance payment for service outside City.

(a) In addition to the fee provided for at Section 14.08.050, the owner, lessee or user of water shall pay for all meters, labor and materials required in tapping the water main, installing the service pipes and trenching and repairing of streets, as determined by the Director of Water and Sewer. All costs shall be paid in advance.

(b) Upon approval of the Director of Water and Sewer, plant investment fees may be based on the size of service rather than the diameter of tap. When the Director of Water and Sewer authorizes a plant investment fee based on size of service, the above schedule of tap fees shall be applied as if the size of service were the diameter of tap.

14.08.070010 - Rates approved by Water and Sewer Board.

The water rates for both inside and outside the City shall be the minimum rates as approved by the Water and Sewer Board unless increased by resolution by the City Council.

14.08.080 - Meter failure; computation of charges.

(a) If any meter fails to register in any billing period, the consumer shall be charged based upon the average consumption for the same period in two (2) prior years and billed at the then current rates. Should a meter be tested in accordance with Section 14.08.170 and be found to be inaccurate by five percent (5%) or more, the customer's bill will be adjusted as indicated by the test for the current and one (1) preceding billing period.

(b) In the event a particular customer account is found to have been misclassified, the City is authorized to make appropriate billing adjustments where warranted, based upon information obtained concerning the particular customer account.

14.08.090020 - Payment of charges.

All rates for the use of water as provided in this Chapter Title 14 shall be due and payable to the Director of Finance at his or her office in the City Hall. In case any water user fails to pay all charges under this Chapter within thirty (30) days after the same become due, the same are delinquent and the City may disconnect water service from every premises, building, house or lot in default until the delinquent charges are paid, including payment of reconnection charges as provided in Sections 14.08.340220 and 14.08.350230.

14.08.100030 - Bills may be sent; sewer assessment included process for bill disputes.

The Director of Finance may, but shall not be required to, give notice to users of water of the amount of their water rates and when due, and he or she may include in such notice and shall collect with the water rates the sewer assessment provided for in Section 13.44.090 et seq., prorating such assessment with the water rates. Any customer that believes its water and sewer bill contains improper charges may submit a bill dispute in writing to the Director of Water and Sewer.

14.08.040 - Service line failure; computation of charges.

If a person or entity discovers a leak or other failure in its service line, and the Director of Water and Sewer finds that such leak or service line failure directly caused artificially elevated charges in a particular billing period, the customer may be charged based upon its average consumption for the same period in the two (2) years immediately preceding the leak or service line failure, and accordingly billed at the current rates.

14.08.110050 - Rebates for unused water prohibited.

There shall be no rebates <u>for unused water or for the cease of rental water use by a lesseeto the owner on account of the owner or the tenant ceasing to use water before the expiration of the time <u>period</u> for which <u>rentalwater</u> has been <u>paidrented</u>.</u>

14.08.120060 - Credits for unused water permitted.

Any water user under the flat rate provided for in this Chapter who completely vacates the premises for which such charge is made, for not less than thirty (30) days continuously during the period for which he or she has paid flat rate charges for water under this Chapter, shall be allowed credit on the portion of his or her bill which is charged for domestic water exclusive of lawns and sprinkling, in the proportion of such part of such bill that the period of vacancy bears to the full billing period for which flat rates are charged; provided, however, that such user shall notify the Director of Finance, in writing, at the beginning of such vacancy, that such premises are to be vacated, shall direct that all water for domestic (house) purposes be shut off from such premises, shall likewise notify the Director of the time when such water is to be again turned on, and shall request that the Director of Water and Sewer turn on the water to such premises. No such credit shall be allowed unless such premises are completely vacated for at least thirty (30) days continuously, nor unless such written notice is given, nor unless the Director of Water and Sewer is requested to turn on the water.

14.08.130 - Meters required for water service; exceptions.

It is unlawful for any person to take, receive and use any water from the City waterworks or mains in any building or any lot for any purpose whatsoever, except water used and measured through a meter. This requirement shall not apply to residential fire sprinkling lines which are two (2) inches or less in diameter and which serve only the fire suppression system.

14.08.140 Failure to install meter.

Failure to install a meter before water is used, as provided in this Chapter, shall result in the water being turned off to the property until a meter is installed and penalties and fines are paid in full, as defined in Chapter 1.32 of this Code.

14.08.150 Meter specifications.

All meters shall be of a type, size and design approved by the Director of Water and Sewer. For each water tap installed, there shall be only one (1) meter; and each meter shall be of the same size as the water tap. The Director of Water and Sewer shall have the discretion to adjust meter size based on AWWA standards.

14.08.160 - Stopcocks required; location of meter.

Each meter shall be placed under the direction of the Director of Water and Sewer, and each new meter shall be installed outside in a code meter pit/vault. Each meter shall be supplied with a stopcock on the inlet side of the yoke. Existing meters inside buildings must have a stopcock on both sides of the meter. All meters shall be located where accessible for inspection and/or repair at any time during business hours. Meters previously installed inside buildings shall be relocated outside to code meter pits/vaults when the following events occur: buildings are remodeled, plumbing systems are modified, accessibility becomes limited or as determined by the Director of Water and Sewer.

14.08.170 - Testing, maintenance and repair.

(a) All new meters are tested before being installed. The Director of Water and Sewer shall make periodic tests of water meters and replace the meters or repair them as needed.

(b) The Director of Water and Sewer shall maintain all meters for all consumers being served and billed directly by the City. Property owners shall be responsible for damages to meters and appurtenances caused by abuse, negligence or vandalism.

- (c) Property owners shall purchase new meters prior to reactivating service for vacant properties when the meters become obsolete or no longer meet AWWA standards for accuracy and performance.
- (d) Property owners shall be responsible for the maintenance of meter pits/vaults and covers. Failure to make repairs when notified by the Director of Water and Sewer shall result in the water being turned off until repairs are completed.

14.08.195070 - Cross-connection control.

- (a) Purpose. This Section is intended to protect the City's potable waterworks from contamination by backflow from a property owner's internal plumbing system or private water system through an ongoing program of cross-connection control (also known as "containment"). Nothing in this Section relieves a property owner from the cross-connection control requirements of the plumbing code contained in e<u>C</u>hapter 16.28 of this Code, which protects against backflow within a property owner's system (also known as "isolation").
 - (b) Definitions. As used in this chapter, unless the context otherwise requires:

Backflow means reversal of the normal direction of flow in the City's potable water works that can occur when pressure within a source connected to the City's system is greater than the water pressure within the City's potable water works.

Backflow preventer means a device, assembly, method or type of construction designed to prevent backflow into the City's potable water works by separating the property owner's water system from the City's water system.

Certified cross-connection technician means a person who meets the requirements of Article 12.2 of the Colorado Primary Drinking Water Regulations (as effective on March 30, 2004).

Cross-connection means a link between the City's potable water works and a potential source of contamination, which could allow such contamination to backflow into the City's system.

Industrial and commercial operations means any property or account whose operations are not strictly domestic residential.

- (c) Illegal cross-connections. It is unlawful for any person to make, install, maintain or permit any cross-connection to the City's potable water works, except in accordance with the provisions of this Section.
 - (d) Backflow prohibited. Any backflow into the City's potable water works is strictly prohibited.
 - (e) Backflow preventers/inspection requirements.
 - (1) The Director of Water and Sewer shall identify those cross-connections requiring a backflow preventer based on the degree of hazard presented by such cross-connection, as determined by the Director of Water and Sewer. Such cross-connections shall at least include all industrial and commercial operations connected to the City's potable water works. All backflow preventers must be approved by, and installed in accordance with the standards and specifications established or adopted by, the Director of Water and Sewer.
 - (2) The property owner shall install, operate, test and maintain backflow preventers at his or her expense to protect the City's potable water works. The property owner shall have the backflow preventer tested upon installation by a certified cross-connection control technician, and annually thereafter, unless, due to the hazard presented by the connection, the Director of Water and Sewer requires more frequent testing. The property owner shall immediately repair or replace any backflow preventer found to be defective.

- (3) The property owner shall submit records of testing, maintenance and repairs to the Water and Sewer Department within five (5) days of completing such activities. The property owner and the Water and Sewer Department shall retain such records for at least three (3) years.
- (4) The Director of Water and Sewer retains the right to test or otherwise check the installation and operation of any backflow preventer to assure proper installation and operation.
- (f) Survey and prevention. The Director of Water and Sewer is authorized to conduct surveys to identify hazardous cross-connections, verify the existence of backflow preventers, and to otherwise support a program to eliminate cross-connection hazards.
- (g) Reporting of uncontrolled cross-connections. Any person who becomes aware of an uncontrolled cross-connection that may require a backflow preventer pursuant to this Section shall promptly report such connection to the Water and Sewer Department.
- (h) Discontinuing water service. The Director of Water and Sewer may discontinue water service to any premises for which the owner fails to comply with the requirements of this Section, or to which the owner denies reasonable access to the Director of Water and Sewer as authorized by Section 14.04.230200 of this Chapter to determine compliance with this Section. Such discontinuance of water service may be summary, immediate and without written notice whenever the Director of Water and Sewer determines that such action is necessary to address an imminent threat to the City's water works or its water customers.

14.08.200080 - Repair of system; restriction of use.

The Director of Water and Sewer may, when he or she deems it necessary because of repair of any portion of the transmission or distribution system, restrict the use of water and, if need be, prohibit the use of water for sprinkling until the water system has been repaired.

14.08.220090 - Wasting water unlawful.

- (a) It is unlawful for any person using City water to use said water to allow or permit water to run to waste upon his or her premises, buildings, houses or lots, in, through or out of any water closet lavatory, urinal, bathtub, hose, hydrant, faucet or other fixtures, appliances or apparatus whatsoever, or in any manner through neglect or by reason of faulty or imperfect plumbing or fixtures.
- (b) It is unlawful for any person, partnership, company or corporation or other entity using City water, at any time during a declared drought, to use water to clean any hard surface upon or adjacent to the premises, building, house or lot. For purposes of this Section, hard surface includes but is not limited to driveways, sidewalks and streets and street gutters. Use of water in cleaning property such as roof gutters, eaves, windows or in preparation for painting is allowed as long as waste does not occur.
- (c) It is unlawful for any person, partnership, company or corporation or other entity using City water to allow, either manually or automatically, the sprinkling or watering of hard surface; to allow excessive runoff of water from the premises, building, house or lot; and/or to allow the excessive pooling of water upon or adjacent to the premises, houses or lots. Runoff that is more than five (5) gallons per minute is considered excessive.
- (d) Penalties. (1) Any person who violates any of the provisions of this Section is guilty of violation of this Section and shall be punished by a fine of one hundred dollars (\$100.00) for the first conviction during the calendar year, two hundred fifty dollars (\$250.00) for the second conviction during the calendar year, five hundred dollars (\$500.00) for the third conviction during the calendar year and five hundred dollars (\$500.00) and a flow restrictor to limit water to indoor use only

of water service for the fourth conviction during the same calendar year may be required. (2) Each day of violation shall constitute a separate offense as provided in Section 1.32.020 of this Code.

(e) Intent. The violations described in this Section are strict liability offenses, as defined in Chapter 10 of this Code.

14.08.230100 - Maintenance required.

The owner of any premises for which a connection is made and a stopcock with box and cover placed as provided at this Chapter and Chapter 14.04 in this Title 14 shall keep such stopcock with box and cover placed as aforesaid in good condition at his or her expense and so that the Director of Water and Sewer is able to turn off water from his or her service pipes at any time. From such stopcock to, in and upon his or her premises, the owner shall provide his or her own pipe and plumbing, which shall be constructed and placed so as to comply with all ordinances upon plumbing and shall, at his or her expense, at all times, keep all pipes, fixtures and appliances on his or her premises tight and in good working order so as to prevent waste of water. In case any pipe or fixture breaks or become imperfect, or so as to waste water, he or she shall forthwith repair the same and keep the same in repair.

14.08.240110 - Unlawful failure to maintain; notice and turnoff.

It is unlawful for any owner or user of water to fail to comply with the provisions of Section 14.08.230100 and, until his or her pipes and fixtures are placed in good repair, the Director of Water and Sewer shall turn off all water from such premises. In easeIf the Director of Water and Sewer discoversshall, on inspection, ascertain that any plumbing or fixtures of any premises are so defective as to waste any water, he or she shall notify the owner or user of water to repair the same immediately and, if not repaired within twenty-four (24) hours, he or she shall turn off the water from such premises, and the same shall remain turned off until such plumbing and fixtures are repaired.

14.08.250120 - Damaging waterworks or protections thereto unlawful.

It is unlawful for any person to injure or otherwise damage any property or appliances constituting or being a part of the waterworks or any fence, guardrails, boxes, covers or buildings constructed and used to protect the waterworks or any part thereof

$14.08.\underline{260}\underline{130}$ - Trespassing or interfering with waterworks unlawful.

It is unlawful for any unauthorized person to trespass upon the waterworks or the grounds upon which the same is constructed, in any manner to interfere with the waterworks or any part thereof, to meddle or interfere with any pipe, valve or appliance used to regulate the flow of water in the waterworks or any part thereof, or to change or alter the position of any valve or appliance regulating the flow of water in such pipeline or waterworks.

14.08.270140 - Contaminating, polluting or obstructing water unlawful.

It is unlawful for any person to cast, place, dump or deposit in the waterworks any substance or material which will contaminate or pollute the water in the waterworks or in any pipe, reservoir, filter sedimentation basin or any appliance forming a part of the waterworks or in any manner to obstruct the waterworks or pollute the water therein.

14.08.280150 - Polluting or contaminating Cache la Poudre River unlawful; liability.

It is unlawful for any person <u>or entity</u>, in any manner, to pollute or contaminate the waters of the Cache la Poudre River or its tributaries for a distance of five (5) miles above the intake of the waterworks or to have, keep or maintain at, along or near the banks of the Cache la Poudre River for a distance of five (5) miles above the intake of the waterworks any building, privy, pen, yard or corral for stock, or to have, keep or conduct any business near such stream as aforesaid which will contaminate or pollute the waters of such river or render the same unfit for domestic use. Any person <u>or entity</u> who violates any provisions of this Section, upon conviction thereof, shall, in addition to other penalties, be liable for all damages for his or hersuch unlawful acts.

14.08.290160 - Sprinkling restrictions; drought levels; penalty.

- (a) The following provisions shall apply at all times unless modified by subsequent Sections of the ordinance codified herein:
 - (1) Waste of water is prohibited at any time.
 - (2) Sprinkler irrigation shall not occur between 12:00 p.m. and 5:00 p.m. from May through August even when water supplies are adequate.
 - (3) Drip irrigation, low-volume spray or bubbling sprinklers, hose-end sprinklers and weeping-type soaker hoses are allowed to water trees, shrubs or flower beds at any time.
 - (4) Hand-watering of vegetables and flower gardens, trees and shrubs and individual brown spots in a lawn is allowed at any time, so long as water waste does not occur. Hand-watering means holding in the hand a hose with attached positive shutoff nozzle and does not include operating a hose with a sprinkler or manually operating an irrigation controller.
 - (5) Except during time of adequate water supply, hand-watering to clean hard surfaces such as driveways and parking lots is prohibited. Hand-watering to clean property, such as roof gutters, eaves, windows or in preparation for painting, is allowed as long as water waste does not occur.
 - (6) Public organizations: The use of water for sprinkling lawns, gardens and trees on the grounds of public organizations, public parks and public golf courses served by the City water system will be permitted at any time with written variance from the Director of Water and Sewer. The public organizations to which this paragraph refers include, but are not limited to: Weld County facilities, the University of Northern Colorado campus, School District #6 grounds, and City of Greeley grounds, including parks, golf courses and Linn Grove cemetery.
 - (7) New lawn variance: The use of water for sprinkling newly seeded or sodded lawns less than one (1) month old will be allowed during times determined by the Director of Water and Sewer pursuant to a permit for the same. Issuance of such a permit is contingent upon proof of proper soil preparation before installation of turf. Proper soil amendment is considered to be the equivalent of adding compost at a rate of four (4) cubic yards per one thousand (1,000) square feet of planted area, incorporated to a depth of six (6) inches. Permits shall be posted on the property.
 - (8) Large user variance: The use of water for sprinkling large areas with multiple addresses, such as homeowners' associations, or other special circumstances, may be allowed during the times and days of the week as determined by the Director of Water and Sewer and defined by a permit for the same. Such written permits shall be posted on the property.
 - (9) Except during a time of declared "adequate" water supplies, there shall be no lawn watering between January 1 and April 14. Charging and testing of sprinkler systems is allowed. Sprinkling may be allowed by written variance

(10) Unusual circumstances: The Director of Water and Sewer may issue variance permits to address any other circumstances that, in the Director's sole discretion, are deemed appropriate.

(b) Definitions:

- (1) Even-odd schedule:
 - a. Even-numbered addresses may sprinkle on even days of the month.
 - b. Odd-numbered addresses may sprinkle on odd days of the month.
 - $c.\ On\ May\ 31$, July\ 31 and August\ 31, odd addresses may sprinkle in the morning and even addresses may sprinkle in the evening.
- (2) One-day-per-week watering: All properties may use water for sprinkling only one (1) day per week.
 - a. Single-family residences and duplexes with addresses ending in an even number may sprinkle on Sundays.
 - b. Single-family residences and duplexes with addresses ending in an odd number may sprinkle on Saturdays.
 - c. All other customers, commercial, industrial, multi-family and homeowners' associations may sprinkle on Fridays.
- (3) Two-days-per-week watering:
 - a. Single-family residences and duplexes with addresses ending in an even number may sprinkle on Sundays and Thursdays.
 - $b. \ Single-family \ residences \ and \ duplexes \ with \ addresses \ ending \ in \ an \ odd \ number \ may \ sprinkle \ on \ Wednesdays \ and \ Saturdays.$
 - c. All other customers, commercial, industrial, multi-family and homeowners' associations may sprinkle on Tuesdays and Fridays.
 - d. There shall be no watering on Mondays except by written variance.
- (4) Three-days-per-week watering:
 - a. Single-family residences and duplexes with addresses ending in an even number may sprinkle on Sundays, Tuesdays and Thursdays.
 - b. Single-family residences and duplexes with addresses ending in an odd number may sprinkle on Mondays, Wednesdays and Saturdays.
 - c. All other customers, commercial, industrial, multi-family and homeowners' associations may sprinkle on Sundays, Tuesdays and Fridays.
- (5) Hand-watering means holding in the hand a hose with attached positive shutoff nozzle. Hand-watering does not include operating a hose with a sprinkler or manually operating an irrigation controller.

- (c) Drought levels: On the determination by the Greeley Water and Sewer Board, after an analysis including but not limited to the Colorado Big Thompson quota, the level of storage in Greeley reservoirs, snow pack and yield thereof, and the long-range weather forecast, that Greeley's water supply situation is "Adequate" or in a "Mild Drought," "Moderate Drought" or "Severe Drought," the City Council may, by resolution, declare one (1) of the following four (4) sets of watering restrictions to be in effect:
 - (1) When the City's water supply is Adequate: The use of City water for sprinkling of private residences, commercial and industrial property, church or other nonprofit or governmental organization lawns, gardens and trees will be permitted three (3) days per week between April 15 and the end of the irrigation season.
 - (2) When the City's water supply is in a Mild Drought: The use of City water for sprinkling of private residences, commercial and industrial property, church or other nonprofit or governmental organization lawns, gardens and trees will be permitted:
 - a. One (1) day per week between April 15 and May 14.
 - b. Two (2) days per week between May 15 and June 14.
 - c. Three (3) days per week between June 15 and August 31.
 - d. One (1) day per week between September 1 and the end of the irrigation season.
 - e. Sprinkler irrigation shall not occur between 10:00 a.m. and 6:00 p.m. daily.
 - (3) When the City's water supply is in a Moderate Drought: The use of City water for sprinkling of private residences, commercial and industrial property, church or other nonprofit or governmental organization lawns, gardens and trees will be permitted:
 - a. One (1) day per week between April 15 and May 14.
 - b. Two (2) days per week between May 15 and August 31.
 - c. One (1) day per week between September 1 and the end of the irrigation season.
 - d. New sod or seed variances are not allowed between May 15 and August 31.
 - e. Sprinkler irrigation shall not occur between 10:00 a.m. and 6:00 p.m. daily.
 - (4) When the City's water supply is in a Severe Drought: The use of City water for sprinkling of private residences, commercial and industrial property, church or other nonprofit or governmental organization lawns, gardens and trees will be permitted:
 - a. One (1) day per week between April 15 and May 14.
 - b. Two (2) days per week between May 15 and June 14.
 - c. No sprinkler irrigation between June 15 and August 1 will be permitted, except for trees and shrubs.
 - d. Two (2) days per week between August 1 and August 31.

- e. One (1) day per week between September 1 and the end of the irrigation season. f. No new sod or seed variances are allowed. g. Sprinkler irrigation shall not occur between 10:00 a.m. and 6:00 p.m. daily.
- (5) When the City Council declares which set of water restriction are in place, the City Council may define City policy regarding the use of warnings prior to notices of violation being issued.

(d) Penalties

- (1) Any person who violates any of the provisions of this Section during a calendar year shall be punished by a fine of one hundred dollars (\$100.00) for the first violation, two hundred fifty dollars (\$250.00) for the second violation, five hundred dollars (\$500.00) for the third violation, and five hundred dollars (\$500.00) and the cost of installing a flow restrictor to limit water use to indoor use only for the fourth and subsequent violations.
- (2) Violations on property other than residential property shall be punished by fines which are double those described in paragraph (d)(1) above.
- (3) Each day of violation shall constitute a separate offense as provided in Section 1.32.020 of this Code and shall be a strict liability offence.
- (4) During a declared Severe Drought, all fines are doubled or up to one thousand dollars (\$1,000.00), whichever is less.

14.08.300170 - Limitation of sprinkling by Mayor; violation.

The Mayor may, by proclamation, limit the hours of sprinkling or may entirely prohibit the use of water for sprinkling purposes in case of failure of the water system or shortage of water supply. In case the Mayor issues a proclamation restricting or prohibiting the use of water for sprinkling, it is unlawful to use water for sprinkling purposes contrary to such proclamation.

14.08.310180 - Nozzle or sprinkler required.

It is unlawful for any person to use water for sprinkling through a hose without a nozzle or sprinkler or by means of a nozzle or sprinkler attached with an orifice therein exceeding three-sixteenths (3/16) of an inch in diameter.

14.08.320190 - Sprinkling prohibited during fires.

It is unlawful for any person to use water for sprinkling during any fire or while the Fire Department is using water for fire purposes, and when the fire alarm is sounded all persons are required to cease using water for sprinkling and shall immediately shut off the use of water for such purpose.

14.08.330200 - Buildings with multiple users.

Owners of any business block or other building occupied by more than one (1) tenant using or taking water from the same service pipe shall be required to pay the water and sewer rent for the whole of such block, building or premises before a license shall be granted for the use of water therein.

14.08.340210 - Lien enforcement.

All water rates shall be a charge and lien upon the premises to which water is delivered from the date the same becomes due and until paid, and the owner of every building, premises, lot or house shall be liable for all water delivered to or taken and used upon his or her premises, which lien and liability may be enforced by the City by an action at law or suit to enforce such lien. In case the tenant in possession of such premises or buildings pays the water rent or rate, it shall relieve his or her landlord from such obligations and lien, but the City shall not be required to look to any person whatsoever other than the owner for the payment of water rents and rates provided for in this Chapter.

14.08.350220 - Turn-on charge.

When water is once turned on to any premises and thereafter turned off for any reason, it shall not be turned on again until the <u>turn-on</u> charge, as established by the Water and Sewer Board, has been paid.

14.08.360230 - Extra charges for connections.

All persons desiring water service for buildings located on property abutting a public water line shall be required to pay an extra charge if all of the following circumstances exist:

- (1) The section of the public water line on which the property abuts was constructed in accordance with City specifications and requirements with prior approval by the City, at the expense of one (1) or more private persons;
- (2) The section of the public water line was constructed along the entire frontage of the property of the person who paid for such construction;
- (3) The person against whom the extra charge is to be assessed applied for water service within ten (10) years of the completion of the construction; and
- (4) The building to be served with water service is located on land which was owned at the time of construction by a person who did not participate in the cost of construction.

14.08.370240 - Computation of extra charges.

As to each property for which water service is applied for, the extra charge with respect to that application for service will be computed with reference to the construction costs of the section of public water line on which the property abuts. In each case, the extra charge will be computed by prorating the construction cost, without interest or other charges, against the frontage of all property abutting on the section of public water line involved.

14.08.380250 - Private payment for public water; reimbursement.

Private persons who pay for the constructions of sections of public water lines and who desire partial reimbursement for such payment shall deliver a written document to the Director of Water and Sewer setting forth the total construction cost, with proof of payment, and setting forth the name and address of an individual, bank or other organization authorized to receive payments from the City pursuant to this Section. Only water lines constructed by prior approval of the administrative authority and completed within twelve (12) months of approval in strict accordance with City standard specifications for water line construction will be considered for reimbursement. As extra charges are paid to the City pursuant to Sections 14.08.360230 and 14.08.370240, the City shall transmit such payments to such authorized individual, bank or other organization. The City shall have no responsibility to see that such individual, bank or other organization properly deals with such funds. The City shall not recognize any recipients or claimants other than the named individual, bank or other organization.

Chapter 14.12 Sanitary Sewers

14.12.070 - Public Sanitary Sewer connections and fees.

No person shall connect on to a Public Sanitary Sewer line until the Director has expressly approved such connection. Approval shall be granted to any person who desires sanitary sewer service for property in the City and who pays the fees and charges established by, and according to, Sections 14.04.080 through 14.04.090 and 14.12.110 through $14.12.440\underline{130}$ of this Chapter.

14.12.120 Sewer plant investment fee credit and exchange.

Where an existing water tap serves one (1) or more living units and the owner, lessee or user of water being served by the existing water tap desires to abandon such tap in favor of a larger or smaller water tap to the same property, the sewer plant investment fee established by Section 14.12.110 shall be reduced by the then current plant investment fee value of the existing sewer tap. In no case shall the City provide cash refunds, and credit against the sewer plant investment fee required by a new water tap shall not exceed the sewer plant investment fee for such change in the size of the new water tap; nor shall it include credit for the fire flow diameter or equivalent unit charges of the existing water or sewer tap.

14.12.130 - Additional fee credit and exchange; renovation.

In the event one (1) or more living units are being renovated and a larger water tap is necessary to meet the current minimum tap size requirements established by the Water and Sewer Board, the City shall require no additional sewer plant investment fee due to the renovation, provided that the units being renovated were constructed prior to January 20, 1959, and the renovation does not increase the number or size of the units nor change the use of the property.

14.12.120 - Sewer plant investment fee credits and exchange; renovations.

- (a) Any customer that seeks to abandon an existing water tap in favor of a smaller or larger tap to serve the same property shall be entitled to a credit against the sewer plant investment fee requirement set forth in Section 14.12.110. Such credit shall be equal to the then current sewer plant investment fee value associated with the abandoned tap, but shall not include credit for any fire flow diameter associated with the abandoned tap. Any credit issued for an abandoned tap pursuant to this Section shall be capped at the sewer plant investment fee due and payable for the replacement tap; the City shall not be required to provide cash refunds for any such credit.
- (b) Any customer that renovates one (1) or more residential units that were constructed prior to January 20, 1959 and is accordingly required to replace an existing water tap that serves such residential units to comply with the current minimum tap size requirements established by the Water and Sewer Board shall not be required to furnish an additional sewer plant investment fee if (i) the renovation does not increase the number or size of the residential units, and (ii) the use of the subject property is not changed.

14.12.140130 - Installation costs; advance payment required.

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In addition to paying the plant investment fees provided for in Section 14.12.110, the owner, lessee or User of anyan applicant for sanitary sewer service shall pay for all labor and materials required to installing the tap onto the sewer main, to install the service pipes and lines, and to perform all trenching and street repairs. All plant investment fees and installations costs shall be paid prior to commencing any work. All costs shall be paid by the applicant in advance of such work and no later than the time at which a building permit is issued by the City for the subject property.

14.12.150**140** - Rates approved by Water and Sewer Board.

14.12.160150 - Billing; time tasks.

14.12.170160 - Due date; disconnection for nonpayment.

All bills for water and sewer are due and payable to the Director of Finance at his or her office in City Hall on the dates specified. If bills are not paid on or before the specified due date, including payment of reconnection charges as provided in Sections 14.08.340210 and 14.08.350220 of this Title, the City may disconnect water service until the delinquent bills are paid.

14.12.180**170** - Lien status; liability of owners.

 $14.12.\overline{190180}$ - Interference with system unlawful.

14.12.200190 - Right of entry.

14.12.210200 - Registration of water wells.

14.12.220210 - Prohibited discharges.

 $14.12.\underline{230}\underline{220}$ - Construction of public sewers regulated.

 $14.12.\underline{240}\underline{230}$ - Public access to information.

14.12.250**240** - Temporary sewer plugs; removal.

 $14.12.\underline{260}\underline{250}$ - Construction over public sanitary sewers restricted.

14.12.270260 - Maintenance of public and private sewers.

- (a) The property owner, at his or her expense, shall install the service line from the property line to the structure to be served in accordance with Section 14.12.070. The property owner shall hold the City harmless for any loss or damage that may directly or indirectly result from installing service line or the malfunction of any private sewer.
- (b) The owner of any property connecting to the Public Sanitary Sewer shall be responsible for maintaining the service line from the Public Sanitary Sewer tap to the structure to be served. The owner shall keep the service line for which he or she is responsible in good condition and shall repair or replace at his or her expense any portions thereof which, in the reasonable opinion of the Director, no longer function properly. The owner shall complete all repairs or replacements within thirty (30) days after notification of the need for same by the Director. The owner shall be responsible for returning the public right-of-way and the street to acceptable City standards as determined by the City.
 - (1) Failure to maintain the service line is a code infraction violation pursuant to Chapter 1.33 of this Code. Should the Director determine that the owner of any property has failed to maintain the service line (including repair or replacement when needed), the Director or the Director's designee may issue a Notice of Violation in accordance with Chapter 1.33.
 - (2) If the Director determines that the failure of the property owner to maintain the service line (including repair or replacement when needed) poses an imminent risk to the health, safety or welfare of the community, the Director may take action necessary to limit such risk, including but not limited to making entry on the property pursuant to Section 14.04.230200 of this Code or causing the shut-off or disconnection of the water supply.
- (c) If the owner desires to disconnect his or her premises, he or she shall not be permitted to remove that portion of the service line between the main and the property line, but at his or her expense shall excavate, sever and tightly cap the service line from the property line to the premises, but shall leave in place all of the service line from the main to such cap. The City shall not approve new services to replace existing services until old service lines are excavated and properly capped. Such cap shall be sufficient to prevent the escaping of sewer gas or the infiltration of water and tree roots.

14.12.280270 - Individual wastewater disposal system construction permit required.

14.12.290280 - Compliance with regulations required; discharges restricted.

14.12.300290 - Maintenance and operation of facilities.

**

14.12.310300 - Connection to available public sewer required.

14.12.320310 - Additional requirements.

14.12.330**320** - Violations; liability.

14.12.340330 - Penalties.

Chapter 14.24 Irrigation

14.24.010 - Subdivision or subdividing defined.

Subdivision or subdividing are defined as any division of any parcel of land where additional water taps are requested.

14.24.020010 - Regulation of irrigation water.

14.24.030020 - Control of headgates.

14.24.040030 - Water levels and checks.

 $14.24.\underline{050}\underline{040}$ - Interference unlawful.

14.24.060050 - Irrigation Rrates fixed by Water and Sewer Board.

Irrigation water rates shall be the minimum rate as approved by the Water and Sewer Board, unless increased by resolution of the City Council.

14.24.070**060** - Payment due date; nonpayment.

14.24.080 - Water rights for lands outside City.

All owners of subdivisions, areas of land and/or business, commercial, industrial or residential sites outside the City limits who request and petition the City for domestic water that as a part of the consideration for securing and receiving City domestic water service, the owner or owners shall agree to transfer when a request for City water is made, at no cost to the City, certain water rights, including Northern Colorado Water Conservancy District allotments, irrigation water and carriage rights of such water, to the City before receiving permits to tap the City waterlines.

14.24.090 Annexation petitioners transfer rights.

All petitioners requesting annexation of their land to the City shall, as a prerequisite to receiving approval of such annexation, agree, on behalf of themselves and all successors in interest to the land to be annexed, to transfer, at no cost to the City, water rights, including Northern Colorado Water Conservancy District allotments, irrigation water and carriage rights upon subdividing and/or requesting domestic water service to the City, before receiving the approval of the annexation.

14.24.095 Water stock transfers; criteria.

All water stock, rights or shares transferred to the City in satisfaction of this Chapter shall meet legal criteria under Colorado law necessary to convert water to municipal use. Such criteria shall include, but not be limited to, sustained historical consumptive water use.

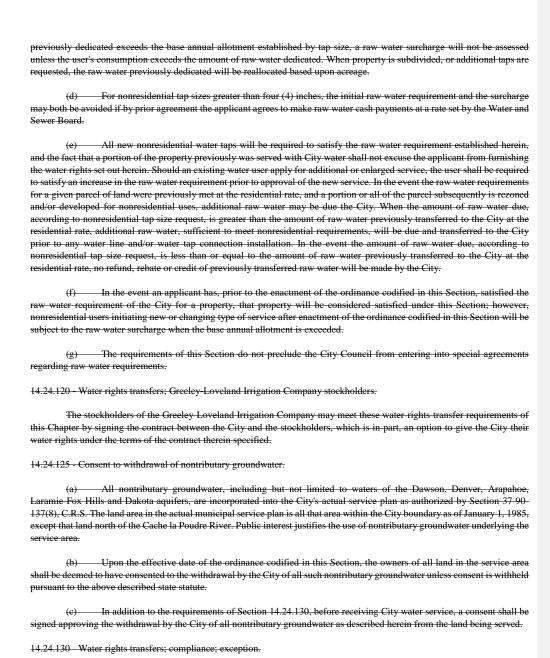
14.24.100 - Amount required for transfer.

(a) The owners or lessees of land, and subdividers or owners of a subdivision within or without the City limits shall furnish to the City three (3) acre feet of water per acre of land or fraction thereof, which the City, at the City's sole determination, can use in its system, as a prerequisite and as a part of the consideration to receive City water service and City water taps for the land, subdivision or parcel; but, if the land is dry, the City shall have the option to require the owner, lessee, subdivider or developer to furnish water as above required or pay to the City in cash or the cash equivalent of the three (3) acre feet of water per acre of land or fraction thereof, based upon the fair market value of water and water rights at the time of the grant of the water service and tap. This standard shall apply to a subdivision, subdevelopment or parcel of land within or without the City limits, but shall be applied one (1) time and one (1) time only to such subdivision or parcel of land, except if further subdivided and an additional water tap or taps are requested. If further subdivision is made of subdivided land, the requirement shall apply to the subdivided parcels where an additional tap or taps are requested.

(b) Nonresidential water service requirements shall apply to commercial, industrial, group housing (nursing homes, hotels and motels) and mixed use customers. The minimum raw water requirement for nonresidential service shall be based upon the size of service and the annual allotment of water assigned to that service in accordance with the table below. The City may require an applicant to furnish water in accordance with Section 14.24.095 above or to pay the cash equivalent of the water so required, based on the fair market value of the water set by the Water and Sewer Board at the time of application for water service. The fair market value of the water shall be effective for no more than six (6) months from the time of application. An applicant for water service may provide a larger amount of raw water if, based upon the applicant's estimate, his or her annual usage will exceed the base annual allotment.

Tap Size (Inches)	Raw Water Requirement (Acre Feet)	Base Annual Allotment (Gallons)
3/4	.75	244,000
1	2.00	652,000
11/2	3.00	977,000
2	8.00	2,607,000
3	12.00	3,910,000
4	24.00	7,812,000
6	208.00	67,772,000
8	352.00	114,692,000

(c) When more water is used in a given calendar year (based upon billing records) than the annual allotment, a raw water surcharge will be assessed on the volume of water used in excess of the annual allotment. The surcharge will be established annually by the Water and Sewer Board and shall be based upon the fair market value of water rights acceptable under this Section or the ordinance codified in this Section at the time rates are set. A user may provide additional raw water in lieu of further surcharge payments should his or her use indicate that he or she will exceed his or her annual allotment all previous surcharge requirements must be paid before a new annual allotment will be established for that user. No reduction in annual allotments, once established for an account or service, will be allowed nor any raw water credit given for lower annual usage. Raw water requirements provided for a specific account may not be transferred to other accounts. In the event raw water



(a) The water or payments, as required under Sections 14.24.080 through 14.24.120, shall be a prerequisite to receiving any City water service tap or taps and the water must be transferred or payment made in full to the City before any approval is given for service taps.
(b) Notwithstanding the procedure set forth in this Section, the stockholders of the Greeley Loveland Irrigation Company who have signed domestic water agreements of 1963 with the City shall follow the procedure as set forth in their contracts.
14.24.140 Limitations and exceptions.
In order to be equitable with present proposed subdivisions and annexations, certain limitations are established, as set forth in Sections 14.24.150 through 14.24.190.
14.24.150 Excepted lands.
Sections 14.24.080 through 14.24.130 shall not apply to the area known as the West Greeley Annexation.
14.24.160 – Applicability to subdivisions or annexations.
Sections 14.24.080 through 14.24.130 shall not apply to subdivisions or annexations filed with the Planning Commission prior to the effective date of those Sections.
14.24.170 Exception for previous compliance.
Section 14.24.090 shall not apply to that portion of the area to be annexed which has previously complied with Sections 14.24.080 through 14.24.130.
14.24.180 Exception for previous acceptance.
-Section 14.24.090 shall not apply to areas previously subdivided and accepted by the Planning Commission, which acceptance has been prior to effective date of Sections 14.24.080 through 14.24.130.
14.24.185 - Exception for residences on large parcels of land.
(a) The water rights transfer provisions of Section 14.24.100 of this Chapter shall not apply to requests for domestic water service to single residences on parcels of land exceeding one (1) acre. Should additional subdivision occur on that parcel of land, and/or if more than one (1) dwelling unit on that parcel of land requests water service, the water rights transfer provisions of Section 14.24.100 shall be satisfied prior to any such connection of water service.
(b) For parcels of land exceeding one (1) acre, the water rights transfer required shall be three (3) acre feet per domestic tap. Water taps larger than three fourths (3/4) inch are not considered as domestic use and are ineligible for the exemption contained in this Section.
(c) When more water is used in a calendar year (based upon billing records) than the annual allotment, which is three (3) acre feet or approximately nine hundred seventy seven thousand (977,000) gallons, a raw water surcharge will be assessed on the volume of water used in excess of the annual allotment. The surcharge will be established annually by the Water and Sewer Board and shall be based upon the fair market value of water rights acceptable under Section 14.24.100 of this Chapter or the ordinance codified in that Section at the time rates are set. The raw water surcharge shall not apply to raw water exemptions previously granted for water taps installed prior to May 1, 2012.

(d) The owners of a parcel of land requesting exemption from the provisions of Section 14.24.100 of this Chapter	
shall enter into an agreement with the City that runs with the land, binding themselves and their heirs, assigns or transferees to	
the subsequent fulfillment of all water right transfer provisions based upon the conditions contained in this Section.	
14.24.100 Applicability of limitations and avantions	
14.24.190 Applicability of limitations and exceptions.	
All limitations and exceptions to the amendments to Sections 14.24.080 through 14.24.130 shall follow the rules	
established in Sections 14.24.150 through 14.24.180.	



Revise Title 14 - Raw Water Requirements for Commercial & Multi-Family Development

July 17, 2019

Background

- Two types of water development fees
 - Plant investment fee (PIF) is for the impact to the infrastructure of the system (plants and pipes)
 - Raw water is the volume of water needed for annual usage
 - Current method for determining the requirement differs between residential and non-residential

Background-Raw Water

- Raw water requirements currently determined two ways
 - Residential: 3 acre feet/acre
 - Non-residential: determined by tap size

Tap Size	Raw Water Requirement (AF)
3/4"	0.75
1"	2
1 ½"	3
2"	8
3"	12
4"	24
6"	208
8"	352

Raw Water Challenges

- Non-residential: Taps are sized to meet peak flow demand, but peak flow does not necessarily correlate with annual water usage
- Three acre feet/acre not collecting enough raw water for large multi-family projects
- Non-residential raw water requirements have not changed since 1989

 Goal: Balance simplicity with precision when it comes to raw water requirements

Proposal

- Base raw water requirements on projected use for commercial and multi-family
 - Service commitment agreements required to ensure the City is not shorted raw water
 - Raw water surcharge for over use
- Multi-family to be treated like commercial and mixed use development
 - No longer uses 3 AF/acre standard
 - PIF calculation consistent with commercial/mixed use not based on number of units
 - Net effect: Increase in raw water requirements, decrease in PIF

Proposal, cont.

- PIF based on tap size which is determined through fixture unit counts and type of use
 - Plumbing data sheet from International Plumbing Code
- Separate taps for each use
 - Example: Mixed use would have 3 taps: one for commercial, residential, and landscaping

Raw Water Requirements

Category Name	Units	Unit Use (Gallons per unit per year)
Auto Service & Repair	sf	12
Car Wash	bay	1,350,000
Childcare	sf	47
Church	sf	4.5
Grocery Store	sf	20
Gas Station w/o Car Wash	sf	93
Hospital	sf	21
Hotel/Motel	room	30,300
Medical Office	sf	25
Multi-Family (greater than 4 units)	unit	35,500
Office	sf	14
Recreation w/ pool	sf	122
Recreation w/o pool	sf	25
Restaurant	sf	188
Retail	sf	16
School	sf	11
Warehouse	sf	5
Industrial	Determined on a case by case basis	

Vetting the Proposal

- Water and Sewer Board
 - Three informational presentations (late 2018)
- Conversations with active Greeley developers during the drafting of the proposal
- Open House with development interests on January 29
- City Council work session March 12

Title 14 Reorganization and Updates

- Development related Code language was updated to reflect current realities
 - Example: Deleted sections referring to a non-existent "water permit"
- Re-organized to group like topics together

Path Forward

- Two readings with City Council
- New raw water requirements take effect after second reading
 - Targeting August 20 City Council meeting

Staff Recommended Action

 Water and Sewer Board recommends to City Council to revise Title 14 of the Greeley Municipal Code for raw water requirement policy

Questions/Comments?

WATER & SEWER BOARD AGENDA JULY 17, 2019

ENCLOSURE X NO ENCLOSURE ___

ITEM NUMBER: 8

TITLE: UPDATE ON GOLD HILL SEGMENT

PROPERTY ACQUISITIONS

RECOMMENDATION: INFORMATION ONLY

ADDITIONAL INFORMATION:

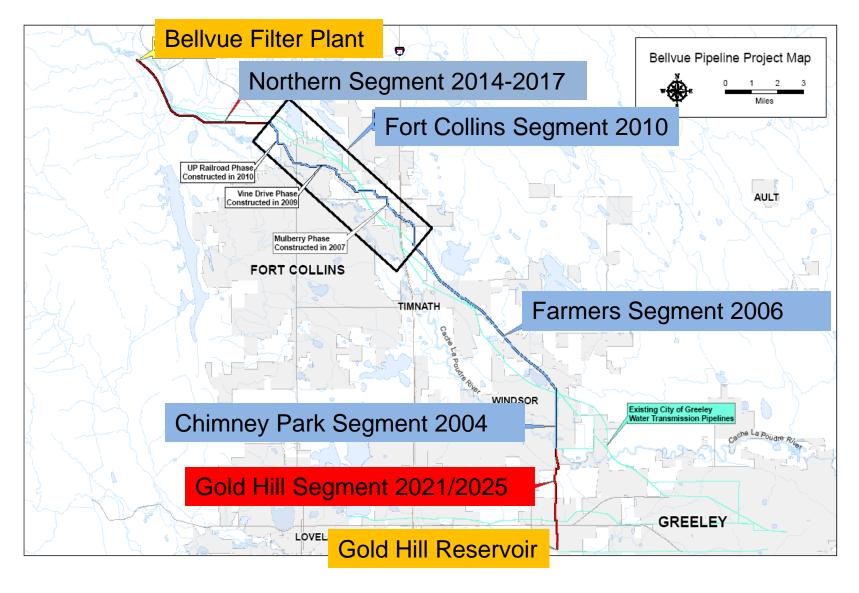
Greeley will need to acquire exclusive permanent and temporary construction easements of varying widths in order to complete the Bellvue Water Transmission Pipeline – Gold Hill Phase.

Bellvue Transmission Pipeline Easement Acquisition

Gold Hill Segment

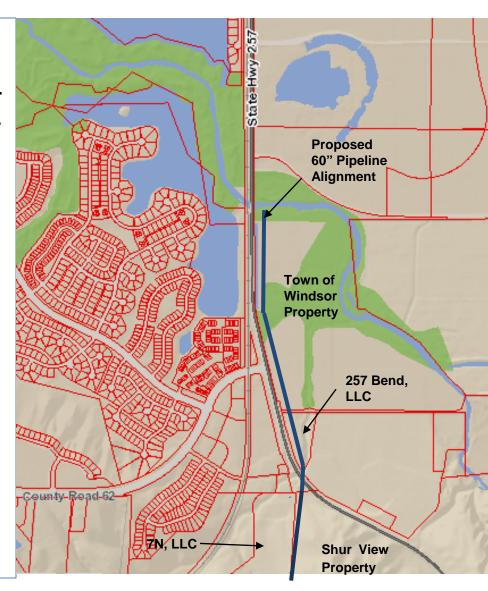
Water and Sewer Board July 17, 2019

Bellvue Transmission Pipeline



Bellvue Transmission Pipeline Status

- 25 of 29 miles of 60"
 pipeline completed and inservice (through 3 miles of 20" pipe)
- \$4.5 million budgeted for Gold Hill Segment in 2020-2021 to construct through Windsor Town Limits (4,500')
- Anticipates SH 257 future widening



Final Route Established

- Required more detailed study
 - o Extensive topographic surveying
 - Discussions with property owners
 - Identification of utility conflicts
 - Determination of actual property boundaries
 - Discussions with CDOT for crossing Highway 257
- Currently working on Final Easement Acquisition and Design
- Construction to occur 2020-2021 for Gold Hill Segment-Windsor Phase
 - o 4,500' of 60" pipeline
 - o HWY 257 tunnel crossing









Gold Hill Segment Easement Status

Permanent Easements:

-- Total Needed 6 (3 miles)

-- Acquired to date 2 (1 mile)

-- Offers Submitted 3 (1 mile)

-- Offers In Process 3 (1 mile)



Current Status:

- Windsor 2 properties
 - Negotiating easement offers
- 257 Bend
 - o Negotiating easement offer
- 7N, LLC (Extractions)
 - Sending offer by July 31
- Schmerge
 - Sending offer by July 31
- Shur View
 - Sending offer by September 30. (need Resolution and Ordinance approval)

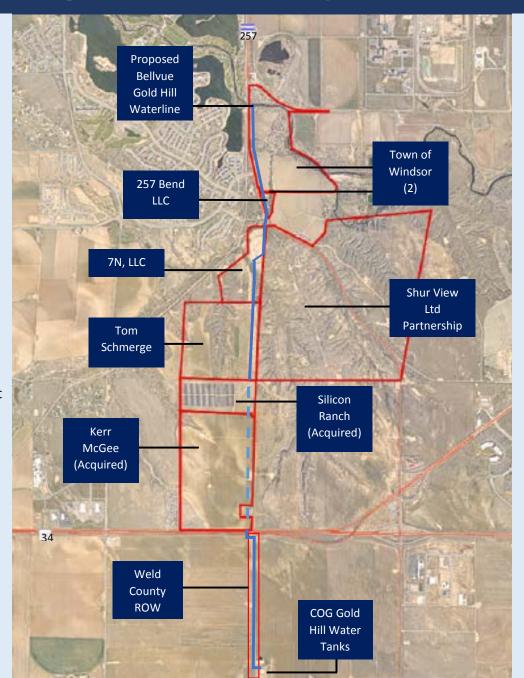
Greeley Bellvue Pipeline Project, Gold Hill Segment

Easement Acquisition

- 6 Properties identified where easements are required _____
 - Town of Windsor (2 parcels)
 - 257 Bend LLC
 - 7N, LLC
 - Shur View Ltd Partnership
 - Tom Schmerge
- Easements dedicated by plat

(Previous owner granted the City a 50' Permanent and 75' Temporary Easement by previous plat)

- Silicon Ranch Corporation
- Kerr McGee Oil & Gas Onshore LP
- Pipe located in public ROW
 - CR 19 / 131st Avenue



WATER & SEWER BOARD AGENDA JULY 17, 2019

ENCLOSURE X NO ENCLOSURE ___

ITEM NUMBER: 9

TITLE: ADOPT RESOLUTION AUTHORIZING

ADDITIONAL PROPERTY ACQUISITIONS

(GOLD HILL SEGMENT – BELLVUE

PIPELINE)

RECOMMENDATION: ADOPT RESOLUTION AUTHORIZING

ADDITIONAL PROPERTY ACQUISITIONS

ADDITIONAL INFORMATION:

Greeley will need to acquire exclusive permanent and temporary construction easements of varying widths in order to complete the Bellvue Water Transmission Pipeline – Gold Hill Phase.

CITY OF GREELEY, ACTING BY AND THROUGH ITS WATER AND SEWER BOARD

RESOLUTION NO. ____, 2019

CONCERNING THE ACQUISITION OF INTERESTS IN REAL PROPERTY FOR WATER TRANSMISSION LINES, BY PURCHASE OR EXERCISE OF THE POWER OF EMINENT DOMAIN, PURSUANT TO SECTION 7 OF ARTICLE XVI, SECTION 15 OF ARTICLE II, AND SECTIONS 1 AND 6 OF ARTICLE XX OF THE COLORADO CONSTITUTION AND COLO. REV. STAT. § 38-1-101, et seq. (GREELEY BELLVUE PIPELINE, GOLD HILL SEGMENT)

WHEREAS, the City of Greeley ("the City") is a Colorado home-rule municipality empowered, pursuant to Sections 1 and 6 of Article XX of the Colorado Constitution, to, *inter alia*, construct, purchase, acquire, lease, add to, maintain, conduct, and operate water works and everything required therefor, within or without its territorial limits, for the use of the City; and

WHEREAS, Section 15 of Article II and Section 7 of Article XVI of the Colorado Constitution further authorize the City to acquire water pipeline easements for domestic, irrigation, drainage, and other purposes; and

WHEREAS, Section 17-4 of the Greeley City Charter authorizes and requires the City Water and Sewer Board ("the Board") to acquire, develop, convey, lease, and protect water and sewer assets, supplies, and facilities; and

WHEREAS, Section 17-1 of the Greeley City Charter authorizes the Board to qualify the Water and Sewer functions and operations as an 'enterprise' as that term is contained in Section 20 of Article X of the Colorado Constitution, and to provide for every function and operation of an enterprise, including but not limited to, the issuance of bonds and all other necessary and ordinary functions of the Water and Sewer operations, which enterprise is established by Section 14.04.050 of the Greeley Municipal Code; and

WHEREAS, the Board has determined that the development of additional water transmission lines and associated facilities from the City's Bellvue Water Treatment Plant to the City, traversing properties located in Larimer and Weld Counties, is necessary for the continued overall operation of the water works, and more specifically for the delivery of treated domestic water to the citizens of the City and other served communities and individuals; and

WHEREAS, the Board adopted Resolution 10, 2018 in August 2018, which *inter alia*, authorized the acquisition of certain interests in real property for construction of the Gold Hill Segment of the Greeley Bellvue Pipeline, the location of which is one such area where additional treated water transmission lines and associated facilities will need to be located, and is an area that is generally experiencing growth and redevelopment into more intensive land uses; and

WHEREAS, via its adoption of Resolution 10, 2018, the Board determined that the acquisition of interests in the real property identified on Exhibit A thereto, either through purchase

or exercise of the City's power of eminent domain, is necessary in order to construct and maintain such treated water transmission lines within the Gold Hill Segment of the Greeley Bellvue Pipeline; and

WHEREAS, continued investigations by City staff in the course of acquiring the aforementioned interests in real property authorized by Resolution 10, 2018 revealed that the Gold Hill Segment of the Greeley Bellvue Pipeline will also traverse the real property generally depicted on Exhibit 1, which is attached to this Resolution and incorporated by reference; and

WHEREAS, the City's staff and counsel have accordingly determined that the treated water transmission lines for the Gold Hill Segment of the Greeley Bellvue Pipeline described above will need to be installed in the ground at varying depths, and that the acquisition of interests in real property is necessary in order to construct and maintain such treated water transmission lines within the real property generally depicted on Exhibit 1 to this Resolution, in addition to the real property generally depicted on Exhibit A to Resolution 10, 2018.

NOW THEREFORE, BE IT RESOLVED BY THE CITY OF GREELEY WATER AND SEWER BOARD AS FOLLOWS:

- 1. The Board hereby reaffirms its determination that it is necessary for the City to acquire, either through purchase or exercise of the power of eminent domain, permanent easements and temporary construction easements for the installation, operation, maintenance, repair, and replacement of treated water transmission lines, for the continued overall operation of the water works, and more specifically for the delivery of treated domestic water to the citizens of the City and other served communities and individuals.
- 2. The Board hereby reaffirms its determination that the acquisition of permanent easements and temporary construction easements is necessary within the Gold Hill Segment of the Greeley Bellvue Pipeline depicted on Exhibit A to Resolution 10, 2018, either through purchase or exercise of the power of eminent domain, for the above-described purposes.
- 3. The Board hereby determines that the acquisition of permanent easements and temporary construction easements for the Gold Hill Segment of the Greeley Bellvue Pipeline is also necessary across the real property generally depicted on Exhibit 1 to this Resolution, either through purchase or exercise of the power of eminent domain, for the above-described purposes.
- 4. The City's staff and counsel are hereby directed to continue with the acquisition of the above-described interests in real property, either through purchase or exercise of the power of eminent domain, as authorized by Resolution 10, 2018 and this Resolution. The Board hereby ratifies any previous actions by City staff in negotiating the acquisition of such interests in real property, and in providing notice of the City's intent to acquire such interests, in accordance with Colo. Rev. Stat. § 38-1-101, et seq.

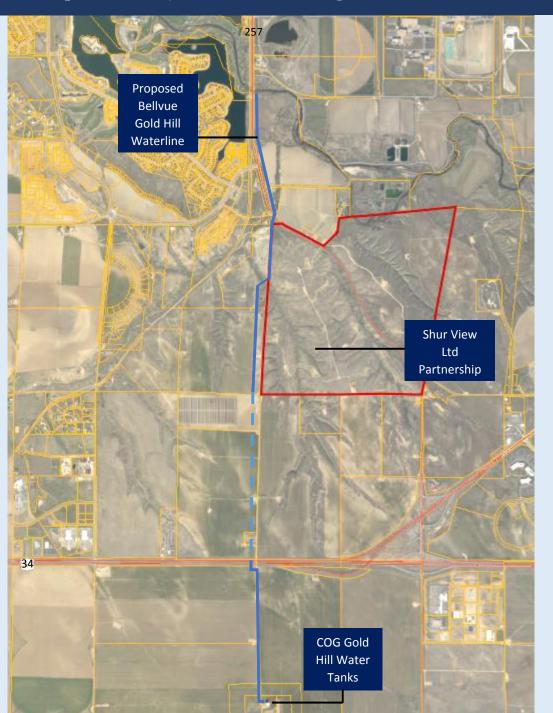
PASSED AND ADOPTED, SIGNED AND APPROVED THIS ____ DAY OF JULY 2019.

ATTEST:		
9 1 2 1	- 1 Cl .	
Secretary to the Board	Board Chairman	

Greeley Bellvue Pipeline Project, Gold Hill Segment

Easement Acquisition

- 1 Additional property identified where an easement is required
 - Shur View Ltd Partnership



CITY OF GREELEY, ACTING BY AND THROUGH ITS WATER AND SEWER BOARD

RESOLUTION NO. <u>10</u>, 2018

CONCERNING THE ACQUISITION OF INTERESTS IN REAL PROPERTY LOCATED IN WELD COUNTY, COLORADO FOR WATER TRANSMISSION LINES, BY PURCHASE OR EXERCISE OF THE POWER OF EMINENT DOMAIN, PURSUANT TO SECTION 7 OF ARTICLE XVI, SECTION 15 OF ARTICLE II, AND SECTIONS 1 AND 6 OF ARTICLE XX OF THE COLORADO CONSTITUTION AND COLO. REV. STAT. § 38-1-101, et seq. (GREELEY BELLVUE PIPELINE, GOLD HILL SEGMENT)

WHEREAS, the City of Greeley ("the City") is a Colorado home-rule municipality empowered, pursuant to Sections 1 and 6 of Article XX of the Colorado Constitution, to, *inter alia*, construct, purchase, acquire, lease, add to, maintain, conduct, and operate water works and everything required therefor, within or without its territorial limits, for the use of the City; and

WHEREAS, Section 15 of Article II and Section 7 of Article XVI of the Colorado Constitution further authorize the City to acquire water pipeline easements for domestic, irrigation, drainage, and other purposes; and

WHEREAS, Section 17-4 of the Greeley City Charter authorizes and requires the City Water and Sewer Board ("the Board") to acquire, develop, convey, lease, and protect water and sewer assets, supplies, and facilities; and

WHEREAS, Section 17-1 of the Greeley City Charter authorizes the Board to qualify the Water and Sewer functions and operations as an 'enterprise' as that term is contained in Section 20 of Article X of the Colorado Constitution, and to provide for every function and operation of an enterprise, including but not limited to, the issuance of bonds and all other necessary and ordinary functions of the Water and Sewer operations, which enterprise is established by Section 14.04.050 of the Greeley Municipal Code; and

WHEREAS, the Board has determined that the development of additional water transmission lines and associated facilities from the City's Bellvue Water Treatment Plant to the City, traversing properties located in Larimer and Weld Counties, is necessary for the continued overall operation of the water works, and more specifically for the delivery of treated domestic water to the citizens of the City and other served communities and individuals; and

WHEREAS, the Gold Hill Segment of the Greeley Bellvue Pipeline, which is generally depicted on Exhibit A, attached hereto and incorporate herein by reference, is one such area where additional treated water transmission lines and associated facilities will need to be located, and is an area that is generally experiencing growth and redevelopment into more intensive land uses; and

WHEREAS, the City's staff and counsel have determined that the additional treated water transmission lines described above will need to be installed in the ground at varying depths, and that, accordingly, the acquisition of interests in real property is necessary in order to construct and maintain such treated water transmission lines within the Gold Hill Segment of the Greeley Bellvue Pipeline depicted on Exhibit A; and

WHEREAS, the Board has determined that the aforementioned acquisition of interests in real property, either through purchase or exercise of the City's power of eminent domain, is necessary for the development and use of said treated water transmission lines.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD AS FOLLOWS:

- 1. The Board hereby determines that it is necessary for the City to acquire, either through purchase or exercise of the power of eminent domain, permanent easements and temporary construction easements for the installation, operation, maintenance, repair, and replacement of treated water transmission lines, for the continued overall operation of the water works, and more specifically for the delivery of treated domestic water to the citizens of the City and other served communities and individuals.
- 2. The Board hereby determines that the acquisition of permanent easements and temporary construction easements is necessary within the Gold Hill Segment of the Greeley Bellvue Pipeline depicted on Exhibit A, either through purchase or exercise of the power of eminent domain, for the above-described purposes.
- 3. The City's staff and counsel are hereby authorized and directed to continue with the acquisition of the above-described interests in real property, either through purchase or exercise of the power of eminent domain. The Board hereby ratifies any previous actions by City staff in negotiating the acquisition of such interests in real property, and in providing notice of the City's intent to acquire such interests, in accordance with Colo. Rev. Stat. § 38-1-101, et seq.

PASSED AND ADOPTED	, SIGNED AND	APPROVED THIS	DAY OF
AUGUST 2018.			

ATTEST:	
Secretary to the Board	Board Chairman

WATER & SEWER BOARD AGENDA JULY 17, 2019

ENCLOSURE X	NO ENCLOSURE
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ITEM NUMBER: 10

TITLE: APPROVE AND RECOMMEND TO CITY

MANAGER THE WATER & SEWER 2020 OPERATING BUDGET AND 5 YEAR CIP

RECOMMENDATION: APPROVE AND RECOMMEND TO CITY MANAGER THE WATER & SEWER 2020 OPERATING BUDGET AND 5 YEAR CIP

ADDITIONAL INFORMATION:

Staff prepared the 2020 operating budget and the five-year capital program for review by the Water and Sewer Board. The 2020 operating budget is the second year of the two-year budget and the only changes are reflected in the seven supplemental requests. The proposed budget emphasizes system maintenance and reliability as well as securing additional water supplies and storage. Highlights for the budget include:

Operating

- Three new positions
 - o Rates and Budget Analyst
 - Water Conservation Analyst
 - o Treated Water Reservoir Maintenance Technician
- Four additional budget supplemental requests
 - o Non-potable dump truck
 - o Non-potable vacuum truck
 - o Farm maintenance increase
 - Water conservation van

Capital

- Key projects
 - o Water treatment plants rehabilitation projects
 - Windy Gap Firming
 - o Milton Seaman Expansion
 - o Non-potable system expansion
 - o WPCF rehabilitation projects

Rate Impact

On average, residential water bills will increase approximately \$4.18/month and residential sewer bills will increase approximately \$1.17/month for a total water and sewer bill increase of \$5.35/month. Plant investment fees will decrease for water and increase for sewer. Water plant investment fees will decrease from \$10,800 to \$10,500 and sewer plant investment fees will increase from \$5,700 to \$6,000.

Water Pro-Forma 2020

Line						
No.	=	Total for 2020	Operating	Construction	Replacement	Acquisition
	Operating Revenue:					
	User Charges	41,357,422	41,357,422			
2	Plant Investment Fees	6,615,904		6,615,904		
3	Hydrant Sales	375,000	375,000			
4	Raw Water Surcharge	350,000				350,000
5	Cash-in-Lieu	500,000				500,000
6	Meter Sales/Rentals	180,000		180,000		
7	Total Operating Revenue	49,378,326	41,732,422	6,795,904	-	850,000
	Operating Expenses:					
8	O&M	17,891,139	17,769,294	121,845		
9	Windy Gap Assessments	859,000	859,000	121,040		
10	Total Operating Expenses	18,750,139	18,628,294	121,845	-	-
	- Cital Operating Expenses	10,700,100	10,020,204	121,010		
11	Operating Income	30,628,187	23,104,128	6,674,059	-	850,000
	Non-Operating Revenue:					
12	Miscellaneous	1,549,000	1,549,000			
13	Investment Income	332,032	163,220	19,944	40,940	107,928
14	Sewer Fund for Services & Meters	85,028	85,028			
15	Sale of Assets	· -				
16	Bond Issue	72,500,000		40,000,000	12,500,000	20,000,000
17	Total Non-Operating Revenue	74,466,060	1,797,248	40,019,944	12,540,940	20,107,928
	Non-Operating Expenses:					
18	Water Acquisition	11,979,000				11,979,000
19	Capital	84,827,635		61.481.470	23,346,165	,,
20	Debt Service	13,933,191		7,341,238	2,281,058	4,310,895
21	General Fund for General Administration	2,024,446	2,024,446	.,,===	_,,,,,,,	.,,
22	Total Non-Operating Expenses	112,764,272	2,024,446	68,822,708	25,627,223	16,289,895
	Interfund Revenue or (Expense)					
	Loan Repayment to Replacement	54,450			54,450	
	Funded Depreciation	-	(8,629,124)		8,629,124	
	Grant Reimbursement	1,775,000	(0,020,.24)		1,775,000	
	Debt Service Transfers from Operating	-,,	(13,933,191)	7,341,238	2,281,058	4,310,895
	Additional Transfer from Operating	-	(5,793,174)	5.399.286	393.888	.,,
23	Total Interfund Revenue (Expense)	1,829,450	(28,355,489)	12,740,524	13,133,520	4,310,895
24	Annual Surplus (Deficiency)	(5,840,575)	(5,478,559)	(9,388,181)	47,237	8,978,928
25	Beginning Fund Balance 2020	39,020,118	19,061,257	9,388,181	4,267,325	6,303,355
		, ,	, ,	9,300,101	4,207,323	
26	Ending Fund Balance 2020	33,179,543	13,582,698	-	4,314,562	15,282,283
27	Minimum Target Reserve	4,593,278				

Water Pro Forma 2020 - 2029

Line No.		10-year Total	Operating	Construction	Replacement	Acquisition
	=	10 your 10tur	Operating	CONSTRUCTION CONTRACTOR	торасоптон	rioquioition
	Operating Revenue:					
1	User Charges	512,748,250	512,748,250			
2	Plant Investment Fees	69,492,224		69,492,224		
3	Hydrant Sales	4,298,957	4,298,957			
4	Raw Water Surcharge	4,012,358				4,012,358
5	Cash-in-Lieu	58,393,804				58,393,804
6	Meter Sales/Rentals	2,224,692		2,224,692		
7	Total Operating Revenue	651,170,285	517,047,207	71,716,916	-	62,406,162
	Operating Expenses:					
8	O&M	209,891,643	208,494,828	1,396,815		
9	Windy Gap Assessments	10,024,747	10,024,747			
10	Total Operating Expenses	219,916,390	218,519,575	1,396,815	-	-
11	Operating Income	431,253,895	298,527,632	70,320,101	-	62,406,162
	Non-Operating Revenue:					
	Miscellaneous	16,602,941	16,602,941			
13	Investment Income	5,258,048	1,171,664	628,789	642,320	2,815,275
14	Sewer Fund for Services & Meters	997,500	997,500	,	,	, ,
15	Sale of Assets	· -	,			
16	Bond Issue	239,500,000		80,000,000	25,500,000	134,000,000
17	Total Non-Operating Revenue	262,358,489	18,772,105	80,628,789	26,142,320	136,815,275
	Non-Operating Expenses:					
18	Water Acquisition	149,718,865				149,718,865
19	Capital	307,420,081		166,294,859	141,125,222	
20	Debt Service	178,253,055		70,567,855	26,355,016	81,330,184
21	General Fund for General Administration	23,207,999	23,207,999			
22	Total Non-Operating Expenses	658,600,000	23,207,999	236,862,714	167,480,238	231,049,049
	Interfund Revenue or (Expense)					
	Loan Repayment to Replacement	544,500			544,500	
	Funded Depreciation	-	(99,730,591)		99,730,591	
	Grant Reimbursement	1,775,000			1,775,000	
	Debt Service Transfers from Operating	-	(178,253,055)	70,567,855	26,355,016	81,330,184
	Additional Transfer from Operating	-	(23,638,931)	5,957,788	17,681,143	
23	Total Interfund Revenue (Expense)	2,319,500	(301,622,577)	76,525,643	146,086,250	81,330,184
24	Total Surplus (Deficiency)	37,331,884	(7,530,839)	(9,388,181)	4,748,332	49,502,572
25	Beginning Fund Balance 2020	39,020,118	19,061,257	9,388,181	4,267,325	6,303,355
26	Ending Fund Balance 2029	76,352,002	11,530,418	-	9,015,657	55,805,927
27	Minimum Target Reserve	6,259,656				

Sewer Pro-Forma 2020

Line					
No.		Total for 2020	Operating	Construction	Replacement
	Operating Revenue:				
	User Charges	11,455,085	11,455,085		
	Plant Investment Fees	4,098,245	11,100,000	4,098,245	
3	Total Operating Revenue	15,553,330	11,455,085	4,098,245	-
	Operating Expenses:	0.040.045	0.400.470	101 015	
4 5	O&M Total Operating Expenses	6,618,315 6,618,315	6,496,470 6,496,470	121,845 121.845	
5	Total Operating Expenses	0,010,313	6,496,470	121,045	-
6	Operating Income	8,935,015	4,958,615	3,976,400	-
	Non-Operating Revenue:				
7	Miscellaneous	232,000	232,000		
8	Investment Income	131,115	48.796	27,158	55,161
9	Bond Issue	11,000,000	-,	,	11,000,000
10	Total Non-Operating Revenue	11,363,115	280,796	27,158	11,055,161
	New Conseiller Frances				
	Non-Operating Expenses: Capital	11 927 620		4,522,590	7,305,039
12	Debt Service	11,827,629 1,834,930		4,522,590	1,834,930
13	Water Fund for Services and Meters	85,028	85,028		1,034,930
	General Fund for General Administration	432,423	432,423		
15	Total Non-Operating Expenses	14,180,010	517,451	4,522,590	9,139,969
	, ,				
	Interfund Revenue or (Expense)				
	Funded Depreciation	-	(3,890,295)		3,890,295
	Debt Service Transfers from Operating	-	(1,752,430)		1,752,430
16	Additional Transfer from Operating Total Interfund Revenue (Expense)	-	(5,642,725)	_	5,642,725
10	rotal internation (expense)		(3,042,723)		3,042,723
17	Annual Surplus (Deficiency)	6,118,120	(920,765)	(519,032)	7,557,917
18	Beginning Fund Balance 2020	15,552,508	5,339,978	2,975,357	7,237,173
19	Ending Fund Balance 2020	21,670,628	4,419,213	2,456,325	14,795,090
20	Minimum Target Reserve	1,601,869			
_0		.,,			

Sewer Pro Forma 2020 - 2029

Line			•		
No.	=	10-year Total	Operating	Construction	Replacement
1 2	Operating Revenue: User Charges Plant Investment Fees	151,157,884 47,482,296	151,157,884	47,482,296	
3	Total Operating Revenue	198,640,180	151,157,884	47,482,296	-
4 5	Operating Expenses: O&M Total Operating Expenses	77,609,458 77,609,458	76,212,643 76,212,643	1,396,815 1,396,815	
Ŭ	Total Operating Expenses	77,000,100	10,212,010	1,000,010	
6	Operating Income	121,030,722	74,945,241	46,085,481	-
	Non-Operating Revenue: Miscellaneous	0.604.060	2 604 969		
8	Investment Income	2,681,868 2,338,352	2,681,868 286,848	1,232,339	819.165
9	Bond Issue	76,000,000	200,040	52,000,000	24,000,000
10	Total Non-Operating Revenue	81,020,220	2,968,716	53,232,339	24,819,165
	Non-Operating Expenses:	.=			
11		150,060,940		92,265,302	57,795,638
12 13	Water Fund for Services and Meters	34,525,618 997,500	997,500	6,129,377	28,396,241
14	General Fund for General Administration	4,957,254	4,957,254		
15	Total Non-Operating Expenses	190,541,312	5,954,754	98,394,679	86,191,879
		,	2,001,101	,,	,,
	Interfund Revenue or (Expense)				
	Funded Depreciation	=	(46,462,877)		46,462,877
	Debt Service Transfers from Operating	-	(28,216,241)		28,216,241
16	Additional Transfer from Operating Total Interfund Revenue (Expense)	<u>-</u>	(74,679,118)	-	74,679,118
17	Total Surplus (Deficiency)	11,509,630	(2,719,915)	923,141	13,306,404
18	Beginning Fund Balance 2020	15,552,508	5,339,978	2,975,357	7,237,173
19	Ending Fund Balance 2029	27,062,138	2,620,063	3,898,498	20,543,577
20	Minimum Target Reserve	2,183,184			

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CITY OF CREEL EV WAT	ED 9 SEWIED DED	ADTMENT 10 VE	AR CIP for Water and Sewer Projec	stc 2020	2020				•					•
CITT OF GREELET - WAT	ER & SEWER DEF	ARTIVIENT TO TE	AR CIP IOI Water and Sewer Projec	215 - 2020	-2029									
Povisod May 28, 2010														
Revised May 28, 2019														
DOTADI E DEMAND				VEAD	2222	2224	2022	2222	2024	2025	2222	222	2222	2222
POTABLE DEMAND				<u>YEAR</u>	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
4 Projected Peak Potable demand - MGD (base)					50.5	50.8	51.0	51.5	52.0	52.6	53.1	53.6	54.1	54.7
DESIGN-Peak potable demand (10% safety)					55.6	55.8	56.1	56.7	57.2	57.8	58.4	59.0	59.6	60.2
					33.0	33.0	30.1	30.7	J7.2	37.0	30.4	33.0	33.0	00.2
6														
Bellvue System														
7												•		
8 Capacity of Bellvue Plant					35	35	35	35	35	35	35	35	35	35
9 Capacity of Bellvue Transmission Lines					30	30	32	32	32	32	32	32	32	32
0 Capacity of Bellvue System					30.0	30.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
David Creaters														
Boyd System														
2 Capacity of Boyd Plant					38	38	38	38	38	38	38	38	38	38
3 Capacity of Boyd Pipelines					40	40	40	40	40	40	40	40	40	40
4 Capacity of Boyd system		38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0			
					30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Combined System Capacities														
6					68.0	68.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
					00.0	00.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
7 WATER				DD0 1507										
	_			PROJECT										
8 <u>CONSTRUCTION 405</u>				<u>TOTALS</u>										
9 Supply	Driver		Description	2020 To 2029	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Milton Seaman Expansion or Alternative	Master Plan	Enlargement adds raw water stora	ge for drought protection.	64,800,000	2,000,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	50,000,00
21 Windy Gap Firming	Master Plan	Firms water rights for Greeley's Wi	ndy Gap units	56,800,000	56,200,000	200,000	200,000	200,000						
22 Non-Potable Expansion Projects	Master Plan	Non-Potable system expansion		12,715,900	1,010,000	1,060,500	1,111,000	1,171,600	1,232,200	1,292,800	1,353,400	1,424,100	1,494,800	1,565,50
23 30" Pleasant Valley Pipeline and Pump Station	Master Plan	Greeley & Tri-Districts line from Ple	easant Valley pipeline to Overland ponds - shared with Tri-Districts	3,200,000									1,200,000	2,000,00
4 Treatment														
25 Bellvue 2mg Clearwell	Operations & Regulatory		roduction, need 4 mg and currently have 2mg	5,014,400					490,000	4,524,400				
Residuals Gravity Thickener-Bellvue	Operations & Master Plan	2nd residual gravity thickener for in		1,900,040					184,000	1,716,040	4 040 000			
Residuals Gravity Thickener-Boyd	Operations & Master Plan	Residual gravity thickener to respo	nd to increased carbon load	2,000,000						182,000	1,818,000			
8 Transmission & Distribution														
9 Bellvue Transmission Program (60")	Master Plan	Completion of Northern Segment of		31,300	31,300									
Bellvue Transmission Program (Gold Hill Segment)	Master Plan	Gold Hill segment will allow gravity		4,118,000	2,048,000	2,020,000	25,000	25,000						ļ
Distribution Line Extension & Oversizing	Operations & Master Plan	Development reimbursement for w		1,780,300	574,000	122,200	129,300	136,400	136,400	136,400	136,400	136,400	136,400	136,400
2 Land Acquisition & Management	Administration	Easements info into GIS & protects		50,000	50,000									
	Operations	City installed meters for new devel		485,000	80,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000 75,000	45,000 75,000
New Construction Meters	6	Otto to a to the latest of												 72 000
33 New Construction Meters 34 Water Taps 35 SUB-TOTAL 405 PROJECTS	Operations	City installed taps for new develop	ment or removing compound taps	750,000	75,000 62,068,300	75,000	75,000	75,000 3,253,000	75,000	75,000	75,000	75,000	4,551,200	53,821,9

Λ	В	Г С	n n		<u> </u>	G	ы	F i	1 1	l k	1 1	I M	N	
WATED	В	Ü	U U	L	ı	G	11		<u> </u>	IX	L	IVI	IN	
WATER				PROJECT										
37 REPLACEMENT 406	-			TOTALS	2020	2024	2022	2022	2024	2025	2020	2027	2020	2020
37 REPLACEMENT 406					2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
38 Supply	Driver		Description	2020 To 2029										
39 Ancillary system Improvements	Maintenance	Irrigation ditch system assessme	ents and City maintenance	2,650,000	265,000	265,000	265,000	265,000	265,000	265,000	265,000	265,000	265,000	265,000
40 Non-Potable Replacement and Rehabilitation	Maintenance	Maintenance to non-potable irrig	ation system. Expanding existing facilities to serve additional customers.	7,519,040	897,000	896,500	598,500	656,400	720,640	750,000	750,000	750,000	750,000	750,000
41 Bellvue Intake Maintenance Project Phase 2	Maintenance	Repair damages to Bellvue raw v	water intake structure	1,879,000				1,834,000	45,000					
42 Boomerang G.C. Water Efficiency Improvements	Maintenance	Improvements at Boomerang Go	olf Course to save approximately 230 acre feet of water	3,300,000	300,000			3,000,000						
43 Water Resource Advertisement Campaign	Master Plan	Ad campaign in support of Milton	n Seaman permitting and general water resource issues	1,070,000	80,000	160,000	160,000	85,000	85,000	100,000	100,000	100,000	100,000	100,000
44 Water Efficiency Tactical Team	Master Plan	Projects to reduce demand and b	better manage City's water resources	5,000,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000
45 Milton Seaman Outlet Works Evaluation	Operations & Regulatory	Replacement of the reservoir out	tlet gates	4,166,000			4,166,000							
46 Greeley Water History Book	Administration	Document the development of G		50,000	50,000									
47 Utility Billing Software Upgrade	Administration	Current utility billing software at e		1,250,000	1,250,000									
48 Lake Loveland Tower Cover	Maintenance	· · ·	er the Lake Loveland intake tower	85,000	1,200,000			85.000						
49 Hourglass Outlet Gates Rehabilitation	Maintenance	<u> </u>		282,000			67,000	215,000						
50 Comanche Secondary Gate Structure Rehab	Maintenance Maintenance	Add second hydraulic gate opera	to deterioration of equipment and potential inoperability	206,000	 		01,000	40,000	166,000					
	wamtenance	replacing two control gates due	to deterioration or equipment and potential inoperability	200,000	 			40,000	100,000	 		-		
51 <u>Treatment</u>								<u> </u>	<u></u>			<u> </u>		<u> </u>
52 Bellvue WTP General Rehab.	Maintenance	General maintenance projects or	r unanticipated rehab	3,307,000	364,000	327,000	327,000	327,000	327,000	327,000	327,000	327,000	327,000	327,000
53 Bellvue 20 MGD Treatment Train Replacement	Maintenance	Design/construct improvements	to filters and other systems at Bellvue	1,211,725			1,078,550	133,175						
54 Bellvue 20 MGD Treatment Trains-Ph 2	Maintenance & Master Plan	20 MGD replacement of the old f	flocculation/sedimentation and 58/64 filters	27,600,000							2,400,000	25,200,000		
55 Boyd WTP General Rehab.	Maintenance	General maintenance projects or	r unanticipated rehab	3,320,000	530,000	310,000	310,000	310,000	310,000	310,000	310,000	310,000	310,000	310,000
56 Boyd Process Improvements	Maintenance	Design/construct improvements	to enable Boyd to operate in winter	10,532,000	5,516,000	5,016,000								
57 Boyd Microstrainer Building Remodel	Maintenance	Remodel Microstrainer building to	to meet current building code and expand space	1,152,000				576,000	576,000					
58 Boyd Chemical Tank Building	Maintenance	Construct a building over the che		810.000		810.000								
59 Boyd Flocculators Replacement	Maintenance	Replace 24 flocculators in the se	•	1,040,000		3.0,000	335,000	235,000	235,000	235,000				
60 Boyd Pump Station Intake Valve	Maintenance	<u>'</u>	valve at the Boyd Lake pump station	237,400		237,400	000,000	200,000	200,000	200,000				
61 Boyd Sedimentation Basin Repair	Maintenance	Repair concrete erosion within the	, ,	1,270,000		237,400		1,270,000						
62 Instrumentation & Controls - Water	Operations	Maintains SCADA systems and o		1,630,000	160,000	190,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000
	Operations	Maintains SCADA systems and t	control panels	1,030,000	100,000	190,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
63 Transmission & Distribution														
64 Transmission System Rehab.	Maintenance	Replacement and rehabilitation of		21,235,000	4,169,000	2,209,000	2,099,000	1,989,000	1,769,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000
65 Distribution Pipeline Replacements	Maintenance	·	story or increase size for operations or meet City standards	12,338,000	1,368,000	1,370,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
66 Valve Replacement	Maintenance	Replaces failed valves on system		1,000,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
67 Fire Hydrant Replacement	Maintenance	Replace hydrants that do not me		770,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000
68 Meter Replacement	Maintenance	Replace meters that become ina		1,000,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
69 Treated Water Reservoir Rehabilitation	Maintenance	Maintenance and minor repairs t		594,000	185,500	88,500	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000
70 Capital Outlay Replacement	Maintenance	Replacement of rolling stock: true		5,341,000	490,000	115,000	430,000	800,000	1,211,000	535,000	380,000	750,000	220,000	410,000
71 Transmission Customers Re-Route	Operations		ners moved to other water providers	2,400,000	400,000				400,000	400,000	400,000	400,000	400,000	<u> </u>
72 Advanced Metering Infrastructure (AMI)	Operations	_	ings, improve customer communication, enhance Water Budget	7,465,000	1,730,000	1,730,000	1,730,000	325,000	325,000	325,000	325,000	325,000	325,000	325,000
73 W&S Facilities Program	Operations	Site will be developed to house \	N&S operational crews & equipment	400,000		200,000	200,000							
74 SUB-TOTAL 406 PROJECTS				132,110,165	18,531,500	14,701,400	13,943,050	14,322,575	8,611,640	7,224,000	9,234,000	32,404,000	6,674,000	6,464,000
75 WATER ACQUISITIONS 407	Driver		Description											
76 Equalizer	Master Plan	Reservoir and exchanges for hig	pher yields from GLIC	36,479,000	1,600,000	4,987,500	1,270,000	17,894,500	10,727,000					
77 Overland Trail Gravel Pits	Master Plan	Greeley and Tri-Districts for appr	•	4,175,000	35,000	1,035,000	1,035,000	1,035,000	1,035,000	Ì				
78 Development of Parcel B, Poudre Ponds	Master Plan	Augmentation storage and return	, .	6,750,000	3,150,000		·		3,600,000	Ì				
79 Future Water Acquisition	Master Plan	Water rights for 10,000 ac-ft		101,565,000	8,075,000	8,479,000	8,903,000	9,347,000	9,811,000	10,306,000	10,821,000	11,366,000	11,931,000	12,526,000
80 New Cache/Larimer & Weld Change Case	Master Plan	Water use court system change	from irrigation to municipal use	1,000,000	200,000	200,000	200,000	200,000	200,000					
81 Leprino Produced Water Claim	Master Plan	, ,	credit for Leprino produced water	100,000	100,000		,	, 	<u> </u>	Ì				
82 Water Supply and Storage Change Case	Master Plan	Water use court system change		450,000	150,000	150,000	150,000							
83 SUB-TOTAL 407 PROJECTS		, ,		150,519,000	13,310,000	14,851,500	11,558,000	28,476,500	25,373,000	10 306 000	10 821 000	11,366,000	11 021 000	12 526 000
00 COD TOTAL SOFT ROOLOTO				150,519,000	13,310,000	14,001,000	11,000,000	20,470,300	20,3/3,000	10,300,000	10,021,000	11,300,000	11,531,000	12,320,000
84 MATER TOTAL 2 (425, 425, 427)														
84 WATER TOTALS (405+406+407)									T		T			
85				436,274,105	93,909,800	34,675,600	28,686,350	46,052,075	37,747,240	27,101,640	25,082,800	47,050,500	23,156,200	72,811,900

						-									
	A	В	С	D	E	F	G	Н		J	K	L	М	N	0
86					PROJECT										
87	CONSTRUCTION 402				TOTALS										
89	Collection	Driver		Description	2020 To 2029	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
90	N. Greeley Sewer Phase IIA	Master Plan	Provides service north of the Po	oudre River and along HWY 85	5,770,000				160,000	5,610,000					
	Additional Sanitary Sewer MH's	Operations	Manholes added for operation a	nd maintenance benefits	530,000	53,000	53,000	53,000	53,000	53,000	53,000	53,000	53,000	53,000	53,000
92	Sewer Taps	Operation	Sewer taps for new developmen	nt (reimbursed)	100,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
93	Poudre Trunk Phase II	Master Plan	Provides service west of 83rd A	ve to 120th Ave	1,622,100	1,622,100									
94	Ashcroft Draw Lift Station	Master Plan	Provide service for Ashcroft Dra	w Basin and St. Michaels subdivision	3,030,000	3,030,000									
95	<u>Treatment</u>														
96	WPCF Primary Treatment Phase 3	Master Plan	Increase total treatment capacity	y for loads and flows through the WPCF	68,234,000							9,335,000		58,899,000	
97	SUB-TOTAL 402 PROJECTS				79,286,100	4,715,100	63,000	63,000	223,000	5,673,000	63,000	9,398,000	63,000	58,962,000	63,000
98	DEDI ACEMENT 402				PROJECT TOTALS										
	Collection	Driver		Description	2020 To 2029	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
101	Sewer Collection System Rehabilitation	Maintenance	Lines smaller than 6" identified t	or replacement and system rehab	1,219,000	60,000	170,000	114,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000
102	Trenchless Main and Collector Rehab	Maintenance	In pipe Cure-in-Place repair of s	anitary system	4,290,000	510,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000
103	WWC Sewer System Rehabilitation	Maintenance	Repairs of sanitary sewer manh	oles and main lines by Collections	1,640,000	200,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000
104	Wastewater Flow Monitoring Program	Maintenance	Install flow meters on trunk lines	for flow monitoring	200,000	50,000	50,000	50,000	50,000						
105	<u>Treatment</u>														
106	General Rehabilitation Projects	Maintenance	Small or unanticipated maintena	ance projects	7,722,000	731,200	920,200	841,200	807,200	922,200	700,000	700,000	700,000	700,000	700,000
107	WPCF SCADA System Replacement	Maintenance	Provide required security, monit	oring, and controls for the WPCF	290,000	240,000	25,000	25,000							
108	Instrumentation & Controls - Wastewater	Operations	Maintains SCADA systems and	control panels	750,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000
109	WPCF Stream Temperature Assessment	Regulatory	Study effluent temperature issue	es for possible new regulations	225,000	150,000	75,000								
110	Nitrification Phase 2	Regulatory	Plant upgrade to meet upcoming	g biological nutrient reduction regs	20,812,490	20,411,490	401,000								
111	WPCF Primary Treatment-Phase 2	Maintenance & Master Plan	Repairs existing three primary c	larifiers built in 1960's & 1980's and improves performance	19,846,100		2,595,000	16,841,100	410,000						
112	Studies & Others														
113	Wastewater Treatment Master Plan Update	Master Plan	Update 2018 WPCF Master Pla	n	1,050,000				525,000						525,000
114	Utility Billing Software Upgrade	Administration	Current utility billing software at	end of life	500,000	500,000									
115	Capital Outlay Replacement	Maintenance	Replacement of rolling stock: tru	ucks, loaders, etc.	1,551,000	41,000	570,000	60,000	45,000	610,000			225,000		
	SUB-TOTAL 403 PROJECTS				60,095,590	22,968,690	5,461,200	18,586,300	2,617,200	2,312,200	1,480,000	1,480,000	1,705,000	1,480,000	2,005,000
117	SEWER TOTALS (402+403)=				139,381,690	27,683,790	5,524,200	18,649,300	2,840,200	7,985,200	1,543,000	10,878,000	1,768,000	60,442,000	2,068,000
119	WATER & SEWER TOTALS=				575,655,795	121,593,590	40,199,800	47,335,650	48,892,275	45,732,440	28,644,640	35,960,800	48,818,500	83,598,200	74,879,900



Water and Sewer Capital Program

2020-2024



405 – Water New Construction Fund

Milton Seaman Permitting

Project Number: 117

Budget Year: 2020

Regions:

Division:

Treatment and Supply

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type: Fund: Water Construction Supply Water Construction

5- Outside City Milton Seaman Reservoir

Project Adam Jokerst
Project Status: Funded

Location: Milton Seaman Reserve
Budget Unit #: 4050088088000000

Description:

This project consists of the permitting of an enlarged Milton Seaman Reservoir (or alternative) as part of a Seaman Water Management Project. This reservoir will Discussion of Progress:

Long term, ongoing permitting work.

Justification:

Storage can increase the usable yield of existing and future water rights.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	3,683,906	3,753,594	3,171,711	2,000,000	1,600,000	1,600,000	1,600,000	1,600,000	19,009,211
4321	State Grants	-	26,388	-	-	-	_	-	-	26,388
4611	Plant Investment Fees	_	-	5,942,000	_	-			_	5,942,000
Tota	l Revenue	\$3,683,906	\$3,779,982	\$9,113,711	\$2,000,000	\$1,600,000	\$1,600,000	\$1,600,000	\$1,600,000	\$24,977,599
Expense										
8208	Furniture, Fixtures &	6,666	-	-	-	-	-	-	-	6,666
8214	Legal Publications	36	-	10,000	-	-	-	-	-	10,036
8216	Miscellaneous	211	188	3,000	-	-	-	-	-	3,399
8224	Operating Supplies	87	226	_	-	-	-	-	-	313
8228	Printing, Copying	2,171	292	15,000	-	-	-	-	-	17,463
8229	Professional Services	3,516,811	3,778,695	8,864,441	2,000,000	1,600,000	1,600,000	1,600,000	1,600,000	24,559,947
8232	Project Management	157,925	580	218,270	_	_	-	-	-	376,775
8233	Real Estate	-	-	3,000		-	-	-	-	3,000
Tota	l Expense	\$3,683,906	\$3,779,982	\$9,113,711	\$2,000,000	\$1,600,000	\$1,600,000	\$1,600,000	\$1,600,000	\$24,977,599
Net Total		-	-	-	_	-	_	-	-	-

Windy Gap Firming

Project Number: 197

Budget Year: 2

Treatment and Supply

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Division: Project Type:

Water Construction Supply

Regions: 5- Outside City

Fund: Project Water Construction

Funded

Location: Proposed Chimney Hollow Reservoir near Carter Lake

Project Status:

Jennifer Petrzelka

Budget Unit #: 4050088088070000

Description:

The project will fund the Northern Water's Windy Gap Firming Project (WGFP), which will construct the 90,000 acre-foot Chimney Hollow Reservoir near Carter Lake in Larimer County. Greeley's participation in the project will yield approximately 9,000 acre-feet of new storage in Chimney Hollow Reservoir, which will be used to firm the City's Windy Gap unit and create new water supply.

Discussion of Progress:

Permitting is ongoing

Justification:

Due to storage limitations within the Colorado Big Thompson (C-BT) and other factors, Windy Gap owners haven't been able to rely on Windy Gap to meet a portion of their current water needs or future requirements. The Windy Gap Firming project is proposed to improve the yield of water deliveries from the existing Windy Gap project to participating Windy Gap owners.

Revenue Detail:

No additional information

Impact on Operating Budget:

Water resource assessments will go up an unknown amount once the project is built and Northern Water starts assessing Greeley for its upkeep and operation.

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	-	921,350	-	16,200,000	200,000	200,000	200,000		- 7,271,633
4724	Expense Reimbursement	12,828,377	-	-	-	-	*			- 12,828,377
5902	Bond Proceeds		_	53,500,000	40,000,000	-	-	-		- 93,500,000
Tota	al Revenue	\$12,828,377	\$921,350	\$53,500,000	\$56,200,000	\$200,000	\$200,000	\$200,000		- \$113,600,010
Expense										
8202	Construction	-	-	53,500,000	56,200,000	_	-	-		- 109,700,000
8206	Design Fees	2,378,660	918,900	-	-	_	-	-		- 3,297,560
8229	Professional Services	-	2,450	-	-	200,000	200,000	200,000		- 602,450
Tota	l Expense	\$2,378,660	\$921,350	\$53,500,000	\$56,200,000	\$200,000	\$200,000	\$200,000		- \$113,600,010
Net Total		\$10,449,717		1	-	-	-	-		

Non-Potable Expansion Project

Project Number: 405.8

2020 Budget Year:

Division:

Water Capital Improvement

Council Priority:

Project Type:

Water Construction Transmission &

Regions: 0 - All Wards

Fund:

Water Construction

Citywide

Project

Adam Jokerst

Location: Budget Unit #: 405NewY2

Project Status:

Funded

Description:

This item funds capital projects to expand the City's non-potable system to serve new and existing developments.

Discussion of Progress:

Fund reactivation

Justification:

Expanding the City's non-potable system has been identified as a critical to meeting Greeley's future water demands. Funding this item provides funds to

Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3	2019 Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue		,							
	Fund Balance	-		1,010,000	1,060,500	1,111,000	1,171,600	1,232,200	5,585,300
Tota	l Revenue	-		\$1,010,000	\$1,060,500	\$1,111,000	\$1,171,600	\$1,232,200	\$5,585,300
Expense				· · · · · · · · · · · · · · · · · · ·					
8202	Construction	-		1,000,000	1,050,000	1,100,000	1,160,000	1,220,000	5,530,000
9303	Public Art Fund	_		10,000	10,500	11,000	11,600	12,200	55,300
Tota	l Expense	-	-	\$1,010,000	\$1,060,500	\$1,111,000	\$1,171,600	\$1,232,200	\$5,585,300
Net Total		_		-		-	-	-	-

Bellvue Two Million Gallon Clearwell

Project Number: 378

Budget Year:

Division:

Treatment and Supply

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type: Fund: Water Construction Treatment Water Construction

Regions: 5- Outside City
Location: Bellvue Filter Plant

2020

Project Project Status: Peter Champion

Funded

Location: Bellvue Filter
Budget Unit #: Unassigned

Description

Design and construct a 2 million gallon (mg) clearwell, piping, and chemical injection in tandem with the existing clearwell.

Discussion of Progress:

Planning

Justification:

Colorado Department of Health & Environment (CDPHE) Design Criteria requires sufficient storage volume to backwash several filters in rapid succession without Revenue Detail:

No additional information

Impact on Operating Budget:

			2019						
GL		Previous 3	Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance			-	-	-	-	490,000	490,000
Tota	al Revenue	-		-	-	-	-	\$490,000	\$490,000
Expense					·				
8206	Design Fees	-		-	_	-	_	440,000	440,000
8232	Project Management	-		-	_	_	-	20,000	20,000
8236	Soils Investigation	-		-	_	_	-	25,000	25,000
8238	Surveying	-	·	-	-	-	-	5,000	5,000
Tota	I Expense	-		-	-	-	-	\$490,000	\$490,000
Net Total		-		-	-	-	-	-	-

Residuals Gravity Thickener - Bellvue

Project Number: 2151

Budget Year: 2020

Division: Treatment and Supply

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type: Fund:

Project

Water Construction Treatment Regions: 5- Outside City
Water Construction Location: Bellvue Filter Plant
Peter Champion Budget Unit #: 4050088083990000

Project Status: Funded

Description:

Design in 2020 and construct in 2021 a 2nd residuals gravity thickener with cover at the Bellvue Water Treatment Plant.

Discussion of Progress:

Planning

Justification:

Phase I of the residuals handling facilities was designed for a plant production rate of 25 million gallons per day (mgd). Current plant rating by the State is 35 mgd.

Revenue Detail:

No additional information

Impact on Operating Budget:

			2019						
GL		Previous 3	Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance	500		-	-	-	_	184,000	184,500
Tota	il Revenue	\$500		-	-	_		\$184,000	\$184,500
Expense									······································
8206	Design Fees	-		-	-	-	_	166,000	166,000
8232	Project Management	-		-	-	-	-	8,000	8,000
8236	Soils Investigation	-		-	-	-	-	10,000	10,000
9303	Public Art Fund	500		_		-	-	-	500
Tota	al Expense	\$500		_	-	-	-	\$184,000	\$184,500
Net Total		-		_	-	-	-		-

Bellvue Transmission Program (60")

Project Number: 123 Budget Year: 2020

Division: Transmission/Distribution **Council Priority:** Infrastructure & Growth- Environmental Infrast'r

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

Fund: Water Construction Location: Bellvue Transmission Line-Laporte Area

 Project
 Dan Moore
 Budget Unit #: 4050088088180000

Project Status: Funded

Description

This project is the construction of the Northern Segment of the Bellvue Transmission Main, six miles of the 60-inch line between the end of the completed line at

Phase 2 tunnel construction completed in September 2017. Warranty ends September 2019. Surface restoration to continue through 2020.

2010

Justification:

To secure Greeley's water future, the 2003 Water Master Plan instituted a policy to expand the transmission system when demand reaches 90% of system capacity.

The new pipeline may allow less use of the Boyd Filter Plant which is more expensive to run than the Bellvue Filter Plant.

Impact on Operating Budget:

		1	2019						
	Previous 3		Revised						
Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Fund Balance	35,490,881	142,644	190,592	31,300	-	-	-		35,855,417
Plant Investment Fees		-	17,200	-	_	-	-		17,200
l Revenue	\$35,490,881	\$142,644	\$207,792	\$31,300	-	_	-		\$35,872,617
Construction	31,912,430	2,854	-	-	-	-	-		31,915,284
Contingency	1,010,149	113,735	130,896	-	-	-	-		1,254,780
Design Fees	767,626	6,582	59,696	-	-	_	_		833,904
Land/Building Cost/Demolition	573,766	10,918	10,000	15,000	_	_	-		609,685
Legal Publications	30	31	-	_	-	-	-		61
Miscellaneous	2,813	-	-	-	-	_	-		2,813
Permits, Fees, Etc	23,934	-	-	-	-	~	_		23,934
Professional Services	461,989	8,191		_	-	_	-		470,180
Project Management	524,923	133	5,000	10,000	-	_	-		540,056
Repair/Maintenance Supplies	29,792	-	-	_	-	-	-		29,792
Surveying	893	-	-	-	-	_	-		893
Testing And Inspection	1,915	-	2,000	6,000	•	-	-		9,915
Public Art Fund	180,620	200	200	300	-	_	-		181,320
l Expense	\$35,490,881	\$142,644	\$207,792	\$31,300	-	-	-		\$35,872,617
	-	-	-	-	-	-	-		-
	Fund Balance Plant Investment Fees I Revenue Construction Contingency Design Fees Land/Building Cost/Demolition Legal Publications Miscellaneous Permits, Fees, Etc Professional Services Project Management Repair/Maintenance Supplies Surveying Testing And Inspection Public Art Fund	Fund Balance 35,490,881 Plant Investment Fees 5 I Revenue \$35,490,881 Construction 31,912,430 Contingency 1,010,149 Design Fees 767,626 Land/Building Cost/Demolition 573,766 Legal Publications 30 Miscellaneous 2,813 Permits, Fees, Etc 23,934 Professional Services 461,989 Project Management 524,923 Repair/Maintenance Supplies 29,792 Surveying 893 Testing And Inspection 1,915 Public Art Fund 180,620	Description Years 2018 Actual Fund Balance 35,490,881 142,644 Plant Investment Fees - - I Revenue \$35,490,881 \$142,644 Construction 31,912,430 2,854 Contingency 1,010,149 113,735 Design Fees 767,626 6,582 Land/Building Cost/Demolition 573,766 10,918 Legal Publications 30 31 Miscellaneous 2,813 - Permits, Fees, Etc 23,934 - Professional Services 461,989 8,191 Project Management 524,923 133 Repair/Maintenance Supplies 29,792 - Surveying 893 - Testing And Inspection 1,915 - Public Art Fund 180,620 200	Previous 3 Revised Budget Pund Balance 35,490,881 142,644 190,592 Plant Investment Fees - - 17,200 I Revenue \$35,490,881 \$142,644 \$207,792 Construction 31,912,430 2,854 - Contingency 1,010,149 113,735 130,896 Design Fees 767,626 6,582 59,696 Land/Building Cost/Demolition 573,766 10,918 10,000 Legal Publications 30 31 - Miscellaneous 2,813 - - Permits, Fees, Etc 23,934 - - Professional Services 461,989 8,191 - Project Management 524,923 133 5,000 Repair/Maintenance Supplies 29,792 - - Surveying 893 - - Testing And Inspection 1,915 - 2,000 Public Art Fund 180,620 200 200	Description Years 2018 Actual Revised Budget 2020 Fund Balance 35,490,881 142,644 190,592 31,300 Plant Investment Fees - - 17,200 - I Revenue \$35,490,881 \$142,644 \$207,792 \$31,300 Construction 31,912,430 2,854 - - Contingency 1,010,149 113,735 130,896 - Design Fees 767,626 6,582 59,696 - Land/Building Cost/Demolition 573,766 10,918 10,000 15,000 Legal Publications 30 31 - - Miscellaneous 2,813 - - - Permits, Fees, Etc 23,934 - - - Professional Services 461,989 8,191 - - Project Management 524,923 133 5,000 10,000 Repair/Maintenance Supplies 29,792 - - - Surveyi	Description Years 2018 Actual Revised Budget 2020 2021 Fund Balance 35,490,881 142,644 190,592 31,300 - Plant Investment Fees - - 17,200 - - I Revenue \$35,490,881 \$142,644 \$207,792 \$31,300 - Construction 31,912,430 2,854 - - - Construction 31,912,430 2,854 - - - - Contingency 1,010,149 113,735 130,896 - - - - Design Fees 767,626 6,582 59,696 - - - - Legal Publications 30 31 10,000 15,000 - - Miscellaneous 2,813 - - - - - Permits, Fees, Etc 23,934 - - - - - Project Management 524,923 133 5,000	Previous 3 Revised Budget 2020 2021 2022	Previous 3 Previous 3 Previous 3 Previous 4 Previous 5 Previous 6 Previous 6 Previous 7 Previous 7 Previous 8 Pre	Previous 3 Years 2018 Actual Budget 2020 2021 2022 2023 2024

Bellvue Pipeline-Gold Hill Segment

Project Number: 405.3 Budget Year:

Project Type:Water Construction Transmission & Regions:5- Outside CityFund:Water ConstructionLocation:South of WindsorProjectDan MooreBudget Unit #:4050088089010000

Project Status: Funded

Description:

This project is the Design and Construction of the Gold Hill Segment of the 60" Bellvue Transmission Main. It is approximately 4 miles long and will extend along Discussion of Progress:

2020

Preliminary route selection is nearing completion. Easement acquisition is underway. Consultant to be selected in May 2019 for Engineering Design of the first Justification:

To secure Greeley's water future, the 2003 Water Master Plan instituted a policy to expand the transmission system when demand reaches 90% of system Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance		1,846	148,153	2,048,000	2,020,000	25,000	25,000	-	4,267,999
4611	Plant Investment Fees		-	438,000	-		-	-	-	438,000
Tota	l Revenue	-	\$1,846	\$586,153	\$2,048,000	\$2,020,000	\$25,000	\$25 <u>,</u> 000	-	\$4,705,999
Expense			_							
8202	Construction	-		-	1,800,000	1,800,000	-	_	-	3,600,000
8204	Contingency	-	· _		135,000	135,000	-	-	-	270,000
8206	Design Fees	-		273,000	20,000	20,000	-	-	-	313,000
8212	Land/Building Cost/Demolition			200,000	-	-	-	-	-	200,000
8229	Professional Services	•	1,846	88,153	33,000	-	-	-	-	122,999
8232	Project Management			10,000	20,000	20,000	20,000	20,000	-	90,000
8233	Real Estate			15,000	_	-	-	-	-	15,000
8240	Testing And Inspection		-	1	20,000	25,000	5,000	5,000	-	55,000
9303	Public Art Fund				20,000	20,000	-	-	-	40,000
Tota	l Expense	-	\$1,846	\$586,153	\$2,048,000	\$2,020,000	\$25,000	\$25,000	-	\$4,705,999
Net Total				ī	-			-	-	_

Distribution Line Extension & Oversizing

Transmission/Distribution

Project Number: 124

Budget Year:

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Division: Project Type:

Water Construction Transmission &

Regions: 0 - All Wards

Fund: Project Water Construction

Location: Citywide

Dan Moore **Project Status:** Funded

Budget Unit #: 4050088088050000

2020

Description:

This program provides for reimbursement to developers for installing oversized pipe at the request of the City. The program can also fund extensions between **Discussion of Progress:**

Annual program for development pipeline oversizing reimbursements.

Justification:

Provides the means for the City to oversize pipes being installed by developers and to extend mains as necessary for the benefit of the entire system. Oversizing Revenue Detail:

This program is in place to oversize water pipes in coordination with new development. Expenditures are usually at least partially reimbursable.

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue					•					
	Fund Balance	1,462,367	467,970	-	574,000	122,200	129,300	136,400	136,400	3,028,637
4611	Plant Investment Fees	-	-	115,200	-	_		-	-	115,200
Tota	l Revenue	\$1,462,367	\$467,970	\$115,200	\$574,000	\$122,200	\$129,300	\$136,400	\$136,400	\$3,143,837
Expense										
8202	Construction	1,178,647	465,382	91,000	550,000	107,000	114,000	121,000	121,000	2,748,028
8203	Construction - City Depts	-	-	7,000	7,000	7,000	7,000	7,000	7,000	42,000
8206	Design Fees	108,037	-	-	-	-	-	-	-	108,037
8212	Land/Building Cost/Demolition	25,950	752	-	-	-	-	-	-	26,702
8214	Legal Publications	41	- [-	-	-	-	-	-	41
8226	Permits, Fees, Etc	2,526	-	-	_	-	-	-	-	2,526
8229	Professional Services	26	-	-	-	-	-	-	-	26
8232	Project Management	15,216	637	1,000	1,000	1,000	1,000	1,000	1,000	21,853
8233	Real Estate	-	-	9,000	-	-	-	-	_	9,000
8234	Repair/Maintenance Supplies	100,225	-	6,000	6,000	6,000	6,000	6,000	6,000	136,225
8236	Soils Investigation	-	-	-	10,000	-	-	-	-	10,000
8238	Surveying	729	-	-	-	-	-	_	-	729
8240	Testing And Inspection	1,970	-	-	-	-	-	-	-	1,970
9303	Public Art Fund	29,000	1,200	1,200	-	1,200	1,300	1,400	1,400	36,700
Tota	l Expense	\$1,462,367	\$467,970	\$115,200	\$574,000	\$122,200	\$129,300	\$136,400	\$136,400	\$3,143,837
Net Total		-	-	-	-	-	-	-	-	-

Land Acquisition & Management

Project Number: 125 Budget Year: 2020

Division: Transmission/Distribution Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type:Water Construction Transmission & Regions:5- Outside CityFund:Water ConstructionLocation:Citywide

 Project
 Dan Moore
 Budget Unit #:
 4050088088110000

Project Status: Funded

Description:

This annual program will periodically hire consultants to acquire new easements and property and to research, compile, and defend existing easements and lands.

Discussion of Progress:

Ongoing program

Justification:

Professional expertise is required during the acquisition of new land and easements and to protect Greeley's existing infrastructure including pipelines, treatment

Revenue Detail:

No additional information

Impact on Operating Budget:

GL Account	Description	Previous 3	2019 Revised	2020	2024	2022	2022	2024	C
	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance	355,094		50,000	-	-	-		- 405,094
4611	Plant Investment Fees	-	- 50,000	-	-	-	-		50,000
Tota	l Revenue	\$355,094	- \$50,000	\$50,000	-	_	_		- \$455,094
Expense									
8212	Land/Building Cost/Demolition	355,094	- 50,000	50,000	-	-	-		- 455,094
Tota	l Expense	\$355,094	- \$50,000	\$50,000	-	<u>-</u>	-	***************************************	- \$455,094
Net Total		-	- 1	*	-	-	-		

New Construction Meters

Project Number: 121 2020 **Budget Year:**

Division: Transmission/Distribution **Council Priority:** Infrastructure & Growth- Environmental Infrast'r

Project Type: Water Construction Transmission & Regions: 0 - All Wards

Location: Citywide Project Dan Moore Budget Unit #: 4050088088080000

Project Status: Funded

Description:

Fund:

This program purchases new meters for resale to property owners or developers for new water service connections. To maintain quality and uniformity, the **Discussion of Progress:**

Ongoing annual project, implementation of Advanced Metering infrastucture (AMI) program. BEACON replacing READ CENTER as our data import and billing

City ordinance requires a meter on every tap. The cost of new meters in this account is offset by the sale of these meters to customers. Providing meters to Revenue Detail:

New customers = new revenue sources

Water Construction

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	139,070	29,552	-	80,000	45,000	45,000	45,000	45,000	428,622
4611	Plant Investment Fees	-	-	35,000	-	-	-	-	-	35,000
5802	Sales Of Other City Asset	-231		-	-	-	-	-	-	-231
Tota	il Revenue	\$138,839	\$29,552	\$35,000	\$80,000	\$45,000	\$45,000	\$45,000	\$45,000	\$463,391
Expense										
8208	Furniture, Fixtures &	106,416	19,659	27,500	65,000	37,500	37,500	37,500	37,500	368,575
8234	Repair/Maintenance Supplies	32,423	9,893	2,000	4,000	2,000	2,000	2,000	2,000	56,317
8244	Capital Equipment >\$5,000		-	5,500	11,000	5,500	5,500	5,500	5,500	38,500
Tota	al Expense	\$138,839	\$29,552	\$35,000	\$80,000	\$45,000	\$45,000	\$45,000	\$45,000	\$463,391
Net Total			_		-	-	_	-	-	-

Water Taps

Project Number: 122

Budget Year: 2020

Division: Transmission/Distribution Council Priority: Infrastructure & Growth- Environmental Infrast'r Regions:

Project Type: Fund:

Water Construction Transmission &

0 - All Wards

Project

Water Construction Dan Moore

Location: Citywide Budget Unit #: 4050088088100000

Project Status: Funded

Description:

The transmission/distribution crews construct taps on the water system lines for both its own operations and those required by new customers. Tapping valves **Discussion of Progress:**

Ongoing annual program

Justification:

The transmission/distribution crews construct taps on the water system lines for both its own operations and those required by new customers. Tapping valves Revenue Detail:

New customers = new water revenue

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue			_							
	Fund Balance	-	-	1,731,626	-	-	-	-	-	-
4461	New Meter Sales	253,417	128,885	25,000	50,000	52,221	54,541	57,076	59,788	680,928
4462	Large Meter Sales	185,944	66,326	15,000	35,000	36,555	38,179	39,954	41,852	458,810
4464	Labor & Materials	44,082	10,683	3,000	10,000	10,444	10,908	11,415	11,957	112,489
4611	Plant Investment Fees	15,213,601	6,027,277	-1,759,626	6,496,867	4,645,500	4,720,719	5,973,064	6,673,018	47,990,420
4612	Promontory PIF Surcharge	8,100	-	-	-	-	-	-	-	8,100
53**	Water Rates	170,874	-		4,000,000	-	-	-	-	4,170,874
5632	Rents From Equipment	411,421	137,445	60,000	85,000	88,776	92,719	97,029	101,639	1,074,029
Tota	l Revenue	\$16,287,439	\$6,370,616	\$75,000	\$10,676,867	\$4,833,496	\$4,917,066	\$6,178,538	\$6,888,254	\$54,495,650
Expense			_							
8202	Construction	22,504	-	5,000	5,000	5,000	5,000	5,000	5,000	52,504
8203	Construction - City Depts	5,220	-	5,000	5,000	5,000	5,000	5,000	5,000	35,220
8208	Furniture, Fixtures &	4,600	-	-	-	-	-	-	-	4,600
8216	Miscellaneous	6,869	-	3,500	3,500	3,500	3,500	3,500	3,500	27,869
8224	Operating Supplies	1,229	-	-	-	-	-	-	-	1,229
8226	Permits, Fees, Etc	1,263	-	-	-	-	-	-	-	1,263
8232	Project Management	6,338	158	-	-	-	-	-	-	6,495
8234	Repair/Maintenance Supplies	118,061	17,637	61,500	61,500	61,500	61,500	61,500	61,500	504,698
Tota	l Expense	\$166,083	\$17,795	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$633,878
Net Total		\$16,121,356	\$6,352,821	-	\$10,601,867	\$4,758,496	\$4,842,066	\$6,103,538	\$6,813,254	\$53,861,772



406 - Water Replacement Fund

Ancillary System Improvements

Project Number: 174

Treatment and Supply

Budget Year: 2020

Division: Project Type:

Water Replacement Supply Water Capital Replacement Regions: 0 - All Wards Location: Citywide

Fund: Project Adam Jokerst

4060088088580000 Budget Unit #:

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Funded Project Status:

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.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	256,053	442,412	90,606	265,000	265,000	265,000	265,000	265,000	2,114,071
53**	Water Rates		-	265,000	_	-		-	-	265,000
Tota	l Revenue	\$256,053	\$442,412	\$355,606	\$265,000	\$265,000	\$265,000	\$265,000	\$265,000	\$2,379,071
Expense										
8202	Construction	235,400	435,688	290,606	250,000	250,000	250,000	250,000	250,000	2,211,694
8206	Design Fees	9,539	1,055	30,000	10,000	10,000	10,000	10,000	10,000	90,594
8214	Legal Publications	61	27	_	-	-	-	-	-	88
8216	Miscellaneous	5,843	249	18,000	-	-	_	-	-	24,092
8224	Operating Supplies	66	-	-	-	-	_	-	_	66
8226	Permits, Fees, Etc	216	-	_	-	-	_	-	-	216
8232	Project Management	4,927	5,393	17,000	5,000	5,000	5,000	5,000	5,000	52,320
Tota	l Expense	\$256,053	\$442,412	\$355,606	\$265,000	\$265,000	\$265,000	\$265,000	\$265,000	\$2,379,071
Net Total		-	-		_	-	-	-	-	-

Non-Potable Replacement Rehabilitation

Project Number: 425 Budget Year: 2020

Division: Treatment and Supply **Council Priority:** Infrastructure & Growth- Environmental Infrast'r

 Project Type:
 Water Replacement Supply
 Regions:
 0 - All Wards

 Fund:
 Water Capital Replacement
 Location:
 Citywide

Project Roger Schmidt Budget Unit #: 4060088088740000

Project Status: Funded

Description:

This item funds replacement or rehabilitation of non-potable pumps, piping, ponds, and related equipment. Water and Sewer is now responsible for maintaining non-potable assets that were Parks responsibility. 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.

Revenue Detail:

No additional information

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.

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	237,530	150,438	16,525	897,000	896,500	598,500	656,400	720,640	4,173,533
53**	Water Rates		-	448,000	-	-	_	-	-	448,000
Tota	al Revenue	\$237,530	\$150,438	\$464,525	\$897,000	\$896,500	\$598,500	\$656,400	\$720,640	\$4,621,533
Expense										
8202	Construction	8,418	-	365,759	700,000	790,000	484,000	532,400	585,640	3,466,217
8206	Design Fees	-	-	_	100,000	-	_	-	-	100,000
8216	Miscellaneous	-	-	8,000	8,000	8,500	8,500	9,000	9,000	51,000
8234	Repair/Maintenance Supplies	226,750	150,438	81,766	80,000	88,000	96,000	105,000	115,000	942,955
8244	Capital Equipment >\$5,000	2,362		9,000	9,000	10,000	10,000	10,000	11,000	61,362
Tota	al Expense	\$237,530	\$150,438	\$464,525	\$897,000	\$896,500	\$598,500	\$656,400	\$720,640	\$4,621,533
Net Total		-	-	-	-		-	-	-	-

Bellyue Intake Maintenance Phase 2

Project Number: 406.24 Budget Year: 2020

Division: Treatment and Supply Council Priority: Infrastructure & Growth- Environmental Infrast'r

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

Fund: Water Capital Replacement Location: Bellvue Water Treatment Plant

 Project
 Laura Prechel
 Budget Unit #:
 4060088084160000

 Project Status:
 Funded

Project Status: 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 discussions have taken place with J&T Consulting. Staff are reviewing the alternatives provided by J&T in 2018 along with additional design items that would reduce hydraulic limitations within the raw water intake facilities. Conceptual budgets for additional design items will be reviewed prior to adding to the scope of the project. Contracting for the design will be completed in early 2019 with final design being completed in 2019. Construction is slated to be completed in 2020.

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.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	-		30,000	-	-		1,834,000	45,000	1,909,000
53**	Water Rates			110,000	-	-		_	-	110,000
Tota	l Revenue	_		\$140,000	_	-	,	\$1,834,000	\$45,000	\$2,019,000
Expense										
8202	Construction	-		-	-	-		1,750,000	-	1,750,000
8204	Contingency	-		10,000	-	-			-	10,000
8214	Legal Publications	-	-	-	-	-	-	500	-	500
8226	Permits, Fees, Etc			-	-	-		5,000	-	5,000
8228	Printing, Copying	-		1.4	-	-		500	-	500
8229	Professional Services	-		50,000	-	-		60,000	30,000	140,000
8232	Project Management	-		50,000	-	-		15,000	15,000	80,000
8236	Soils Investigation	-		-	-	-		3,000	-	3,000
8240	Testing And Inspection	-		30,000	-	.			-	30,000
Tota	l Expense	-		\$140,000	_	_		\$1,834,000	\$45,000	\$2,019,000
Net Total		-		-	-	_		_	-	-

Boomerang GC Water Efficiency Improvements

Project Number: 406.37 Budget Year: 2020

Division: Treatment and Supply Council Priority:

Project Type: Water Replacement Supply **Regions:** 4 - 10 St North/23 Ave West

Fund: Water Capital Replacement Location: Boomerang Golf Course, 7309 West 4th St.

 Project
 Jennifer Petrzelka
 Budget Unit #:
 4060088008920000

 Project Status:
 Funded

Description:

As part of the Water Efficiency Tactical Team (WETT) program, a study was conducted to assess the water delivery and storage system to Boomerang Golf Course and recommend improvements over the current system. The study found that approximately 230 AF or more water could be recaptured by improving the golf course irrigation system, eliminating water features, and by piping water directly from the ditch to the irrigation pond.

Discussion of Progress:

Planning

Justification:

The water delivery and storage system at Boomerang Golf Course is inefficient and wasting water. Utilizing the City's existing water resources in the most efficient manner is critical when the long term water needs for the City require additional water supplies to be acquired.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3		2019 Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	-		-	300,000	-	-	3,000,000	-	3,300,000
53**	Water Rates	-		3,330,000	_	-	-	-	_	3,330,000
Tota	l Revenue	-	-	\$3,330,000	\$300,000		-	\$3,000,000		\$6,630,000
Expense										
8202	Construction	-		3,300,000	-	-	-	3,000,000	-	6,300,000
8229	Professional Services	-		30,000	300,000	-	-	-	_	330,000
Tota	l Expense	-	-	\$3,330,000	\$300,000	-	_	\$3,000,000	-	\$6,630,000
Net Total		-	-	-	_	-	-	-	-	-

Water Resource Advertisement Campaign

Project Number: 406.22 Budget Year: 2020

Division: Treatment and Supply Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type:Water Replacement SupplyRegions:0 - All WardsFund:Water Capital ReplacementLocation:RegionwideProjectSean ChambersBudget Unit #:4060088084330000

Project Status: Funded

Description:

Water education campaign for rate payers and other key stakeholders in the region.

Discussion of Progress:

Ongoing

Justification:

Greeley is growing into a regional water provider. As such, we take a lead role in water planning and infrastructure. We have recognized that our decisions and Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3	2019 Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance	300,000	335,255 -	80,000	160,000	160,000	85,000	85,000	1,205,255
53**	Water Rates	-	- 400,000		-	**	_	-	400,000
Tota	l Revenue	\$300,000	\$335,255 \$400,000	\$80,000	\$160,000	\$160,000	\$85,000	\$85,000	\$1,605,255
Expense									
8216	Miscellaneous	-	- 50,000	10,000	10,000	10,000	10,000	10,000	100,000
8229	Professional Services	300,000	335,255 350,000	70,000	150,000	150,000	75,000	75,000	1,505,255
Tota	l Expense	\$300,000	\$335,255 \$400,000	\$80,000	\$160,000	\$160,000	\$85,000	\$85,000	\$1,605,255
Net Total		-		-	-	-	-	-	-

Water Efficiency Tactical Team

Project Number: 406.21

Funded

Treatment and Supply

Budget Year: 2020

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Division: Project Type: Fund:

Water Replacement Supply Water Capital Replacement Regions: 0 - All Wards Location: Citywide

Project Project Status: Jennifer Petrzelka

4060088084320000 Budget Unit #:

Description:

Working cooperatively with other departments and city parks, city facilities will be retrofitted to save water, enhance natural areas, and create diversity in flora and fauna.

Discussion of Progress:

Ongoing

Justification:

This is necessary to assure that the City responds to internal and external water supply challenges that have occurred since implementation of the conservation plan and landscape code amendments. \$50K in 2020 will be used to develop a multi-year plan of implementation. Projects will be identified and prioritized based on cost per AF savings and their viability as opposed to acquiring new water. Projects will also be evaluated based on environmental enhancement and/or strengthening or infrastructure.

Revenue Detail:

No additional information

Impact on Operating Budget:

			20	019						
GL		Previous 3	Rev	vised						
Account	Description	Years	2018 Actual Bu	dget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	45,028	207,804	13,224	500,000	500,000	500,000	500,000	500,000	2,766,057
53**	Water Rates		- 2	00,000				-	-	200,000
Tota	l Revenue	\$45,028	\$207,804 \$2	13,224	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,966,057
Expense										
8202	Construction	-	75,000	-	450,000	470,000	470,000	470,000	470,000	2,405,000
8216	Miscellaneous	-	49,313	50,000	-	-	-	-	-	99,313
8229	Professional Services	45,028	83,491 1	63,224	50,000	30,000	30,000	30,000	30,000	461,744
Tota	l Expense	\$45,028	\$207,804 \$2	13,224	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,966,057
Net Total		-	-	-	-		<u>.</u>		-	-1

Milton Seaman Outlet Works Evaluation

Project Number: 2162

Treatment and Supply

Budget Year:

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Division: Project Type:

Water Replacement Supply

Regions:

5- Outside City

Fund:

Water Capital Replacement

Location:

Milton Seaman Reservoir

Project Project Status: Laura Prechel

Funded

Budget Unit #:

4060088084090000

Description:

An engineering evaluation of alternatives and preliminary design to replace the original reservoir outlet gates will occur in 2017. Permitting in 2018; surveying, soils investigation and final design in 2019; and construction in 2020.

Discussion of Progress:

The City has contracted with AECOM for the development of the 30% design documents that will be used for selection of a design-build team to take the project to completion. Both the 30% and final designs will occur in 2019 with construction beginning in the fall of 2019. The evaluation of gate repair alternatives was been completed by AECOM in 2018. The City has selected a desired alternative for the repairs.

2020

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. The condition will continue to deteriorate jeopardizing drought storage.

Revenue Detail:

No additional information

Impact on Operating Budget:

			1	2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	55,971	137,476	-	-		- 4,166,000	-	_	4,359,447
53**	Water Rates	_	-	415,000	-			-	_	415,000
Tota	ıl Revenue	\$55,971	\$137,476	\$415,000	-		- \$4,166,000	-	_	\$4,774,447
Expense										
8202	Construction	28,963	91,604	-	-		- 4,100,000	-	-	4,220,567
8206	Design Fees	23,364	28,274	400,000	-			-	-	451,637
8214	Legal Publications	-	26	-	-		- 500	-	-	526
8224	Operating Supplies	65	-	-	-				-	65
8226	Permits, Fees, Etc	-	-	-	-		- 500	-	-	500
8229	Professional Services	-	16,261	-	-		- -	-	-	16,261
8232	Project Management	3,580	1,312	15,000	-		- 35,000	-	-	54,891
8240	Testing And Inspection		-	-	_		- 30,000	_	_	30,000
Tota	l Expense	\$55,971	\$137,476	\$415,000	-		\$4,166,000	-	-	\$4,774,447
Net Total			-	+	-			-	-	-

Greeley Water History

Project Number: 406.11

Budget Year: 2020

Division:

Treatment and Supply Water Replacement Supply **Council Priority:** Infrastructure & Growth- Environmental Infrast'r

Project Type: Fund:

Water Capital Replacement

Regions: 0 - Ali Wards Location: Citywide

Project **Project Status:**

Sean Chambers

Funded

Budget Unit #: 4060088084260000

Description:

This project will document the Greeley water and sewer system history and highlight the many important decisions made in the past that makes the Greeley water system a leader in the Front Range.

Discussion of Progress:

No additional information

Justification:

The development of the Greeley water system has played an important role in how northern Colorado's water has been used. This project will illustrate the many accomplishments of Greeley and how it developed.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3	2019 Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance	201,086	57,823 24,668	50,000	-	-	-	-	333,577
4341	Local Government Grants	-	- 65,000	-	-	_	-	-	65,000
53**	Water Rates		- 125,000	-	-	_	-	-	125,000
Tota	il Revenue	\$201,086	\$57,823 \$214,668	\$50,000	-	_	-	-	\$523,577
Expense									
8229	Professional Services	190,020	49,573 189,668	50,000	-	_	_	-	479,261
8232	Project Management	11,066	8,250 25,000	-	-	-	_	-	44,315
Tota	ıl Expense	\$201,086	\$57,823 \$214,668	\$50,000	-	-	-	-	\$523,577
Net Total		_			-	-	_	_	-

Utility Billing Replacement-Water

Project Number: 406.38

Budget Year: 2020

Location:

Division:

Treatment and Supply
Water Replacement Supply

Council Priority:
Regions: 0 - All Wards

Project Type: Fund:

Water Capital Replacement

Citywide

Project
Project Status:

Erik Dial Funded Budget Unit #: 4060088008930000

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:

Planning

Justification:

The current Utility Billing software will only be supported for 2-3 more years. A new system is needed. This will be funded by the Water, Sewer, and Stormwater funds.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL Account	Description	Previous 3 Years	2019 Revised 2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue		, .							
	Fund Balance	<u>-</u>	- 700,000	1,250,000	-	-	-		- 1,950,000
Tota	l Revenue	-	- \$700,000	\$1,250,000	_	-	-		- \$1,950,000
Expense									
8229	Professional Services	-	- 700,000	1,250,000	-	-	-		- 1,950,000
Tota	l Expense	-	- \$700,000	\$1,250,000	-	-	-		- \$1,950,000
Net Total				_	-		-		

Lake Loveland Intake Gates Replacement

Project Number: 406.32 Budget Year: 2020

Division: Treatment and Supply Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type:Water Replacement SupplyRegions:5- Outside CityFund:Water Capital ReplacementLocation:Lake LovelandProjectPeter ChampionBudget Unit #:4060088084360000

Project Status: Funded

Description:

Remove and replace three slide gates and actuators in the raw water inlet tower in Lake Loveland.

Discussion of Progress:

Planning

Justification:

The existing gates & actuators are part of the original equipment installed in 1967. 4 of the 5 existing gates do not operate. We will replace the lower 3 gates leaving the top 2 gates that are not used alone. The actuators are at the end of their useful life. New actuators will be installed on the 3 replacement gates. The new actuators will give position feedback to the SCADA system allowing the operators to know percent open of the gates. Currently there is not a way to know how far the gate is open. The sediment in the channel approaching the gate has been removed along with the sediment coving the bottom gate on the intake structure. Lake Loveland was drained by the Greeley-Loveland ditch company to fix their gate located on the south side of the lake. This draining of the lake gives us our opportunity to fix the gates and remove the sediment. Our construction window is this winter season ending once spring run off occurs and refills the lake.

Revenue Detail:

No additional information

Impact on Operating Budget:

			2019						
GL		Previous 3	Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance		- 27,000	-	-	-	85,000		- 112,000
Tota	al Revenue	-	- \$27,000	-	-	-	\$85,000		- \$112,000
Expense									
8202	Construction	-		-	_	-	75,000		- 75,000
8232	Project Management	-	- 2,000	-	-	-	10,000		12,000
8244	Capital Equipment >\$5,000	-	- 25,000	-	-	-	-		25,000
Tota	al Expense	-	- \$27,000	-	_	-	\$85,000		- \$112,000
Net Total		-		-	-	-	-		

Hourglass Reservoir Outlet Gates Rehabilitation

Project Number: 406.48 Budget Year: 2020

Division: Depreciation Council Priority:

Project Type:Water Replacement SupplyRegions:5- Outside CityFund:Water Capital ReplacementLocation:Hourglass ReservoirProjectLaura PrechelBudget Unit #:Unassigned

Project Status: Funded

Description:

Replace the Hourglass Reservoir outlet gates, operator shafts, actuators, trash rack and structure in 2023.

Discussion of Progress:

Planning

Justification:

The hourglass outlet structure was constructed in 1965 with minimal repairs. Fine sand in the reservoir has worn the gate seats, shaft threads, and actuator gears down making it increasingly difficult to open and close the gates. The gate shafts are out of alignment and wobbling. Continuing deterioration of the equipment will eventually render them inoperable. This work will restore reliability to the outlet works allowing continued full decreed storage.

Revenue Detail:

No additional information

Impact on Operating Budget:

			2019						
GL		Previous 3	Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance	-		_	-	67,000	215,000	-	282,000
Tota	l Revenue	-		-	-	\$67,000	\$215,000	-	\$282,000
Expense									
8202	Construction			-	-	-	200,000	-	200,000
8214	Legal Publications			-	-	500	-	-	500
8228	Printing, Copying	-		_	-	500	-	-	500
8229	Professional Services	-		-	-	25,000	-	-	25,000
8232	Project Management	-		-	-	15,000	15,000	-	30,000
8234	Repair/Maintenance Supplies	-		-	-	8,000	-	-	8,000
8238	Surveying	-		-	-	3,000	-	-	3,000
8240	Testing And Inspection	-		-		15,000	-	-	15,000
Tota	l Expense	-		-	_	\$67,000	\$215,000	-	\$282,000
Net Total		-		-	-	-	-	-	-

Comanche Reservoir Secondary Gate Structure Rehab

Project Number: 406.47

Budget Year: 2020

Division:

Depreciation

on Council Priority:

Project Type: Water Replacement Supply

Regions: 5- Outside City

Fund: W Project La

Water Capital Replacement

Location: Comanche Reservoir, Secondary Gate
Budget Unit #: Unassigned

Project Status: Fu

Laura Prechel Funded

Description:

Rehabilitate the existing secondary gate operator at Comanche Reservoir with a battery operated hydraulic system to open and close the outlet gate.

Discussion of Progress:

Planning

Justification:

Comanche Reservoir was rehabilitated in 1990 including construction of the gate structures and operators. In 2006 the primary outlet gate structure was converted to a battery operated hydraulic system due to the difficulty in manually operating the gate. It currently takes 2 Water Supply Technicians to manually open or close the secondary gates. A retrofit of the system with hydraulics eliminates the risk of the gate(s) not opening or closing during critical flows, which jeopardizes reservoir function.

Revenue Detail:

No additional information

Impact on Operating Budget:

			2019						
GL		Previous 3	Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance	_		-	-	-	40,000	166,000	206,000
Tota	l Revenue	-			-	_	\$40,000	\$166,000	\$206,000
Expense									
8202	Construction	-		-	-	-	_	150,000	150,000
8214	Legal Publications	-		-	-	-	-	500	500
8226	Permits, Fees, Etc	-		-	-	-	-	5,000	5,000
8228	Printing, Copying	-		-	-	-	-	500	500
8229	Professional Services	-		-	-	-	25,000	-	25,000
8232	Project Management			-		-	15,000	10,000	25,000
Tota	l Expense	-		-	-	-	\$40,000	\$166,000	\$206,000
Net Total		-		-	-	*	-	-	_

Bellvue Water Treatment Plant General Rehabilitation

Project Number: 705 Budget Year: 2020

Division: Treatment and Supply **Council Priority:** Infrastructure & Growth- Environmental Infrast'r

Project Type:Water Replacement TreatmentRegions:5- Outside CityFund:Water Capital ReplacementLocation:Bellvue Filter PlantProjectPeter ChampionBudget Unit #:4060088088590000

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 '18: 8202 - rebuild residuals recovery, return flow, & house service pumps, asphalt repair; '18 to '21: 8244 includes 3 VFD drives on EQ basin mixers, and volumetric chemical feeders and replacing a backwash supply pump.

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.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	630,403	352,672	503,561	364,000	327,000	327,000	327,000	327,000	3,158,636
53**	Water Rates	-	-	380,000	-	-	-	-	_	380,000
5801	Sales Of Fixed Assets	-587	-	-	_	-	-	-	-	-587
Tota	Revenue	\$629,815	\$352,672	\$883,561	\$364,000	\$327,000	\$327,000	\$327,000	\$327,000	\$3,538,048
Expense										
8202	Construction	318,878	277,178	482,699	20,000	160,000	160,000	160,000	160,000	1,738,755
8206	Design Fees	24,456	-	4,000	4,000	4,000	4,000	4,000	4,000	48,456
8208	Furniture, Fixtures &	1,773	10,405	19,467	12,000	31,000	31,000	31,000	31,000	167,645
8212	Land/Building Cost/Demolition	-	6,500	-	-	-	-	-	-	6,500
8214	Legal Publications	43	19	-	-	-	-	-	-	62
8229	Professional Services	31,188	39,143	667	-	-	-	_	-	70,998
8232	Project Management	27,017	4,448	8,000	8,000	8,000	8,000	8,000	8,000	79,465
8234	Repair/Maintenance Supplies	30,192	-	20,000	20,000	40,000	40,000	40,000	40,000	230,192
8244	Capital Equipment >\$5,000	196,267	14,980	348,728	300,000	84,000	84,000	84,000	84,000	1,195,975
Tota	l Expense	\$629,815	\$352,672	\$883,561	\$364,000	\$327,000	\$327,000	\$327,000	\$327,000	\$3,538,048
Net Total			-	-	-	-	-	-	-	-

Bellvue 20 MGD Treatment Train Replacement

Project Number: 406.9

Budget Year: 2020

Division:

Treatment and Supply

Council Priority:

Infrastructure & Growth- Environmental Infrast'r

Project Type:

Water Replacement Treatment

Regions:

5- Outside City

Fund:

Water Capital Replacement

Location:

Bellvue Water Treatment Plant

Project Project Status: Adam Prior Funded Budget Unit #: 4060088084210000

Description:

Construction and management services for the construction of the replacement 20 MGD plant. Design and construct of replacement pumps and motors to provide backwash supply and backwash recovery flow rates for the replaced 20 MGD filtration facility.

Discussion of Progress:

Construction & Planning

Justification:

The replaced 20 MGD filtration facility will have construction until 2020 with management requirements and testing in 2018 and 2019. The replaced 20 MGD filters have higher backwash flow requirements to clean the filters and meet CDPHE water quality requirements. Therefore, the backwash supply and recovery pumps must be replaced with pumps providing higher flow capabilities in 2020.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	3,323,316	15,570,848	13,303,583	-		- 1,078,550	133,175		33,409,472
53**	Water Rates		_	284,600	_			_		284,600
Tota	l Revenue	\$3,323,316	\$15,570,848	\$13,588,183	-		- \$1,078,550	\$133,175		\$33,694,072
Expense										
8202	Construction	1,879,242	12,855,695	12,146,235	-		- 795,000	-		27,676,172
8204	Contingency	-	-	-	-		- 50,000	-		50,000
8206	Design Fees	1,339,871	1,247,181	667,000	~			-		3,254,052
8208	Furniture, Fixtures &	348	-	-	-			-		348
8214	Legal Publications	160	30	-	-		- 1,000	-		1,190
8216	Miscellaneous	70	1,154,610		-			-		1,154,680
8229	Professional Services	45,668	197,853	412,775	-		- 198,750	99,375		954,420
8232	Project Management	54,411	21,738	67,600	-		- 33,800	33,800		211,349
8240	Testing And Inspection	3,546	93,742	294,573	_			-		391,861
Tota	Il Expense	\$3,323,316	\$15,570,848	\$13,588,183	-		- \$1,078,550	\$133,175		\$33,694,072
Net Total			-	-	-			-		-

Boyd Water Treatment Plant - General Rehabilitation

Project Number: 341 Budget Year: 2020

Division: Treatment and Supply Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type:Water Replacement TreatmentRegions:5- Outside CityFund:Water Capital ReplacementLocation:Boyd Filter PlantProjectPeter ChampionBudget Unit #:4060088088640000

Project Status: Funded

Description:

This project consists of replacing all six valves per filter on 2 of the filters, with 2 more filters each year until all filter valves have been replaced. Installation of a butterfly shut off valve on the backwash line to be able to isolate the back wash pond from the filter building. Rehab of backwash pump and replacement of worn out valves associated with the pump.

Discussion of Progress:

Ongoing planning, design, procurement, and construction. This project addresses rehabilitation needs at Boyd Lake WTP. The 3rd Boyd Lake raw water pump motor was rebuilt and installed prior to the operating season. The 3rd and 4th 800 Hp motor have been rebuilt. Two plant air compressors & accessories have been installed. A new soft starter for all 3 Boyd Lake pump station pumps have been installed. A new valve on one of the finished water lines has been installed. New valves on the raw water lines have been installed. The replacement of the roofs of the Filter building, Microstrainer builder, Boyd pump station, and Lake Loveland shore house are under contract and will be completed by summer of 2019. New grading and landscaping has been installed around the filter building to fix grading/drainage issues that were causing water infiltration into the basement of the filter building. No water has infiltrated into the filter building after the fix. All the outdoor lighting around the buildings has been replaced with new LED lighting. None of the exterior building lighting worked prior to the replacement. A new vehicle washout station was installed at the east end of one of the drying beds. The washout station is used to clean residuals off of the loader and dump truck after working with it in the drying beds and hauling it to the storage tent. A new fuel station with diesel, gasoline, and used oil tanks has been built on site to store fuel needed to run the various equipment on site.

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.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3		2019 Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue		******								
	Fund Balance	739,076	482,186	202,374	530,000	310,000	310,000	310,000	310,000	3,193,636
53**	Water Rates	-	-	350,000	-	_	-	-	-	350,000
5801	Sales Of Fixed Assets	-2,866	-	-	-	_	-	-	-	-2,866
Tota	l Revenue	\$736,210	\$482,186	\$552,374	\$530,000	\$310,000	\$310,000	\$310,000	\$310,000	\$3,540,770
Expense										
8202	Construction	400,986	303,509	397,635	350,000	200,000	200,000	200,000	200,000	2,252,130
8206	Design Fees	5,979	-	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	-	-	-	-	-	5,979
8208	Furniture, Fixtures &	16,722	572	36,890	30,000	30,000	30,000	30,000	30,000	204,184
8212	Land/Building Cost/Demolition	904	-	-	-	-	-	-	-	904
8214	Legal Publications	16	19	2	-	-	-	-	-	35
8216	Miscellaneous	12,634	-	-	-	-	-	-	-	12,634
8226	Permits, Fees, Etc	850	-	4 4	-	-	-	-	-	850
8229	Professional Services	25,787	57,889	37,849	-	-	-	-	-	121,525
8232	Project Management	21,821	23,144	10,000	15,000	10,000	10,000	10,000	10,000	109,966
8234	Repair/Maintenance Supplies	116,180	13,668	35,000	35,000	35,000	35,000	35,000	35,000	339,848
8240	Testing And Inspection	128	-	_	-	-	-	-	-	128
8244	Capital Equipment >\$5,000	134,202	83,385	35,000	100,000	35,000	35,000	35,000	35,000	492,587
Tota	l Expense	\$736,210	\$482,186	\$552,374	\$530,000	\$310,000	\$310,000	\$310,000	\$310,000	\$3,540,770
Net Total		-	-	-		-	_	_	_	-

Boyd WTP Process Improvements

Project Number: 872

Division: Treatment and Supply Council Priority: Infrastructure & Growth- Environmental Infrast'r

Budget Year:

Project Type:Water Replacement TreatmentRegions:5- Outside CityFund:Water Capital ReplacementLocation:Boyd Filter PlantProjectPeter ChampionBudget Unit #:4060088084120000

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 instructure.

2020

Discussion of Progress:

Planning

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 2019 improvements would include an electrical building and electrical infrastructure, the 2020 improvements would be the new chemical building and piping, and 2021 improvements would be the piping and treatment train improvements.

Revenue Detail:

No additional information

Impact on Operating Budget:

C1		D		2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	5,785,471	1,838,664	1,785,634	5,516,000	5,016,000	-	_		19,941,770
53**	Water Rates		-	4,146,200	-	-	-	-		4,146,200
Tota	l Revenue	\$5,785,471	\$1,838,664	\$5,931,834	\$5,516,000	\$5,016,000	_	-		\$24,087,970
Expense										•
8202	Construction	3,828,736	1,744,706	4,085,977	5,000,000	4,500,000	-	_		19,159,419
8204	Contingency	-	-	184,000	200,000	200,000	-	-		584,000
8206	Design Fees	1,747,936	47,049	1,357,949	-	-	-	-		3,152,934
8208	Furniture, Fixtures &	355	-		-	-	-	_		355
8214	Legal Publications	-	57	1,000	1,000	1,000	-	-		3,057
8216	Miscellaneous	61	-	-	-	-	-	-		- 61
8224	Operating Supplies	-	72	-	-	-	_	-		- 72
8229	Professional Services	48,988	1,742	189,639	200,000	200,000	_	-		640,370
8232	Project Management	133,973	23,808	40,269	40,000	40,000	_	_		278,050
8234	Repair/Maintenance Supplies	22,074	-	-	-	· _	=	_		22,074
8240	Testing And Inspection	3,347	21,231	73,000	75,000	75,000	=	_	,	247,578
Tota	l Expense	\$5,785,471	\$1,838,664	\$5,931,834	\$5,516,000	\$5,016,000	-	-		\$24,087,970
Net Total		_	-	-	_	-		-		-

Boyd Microstrainer Building Remodel

Proiect Number: 406.29

Treatment and Supply

Division: Proiect Type: Water Replacement Treatment Fund: Water Capital Replacement

Proiect Peter Champion **Project Status:** Funded

Budget Year: 2020

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Regions: 5- Outside City

Location: **Bovd Water Treatment Plant**

Budget Unit #: Unassigned

Description:

Installation of an external stairway to the 2nd floor of the microstrainer building and modifying the building for offices, records storage, and meeting space.

Discussion of Progress:

Planning

Justification:

The 2nd floor only has one stairway egress which does not confirm to current building code. An external stairway and exit will correct this deficiency. The building will be repurposed to fulfill the need for Boyd staff offices, record storage and meeting space.

No additional information

Impact on Operating Budget:

			2019						
GL		Previous 3	Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance			-	_	-	576,000	576,000	1,152,000
Tota	l Revenue	-		_	-	-	\$576,000	\$576,000	\$1,152,000
Expense									
8202	Construction	-		-	_		500,000	500,000	1,000,000
8204	Contingency	-		-	-	-	60,000	60,000	120,000
8214	Legal Publications	-	- 4	-	-	_	1,000	1,000	2,000
8226	Permits, Fees, Etc	-	-	-	-	_	5,000	5,000	10,000
8240	Testing And Inspection	-		-	-	_	5,000	5,000	10,000
9303	Public Art Fund			_	-	-	5,000	5,000	10,000
Tota	l Expense	-		-	-	-	\$576,000	\$576,000	\$1,152,000
Net Total		-		-	-	-	-	-	-

Boyd Chemical Tank Building

Project Number: 406.43 Budget Year: 2020

Division: Depreciation Council Priority:

 Division:
 Depreciation
 Council Priority:

 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 Peter Champion Budget Unit #: Unassigned

Project Status: Funded

Description:

Construct a building over the existing tank farm at the Boyd Lake water treatment plant. This building will provide winterization to the existing alum chemical tanks.

Discussion of Progress:

No additional information

Justification:

The Boyd Lake water treatment plant is not able to operate in the winter time due to the plant processes not being winterized. The existing alum tank storage is outdoors and subject to freezing. The existing tank and piping heating elements are not sufficient and have suffered damage from freezing. This project will construct a building over the existing chemical tanks protecting them from freezing and allowing winter operation.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL Account	Description	Previous 3	2019 Revised	2020	2024				
	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance	-		-	810,000	_	-		- 810,000
Tota	l Revenue	-		-	\$810,000	-	-		- \$810,000
Expense									
8202	Construction	-		-	800,000	_	-		- 800,000
8232	Project Management	-		-	10,000	_	=		10,000
Tota	l Expense	-		_	\$810,000	-	-		- \$810,000
Net Total		-		_	-	-	-		

Boyd Floculator replacement with Electrical replacement/improvements

Project Number: 406.45

Water Capital Improvement

Budget Year: 2020

Council Priority:

Division: Project Type:

Water Replacement Treatment

Regions:

5- Outside City

Fund:

Water Capital Replacement

Location:

Boyd Water Treatment Plant

Project **Project Status:** Peter Champion

Funded

Budget Unit #:

Unassigned

Description:

Remove and replace 24 floculators in the sedimentation basins along with a new building to house the required electrical equipment.

Discussion of Progress:

Planning

Justification:

The existing electrical components are part of the original equipment installed in 1987. The current electrical supply to the floculators is failing and needs to be replaced. The floculators are past the end of their design life and need to be replaced. Failure of this equipment puts water treatment in jeopardy of violation.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL Account	Description	Previous 3 Years	2019 Revised 2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance	_	-	-		335,000	235,000	235,000	805,000
Tota	l Revenue	-		-	-	\$335,000	\$235,000	\$235,000	\$805,000
Expense			1						<u> </u>
8202	Construction	-		-		320,000	220,000	220,000	760,000
8232	Project Management			-		15,000	15,000	15,000	45,000
Tota	l Expense	-		-	-	\$335,000	\$235,000	\$235,000	\$805,000
Net Total		-		-	-	-	-		-

Boyd Pump Station Intake Valve Replacement

Project Number: 406.44

Depreciation

Budget Year: 2020

Council Priority:

Division: Project Type:

Water Replacement Treatment

Regions:

5- Outside City

Fund:

Water Capital Replacement

Location:

Boyd Lake Pump Station

Project Status:

Unassigned Funded Budget Unit #:

Unassigned

Description:

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

Discussion of Progress:

Planning

Justification:

One of the intake valves needs replaced on the intake of the Boyd Lake pump station

Revenue Detail:

No additional information

Impact on Operating Budget:

GL Account	Description	Previous 3 Years	2019 Revised 2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue							2023		Grand Total
	Fund Balance			-	237,400	_	_		- 237,400
Tota	l Revenue	-		-	\$237,400	_	-		\$237,400
Expense									<u> </u>
8202	Construction	-		-	225,000	-	_		225,000
8232	Project Management	-		-	10,000	_	-		10,000
9303	Public Art Fund	-		-	2,400	-	-		2,400
Tota	l Expense	-		-	\$237,400	-	-		\$237,400
Net Total		-		-	-	-	-		-

Boyd Sedimation Basin Repair

Project Number: 406.46 Budget Year: 2020

Division: Treatment and Supply Council Priority:

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 Peter Champion Budget Unit #: Unassigned

Project Status: Funded

Description:

Repair of the concrete sedimation 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:

No additional information

Justification:

The concrete sedimation basin at the Boyd Lake water treatment plant needs repair. The concrete is spalling and the aggerate 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.

Revenue Detail:

No additional information

Impact on Operating Budget:

			2019						
GL		Previous 3	Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance	-	-	-	-		1,270,000	-	1,270,000
Tota	Il Revenue	_		-	-		\$1,270,000	-	\$1,270,000
Expense									
8202	Construction	-		-	-		1,200,000	-	1,200,000
8206	Design Fees	-		-	-		60,000	-	60,000
8232	Project Management	-	-	-	-		10,000	-	10,000
Tota	l Expense	-		-	**		\$1,270,000	-	\$1,270,000
Net Total		-		-	_		-	-	-

Instrumentation & Controls - Water

Project Number: 342 Budget Year:

Division: Treatment and Supply Council Priority: Infrastructure & Growth- Environmental Infrast'r

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

Project Steve Robben Budget Unit #: 4060088088548855

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.

2020

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.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	446,890	206,788	9,557	160,000	190,000	160,000	160,000	160,000	1,493,235
53**	Water Rates	-	-	150,000	_	-	-	-	_	150,000
Tota	l Revenue	\$446,890	\$206,788	\$159,557	\$160,000	\$190,000	\$160,000	\$160,000	\$160,000	\$1,643,235
Expense										
8202	Construction	13,853	3,781	-	10,000	10,000	10,000	10,000	10,000	67,634
8203	Construction - City Depts	8,748	12,400	15,000	5,000	5,000	5,000	5,000	5,000	61,148
8206	Design Fees	17,177	-	-	-	-	-	-	-	17,177
8208	Furniture, Fixtures &	180,725	118,232	39,557	30,000	30,000	30,000	30,000	30,000	488,515
8216	Miscellaneous	9,407	-	5,000	5,000	5,000	5,000	5,000	5,000	39,407
8224	Operating Supplies	3,728	47	5,000	5,000	5,000	5,000	5,000	5,000	33,775
8226	Permits, Fees, Etc	2,925	1,980	-	-	-	-	-	-	4,905
8228	Printing, Copying	49	-	-	-	-	-	-	-	49
8229	Professional Services	7,595	-	-	10,000	10,000	10,000	10,000	10,000	57,595
8232	Project Management	8,989	-	_	-	-	-	-	-	8,989
8234	Repair/Maintenance Supplies	168,679	70,340	75,000	75,000	75,000	75,000	75,000	75,000	689,019
8244	Capital Equipment >\$5,000	25,016	7	20,000	20,000	50,000	20,000	20,000	20,000	175,023
Tota	l Expense	\$446,890	\$206,788	\$159,557	\$160,000	\$190,000	\$160,000	\$160,000	\$160,000	\$1,643,235
Net Total			-	-			-	-	-	-

Transmission System Rehabilitation

Project Number: 68 Budget Year: 2020

Division: Transmission/Distribution Council Priority: Infrastructure & Growth- Environmental Infrast'r

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 Laura Prechel Budget Unit #: 4060088088560000

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 ongoing project in part utilizing in-house design and construction. The 2019 -2020 projects will be the structural rehab for problem areas identified in the 2018 studies. Also, 2020 projects include studies for rehabilitation of the existing cathodic protection system, and strategies for rehabilitation or replacement of existing piping. Construction for rehabilitation will occur in 2021 through 2024 at the rate of 2 miles per year.

Discussion of Progress:

Planning - Pipe Replacements for 2021-2024 will include 20th Street pipe relocates, replacements of the 18", 20", and 24" Kodak Pipeline.

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 old pipelines were constructed between 1923-1969 and 31 miles have been rehabilited 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.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	2,510,554	1,167,398	1,172,472	4,169,000	2,209,000	2,099,000	1,989,000	1,769,000	17,085,424
4321	State Grants	438,733	-	-	-	-	-	-	-	438,733
4724	Expense Reimbursement	32,030	-	-		-	-	-	-	32,030
53**	Water Rates	_	-	2,279,000	-	_	-	-	-	2,279,000
Tota	l Revenue	\$2,981,316	\$1,167,398	\$3,451,472	\$4,169,000	\$2,209,000	\$2,099,000	\$1,989,000	\$1,769,000	\$19,835,186
Expense										
8202	Construction	2,620,878	867,723	2,942,751	4,000,000	1,900,000	1,800,000	1,700,000	1,500,000	17,331,352
8203	Construction - City Depts	-	17,937	80,000	-	-	-	-		97,937
8204	Contingency	47		40,000	-	190,000	180,000	170,000	150,000	730,047
8206	Design Fees	84,257	-	-	-	-	-	-	-	84,257
8208	Furniture, Fixtures &	5,305	_		-	-	-	-	-	5,305
8212	Land/Building Cost/Demolition	4,592	-		-	-	_	-	-	4,592
8214	Legal Publications	80	27	500	500	500	500	500	500	3,107
8224	Operating Supplies	4,800	-	-	-	-	-	-	-	4,800
8226	Permits, Fees, Etc	3,230	691	5,000	5,000	5,000	5,000	5,000	5,000	33,921
8228	Printing, Copying	-	-	500	500	500	500	500	500	3,000
8229	Professional Services	14,944	221,149	289,410	-	-	-	-	-	525,502
8232	Project Management	112,070	34,686	32,311	25,000	25,000	25,000	25,000	25,000	304,066
8233	Real Estate	-		5,000	-	-	_	-		5,000
8234	Repair/Maintenance Supplies	124,331	25,186	+	100,000	50,000	50,000	50,000	50,000	449,518
8236	Soils Investigation	_	-		10,000	10,000	10,000	10,000	10,000	50,000
8238	Surveying	-	-	6,000	3,000	3,000	3,000	3,000	3,000	21,000
8240	Testing And Inspection	6,781	-	50,000	25,000	25,000	25,000	25,000	25,000	181,781
Tota	l Expense	\$2,981,316	\$1,167,398	\$3,451,472	\$4,169,000	\$2,209,000	\$2,099,000	\$1,989,000	\$1,769,000	\$19,835,186
Net Total		_	-	-	-	-	-	-	-	-

Distribution Pipeline Replacement

Project Number: 69 Budget Year: 2020

Division: Transmission/Distribution Council Priority: Infrastructure & Growth- Environmental Infrast'r

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

ProjectDan MooreBudget Unit #:4060088088530000Project Status:Funded

Description:

This will provide replacement and/or rehabilitation of pipes that exhibit extreme corrosion or have an excessive 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. Most projects are replaced using in-house forces.

Discussion of Progress:

Planning Stage Dan the projects we discussed for 20 are 29th St - 23rd to 24th Ave, 4th St 26th Ave Ct to 35th Ave and 19th Ave - 6th St Rd to 7th St and 6th St Rd - 18th Ave to 19th Ave and for year 2021 1st St - 23rd Ave to Mobile home Park Master meter, 400 and 500 block of E 20th St & 1150 N 25th Ave to O St and N 25th Ave (does not include the looping part of the project)

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.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	4,663,648	755,542	861,602	1,368,000	1,370,000	1,200,000	1,200,000	1,200,000	12,618,792
53**	Water Rates	-	-	900,000	-	-	-	-	-	900,000
Tota	l Revenue	\$4,663,648	\$755,542	\$1,761,602	\$1,368,000	\$1,370,000	\$1,200,000	\$1,200,000	\$1,200,000	\$13,518,792
Expense										
8202	Construction	2,218,846	457,464	983,602	580,000	775,000	520,000	720,000	460,000	6,714,911
8203	Construction - City Depts	507,640	90,328	368,000	423,000	230,000	400,000	200,000	460,000	2,678,968
8204	Contingency	2,268	-	110,000	100,000	100,000	100,000	100,000	100,000	612,268
8212	Land/Building Cost/Demolition	-	500	-	-	-	~	~	-	500
8214	Legal Publications	-	31	-	-	-	-	-	-	31
8216	Miscellaneous	9,210	-	-	-	_	-	~	-	9,210
8226	Permits, Fees, Etc	33,705	19,092	10,000	10,000	10,000	10,000	10,000	10,000	112,797
8229	Professional Services	31,500	-	-	-	-	-	-		31,500
8232	Project Management	27,499	6,066	40,000	20,000	20,000	20,000	20,000	20,000	173,565
8234	Repair/Maintenance Supplies	1,832,980	182,061	240,000	200,000	200,000	100,000	100,000	100,000	2,955,042
8236	Soils Investigation	-	-	-	10,000	10,000	10,000	10,000	10,000	50,000
8240	Testing And Inspection	_	-	10,000	25,000	25,000	40,000	40,000	40,000	180,000
Tota	l Expense	\$4,663,648	\$755,542	\$1,761,602	\$1,368,000	\$1,370,000	\$1,200,000	\$1,200,000	\$1,200,000	\$13,518,792
Net Total		-	-	-	_	-	-	~	-	-

Valve Replacement

Project Number: 72

Budget Year: 2020

Division:

Transmission/Distribution

Council Priority:

Infrastructure & Growth- Environmental Infrast'r

Project Type: Fund:

Water Replacement Transmission &

Regions: 0 - All Wards

Water Capital Replacement

Location: Citywide

Project

Paul Tucker

Funded

Budget Unit #: 4060088088500000

Project Status: 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. During cement mortar lining (CML) construction years, the valves in the project area are replaced using this account. Approximately 925 hours (\$20,200) per year is spent on valve turning and the labor cost is charged to the operating budget. The system has approximately 9,200 valves.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3		2019 Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	301,929	99,518	-	100,000	100,000	100,000	100,000	100,000	901,447
53**	Water Rates		-	100,000	-	-	_	_	· -	100,000
Tota	l Revenue	\$301,929	\$99,518	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,001,447
Expense		2								
8202	Construction	-	5,542	-	-	-	_	_	-	5,542
8203	Construction - City Depts	33,640	-	10,000	10,000	10,000	10,000	10,000	10,000	93,640
8208	Furniture, Fixtures &	3,060	-	-	-	-	-	-	, <u> </u>	3,060
8216	Miscellaneous	1,236	-1	2,000	2,000	2,000	2,000	2,000	2,000	13,236
8226	Permits, Fees, Etc	4,525	480	2,000	2,000	2,000	2,000	2,000	2,000	17,005
8234	Repair/Maintenance Supplies	259,467	93,495	86,000	86,000	86,000	86,000	86,000	86,000	,
Tota	l Expense	\$301,929	\$99,518	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	
Net Total		-	-	-	-	_	_	-	-	-

Fire Hydrant Replacement

Project Number: 71

Budget Year: 2020

Division: Transmission/Distribution **Council Priority:** Infrastructure & Growth- Environmental Infrast'r

Project Type: Fund:

Water Replacement Transmission & Water Capital Replacement

Regions: 0 - All Wards Location: Citywide

Project Paul Tucker Funded **Project Status:**

Budget Unit #: 4060088088510000

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 3,200 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.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3		2019					*	
Account	Description	Years	2018 Actual	Revised Budget	2020	2021	2022	2023	2024	Grand Total
Revenue				•						
	Fund Balance	121,526	14,548	-	77,000	77,000	77,000	77,000	77,000	521,074
4464	Labor & Materials	3,735	1,260	-	-	-				4,995
53**	Water Rates	-	-	77,000	-	-	_	-	-	77,000
5812	Damages Recovered	19,533	19,812	_	-	-	_	_	-	39,346
Tota	l Revenue	\$144,795	\$35,620	\$77,000	\$77,000	\$77,000	\$77,000	\$77,000	\$77,000	\$642,415
Expense										
8202	Construction	5,400	-	25,000	25,000	25,000	25,000	25,000	25,000	155,400
8203	Construction - City Depts	22,520	-	13,000	13,000	13,000	13,000	13,000	13,000	100,520
8216	Miscellaneous	1,267	-	4,000	4,000	4,000	4,000	4,000	4,000	25,267
8232	Project Management	2,493	2,092	-	-	-	-	_	-	4,585
8234	Repair/Maintenance Supplies	113,115	33,528	35,000	35,000	35,000	35,000	35,000	35,000	356,643
Tota	ll Expense	\$144,795	\$35,620	\$77,000	\$77,000	\$77,000	\$77,000	\$77,000	\$77,000	\$642,415
Net Total		-	-	•	_	-	-	-	-	-

Meter Replacement

Project Number: 67

Budget Year: 2020

Division:

Transmission/Distribution

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type:

Water Replacement Transmission &

Regions: 0 - All Wards Location:

Fund:

Water Capital Replacement

Citywide

Project

Paul Tucker

Funded

Project Status:

Budget Unit #:

4060088088608863

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:

implementation of Advanced Metering infrastructure (AMI) program. BEACON replacing READ CENTER as our data import and billing software.

Justification:

Meter accuracy is paramount for revenue collection; 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 the ""no-lead"" type. These meters cost approximately 50% more than the current system meters. This new law also requires any meter removed for maintenance be replaced with a no-lead meter. to date, 40% of the meters containing "lead" have been removed. Currently, Finance and IT are building the new interface for BEACON CELLULAR/ADVANCED METERING ANALYTICS, it will take the place of READ CENTER our current data import and billing software. These new meters and end-points are crucial to the AMI program.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	640,193	286,650	7,500	100,000	100,000	100,000	100,000	100,000	1,434,344
53**	Water Rates	-		300,000	-	_	-	-	_	300,000
Tota	l Revenue	\$640,193	\$286,650	\$307,500	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,734,344
Expense										
8208	Furniture, Fixtures &	-	- 		80,000	80,000	80,000	80,000	80,000	400,000
8216	Miscellaneous	-	12,566	15,000	10,000	10,000	10,000	10,000	10,000	77,566
8229	Professional Services	-	10,106	7,500	-	-	_	-	-	17,606
8234	Repair/Maintenance Supplies	640,193	263,978	285,000	10,000	10,000	10,000	10,000	10,000	1,239,172
Tota	l Expense	\$640,193	\$286,650	\$307,500	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,734,344
Net Total		_	-	-	-	-	-	-	-	-

Treated Water Reservoir Rehabilitation

Project Number: 65

Budget Year: 2020

Division:

Transmission/Distribution

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type:

Water Replacement Transmission &

0 - All Wards

Fund:

Water Capital Replacement

Citywide

Project

Dan Moore

Location: Budget Unit #: 4060088088610000

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. The 2019 and 2020 estimates include a sodium hypochlorite replacement for Mosier Hill pump station and 23rd Ave Reservoirs. Inspection and recommendations for repair of

Regions:

Discussion of Progress:

Preparing RFP documents

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

Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3		2019 Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	55,344	36,757	-	185,500	88,500	40,000	40,000	40,000	486,101
53**	Water Rates	-	-	36,000	-	-	-	_		36,000
Tota	l Revenue	\$55,344	\$36,757	\$36,000	\$185,500	\$88,500	\$40,000	\$40,000	\$40,000	\$522,101
Expense										Lucania de la composição
8202	Construction	35,385	-		-	-	-	-	_	35,385
8203	Construction - City Depts	-	-	9,000	15,000	15,000	9,000	9,000	9,000	66,000
8204	Contingency	-	-	2	-	1,000	1,000	1,000	1,000	4,000
8224	Operating Supplies	-	-	1,000	2,000	2,000	2,000	2,000	2,000	11,000
8229	Professional Services	-	228	-	100,000	-	-	-	-	100,228
8232	Project Management	11,536	-	-	-	_	-	-	-	11,536
8234	Repair/Maintenance Supplies	8,424	36,530	26,000	26,000	28,000	28,000	28,000	28,000	208,953
8244	Capital Equipment >\$5,000		-	-	42,500	42,500	_			85,000
Tota	l Expense	\$55,344	\$36,757	\$36,000	\$185,500	\$88,500	\$40,000	\$40,000	\$40,000	\$522,101
Net Total		-	•	-	-	-	-	-	_	-

Capital Outlay Replacement - Water

Project Number: 188

Transmission/Distribution

Water Replacement Transmission &

Fund: Water Capital Replacement Project Paul Tucker Funded **Project Status:**

Budget Year:

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Regions: 0 - All Wards Location: Citywide

Budget Unit #: 4060088088540000

2020

Description:

Division:

Project Type:

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.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue			_							
	Fund Balance	2,330,363	598,723	57,668	490,000	115,000	430,000	800,000	1,211,000	6,032,754
53**	Water Rates	-	-	407,500	-	-	-	-	-	407,500
5801	Sales Of Fixed Assets	124,209	51,270	-		-			-	175,479
Tota	l Revenue	\$2,454,572	\$649,993	\$465,168	\$490,000	\$115,000	\$430,000	\$800,000	\$1,211,000	\$6,615,733
Expense			_							
8142	Construction and Maintenance	1,817,905	392,665	180,000	250,000	-	270,000	420,000	825,000	4,155,570
8144	Transportation/Vehicles	520,161	213,775	227,500	240,000	115,000	110,000	380,000	386,000	2,192,436
8148	Computer	-	11,678	-	-	-	-	-	-	11,678
8149	Other	69,931	23,499	57,668	-	-	50,000	-	-	201,098
8202	Construction	601	-	-	-	-	-	-	-	601
8208	Furniture, Fixtures &	5,367	-	_	-	_	-	-	-	5,367
8216	Miscellaneous	550	-	-	-	-	-	-	-	550
8232	Project Management	38,963	8,377	-	-	-	~	-	-	47,340
8234	Repair/Maintenance Supplies	1,094	-	-	-	-	-	-	-	1,094
Tota	l Expense	\$2,454,572	\$649,993	\$465,168	\$490,000	\$115,000	\$430,000	\$800,000	\$1,211,000	\$6,615,733
Net Total			-	-		-	-	-	-	-

Transmission Line Customers Re-Route

Project Number: 2165

Transmission/Distribution

Project Type: Fund:

Division:

Water Replacement Transmission & Water Capital Replacement

Project Unassigned Funded Project Status:

Budget Year: 2020

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Regions: 5- Outside City

Location: Along the Bellvue Transmission Line

Budget Unit #: 4060088084100000

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.

Discussion of Progress:

New project

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 Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	27,458	-	-	400,000	_	-	-	400,000	827,458
Tota	al Revenue	\$27,458	-	-	\$400,000	-	-	-	\$400,000	\$827,458
Expense										
8202	Construction	-	-	-	400,000	-	-	-	400,000	800,000
8229	Professional Services	22,778	-	-	-	-	-	-	-	22,778
8232	Project Management	4,680	-	-	-	-	-	-	-	4,680
Tota	al Expense	\$27,458	-	=	\$400,000	-	-	-	\$400,000	\$827,458
Net Total		-	-	-	-		-	-	-	-

Advanced Metering Infrastructure

Project Number: 406.42

Funded

Budget Year: 2020

Division:

Depreciation

Council Priority:

Project Type: Fund:

Water Replacement Transmission & Water Capital Replacement

Regions: Location: 0 - All Wards Citywide

Project **Project Status:** Adam Prior

Budget Unit #: 406NewY2

Description:

Advanced metering infrastructure 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. Water savings could be significant and it will increase customer service capabilities.

Discussion of Progress:

Planning

Justification:

Water savings could be significant with the ability to see potential leaks quickly. The ability to identify potential problems with meters will increase the City's customer service and be more proactive with our customer communication, for both conservation efforts and leak mitigation.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3	2019 Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance		-	1,730,000	1,730,000	1,730,000	325,000	325,000	5,840,000
Tota	l Revenue	_		\$1,730,000	\$1,730,000	\$1,730,000	\$325,000	\$325,000	\$5,840,000
Expense								· · · · · · · · · · · · · · · · · · ·	
8202	Construction	-	-	230,000	230,000	230,000	-	-	690,000
8208	Furniture, Fixtures &			1,500,000	1,500,000	1,500,000	325,000	325,000	5,150,000
Tota	l Expense	_	-	\$1,730,000	\$1,730,000	\$1,730,000	\$325,000	\$325,000	\$5,840,000
Net Total		_		-	-	-	-	-	-

W&S Facilities Program

Project Number: 406.13 Budget Year: 2020

Division: Transmission/Distribution Council Priority: Infrastructure & Growth- Public Facilities & Equip

Project Type:Water Replacement Transmission & Regions:0 - All WardsFund:Water Capital ReplacementLocation:CitywideProjectSean ChambersBudget Unit #:Unassigned

Project Status: Funded

Description:

A site or sites will be developed to house Water and Sewer construction crews for water and sewer.

Discussion of Progress:

In the early planning stage

Justification:

The building that the water crews are currently housed in is in poor condition. Additionally, it is not centrally located and staff have significant travel times to get to the west side of the City.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3	2019 Revised							
Account	Description	Years	2018 Actual Budget	2020		2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance				-	200,000	200,000	-		- 400,000
Tota	I Revenue	-			-	\$200,000	\$200,000	-		- \$400,000
Expense										
8202	Construction	-			-	200,000	200,000	-		400,000
Tota	ıl Expense	-			-	\$200,000	\$200,000	-		- \$400,000
Net Total		-			-	-	-	-		



407 – Water Acquisition Fund

Equalizer/Raw Water Storage

Project Number: 584 Budget Year:

Division: Water Capital Improvement Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type: Water Rights Acquisition **Regions:** 5- Outside City

Fund: Water Rights Acquisition Location: Greeley Loveland Irrigation Company land

ProjectAdam JokerstBudget Unit #:4070088088910000

Project Status: Funded

Description:

This phase of the Lower Equalizer project will secure options to purchase existing or potential gravel pits in the Big Thompson drainage or Lower Poudre Drainage near Greeley. The Lower Equalizer Project will exchange reusable wastewater effluent into the gravel pits along with junior water storage rights, in proposed reservoirs in the Big Thompson and Poudre River Basins. Stored water could be pumped back to the GLIC system for non-potable irrigation, or released to provide support for non-potable irrigation, exchanges, and augmentation. These are long-term projects. Studies have shown the necessary storage could range up to 7,000 ac/ft. and cost from \$6,000 to \$8,000 per acre foot, when complete with inlet and outlet works.

2020

Discussion of Progress:

Conceptual phase

Justification:

Project is adding raw water storage capacity as specified in the Water Master Plan.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3		2019 Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue							***			
	Fund Balance	38,121	-	3,850,000	1,600,000	4,987,500	1,270,000	17,894,500	10,727,000	40,367,121
Tota	I Revenue	\$38,121	-	\$3,850,000	\$1,600,000	\$4,987,500	\$1,270,000	\$17,894,500	\$10,727,000	\$40,367,121
Expense										
8202	Construction	-	-	3,500,000	1,100,000	4,750,000	_	16,090,000	9,740,000	35,180,000
8206	Design Fees	-	-	350,000	500,000	-	1,270,000	1,000,000	500,000	3,620,000
8226	Permits, Fees, Etc	-	-	-	-	237,500	_	804,500	487,000	1,529,000
8229	Professional Services	38,121	-	-	_	-	-	-	-	38,121
Tota	l Expense	\$38,121	-	\$3,850,000	\$1,600,000	\$4,987,500	\$1,270,000	\$17,894,500	\$10,727,000	\$40,367,121
Net Total		-	-	-	-	-	-	-	-	-

Overland Trail

Project Number: 1065 Budget Year: 2020

Division: Water Capital Improvement **Council Priority:** Infrastructure & Growth- Environmental Infrast'r

Project Type:Water Rights AcquisitionRegions:5- Outside CityFund:Water Rights AcquisitionLocation:Northwest of Fort Collins

Fund:Water Rights AcquisitionLocation:Northwest of Fort CollinsProjectJennifer PetrzelkaBudget Unit #:4070088088920000Project Status:Funded

Project Status:
Description:

The Overland Trail Gravel Pits are located NW of Fort Collins. Greeley and the Tri-Districts purchased half of the gravel pits from Lafarge in 2004. The other half were owned by individual land owners; Greeley and Tri-Districts are purchasing these pits as they are mined out and lined. Ultimately, Greeley's storage will be 2,343 acre-feet. The pits will be used to store potable supplies for the Bellvue filter plant and to meet return flows required by ditch company acquisition. The costs shown are Greeley's portion to be paid to the Tri-Districts which are creating the storage.

Discussion of Progress:

See description for progress to date.

Justification:

The Water Master Plan intends for the City to develop high quality supplies in the Poudre basin to meet water supply needs prior to the expansion of the Milton Seaman reservoir. The desirable options include building small projects such as the Overland Trail to maximize the value of existing water supplies and of purchased supplies in the future.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3		2019 Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									***************************************	
	Fund Balance	658,506	14,222	446,158	35,000	1,035,000	1,035,000	1,035,000	1,035,000	5,293,887
4341	Local Government Grants	155,138	9,619	-	-	_	-	_	-	164,757
Tota	l Revenue	\$813,644	\$23,841	\$446,158	\$35,000	\$1,035,000	\$1,035,000	\$1,035,000	\$1,035,000	\$5,458,644
Expense					*****				1—1———————————————————————————————————	
8202	Construction	69,800	-	-	-	1,000,000	1,000,000	1,000,000	1,000,000	4,069,800
8212	Land/Building Cost/Demolition	645,410	15,833	411,158	-	-	**	-	-	1,072,401
8229	Professional Services	98,434	8,008	20,000	20,000	20,000	20,000	20,000	20,000	226,442
8232	Project Management	_	-	15,000	15,000	15,000	15,000	15,000	15,000	90,000
Tota	l Expense	\$813,644	\$23,841	\$446,158	\$35,000	\$1,035,000	\$1,035,000	\$1,035,000	\$1,035,000	\$5,458,644
Net Total		-	-	-	-	-	-	-	-	-

Development of Parcel B, Poudre Ponds

Project Number: 842 Budget Year: 2020

Division: Water Capital Improvement **Council Priority:** Infrastructure & Growth- Environmental Infrast'r

Project Type:Water Rights AcquisitionRegions:5- Outside CityFund:Water Rights AcquisitionLocation:35th Ave. North of F St.ProjectLaura PrechelBudget Unit #:4070088088960000

Project Status: Funded

Description:

This is an expansion of gravel pit storage on the Lower Poudre River. In 2011, Greeley exercised an option to purchase partially mined land located south and east of the existing Poudre Ponds. Greeley has a long-term mining and excavation contract with Hall-Irwin to create a lined-gravel pit to the south of Poudre Ponds and to backfill existing ponds which may eventually become artificial wetlands. The city pays for dewatering and reclamation.

Discussion of Progress:

Mining and dewatering operations are ongoing with Hall Irwin at Parcel B. City staff are developing design alternatives for the slurry wall and conveyance facilities of Parcel B, and reclamation of Parcels C and D; reviewing permitting requirements for floodplains and reclamation; and developing the RFP. Bidding will be held early 2019 with design completing in 2019. Construction is slated to begin in fall 2019 and ending in 2020.

The Poudre Ponds Bank Erosion Project will be constructed in conjunction with this project in 2020 for efficiency of funds of constructability purposes.

Justification:

This land purchase will allow Greeley to increase its augmentation storage and recreational opportunities at the Poudre Ponds site. Storage provides water required for augmentation and return flow obligations, as required by water court decrees and existing contractual obligations.

Revenue Detail:

The water fund receives approximately \$70,000 in royalty revenue each year that mining occurs on the site.

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	182,047	887,671	1,135,000	3,150,000	-	-	-	3,600,000	8,954,718
5636	Royalties	1,375,294	38,466	70,000	-	-	-	-	-	1,483,760
Tota	l Revenue	\$1,557,341	\$926,137	\$1,205,000	\$3,150,000	-	_	-	\$3,600,000	\$10,438,477
Expense										
8202	Construction	1,478,422	903,091	640,000	3,000,000	-	-	-	3,500,000	9,521,513
8206	Design Fees	-	-	550,000	-	-	-	-	-	550,000
8214	Legal Publications	-	-	_	500	-	-		500	1,000
8216	Miscellaneous	45	-	-	-	-	-		-	45
8226	Permits, Fees, Etc	2,373	-	_	5,000	-	-	-	5,000	12,373
8228	Printing, Copying	**	-	-	500	-	-	-	500	1,000
8229	Professional Services	26,162	810	-	75,000	-	-	-	50,000	151,972
8232	Project Management	50,339	22,236	15,000	15,000	-	-	-	15,000	117,575
8236	Soils Investigation	-	-	_	4,000		-	-	4,000	8,000
8240	Testing And Inspection	-	-	-	50,000	~	-	-	25,000	75,000
Tota	Expense	\$1,557,341	\$926,137	\$1,205,000	\$3,150,000	*	-		\$3,600,000	\$10,438,477
Net Total		-	-	-	-	-	_		-	-

Future Water Acquisition - Phase II

Project Number: 581 Budget Year: 2020

Division: Water Capital Improvement **Council Priority:** Infrastructure & Growth- Environmental Infrast'r

 Project Type:
 Water Rights Acquisition
 Regions:
 5- Outside City

 Fund:
 Water Rights Acquisition
 Location:
 Citywide

ProjectSean ChambersBudget Unit #:4070088088950000Project Status:Funded

Description:

Greeley needs additional water supplies for growth. Water Acquisition Phase II is acquisition of 10,000 acre-feet of agricultural water supplies. An Enlarged Seaman Reservoir would expand these supplies by another 6,600 acre-feet. Greeley also needs gravel pit storage on the lower Poudre and Big Thompson Rivers to capture reusable effluent in order to extend water supplies. It is estimated that \$90 million is necessary to purchase this water.

Discussion of Progress:

Ongoing budget; reducing budget to reflect the realities of the water rights market.

Justification:

The Water Master Plan intended for the City to develop a \$36 million Future Water Account (FWA) and to generally identify the water supplies needed for acquiring 6,000 acre-feet of potable firm yield. Supplies identified as being the best fit for the Greeley water system are selling to other utilities at a rate such that when Greeley can generate funds from the CIL they may no longer be available for purchase. Therefore, if the City is going to secure water for its future growth, an active acquisition program should be implemented.

Revenue Detail:

The water fund receives varying amounts of revenue by renting the water supplies back to agriculture. The revenue amount varies year to year depending on water availability.

Impact on Operating Budget:

Water assessment fees increase when the city buys additional shares of ditch company water. The cost varies by the water right acquired.

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	12,542,449	-	6,550,000	8,075,000	8,479,000	8,903,000	9,347,000	9,811,000	58,063,955
4724	Expense Reimbursement	-	184	-	-	_	-	-	. ,	184
5759	Other	45,172	-	-	-	_	-	-	_	45,172
5788	Other Private Contribution	-	6,133,000	-	-	_	-	_	-	6,133,000
5801	Sales Of Fixed Assets	-299,128	-322,280	-	-	-	-	_	_	-621,408
5802	Sales Of Other City Asset	149,757	-		-	_	_	_	ж.	149,757
Tota	l Revenue	\$12,438,249	\$5,810,904	\$6,550,000	\$8,075,000	\$8,479,000	\$8,903,000	\$9,347,000	\$9,811,000	
Expense						, , , , , , , , , , , , , , , , , , , ,				~~ ``````````
8212	Land/Building Cost/Demolition	12,312,111	149,719	6,480,000	8,000,000	8,400,000	8,820,000	9,260,000	9,720,000	63,141,830
8229	Professional Services	126,138	17,691	50,000	75,000	79,000	83,000	87,000	91,000	608,829
8233	Real Estate	-	-	20,000	-	_	_			20,000
Tota	l Expense	\$12,438,249	\$167,410	\$6,550,000	\$8,075,000	\$8,479,000	\$8,903,000	\$9,347,000	\$9,811,000	
Net Total		-	\$5,643,494	-	_	-	-	-	-	-

Larimer & Weld/New Cache Companies Change Case

Project Number: 2164

Budget Year: 2020

Division:

Water Capital Improvement Water Rights Acquisition

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type: Fund:

Water Rights Acquisition

Regions: 0 - All Wards Location: Citywide

Project

Jennifer Petrzelka

Funded

Budget Unit #:

4070088084150000

Project Status: Description:

File water court application, complete engineering and obtain decree for the change of use of unchanged Larimer and Weld Companies.

Discussion of Progress:

No additional information

Justification:

Ditch and reservoir company shares can only be used for municipal uses including augmentation and replacing return flows if they have been changed in court.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL Account	Description	Previous 3 Years	2019 Revised 2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance	16,136	31,538 368,462	200,000	200,000	200,000	200,000	200,000	1,416,136
Tota	al Revenue	\$16,136	\$31,538 \$368,462	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,416,136
Expense									
8229	Professional Services	16,136	31,538 368,462	200,000	200,000	200,000	200,000	200,000	1,416,136
Tota	ıl Expense	\$16,136	\$31,538 \$368,462	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,416,136
Net Total		-	-	-	-	-	-	-	-

Leprino Produced Water Claim

Project Number: 2163 Budget Year: 2020

Division: Water Capital Improvement **Council Priority:** Infrastructure & Growth- Environmental Infrast'r

Project Type:Water Rights AcquisitionRegions:0 - All WardsFund:Water Rights AcquisitionLocation:Citywide

Project Jennifer Petrzelka Budget Unit #: 4070088084140000

Project Status: Funded

Description:

File water court application, complete engineering and obtain decree to claim credit for water produced as a result of cheese production process.

Discussion of Progress:

No additional information

Justification:

As a part of the contract to provide water to Leprino, Greeley is responsible for filing an application to claim the credit for water developed as a result of the production of cheese from milk.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL	5	Previous 3	2019 Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance	107,289	30,328 200,000	100,000	-	-	-		- 437,617
Tota	al Revenue	\$107,289	\$30,328 \$200,000	\$100,000	-	-	-		- \$437,617
Expense									
8229	Professional Services	107,289	30,328 200,000	100,000	-	-			- 437,617
Tota	al Expense	\$107,289	\$30,328 \$200,000	\$100,000	-	-	-		- \$437,617
Net Total		-		-	-	-	-		

Water Supply & Storage Change Case Ph 2

Project Number: 407.3

Water Capital Improvement

Budget Year: 2020 **Council Priority:**

Division: Project Type:

Water Rights Acquisition

0 - All Wards Regions:

Fund:

Water Rights Acquisition Jen Petrzelka

Citywide Location: Budget Unit #: 407NewY1

Project **Project Status:**

Funded

Description:

File water court application, complete engineering and obtain decree for the change of use of unchanged Water Supply and Storage Company (WSSC) shares.

Discussion of Progress:

Planning

Justification:

Ditch company shares can only be used for municipal uses such as treatment, augmentation and return flow obligations if they have been changed in water court.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3	2019 Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance			150,000	150,000	150,000	-		- 450,000
Tota	l Revenue	-		\$150,000	\$150,000	\$150,000	-		- \$450,000
Expense									
8229	Professional Services	-		150,000	150,000	150,000	-		- 450,000
Tota	l Expense	-		\$150,000	\$150,000	\$150,000	-		- \$450,000
Net Total		-		-	_	-	-		-



402 – Sewer New Construction Fund

North Greeley Sewer Phase 2A

Project Number: 348

Sewer Capital Improvement

Budget Year:

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Division: Project Type:

Sewer Construction Collection

Regions:

1- 16 St North/35 Ave East

Fund:

Sewer Construction

Justin Scholz

Location:

US 85 from H St. to Treatment Plant

Project **Project Status:** Funded Budget Unit #: 4020083083210000

2020

Description:

Construction of 7400 LF of 36" sewer main from 11th Avenue and H Street along the Poudre River to the East Greeley Interceptor. Project consists of 2 river crossings and bored crossings of 8th Avenue, Union Pacific Railroad, and 6th Avenue. Approximately 1300lf of Phase IIA will be constructing in 2018. The remainder is planned to be constructed in 2021 depending on development need. The 2020 scope includes re-permitting the project, revising the bid documents to address scope revisions, and Subsurface utility investigation required as a part of new State Regulations.

Discussion of Progress:

No additional information

Justification:

At the present time the existing sewer line has roughly the capacity for approximately 850 persons or 350 homes. Significant development north of O Street would signal a need for the building of the phase 2 portion of the pipeline.

Revenue Detail:

No additional information

Impact on Operating Budget:

CI		Duradaaa 2		2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	478,455	613,813	2,558,253	-	-	-	160,000	5,610,000	9,420,521
Tota	l Revenue	\$478,455	\$613,813	\$2,558,253	-	-	-	\$160,000	\$5,610,000	\$9,420,521
Expense										
8202	Construction	22,210	514,072	2,486,827	-	-	-	-	5,446,000	8,469,109
8206	Design Fees	237,161	45,233	2,879	-	-	-	70,000	-	355,273
8212	Land/Building Cost/Demolition	78,032	26,944	28,045	-		-	-	-	133,020
8214	Legal Publications	109	-		-	-	_	-	-	109
8216	Miscellaneous	72	-	-	-	-	-	~		72
8226	Permits, Fees, Etc	3,086	-	-	-	-	-	10,000	-	13,086
8229	Professional Services	17,660	6,049	40,002	-	-	-	65,000	50,000	178,710
8232	Project Management	85,558	16,517	-	-	-	-	10,000	40,000	152,075
8233	Real Estate	-	-	500	-	-	-	-	-	500
8238	Surveying	-	-	-	-	-	-	5,000	-	5,000
8240	Testing And Inspection	68	-	-	-	-	_	_	20,000	20,068
9303	Public Art Fund	34,500	5,000	-	-	-	_	_	54,000	93,500
Tota	l Expense	\$478,455	\$613,813	\$2,558,253	-	-		\$160,000	\$5,610,000	\$9,420,521
Net Total		_		-	_	_		-	-	-

Additional Sanitary Sewer Manholes

Project Number: 184 Budget Year: 2020

Division: Sewer Capital Improvement Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type:Sewer Construction CollectionRegions:0 - All WardsFund:Sewer ConstructionLocation:Citywide

 Project
 Justin Scholz
 Budget Unit #:
 4020083083108312

 Project Status:
 Funded

Description:

This program constructs new manholes that are found to be necessary for safe and efficient access to the sanitary sewer system. As existing sewer lines are inspected, the need for new manholes is often discovered in sewer lines that have limited access, such as cul-de-sacs or line intersections without manholes. The installation of additional manholes allows staff to clean and flush sewer lines efficiently.

Discussion of Progress:

Annual program

Justification:

As existing sewer lines are inspected, the need for constructing new manholes is discovered ,e.g. cul-de-sac with no manholes, lines intersecting with no manholes, and any other sites where access is required. Without the installation of new manholes the system cannot be properly flushed and cleaned which could lead to backups.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	15,962	-		53,000	53,000	53,000	53,000	53,000	280,962
4611	Plant Investment Fees	-		55,000	-	_	-	-	-	55,000
Tota	l Revenue	\$15,962	-	\$55,000	\$53,000	\$53,000	\$53,000	\$53,000	\$53,000	\$335,962
Expense										
8202	Construction	10,286	-	_	-	-	-	-	-	10,286
8203	Construction - City Depts	-	-	10,000	10,000	10,000	10,000	10,000	10,000	60,000
8224	Operating Supplies	139	-	-	-	-	_	-	-	139
8226	Permits, Fees, Etc	-	-	-	500	500	500	500	500	2,500
8229	Professional Services	-	-	5,000	1,500	1,500	1,500	1,500	1,500	12,500
8232	Project Management	-	~	-	1,000	1,000	1,000	1,000	1,000	5,000
8234	Repair/Maintenance Supplies	5,537	-	40,000	40,000	40,000	40,000	40,000	40,000	245,537
Tota	l Expense	\$15,962	-	\$55,000	\$53,000	\$53,000	\$53,000	\$53,000	\$53,000	\$335,962
Net Total		-	-	-	_	-	-	-	-	-

Sewer Taps

Project Number: 234

Budget Year: 2020

Division:

Sewer Capital Improvement

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type:

Sewer Construction Collection

Regions: 0 - All Wards Location:

Fund:

Sewer Construction

Citywide

Project Paul Tucker **Project Status:** Funded

Budget Unit #: 4020083083108311

Description:

This program installs sewer taps for new homes. City crews tap the sewer main and complete the installation of the sewer tap. Due to poor quality work by contractors, the City does not allow contractors to install sewer or water taps.

Discussion of Progress:

Annual program

Justification:

Water and Sewer specifications require city personnel to make new taps on existing sewer collection mains.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3	2019 Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance	-	5,005 -	10,000	10,000	10,000	10,000	10,000	54,383
4464	Labor & Materials	13,053	3,979 -	-	-	_	-	-	17,032
4611	Plant Investment Fees		- 10,000	-	-	_	-	-	10,000
Tota	ıl Revenue	\$13,053	\$8,984 \$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$81,415
Expense									
8202	Construction	12,431	4,912 -	-	-	-	_	-	17,342
8234	Repair/Maintenance Supplies	-	4,072 10,000	10,000	10,000	10,000	10,000	10,000	64,072
Tota	il Expense	\$12,431	\$8,984 \$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$81,415
Net Total		\$622		-	-	-		_	-

Poudre Trunk Phase 2

Project Number: 544 Budget Year: 200

Division: Sewer Capital Improvement Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type: Sewer Construction Collection **Regions:** 4 - 10 St North/23 Ave West

Fund: Sewer Construction Location: Poudre River from 83rd Ave. to 120th Ave.

Project Peter Champion Budget Unit #: 4020083083250000

Project Status: Funded

Description:

Design and construct 6,200 feet of 27 inch sewer trunk main along the Poudre River from 83rd Avenue west to 95th Avenue and 4,300 of 18 inch sewer trunk main in 95th Avenue south to 4th Street. This trunk line would serve developments north of 10th street and west of 83rd avenue. This project scheduled for design in 2017 and construction in 2020. Includes Ditch crossing, traffic control 83rd Avenue Crossing 3 transmission lines, Ground water assumed in WCR 62. Design planned to start in early 2018.

Discussion of Progress:

Stantec has completed the basin study and proposed 3 possible alignments of the sewer trunk main. City of Greeley has selected the most desirable alignment to move forward with design. Stantec has completed the survey and potholing for utilities along the desired alignment. Design of the sewer main has commenced and Stantec will supply 30% design documents for review.

Justification:

The trunk would provide sewer service to developments north of 10th Street. No sewer service is available currently to serve this area.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	5,000	124,813	290,186	1,622,100	-	-	-	_	2,042,099
Tota	l Revenue	\$5,000	\$124,813	\$290,186	\$1,622,100	-	-	-	-	\$2,042,099
Expense										
8202	Construction	-	-	-	1,500,000	-	-	~	_	1,500,000
8206	Design Fees	-	117,811	101,188	_	~	-	~	-	218,999
8212	Land/Building Cost/Demolition	-	-	127,000	-	-	-	~	-	127,000
8214	Legal Publications	-	26	-	1,000	-	-	-	_	1,026
8216	Miscellaneous	-	-	1,486	5,000	_	-	-	-	6,486
8229	Professional Services	-	-	30,000	-	-	-	-	_	30,000
8232	Project Management	-	6,976	26,512	30,000	_		-	-	63,488
8233	Real Estate	-	-	4,000	-	-	~	-	-	4,000
8236	Soils Investigation	-	-	-	20,000	-		-	-	20,000
8240	Testing And Inspection	-	-	-	50,000	-	-	~		50,000
9303	Public Art Fund	5,000	-	_	16,100	-	-	-	_	21,100
Tota	l Expense	\$5,000	\$124,813	\$290,186	\$1,622,100	-	-	-	-	\$2,042,099
Net Total		-	-	-	-		-	-	-	-

Ashcroft Draw Basin Lift Station

Project Number: 402.41

Sewer Capital Improvement

Budget Year: 2020

Division:

Council Priority: Infrastructure & Growth- Environmental Infrast'r Regions:

Project Type: **Sewer Construction Collection** Fund: **Sewer Construction**

3- 10 St South/23 Ave West

Project Cadee Oakleaf Project Status: Funded

65th Ave. & 37th St. 4020083008830000

Description:

Construction of a new sanitary sewer lift station to serve portions of the City of Greeley tributary to the Ashcroft Draw Basin including St Michaels.

Location:

Budget Unit #:

Discussion of Progress:

Design 2019 Construction 2020

Justification:

The project is required to insure reliable future sanitary sewer service to portions of the City of Greeley tributary to the City of Evans. Upgrades to the Evans Hill and Park Plant has significantly increased sanitary sewer rates making it more cost effective for the City to treat flows within the Basin.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	-	· .		3,030,000	-	-	-		3,030,000
4611	Plant Investment Fees		·	770,000	-	_	-	-		770,000
Tota	l Revenue	-	-	\$770,000	\$3,030,000	-	-	-		\$3,800,000
Expense										
8202	Construction	-	-	212,800	2,900,000	-	-	-		3,112,800
8206	Design Fees	-	· -	300,000	-	-	-	-	-	300,000
8212	Land/Building Cost/Demolition	-	-	150,000	-	-	-	-	-	150,000
8226	Permits, Fees, Etc	-		10,000	-	-	-	-	-	10,000
8229	Professional Services		-		60,000	-	-	-	-	60,000
8232	Project Management	-		40,000	50,000	-	-	-	-	90,000
8233	Real Estate	-	-	5,000	-	-	-	-		5,000
8240	Testing And Inspection	-		_	20,000	-	-		-	20,000
8242	Utility Services	-		50,000	-	-	-	_		50,000
9303	Public Art Fund	-		2,200	_	-	-	_		2,200
Tota	l Expense	-	-	\$770,000	\$3,030,000	-	-	-	-	\$3,800,000
Net Total				-	-	_	-	-	-	_



403 – Sewer Replacement Fund

Sewer Collection System Rehabilitation

Project Number: 66

2020 **Budget Year:**

Regions:

Division:

Wastewater Collection Sewer Replacement Collection **Council Priority:** Infrastructure & Growth- Environmental Infrast'r

Project Type:

0 - Ali Wards

Fund: Project Sewer Capital Replacement

Location: Citywide

Project Status:

Justin Scholz Budget Unit #:

4030083083500000

Description:

This is an ongoing program to physically replace undersized lines in the sewer collection system. The City typically replaces two to three blocks of line each year, focusing on the worst problem areas. The budget has been consolidated with Manhole Rehabilitation (403-00-830-8373-0000) which includes rehabilitation of various manholes with severe corrosion issues using cementitious materials. The manhole rehabilitation scope has been reduced because all brick manholes to be lined have been coated. As inspections are performed and manholes requiring coating are identified they will be added to a list until there are enough manholes to justify mobilizing a contractor.

Discussion of Progress:

Ongoing annual program

Funded

Justification:

This program was identified as a high priority in the 2008 Sanitary Sewer Master Plan (SSMP). The master plan identified lines six inches or smaller that could not be properly maintained and identified compound taps for elimination. Completion of these projects will improve services to underserved customers and clarify ownership and maintenance responsibilities of customer service lines.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	420,837	358,358	-	60,000	170,000	114,000	125,000	125,000	1,311,195
51**	Sewer Rates	-	-	360,000		-	_	-	-	360,000
Tota	l Revenue	\$420,837	\$358,358	\$360,000	\$60,000	\$170,000	\$114,000	\$125,000	\$125,000	\$1,671,195
Expense										
8202	Construction	281,344	246,610	200,000	-	-	70,000	125,000	125,000	1,047,954
8203	Construction - City Depts	-	4,659	10,000	_	65,000	15,000	_	-	94,659
8206	Design Fees	64,327	-	30,000	40,000	10,000	-	-	-	144,327
8216	Miscellaneous	-	26	_	-	-	-	-	-	26
8226	Permits, Fees, Etc	1,908	2,125	5,000	1,000	2,000	500	-	-	12,533
8229	Professional Services	-	-	20,000	15,000	20,000	10,000	-	-	65,000
8232	Project Management	52,987	10,156	1	4,000	8,000	3,500	-	-	78,643
8234	Repair/Maintenance Supplies	19,402	94,782	13,000	-	65,000	15,000	-	-	207,184
8238	Surveying	-	-	15,000	-	-	_	-	-	15,000
8240	Testing And Inspection	869	-	5,000	-	_	-	-	_	5,869
Tota	l Expense	\$420,837	\$358,358	\$298,000	\$60,000	\$170,000	\$114,000	\$125,000	\$125,000	\$1,671,195
Net Total		-	-	\$62,000	-	-	_	-	-	-

Trenchless Main and Collector Rehabilitation

Project Number: 795 Budget Year: 2020

Division: Wastewater Collection Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type: Sewer Replacement Collection Regions: 0 - All Wards
Fund: Sewer Capital Replacement Location: Citywide

 Project
 Laura Prechel
 Budget Unit #:
 4030083083700000

 Project Status:
 Funded

Description:

This annual program renews about 1% of the sewer system using cured-in-place pipe. The program focuses on the sewers in the worst condition as identified by the City's TV inspection and by maintenance records. The criteria which the priority for lining projects has been modified to evaluate the likelihood and consequences of a sewer main failing creating a risk rating.

Discussion of Progress:

The City of Greeley is under contract with Insituform to complete the 2018 CIPP work. The 2018 CIPP contract was the first year of a three year renewable contract. The City has provided Insituform with the 2019 scope and is anticipating pricing by the end of January.

Justification:

Each year Sewer Collection identifies existing piping that has severe corrosion issues and rehabilitates that pipe using a cure in place process. If the pipe is not rehabilitated there is the possibility of collapse and sanitary sewer overflows on the streets. This process allows staff to rehabilitate older sewer lines without excavating the street and minimizing disruption to its customers..

Revenue Detail:

No additional information

Impact on Operating Budget:

Lining sewer pipe has reduced expensive emergency pipe repairs.

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	1,847,972	177,479	66,518	510,000	420,000	420,000	420,000	420,000	4,281,969
51**	Sewer Rates		-	584,000	-	-	-	-	-	584,000
Tota	l Revenue	\$1,847,972	\$177,479	\$650,518	\$510,000	\$420,000	\$420,000	\$420,000	\$420,000	\$4,865,969
Expense										
8202	Construction	1,820,785	162,034	620,518	475,000	400,000	400,000	400,000	400,000	4,678,337
8206	Design Fees	-	-].	-	10,000	-	-	-	-	10,000
8214	Legal Publications	82	34	-	-	-	-	-	-	116
8224	Operating Supplies	7	-	-	-	-	-	-	-	7
8226	Permits, Fees, Etc	65	-	-	5,000	-	-	_	-	5,065
8232	Project Management	27,034	15,411	15,000	20,000	20,000	20,000	20,000	20,000	157,445
8240	Testing And Inspection		-	15,000	_	-		-	-	15,000
Tota	l Expense	\$1,847,972	\$177,479	\$650,518	\$510,000	\$420,000	\$420,000	\$420,000	\$420,000	\$4,865,969
Net Total		-	-		-	-	-	-	-	_

WWC Sewer System Rehabilitation

Project Number: 1043 Budget Year: 2020

Division: Wastewater Collection Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type:Sewer Replacement CollectionRegions:0 - All WardsFund:Sewer Capital ReplacementLocation:Citywide

Project Paul Tucker & Justin Scholz Budget Unit #: 4030083083880000

Project Status: Funded

Description:

This program covers repairs of sanitary sewer manholes and main lines done by Wastewater Collection crews. Examples of these repairs include replacement of existing manholes, point repairs to main lines, purchase of frames and covers, miscellaneous repair parts, drop repairs and installations, channel repairs and other needed repairs to existing infrastructure. The replacement of manhole frames and covers during the City's Asphalt Overlay program are also included. This budget has been consolidated with Lift Station Rehabilitation (403-00830-8376-0000) which historically addressed upgrades to existing lift stations as identified by the lift station master plan. Needs from this study have been addressed; however, there is an on going need for maintenance of these lift stations to insure they are operating efficiently.

Discussion of Progress:

Ongoing annual program.

Justification:

The existing manholes covers, frames and barrels are damaged over time by traffic. Collections staff investigate existing sanitary systems prior to work being completed by the City's Asphalt Overlay program. The program provides funding for any repairs needed to the sewer collection system and existing lift stations.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue			_				,		· · · · · · · · · · · · · · · · · · ·	
	Fund Balance	122,305	133,392	13,500	200,000	160,000	160,000	160,000	160,000	1,109,197
51**	Sewer Rates	_		184,000	_	-		-	-	184,000
Tota	l Revenue	\$122,305	\$133,392	\$197,500	\$200,000	\$160,000	\$160,000	\$160,000	\$160,000	\$1,293,197
Expense			_							
8202	Construction	57,496	5,084	20,000	40,000	10,000	10,000	10,000	10,000	162,580
8203	Construction - City Depts	-	-	23,500	5,000	5,000	5,000	5,000	5,000	48,500
8208	Furniture, Fixtures &	-	3,128	-	-	-	-	-	-	3,128
8226	Permits, Fees, Etc	-	1,295	10 mg -	-	-	-	-	-	1,295
8228	Printing, Copying	39	-	_	-	-	-	-	-	39
8232	Project Management	-	-	_	5,000	5,000	5,000	5,000	5,000	25,000
8234	Repair/Maintenance Supplies	64,770	73,211	77,000	105,000	95,000	95,000	95,000	95,000	699,982
8244	Capital Equipment >\$5,000	_	50,674	77,000	45,000	45,000	45,000	45,000	45,000	352,674
Tota	l Expense	\$122,305	\$133,392	\$197,500	\$200,000	\$160,000	\$160,000	\$160,000	\$160,000	\$1,293,197
Net Total		-	-	-	-		-	-	-	-

Wastewater Flow Monitoring Program

Project Number: 1048

Budget Year: 2020

Regions:

Division: Wastewater Collection

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type: Fund: Sewer Replacement Collection Sewer Capital Replacement 0 - All Wards Citywide

Project Justin Scholz

Location: Citywide
Budget Unit #: 4030083083810000

Project Status: Funded

Description:

Staff will install flow meters on major sewer collection trunk lines throughout the city to monitor flows on its major sewer trunk mains. The monitoring of these flow will help determine the locations of concentrated maintenance efforts.

Discussion of Progress:

Planning

Justification:

The recorded collection system flows will be used in the City's sanitary sewer model to help determine the operational capacities of the sewer system and focus maintenance efforts.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	62,291	8,945	-	50,000	50,000	50,000	50,000		271,236
51**	Sewer Rates	-	-	50,000	_	-	_	-		50,000
Tota	l Revenue	\$62,291	\$8,945	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000		\$321,236
Expense										
8202	Construction	-	3,072	-	-	-	-	_		3,072
8203	Construction - City Depts	1,000	2,156	-	-	-	-	_		3,156
8208	Furniture, Fixtures &	17,331	-	_	-	_	-	_		17,331
8226	Permits, Fees, Etc	-	130	-	-	_	-	_		- 130
8229	Professional Services	6,756	367	50,000	50,000	50,000	50,000	50,000		257,123
8232	Project Management	2,193	3,219	-	-	_	-	-		5,412
8234	Repair/Maintenance Supplies	3,880	-	_	-	-	-	-		3,880
8244	Capital Equipment >\$5,000	31,130	-1	-	-	-	-	_		31,130
Tota	l Expense	\$62,291	\$8,945	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000		\$321,236
Net Total		-	~	-	-	-	_	-		-

General Rehabilitation Projects

Project Number: 349

Budget Year: 2020

Location:

Division:

Wastewater Treatment

Council Priority: Infrastructure & Growth- Environmental Infrast'r Regions:

Project Type:

Sewer Replacement Treatment

1- 16 St North/35 Ave East

Fund:

Sewer Capital Replacement

Project

Cadee Oakleaf

Water Pollution Control Facility - 300 E 8th St

Project Status: Funded Budget Unit #: 4030083083750000

Description:

Includes a variety of projects that includes such work as the replacement, rehabilitation, or overhaul of large pumps, valves, actuators, motors, centrifuge units, gear boxes, air handling units, heat exchangers, bar screens, variable frequency drive units, turbo blowers, plant road repairs, landscaping rehab for storm water program, roll-up doors, uninterrupted power supply units (UPS), equipment sensors, UV disinfection lamps & ballasts, building roofs, chemical tanks, etc.

Discussion of Progress:

Annual program. Approximately 50% of all planned rehab projects for 2018 have been completed. Work completed so far in 2018 includes some necessary turbo blower repairs, replacement of the plant's main power monitoring meter PSWG5, replacement parts for the UV disinfection system, valve replacements in the digester building, replacement of a 30-year old microscope, replacement of an HVAC unit for the Demon Process building, replacement of a gas booster pump, replacement of a raw sewage level sensor, and rehab of a raw sewage pump motor. Other projects planned for the year include rehab of the DS-706 dewatering centrifuge, additional equipment for the Demon Process, a replacement control panel for the ultraviolet disinfection system, a replacement radar control system for stream monitoring gauging station, and a wastewater collection system sampling project that commences in November. About 80% of the 2018 planned were completed. The remaining projects will be done in 2019. Delays in completing a few projects were attributed to a long lead time on some equipment and vendor scheduling conflicts.

Justification:

Manufacturer's recommendations, equipment performance, downtime, and repair history; equipment life expectancies; inability to find replacement parts, etc. all enter into the decision as to whether or not a particular item needs to be replaced, repaired, or refurbished. Rehab funds are budgeted annually so that the plant maintenance staff can stay abreast of the need to address aging equipment and infrastructure at the WPCF. Not replacing aging or energy-consuming equipment in a timely manner may result in higher O&M costs, excessive downtime for repairs, and treatment process disruptions. These could result in potential permit noncompliances.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue						1				
	Fund Balance	945,704	297,957	634,432	731,200	920,200	841,200	807,200	922,200	6,100,093
51**	Sewer Rates	-	-	350,000	-	-	-	-	-	350,000
5812	Damages Recovered	3,987	-		-	-	-	-	-	3,987
Tota	l Revenue	\$949,691	\$297,957	\$984,432	\$731,200	\$920,200	\$841,200	\$807,200	\$922,200	\$6,454,080
Expense										
8202	Construction	160,778	41,704	313,932	347,000	600,000	550,000	550,000	800,000	3,363,414
8206	Design Fees	-	-1	=	-	-	-	100,000	-	100,000
8208	Furniture, Fixtures &	193,156	82,243	102,755	80,000	80,000	86,000	85,000	-	709,154
8212	Land/Building Cost/Demolition	2,640	-	_	-	-	-	_	100,000	102,640
8214	Legal Publications	181	26	300	200	200	200	200	200	1,507
8229	Professional Services	267,757	51,778	182,817	50,000	80,000	105,000	22,000	22,000	781,352
8232	Project Management	8,123	-	-	-	-	-	-	_	8,123
8234	Repair/Maintenance Supplies	9,593	11,168	80,000	74,000	115,000	-	-	-	289,761
8238	Surveying	1,158	-	-	-	_	-	-	_	1,158
8244	Capital Equipment >\$5,000	306,305	111,038	304,628	180,000	45,000	100,000	50,000	-	1,096,971
Tota	l Expense	\$949,691	\$297,957	\$984,432	\$731,200	\$920,200	\$841,200	\$807,200	\$922,200	
Net Total		-	-	-	-	-	-	-	-	-

WPCF SCADA System Upgrade

Project Number: 403.12 Budget Year: 2020

Division: Wastewater Treatment Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type: Sewer Replacement Treatment Regions: 1- 16 St North/35 Ave East

Fund: Sewer Capital Replacement Location: Water Pollution Control Facility - 300 E 8th St

Project Adam Prior, Cadee Oakleaf Budget Unit #: 4030083083560000

Project Status: Funded

Description:

This project replaces existing programmable logic controllers (PLC's), ancillary equipment, communication cables, and control system for the Water Pollution Control Facility's (WPCF) SCADA (Supervisory Control and Data Acquisition) system. Design work will commence in 2018.

Discussion of Progress:

A SCADA evaluation study was completed in 2017 and 2018.

Justification:

An equipment inventory by Rockwell, in December 2016, indicated 41% of the hardware was at end of life cycle or discontinued products, 51% was active mature products, and only 8% active products. This project will upgrade all PLC's and ancillary equipment and the operating system to provide long term reliable operation of the plant processes and data logging. The equipment and operating system will be the same as the water treatment plants providing unity of parts, familiarity of system structure, and programming. The 2017 SCADA evaluation study concurred with the conclusions and recommendation presented in the Rockwell report.

Revenue Detail:

No additional information

Impact on Operating Budget:

			2019						
GL		Previous 3	Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue								***************************************	
	Fund Balance	-	- 133,000	240,000	25,000	25,000	-		423,000
51**	Sewer Rates		- 1,750,000	-	-	-	-		1,750,000
Tota	l Revenue		- \$1,883,000	\$240,000	\$25,000	\$25,000	-		\$2,173,000
Expense									
8202	Construction	-	- 1,705,000	200,000	-		~		1,905,000
8203	Construction - City Depts	-		25,000	-	_	-		25,000
8206	Design Fees	-	- 130,000	_	-	_	-		130,000
8229	Professional Services	-	- 35,000	10,000	20,000	20,000	_		85,000
8232	Project Management		- 13,000	5,000	5,000	5,000	_		28,000
Tota	l Expense	_	- \$1,883,000	\$240,000	\$25,000	\$25,000	-	-	\$2,173,000
Net Total		_		-	~	-			-

Instrumentation and Controls - Wastewater

Project Number: 403.13 Budget Year: 2020

Division: Wastewater Treatment **Council Priority:** Infrastructure & Growth- Environmental Infrast'r

Project Type: Sewer Replacement Treatment **Regions:** 0 - All Wards

Fund: Sewer Capital Replacement Location: Water Pollution and Control and Across the Sewer Collection System

Project Adam Prior, Cadee Oakleaf Budget Unit #: 4030083008840000

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 wastewater collections and the WPCF, including recording data required by regulation and measurement and control of various treatment equipment. This is an on-going project.

Discussion of Progress:

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 wastewater collection and treatment facilities.

Revenue Detail:

No additional information

Impact on Operating Budget:

			2019						
GL		Previous 3	Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance		- 75,000	75,000	75,000	75,000	75,000	75,000	450,000
Tota	I Revenue		- \$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$450,000
Expense									
8208	Furniture, Fixtures &	-		5,000	5,000	5,000	5,000	5,000	25,000
8229	Professional Services	-	- 20,000	20,000	20,000	20,000	20,000	20,000	120,000
8234	Repair/Maintenance Supplies	-	- 5,000	30,000	30,000	30,000	30,000	30,000	155,000
8244	Capital Equipment >\$5,000		- 50,000	20,000	20,000	20,000	20,000	20,000	150,000
Tota	l Expense	-	- \$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$450,000
Net Total				-	**	-	-	-	-

WPCF Stream Temperature Assessment

Project Number: 403.5 Budget Year:

Division: Wastewater Treatment **Council Priority**: Infrastructure & Growth- Environmental Infrast'r

Project Type: Sewer Replacement Treatment Regions: 1- 16 St North/35 Ave East

 Fund:
 Sewer Capital Replacement
 Location:
 300 E 8th St

 Project
 Jeremy Woolf
 Budget Unit #:
 4030083084201122

Project Status: Funded

Description:

This project is a continuation of work that was begun in 2015 in which a pre-hearing statement was prepared and submitted to the Colorado Department of Public Health & Environment (CDPHE). The statement was based in part on a lack of evidence relating in-stream temperature to aquatic life health. It outlines the next steps to eliminate 'uncertainty' in the local stream temperature standards. The ongoing assessment study further investigates the 'uncertainty' regarding the water quality stream standards necessary to protect current and future uses. Proposed work includes additional temperature data assessment, aquatic life data collection and analysis, feasibility studies that analyzes possible alternative temperature management strategies, and regulatory support. Additional fish and benthic data may need to be collected over the next few years per CDPHE's recommendations. Subcontractors may need to be hired to assist with sampling and data analysis.

2020

Discussion of Progress:

Stream temperature monitoring is ongoing.

Justification:

Failure to meet the current water quality stream standards for temperature may result in the WPCF having to spend several million dollars to design and construct evaporative cooling towers or some other technology to effectively cool the final treated effluent from the wastewater treatment plant prior to its discharge into Segment 12 of the Cache la Poudre River. This technology would be required to meet the current stream standards for temperature. Plant data collected over the past several years indicate that the plant's treated effluent exceeds the current stream standards for this segment of the River often throughout the year. A temporary modification request was granted in 2015 by the CDPHE. The ultimate goal of this study is to receive site specific standards for stream temperature, a variance, or possibly do water quality trading with an industry after December 2020.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3	2019 Revised						
Account	Description	Years	2018 Actual Budget	2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance	111,107	14,996 118,652	150,000	75,000	-	-		- 469,755
51**	Sewer Rates		- 75,000	-	-	-	-		- 75,000
Tota	l Revenue	\$111,107	\$14,996 \$193,652	\$150,000	\$75,000	_	-		- \$544,755
Expense									
8206	Design Fees	-	- 75,000	75,000	-	-	-		- 150,000
8229	Professional Services	111,107	14,996 118,652	75,000	75,000	-	_		394,755
Tota	il Expense	\$111,107	\$14,996 \$193,652	\$150,000	\$75,000	-	_		- \$544,755
Net Total		_		-	-	-	-		

Nitrification Project Phase 2

Project Number: 781

Budget Year: 2020

Division: Wastewater Treatment

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type: Se

Sewer Replacement Treatment Regions:

1- 16 St North/35 Ave East

Fund:

Sewer Capital Replacement Justin Scholz, Cadee Oakleaf Water Pollution Control Facility - 300 E 8th St

Project Status: Justin So Project Status: Funded Budget Unit #: 4030083083410000

Description:

Phase II would include upgrades to the wastewater treatment plant's four aeration basins to provide for biological nutrient reduction (BNR). This project is necessary in order for the WPCF to comply with State of Colorado nutrients regulations promulgated in 2012. The plant will likely have more stringent nutrient limits for total inorganic nitrogen and total phosphorus in its discharge permit by late 2018 or 2019. The construction phase may include one new aeration basin, new gates for the existing basins, new mixed liquor return piping, new return activated sludge pump station, new external anaerobic & anoxic basins, new mixing equipment for de-nitrification, and additional on-line instrumentation.

Discussion of Progress:

The City is under contract for design services with Carollo Engineers. Completion of this project is anticipated by late 2021 or 2022.

Location:

Justification:

This project is driven by the 2012 Colorado Nutrients Regulations which will require the WPCF to comply with total inorganic nitrogen (TIN) and total phosphorus (TP) limits soon after the plant's discharge permit is renewed in 2019. Project costs have increased to account for current conditions and provide required capacity to meet Regulation 85. Pre-design work for this project commenced in late 2018.

Revenue Detail:

No additional information

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	-	25,200	1,879,799	20,411,490	401,000	-	-		- 22,717,489
51**	Sewer Rates			3,854,510	-	-	-	-		- 3,854,510
Tota	I Revenue		\$25,200	\$5,734,309	\$20,411,490	\$401,000	-	-		- \$26,571,999
Expense										
8202	Construction	-	-	2,427,010	18,675,390	-	-	_		- 21,102,400
8206	Design Fees	-	22,463	2,903,037	-	-	-	-		- 2,925,500
8214	Legal Publications	-		1,000	1,000	_	_	-		- 2,000
8226	Permits, Fees, Etc	-		50,000	10,000	-	-	-		- 60,000
8229	Professional Services	-	-	250,000	1,574,100	275,000	-	-		- 2,099,100
8232	Project Management	-	2,737	103,262	51,000	51,000	•	-		- 207,999
8240	Testing And Inspection			-	100,000	75,000	-	_		- 175,000
Tota	l Expense	-	\$25,200	\$5,734,309	\$20,411,490	\$401,000	-	_		- \$26,571,999
Net Total		_	-	-	-	-	-	*		

WPCF Primary Treatment Phase 2

Project Number: 403.17 Budget Year: 2020

Division: Wastewater Treatment Council Priority:

Project Type: Sewer Replacement Treatment Regions: 1- 16 St North/35 Ave East

Fund: Sewer Capital Replacement Location: Water Pollution Control Facility - 300 E 8th St

Project Cadee Oakleaf Budget Unit #: 403NewY1

Project Status: Funded

Description:

The existing three primary clarifiers were build in the 1960's and 1980's. The next phase of plant improvements as identified in the 2018 Master Plan will address the most critical up front aspects of the treatment process. The project will include replacement of the existing; influent pumps and motors (with new pumps sized for future flow ranges), primary clarifier mechanisms, and primary sludge and scum piping, valving, and pumps (operating in thin sludge pumping). Construction of; two new gravity thickeners for fermentation and thickening and a new gravity thickener pump station. This will include upgrades to the primary treatment electrical identified in the condition assessment.

Discussion of Progress:

Design work is planned to commence in 2021.

Justification:

Phase II Primary Treatment improvements were identified in the 2018 WPCF Masterplan. Much of the improvements with Phase II were identified in the condition assessment. Many of the items including influent pumps and primary clarifier improvements have already been identified in CIP but were consolidated into one project.

Revenue Detail:

No additional information

Impact on Operating Budget:

			201	9					
GL		Previous 3	Revis	ed					
Account	Description	Years	2018 Actual Budg	et 2020	2021	2022	2023	2024	Grand Total
Revenue									
	Fund Balance		-		- 2,595,000	16,841,100	410,000	-	19,846,100
Tota	Il Revenue	-	-	-	- \$2,595,000	\$16,841,100	\$410,000	-	\$19,846,100
Expense								***************************************	
8202	Construction	-	-	-		13,901,000	-	-	13,901,000
8204	Contingency	-	-	-		1,390,100	-	-	1,390,100
8206	Design Fees	-	-	-	- 2,285,000	-	_	_	2,285,000
8229	Professional Services	-	-	-	- 250,000	1,390,000	275,000	_	1,915,000
8232	Project Management	-	-	-	- 60,000	60,000	60,000	-	180,000
8240	Testing And Inspection	-	-	-		100,000	75,000	-	175,000
Tota	il Expense	-	-	-	- \$2,595,000	\$16,841,100	\$410,000	-	\$19,846,100
Net Total		-	-			_	-	-	-

WPCF Master Plan Update

Project Number: 1046

Budget Year:

2020

Division: Wastewater Treatment

Council Priority: Infrastructure & Growth- Environmental Infrast'r

Project Type:

Sewer Replacement Studies

Regions: Location: 1- 16 St North/35 Ave East

Fund: **Project** Sewer Capital Replacement Tom Dingeman

Water Pollution Control Facility - 300 E 8th St

Project Status: Funded Budget Unit #:

4030083084290000

Description:

The Water Pollution Control Facility (WPCF) Master Plan is updated every five years. The last Master Plan focused on the biosolids systems and was completed in 2012. This update will focus on primary treatment processes and biological nutrient removal. The updating process will also incorporate the necessary changes for the planning, prioritization of work, and budgeting of future plant projects.

Discussion of Progress:

Carollo Engineers was selected as the consultant for this project. Scope of work and cost was finalized. Contract is for \$487,889. The study commenced with a kickoff meeting on September 18, 2017. Phase I of the Master Plan focuses on the basis of planning and tool development. Specifically, the project's initial tasks have included additional sampling and analysis; evaluating existing data and determining data gaps; evaluating historical plant flows and solids recycle streams for hydraulic and process modeling; completing a plant-wide condition assessment for equipment and infrastructure. A number of meetings including two workshops have been held in the past couple of months along with several biweekly conference calls. The Master Plan was completed within budget in late November 2018. Final project invoice expected in January 2019.

Justification:

To keep the master plan current with new regulations, treatment technologies, equipment, project priorities and available funding. To further reduce energy and annual operation & maintenance (O&M) costs at the WPCF. The updated study includes such items as exploring options for biological nutrient removal processes, the de-commissioning of the aging digester building and the three secondary anaerobic digester tanks, additional onsite sludge storage, biogas utilization, energy conservation, solids reduction technologies, etc.

Revenue Detail:

None

Impact on Operating Budget:

				2019						
GL		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	146,277	388,198	25,822	-	-	_	525,000		1,085,297
Tota	il Revenue	\$146,277	\$388,198	\$25,822	-	-	-	\$525,000		\$1,085,297
Expense										•
8206	Design Fees	143,296	338,653	21,562	-	-	-	-		503,511
8214	Legal Publications	-	-	300	-	-	-	_		300
8229	Professional Services	-	45,505	-	-	_	-	500,000		545,505
8232	Project Management	2,981	4,040	3,960	-	-	-	25,000		35,981
Tota	il Expense	\$146,277	\$388,198	\$25,822	-	-	-	\$525,000	-	\$1,085,297
Net Total		_	-		-	-	-	-	-	-

Utility Billing Replacement-Sewer

Project Number: 403.19

Budget Year: 2020

Sewer General Management

Sewer Replacement Studies

Council Priority:

Regions:

0 - All Wards Citywide

Fund: Sewer Capital Replacement Project Erik Dial

Division:

Project Type:

Location: Budget Unit #: 4030083008860000

Project Status: 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:

Planning

Justification:

The current Utility Billing software will only be supported for 2-3 more years. A new system is needed. This will be funded by the Water, Sewer, and Stormwater funds.

Revenue Detail:

No additional information

Impact on Operating Budget:

C1				2019						
GL.		Previous 3		Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	-		-	500,000	_	-	-		- 500,000
51**	Sewer Rates		-	300,000	-	_	-	-		- 300,000
Tota	al Revenue	-	-	\$300,000	\$500,000	-	-	_		- \$800,000
Expense										
8229	Professional Services		-	300,000	500,000	-	-	-		- 800,000
Tota	al Expense	-	-	\$300,000	\$500,000	_	-	-		- \$800,000
Net Total		-	-	-	-	-	-	-		

Capital Outlay Replacement - Sewer

Project Number: 181 Budget Year: 2020

Division: Sewer General Management **Council Priority:** Infrastructure & Growth- Environmental Infrast'r

Project Type:Sewer Replacement StudiesRegions:0 - All WardsFund:Sewer Capital ReplacementLocation:Citywide

Project Paul Tucker Budget Unit #: 4030083083510000

Project Status: Funded

Description:

Replacement of rolling stock, e.g., pickups, tractor backhoes, loaders, compressors, sewer jet units, dump trucks, utility vehicles, and other identified sewer replacement capital items.

Discussion of Progress:

This budget includes capital outlay replacement items for both the WWT and WWC Divisions

Justification:

Replacement of rolling stock that has reached the end of its useful life. Maintains the ability to perform daily tasks and handle emergency situations.

Revenue Detail:

No additional information

Impact on Operating Budget:

GL		Previous 3		2019 Revised						
Account	Description	Years	2018 Actual	Budget	2020	2021	2022	2023	2024	Grand Total
Revenue										
	Fund Balance	1,016,334	7,647	-	41,000	570,000	60,000	45,000	610,000	2,349,982
51**	Sewer Rates	-	· -	35,500	-	-	-	-	-	35,500
5801	Sales Of Fixed Assets	11,355	-7,647	_	-	-	-	-	-	3,708
Tota	l Revenue	\$1,027,689	-	\$35,500	\$41,000	\$570,000	\$60,000	\$45,000	\$610,000	\$2,389,189
Expense										
8142	Construction and Maintenance	834,889	-	_	-	570,000	-	-	570,000	1,974,889
8144	Transportation/Vehicles	100,012		-	-	-	-	45,000	40,000	185,012
8149	Other	87,859	-	35,500	41,000	_	60,000	-	_	224,359
8208	Furniture, Fixtures &	4,930	-	-	-	-	-	-	-	4,930
Tota	l Expense	\$1,027,689	-	\$35,500	\$41,000	\$570,000	\$60,000	\$45,000	\$610,000	\$2,389,189
Net Total		-	-	-	-	-	_	-	-	-



Water Operations

2020

Water Administration

GL Account *	Notes	2020
7111- Regular Employees		736,296
7121- Overtime-Regular		5,000
7211- Disability		4,272
7212- Health		117,283
7213- Life		2,186
7214- Dental		4,005
7215- Workers Compensation		3,267
7221- General Employees		29,451
7227- 401K		14,137
7231- FICA		45,649
7234- Medicare		10,675
7314- Office Supplies & Materials		10,000
	2019 cost 298.14 gallons of Unleaded at \$2.75/gal. 2020 cost	
7328- Fleet Fuel	298.14 gallons of Unleaded at \$2.95/gal.	880
7329- Other Operating Supplies	, ,,	10,000
. • • • • • • • • • • • • • • • • • • •	This budget purchases cleaning supplies for W&S admin	,
7344- General Maintenance Supplies	offices.	500
7362- Small Items Of Equipment \$100 - \$5,000	Computer hardware costs increasing for division	5,500
7411- Postage	6100 pieces @ \$0.50	3,150
7418- Advertising	2200 p. 2000 C 40.000	1,000
	Doing most copying in house now because of better printers,	
7424- In-House Copying	copy numbers increasing	11,500
7426- Outside Printing		6,000
7432- Publications, Subscriptions, and Dues		18,000
	Payments to North Weld Water for water taken through	
	Greeley's interconnect. We receive more revenue for the	
7442- Water/Sewer/Stormwater	water sold to customers than we pay North Weld. Net gain.	18,500
7445- Telephone	Reflects recent costs	4,500
	Professional services related to rate model development and	
7458- Other Professional Services - White collar	cross connection control software maintenance	59,000
	Financial External Audit (annual, currently Anton Collins	
7458- Other Professional Services - White collar	Mitchell LLP)	15,000
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance:	2,426
7469- Other Repair Maintenance Services		400
7472- Hotel & Motel	Hotel costs for training	1,000
7473- Meals	~5 days per diem	400
7475- Mileage	2600 miles @ \$0.50/mile.	1,200
7478- Registration	Ten employees @ \$1000/employee.	10,000
7496- Other Purchased Services - Blue Collar	FedEx fees increasing, utilizing more often to manage contracts	2,150
	Rent Paid to General Fund 0015050050000000 - Maintenance	
	5366, Tied to repayment schedule. 2019 higher to compensate	
7631- Rent	for 2017 & 2018 interest payments. 2020 ties to schedule.	117,680
7655- Bank/Investment Charges		145,000

Water Engineering

114106 7112	.1- Regular Employees		
	1 HeBaia, Employees		408
	.2- Salaries & Wages - Seasonal		12
11411/ /21	1- Disability		2
114118 7212	2- Health		50
114119 7213	3- Life		1
114120 7214	4- Dental		1
114125 7215	5- Workers Compensation		9
114121 7223	1- General Employees		16
114122 7227	7- 401K		7
114123 7231	1- FICA		2!
114124 7234	4- Medicare		į
		Asset Manager and Asset Technician now in this budget.	
114126 7314	4- Office Supplies & Materials	Budget for ink cartridges.	
		2019 cost 1510.72 gallons of Unleaded at \$2.75/gal. 2020 cost	
114115 7328	8- Fleet Fuel	1510.72 gallons of Unleaded at \$2.95/gal.	
114107 7329	9- Other Operating Supplies	1	
	3- Machinery, Vehicle & Equipment Parts	Budgeted by Equipment Maintenance:	
	,,	Additional computer supplies for Asset Manager/Asset	
114127 7362	2- Small Items Of Equipment \$100 - \$5,000	Technician-increased by \$500	
114109 7411	• • • • • • •	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	8- Advertising		
	6- Outside Printing		
	2- Publications, Subscriptions, and Dues		
	5- Telephone	5 phones at a avg monthly charge of \$70/month	:
	5- Architectural/Engineering	o priorito de de angles de que de que de la companya de la company	9
		Maintenance agreement fee for the asset management	
114129 7458	8- Other Professional Services - White collar	system. All water divisions budgeted here for this fee	2
114133 7462	2- Equipment Maintenance Charges	Budgeted by Equipment Maintenance:	4
114135 7472	2- Hotel & Motel		4
114130 7473	3- Meals	5 days of per diem estimated	:
114131 7474	4- Air Travel		:
114134 7479	5- Mileage	1000 miles @ \$0.50	
114136 7477	7- Other Travel		
		5 employees attending North American Socity for Trenchless	
114132 7478	8- Registration	Technology @ approximately \$850/persion	į
	-	Adding data plans for wireless internet access for 20 laptops to	•
		access asset management system. All water divisions budgeted	
114114 7496	6- Other Purchased Services - Blue Collar	here.	1

Services and Meters

GL Account *	Notes	2020
7111- Regular Employees		273,615
	On call after hour emergencies. The division's average is	
7121- Overtime-Regular	\$35/hour at 255 overtime hours annually.	8,000
7211- Disability		1,588
7212- Health		66,501
7213- Life		840
7214- Dental		2,272
7215- Workers Compensation		5,392
7215- Workers Compensation	Seasonal Workers Comp Workers Comp for seasonal position	-
7221- General Employees		10,945
7227- 401K		5,254
7231- FICA		16,962
7231- FICA	Seasonal FICA	, -
7234- Medicare		3,969
7234- Medicare	Seasonal Medicare	_
7314- Office Supplies & Materials		300
7321- Medical/Chemical		300
	Safety clothing and personnel protection equipment for 5	
	FTE's, 5 pairs safety boots @ \$200 each, 20 safety shirts @ \$36	
	each, 10 uniform pants @ \$30 each, 5 COG logo hats @ \$9	
	each, 12 pair safety gloves @ \$6 each, 3 safety vests @ \$16	
7325- Clothing And Uniforms	each, 5 pair safety glasses @ \$13 each, 3% increase	2,440
7929 SIGULING FINE GIMBITIES	2019 cost 4930.65 gallons of Unleaded at \$2.75/gal. 2020 cost	2,440
7328- Fleet Fuel	4930.65 gallons of Unleaded at \$2.75/gal.	14,545
	1330.03 ganons of officaded at \$2.337 gan.	14,545
7329- Other Operating Supplies	Propane, acetylene, cell phone accessories and batteries.	3,030
7333- Machinery, Vehicle & Equipment Parts	Budgeted by Equipment Maintenance:	1,190
	15 meters pits @ \$120 each, 15 domes @ \$130 each, 15	
	setters @ \$110 each, 5 composite 24" lids @ \$240 each, misc	
7338- Water, Sewer, Irrigation Line Repair Parts	brass fittings 2014 same parts with a 4.5% mark up (\$1400)	8,860
	Historical costs for small tools, meter pit keys, stop box keys,	
7344- General Maintenance Supplies	meter vault lid lifting hooks, shovels and janitorial supplies	12,050
7362- Small Items Of Equipment \$100 - \$5,000	moter value na meng noons, snovels and jamtonal supplies	3,800
7411- Postage		3,800
7426- Outside Printing		250
7432- Publications, Subscriptions, and Dues		300
7441- Electric		5,200
7444- Natural Gas		5,700
7445- Telephone		2,730
7458- Other Professional Services - White collar		2,730
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance:	2,223 8,947
7469- Other Repair Maintenance Services	===03000 of equipment manifestance.	300
7478- Registration	Increase by \$1000	1,110
7496- Other Purchased Services - Blue Collar	Increase by \$4900 for large meter testing	8,240
Janes i di cinadad del viced - Dide Condi	Annual lease on (2) gas detectors used for confined space	0,240
7631- Rent	entry. Increased \$1300 for new contract	4,500
		1,500

Transmission - Reservoirs

GL Account * 7111- Regular Employees	Notes	2020 317,065
	1 soasoaal omployee peocessay to halo with in have	
	1 seasonal employee necessary to help with in-house corrective maintenance projects, assist the maintenance	
	mechanic with routine preventative maintenance, perform	
7112- Salaries & Wages - Seasonal	landscape maintenance and assist with confined space entries.	20 000
112 Jaintes & Wages - Jeasonal	ianuscape maintenance and assist with commed space entries.	20,800
	on-call/weekend duty: average hourly rate for (7) fte's over	
	rate \$37: on-call is 8 hrs@37/hr x 52 weeks. holiday coverage:	
	4 hrs @ \$37/hr x 10. emergency response: 56 calls @ \$36/hr.	
	transmission line/utility locat tech after hour projects/call outs	
121- Overtime-Regular	100 hrs @ \$37/hr.	22,000
211- Disability		1,839
212- Health		60,455
213- Life		953
214- Dental		2,065
215- Workers Compensation	Seasonal Workers Comp	581
215- Workers Compensation		6,816
221- General Employees		12,683
227- 401K		6,088
231- FICA		19,658
231- FICA	Seasonal FICA FICA taxes for seasonal employee	1,197
234- Medicare		4,597
234- Medicare	Seasonal Medicare	280
314- Office Supplies & Materials		2,000
	At our 3 reservoir complexes we use sodium hypochlorite	
	solution to provide secondary disinfection treatment. gallons	
	used is proportional with gallons of water usage. the	
	department is projecting an 8% increase in water production.	
	vendors indicate a \$0.06 increase per gallon 27,418 gallons	
321- Medical/Chemical	sodium hypochlorite @ \$1.35 per gallon	4,900
	Safety boots 6 @ \$200, cog logo hats 30 @ \$8, hard hats 15 @	
	\$30, safety shirts 56 @ \$35, light coveralls 4 @ \$30, safety	
	gloves 336 prs @ \$5, safety vest 56 @ \$14, first aid kit refill 8	
	@ \$25, rubber boots 14 @ \$35, safety glasses 504 prs @ \$5,	
	safety sweatshirts 28 @ \$50, ear protection plugs 4 @ \$25,	
	ear protection bulk 2 @ \$26, ear protection muffs 8 @ \$10,	
	face shields 4 @ \$25, eye protection goggles 31 @ \$1, eye	
	protection over the glasses 10 @ \$6, rain gear 14 @ \$35, bug	
325- Clothing And Uniforms	spray 48 @ \$4, sun screen 4 @ \$30	6,200
	2019 cost 7960.9 gallons of Unleaded at \$2.75/gal. 2020 cost	0,200
	7960.9 gallons of Unleaded at \$2.95/gal. 2019 cost 297.5	
	gallons of Diesel at \$3.06/gal. 2020 cost 297.5 gallons of	
328- Fleet Fuel	Diesel at \$3.26/gal.	24,455
	Funds used for propane, batteries, cell phone accessories,	
329- Other Operating Supplies	oxygen & acetylene. inline with 2013 expenditures.	4,000
333- Machinery, Vehicle & Equipment Parts	Budgeted by Equipment Maintenance:	4,000
,,		1,000
	Parts used for transmission and distribution system	
	appurtenances. major areas are: combination air vacuum	
	valves and hardware located in vaults throughout the entire	
	transmission system; 22 pressure regulating stations located	
	throughout the distribution system; parts for repairing	
220 14	plumbing, pumps, the sodium hyperchlorite dispensing	
338- Water, Sewer, Irrigation Line Repair Parts	systems at 3 reservoir comlexes	12,500

	weed eaters and mower blads. also includes all cutting blades	
	for chop saws, angle grinders, reciprocating saws and all	
	welding supplies. painting supplies and janitorial supplies for	
	the (3) reservoir complexes and the zone 4 pump station are	
7344- General Maintenance Supplies	purchased through this account	24,000
7346- Street & Traffic Repair and Maintenance Supplies	parameter and account	1,200
7348- Plant Materials	Sod, grass for the (3) reservoir complexes	1,000
7362- Small Items Of Equipment \$100 - \$5,000	oral, Brane for the (of reservoir complexes	6,950
7411- Postage		10
7424- In-House Copying		500
7426- Outside Printing		150
7432- Publications, Subscriptions, and Dues		1,500
,		1,500
	Electrical services are provided to operate and protect our	
	distribution and transmission systems. City of Greeley	
	water/sewer receives electrical services from both xcel energy	
	and poudre valley rural electrical association as part of our	
	cathodic protection system, which impresses an electrical	
	current onto the larger steel transmission main, we have 6	
	rectifiers. To move water through the reservoir complexes and	
	provide water to zone 4 (promontory) we have 2 major pump	
	stations. 1) of our 22 pressure regulating valve stations	
	received power. This provides remote operation and	
7441- Electric	supervisory control and data accquisition capabilities.	258,000
7444- Natural Gas	supervisory control and data accidistion capabilities.	8,000
7444 Matarai Gus	Telephone/cell phone services and phone alarm systems at	8,000
7445- Telephone	the (3) reservoir complexes	10,500
7446- Other Utility	the (3) reservoir complexes	
7458- Other Professional Services - White collar	Outside laboratory water quality testing charges.	1,000
7461- Machine, Vehicle, Equipment	Fees for repairs outside the city of greeley	2,500
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance: 2 yr avg	4,000
7466- Buildings	Bldg service and repair	28,217
7469- Other Repair Maintenance Services	blug service and repair	2,600
7403- Other Repair Maintenance Services	Degistration for for an annuism water water to be a single *	2,600
	Registration fees for american water works association *	
	action now* seminars and internet course training for the	
	necessary training units to renew colorado water and	
	wastewater operator certifications. All reservoir personnel	
7479 Dogistration	have multiple certifications. Also for advanced electrical &	
7478- Registration	instrumentation training.	6,500
	Instructional advice received about the assistance of any	
	Instructional advice received about the maintenance of our	
	cathodic protection system. This is our corrosion control	
	protection for our large diameter steel transmission mains; we	
7496- Other Purchased Services - Blue Collar	induce an electrical current on to the pipe line. Utility	15.000
7430- Other Furchased Services - Dide Cullar	notification center of colorado locate ticket request charges.	15,000
7631- Rent	Lease agreement fee for 3 gas detection monitors and rental	
\031- \u0316	charges of misc. equipment on tools.	6,000

The purchase of small tools, lumber, ladders, rakes, shovels,

Distribution

GL Account * 7111- Regular Employees	Notes	2020 1,154,375
	Projected work programs and leak history: water emergency repair 5 main crew: after hours: 26 repairs x 6 hrs x \$176: emergency repair with 2 hr ot: 25 repairs x 2 hrs x \$176: on-call-2 hrs for 200 calls: 200 x 2 hrs x \$37: crew supervisors: project preparation and contractor assistance: 128 hr x \$50: special projects 9 man crew; 2 hr a day, 4 days a week, 28	
7121- Overtime-Regular	weeks: \$265 x 2 x 4 x 28. Annual 3% increase	160,000
7211- Disability		5,973
7212- Health 7213- Life		214,619
7214- Dental		3,117 7,329
7215- Workers Compensation		19,239
7221- General Employees		41,168
7227- 401K		19,763
7231- FICA		63,822
7234- Medicare 7314- Office Supplies & Materials		14,928
7321- Medical/Chemical		1,643 1,314
7325- Clothing And Uniforms		14,000
	2019 cost 12580.3 gallons of Unleaded at \$2.75/gal. 2020 cost 12580.3 gallons of Unleaded at \$2.95/gal. 2019 cost 7888.58 gallons of Diesel at \$3.06/gal. 2020 cost 7888.58 gallons of	
7328- Fleet Fuel	Diesel at \$3.26/gal.	62,829
	Historical costs for propane; batteries for pipe locating	
7329- Other Operating Supplies	equipment, barricade flashing lights, mobile radios, leak	2 700
7333- Machinery, Vehicle & Equipment Parts	detection equipment; meals for emergency leak repairs Budgeted by Equipment Maintenance:	3,788 8,123
Table MacMillery, Familia & Equipment and	badgeted by equipment Waintenance.	0,123
	Average 55 leaks per year. Cost varies due to repair parts	
	required. Cost per leak repair varies from \$2,500 to \$35,000.	
7220 Mater Course Irrigation Line Beneix Borts	Stainless steel leak repair clamps; range 3" to 36". Repair	44 700
7338- Water, Sewer, Irrigation Line Repair Parts	clamps range in price from \$45.00 to \$1200.00.	11,730
	Historical costs for replacing shovels, hammers, screwdrivers,	
	rakes, brooms, pry bars, high impact sockets, flaring tools, load straps, lifting slings, pipe lifting clamps, ladders, pressure	
7344- General Maintenance Supplies	gauges and janitorial supplies.	21,220
	Historical costs for repairing the public right of way after	
	emergency corrective repairs that have been made to the	
	distribution and transmission water systems. flowfill @ \$60/cyd, cold mix @ \$125/ton fill sand @ \$4/ton, 1 1/2"	
	washed rock @ \$11/ton, hot asphalt \$49/sq yard for the	
7346- Street & Traffic Repair and Maintenance Supplies	purchase of emergency signage and traffic cones.	15,450
7348- Plant Materials		1,500
7362- Small Items Of Equipment \$100 - \$5,000		10,000
7411- Postage 7424- In-House Copying		45 4,188
7426- Outside Printing		4,188 366
7432- Publications, Subscriptions, and Dues		1,600
	Annual electrical service provided to building I in the city	
7441- Electric	shops complex	6,600
7444- Natural Gas 7445- Telephone		4,400
7446- Other Utility		6,420 60
		00

	Annual fees paid to the weld county health department for	
	performing water quality testing required by federal mandate.	
	90 test a month are performed minimally. Lucity support and	
7458- Other Professional Services - White collar	maintenance.	34,712
7461- Machine, Vehicle, Equipment	Outside equipment repair	3,000
7462- Equipment Maintenance Charges 7466- Buildings	Budgeted by Equipment Maintenance: 2 yr avg	107,281
	Annual cost for the asphalt paving, curb, gutter and sidewalk	
	replacement damaged or removed during water main	
7468- Streets, Roads, Traffic Lights	emergencies	38,230
	Historical cost of maintaining the divisions copier, fax	
7469- Other Repair Maintenance Services	machine, printers	1,000
7475- Mileage		500
	Monies used for attending amercian water works association	
	"action now" seminars and attending the two day distribution	
	operator's short school put on by the colorado water and	
	wastewater operators certification board. This training is for	
	earning the necessary training units for certification renewal.	
	One employee will be attending for a week the advanced	
	water & wastewater plant operator school. Classes for two	
7478- Registration	Class A CDL's \$7,000 and four Class B CDL's \$6,000	10,000
	Monies used for the utility notification center of colorado	
	charges; distribution division administers the programs and	
	pays 1/6 of the cost. Current charges are \$1.45 per ticket and	
	a 5% increase is expected. Addition of 101 - CL2 samples	
7496- Other Purchased Services - Blue Collar	monthly. 32 DBP samples added yearly	40,000
	Monies used for the lease of (1) gas detection and other rental	
7631- Rent	items such as electric shops saws when necessary	1,650

Non-Potable

GL Account *	Notes	2020
7111- Regular Employees		173,249
7112- Salaries & Wages - Seasonal		19,000
7121- Overtime-Regular		8,250
7211- Disability		1,004
7212- Health		36,273
7213- Life		524
7214- Dental		1,239
7215- Workers Compensation	Seasonal Workers Comp	587
7215- Workers Compensation		3,724
7221- General Employees 7227- 401K		6,930
7227- 401K 7231- FICA	Second FICA	3,327
7231- FICA 7231- FICA	Seasonal FICA	1,209
7234- Medicare		10,742
7234- Medicare	Seasonal Medicare	2,513 283
7314- Office Supplies & Materials	Seasonal Medicale	400
7514 Office Supplies & Waterials	Cost for algae control chemicals, copper sulphate used at	400
	19pumping stations and poudre ponds and the 5 ditch's we	
Α	maintain. also covers cost incurred for landscaping and pest	
	control at 30 non-potable stations and at the gravel pit. 4 CDL	
7321- Medical/Chemical	physicals	2,150
, in the second	, ,	2,230
	safety clothing and personal protection equipment for 4 FTE's	
	(1 additional because of taking over Park's non-potable assets)	
	and 2 seasonal. safety boots, hard hats, safety shirts, light	
	coveralls, safety gloves, first aid kits, safety vests, rubber	
7325- Clothing And Uniforms	boots, ear protection, rain gear, sun screen	4,500
	2019 cost 5016.91 gallons of Unleaded at \$2.75/gal. 2020 cost	
	5016.91 gallons of Unleaded at \$2.95/gal. 2019 cost 176.62	
	gallons of Diesel at \$3.06/gal. 2020 cost 176.62 gallons of	
7328- Fleet Fuel	Diesel at \$3.26/gal.	15,376
7329- Other Operating Supplies		1,000
	Maintenance supplies for six vehicles and two chain saws, 1	
	chop saw, generator and pumps. 1 hotsy includes: spark plugs,	
	air filters, drive belts, diaphragms, weed eater string, mower	
	blades, hydaulic hoses and lubricants and all vehicle	
	maintenance equipment needs to perform throughout the	
7222 Machinany Vahicla & Equipment Barts	year. Additional vehicle and equipment with expanded non-	0.000
7333- Machinery, Vehicle & Equipment Parts	potable assets.	8,000
	Repairs to pump stations not covered by service contracts	
	such as pumps that we replace or rebuild in house, filters,	
	pressure regulating valves, hoses and chemical feeders.	
	Repairs to sprinkler systems. All necessary materials needed	
	to make repairs to systems piping infrastructures, mechanical	
7338- Water, Sewer, Irrigation Line Repair Parts	joint coupler, etc.	3,500
, , ,	••••••	5,555
	Spraying the exterior of pump stations with a protective	
	concrete sealer and graffiti protectant. also small hand tools,	
	shovels, rakes, pitch forks and janitorial supplies. Non-potable	
	is now responsible for Parks non-potable assets which	
7344- General Maintenance Supplies	doubled the amount of maintenance needed.	20,000
7346- Street & Traffic Repair and Maintenance Supplies		2,159
7348- Plant Materials		500
7362- Small Items Of Equipment \$100 - \$5,000	Weed eater, grass edger, new trash pump,	6,800
7411- Postage	Miscellaneous mailings	100
7426- Outside Printing		93

7432- Publications, Subscriptions, and Dues		400
	Electrical service to pump stations. Added Park's pump	
7441- Electric	stations.	440,000
7445- Telephone	Cost for 8 cell phones average monthly cost of \$70 per phone	6,680
7446- Other Utility		31
7458- Other Professional Services - White collar		700
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance:	21,166
7465- Grounds		500
7466- Buildings		2,000
	Contract to repair pumps and programmable logic controllers	
	at all 38 pump stations, also to cover asphalt repair costs.	
7469- Other Repair Maintenance Services	Added 20 Parks sites.	10,620
7478- Registration	Three FTE's to pump and filter training classes.	5,000
	Proportional cost for utility locating request. The utility	
	notification center of colorado currently charges \$1.61 per	
7496- Other Purchased Services - Blue Collar	request.	12,000
	Annual lease on 92 gas detectors used for confined space	
7631- Rent	entry.	4,500

Instrumentation and Controls - Water

Instrumentation and Controls - Water		
GL Account *	Notes	2020
7111- Regular Employees		465,577
7121- Overtime-Regular	I&C Techs for standby and emergencies	20,000
7211- Disability	,	2,697
7212- Health		72,541
7213- Life		1,382
7214- Dental		2,479
7215- Workers Compensation		
		10,012
7221- General Employees		18,627
7227- 401K		8,940
7231- FICA		28,863
7234- Medicare		6,752
7314- Office Supplies & Materials	Copy paper etc.	500
	Safety boots cog logo hats, hard hats 1, safety shirts, light	
	coveralls, safety gloves, safety vest , first aid kit refill, rubber	
	boots, safety glasses, safety sweatshirts, ear protection plugs,	
	ear protection, ear protection muffs, face shield, eye	
	protection goggles, eye protection over the glasses, rain gear,	
	bug spray, sun screen In the past this money was taken from	
7325- Clothing And Uniforms	the treatment plants and reservoirs accounts.	5,000
	Funds used for propane, batteries, cell phone accessories,	
	oxygen & acetylene. inline with 2013 expenditures. In the past	
7329- Other Operating Supplies	this money was taken out of each treatment plant accounts.	1,000
7333- Machinery, Vehicle & Equipment Parts	Budgeted by Equipment Maintenance:	•
7333- Machinery, Vehicle & Equipment Farts	Budgeted by Equipment Maintenance.	1,000
	Parts used for transmission and distribution system	
	appurtenances. Major areas are: hardware located in vaults	
	throughout the entire transmission system; 22 pressure	
	regulating stations located throughout the distribution system;	
	parts for repairing plumbing, pumps, the sodium hyperchlorite	
	dispensing systems at 3 reservoir complexes. In the past this	
7338- Water, Sewer, Irrigation Line Repair Parts	money was taken from the Transmission/Reservoirs account.	4,000
	The purchase of small tools. In the past this money was taken	.,,,,,,
7344- General Maintenance Supplies	from the Transmission/Reservoirs account.	2,000
7362- Small Items Of Equipment \$100 - \$5,000	nom the transmission/reservoirs account.	2,000
	CCADA records	
7424- In-House Copying	SCADA records	500
7426- Outside Printing		300
7432- Publications, Subscriptions, and Dues	Certification updates	200
	Telephone/cell phone services and phone alarm systems. In	
	the past this money was taken from the treatment plants and	
7445- Telephone	reservoirs accounts.	4,000
7446- Other Utility	Trash service/Portapotty at new office	500
	Fees for repairs outside the city of greeley ie. Test equipment,	
	instruments. Etc. In the past this money was taken from the	
7461- Machine, Vehicle, Equipment	treatment plants and reservoirs accounts.	2,000
7466- Buildings	Bldg service and repair for new I&C office	500
7469- Other Repair Maintenance Services		2,000
	Registration fees for AWWA. Also for advanced electrical &	
	instrumentation training. Required to attend class on new	
7478- Registration	equipment installed at the treatment plants.	2,000
	•	•

7496- Other Purchased Services - Blue Collar	Instructional advice received about the maintenance of new equipment installed at the treatment plants.	2,000
	Rental charges of misc. equipment on tools. In the past this	
7631- Rent	money was taken from the Transmission/Reservoirs account.	500

Water Resources

GL Account *	Notes	2020
7111- Regular Employees		1,052,664
7112- Salaries & Wages - Seasonal	GIS support for water budget rates	35,000
7211- Disability	<u> </u>	6,106
7212- Health		133,001
7213- Life		3,090
7214- Dental		4,543
7215- Workers Compensation		16,102
7221- General Employees		42,107
7227- 401K		20,211
7231- FICA		65,263
7234- Medicare		15,264
7314- Office Supplies & Materials		515
	2019 cost 68 gallons of Unleaded at \$2.75/gal. 2020 cost 68	
7328- Fleet Fuel	gallons of Unleaded at \$2.95/gal.	200
7329- Other Operating Supplies	Water quality bottles, batteries, tags, labels, etc	1,000
7362- Small Items Of Equipment \$100 - \$5,000	Mostly computers and related equipment.	17,500
7432- Publications, Subscriptions, and Dues	Publications associated with water resources	1,200
7441- Electric	Power costs for farms purchased for water rights	55,000
	Water for WSSC farm homes owned by Greeley previously	·
7442- Water/Sewer/Stormwater	paid from CIP Water Aquisition Phase I	1,900
7445- Telephone	Cellular costs	6,703
'	Legal cost associated with water rights defense and other	
7452- Legal	water resources related projects.	325,000
	Projects related to protecting existing water supplies and	
7455- Architectural/Engineering	evaluating new water supplies.	325,000
7472- Hotel & Motel		2,000
7475- Mileage		7,000
7477- Other Travel		1,240
	Training includes irrigationist symposium CLE water	
	Training includes irrigationist symposium, CLE water administration, CSU conference irrigation water requirement,	
	AWRA symposium, Water Congress annual meeting, South	
7478- Registration	Platte Forum, water issues forum	10,100
7476- Registration	flow studies, environmental impact statement analysis, and	10,100
7496- Other Purchased Services - Blue Collar	water quality ditch sampling.	1,658
7490- Other Purchased Services - Blue Collai	water quanty ditch sampling.	1,036
	Annual assessments for water rights such as Greeley Loveland	
	Irrigation Company, Colorado Big Thompson Project, Windy	
	Gap, Water Supply and Storage Company and others must be	
7697- Assessment Fees	paid or water will not reach the water treatment plants.	2,920,000

Bellvue Filter Plant

GL Account * 7111- Regular Employees	Notes	2020 576, 1 7
7111- Regular Employees	Two seasonals. Seasonals will be used to train and recruit new	3/0,1/
7112- Salaries & Wages - Seasonal	plant operators	62,40
7121- Overtime-Regular	plant operators	10,00
7211- Disability		3,34
7212- Health		96,72
7213- Life		1,71
7214- Dental		3,30
7215- Workers Compensation	Seasonal Workers Comp	1,56
7215- Workers Compensation	Seasonal Workers Comp	12,38
7213- Workers Compensation 7221- General Employees		23,04
7227- deneral employees 7227- 401K		11,06
7231- FICA	Seasonal FICA	3,22
7231- FICA 7231- FICA	Seasonal FICA	35,72
7231- FICA 7234- Medicare		
	Contamal Madienes	8,35
7234- Medicare	Seasonal Medicare	75
7314- Office Supplies & Materials	alum and man for de flouride CL2 NACH all anno mice /49/	1,20
7004 M 1: 1/61	alum, polymer feeds, flouride, CL2 NAOH, all same price /4%	246.00
7321- Medical/Chemical	inflation	816,00
7325- Clothing And Uniforms		3,80
	2019 cost 3050.83 gallons of Unleaded at \$2.75/gal. 2020 cost	
	3050.83 gallons of Unleaded at \$2.95/gal. 2019 cost 33.37	
	gallons of Diesel at \$3.06/gal. 2020 cost 33.37 gallons of	
7328- Fleet Fuel	Diesel at \$3.26/gal.	9,10
7329- Other Operating Supplies		2,05
7333- Machinery, Vehicle & Equipment Parts	Budgeted by Equipment Maintenance:	24,00
7338- Water, Sewer, Irrigation Line Repair Parts		1,00
7344- General Maintenance Supplies	rebuild cop kits in pulsafeeders and Vogelsang rebuilds	35,00
7346- Street & Traffic Repair and Maintenance Supplies	repaint parking area striping	25
7348- Plant Materials		25
7362- Small Items Of Equipment \$100 - \$5,000	pH probes, level transmitters and hand tools all at end of life	16,00
7411- Postage	, , , , , , , , , , , , , , , , , , , ,	10
7418- Advertising	2 adds in AWWA (\$250/each)	50
7424- In-House Copying		35
7426- Outside Printing		15
7432- Publications, Subscriptions, and Dues		60
7441- Electric	5% per year increase is industry standard	220,00
7444- Natural Gas	2% inflation	42,86
7111 ((ata) a a a a a a a a a a a a a a a a a a	I phones for all staff. Two new aircards for Lucity software and	12,00
7445- Telephone	Instrumentation tablet.	15,00
7446- Other Utility	instrumentation tablet.	2,50
	Timberline services for stratus servers, SCADA maintenance	
7458- Other Professional Services - White collar	agreement cost increases (Stratus upgrade)	10,00
7458- Other Professional Services - White Collar 7462- Equipment Maintenance Charges		10,63
	Budgeted by Equipment Maintenance: Reflecting recent expenditure trends	•
7466- Buildings	venecting recent exheuriture trends	3,50
7468- Streets, Roads, Traffic Lights	Increased security equipment costs and area costs and	50
7460 Other Bengir Maintenance Consider	Increased security equipment costs and prox card system	1
7469- Other Repair Maintenance Services	upgrades	15,00
7478- Registration	\$1000/employee training	9,00
	Sludge hauling costs-assuming Tier 1 withincreased residuals	
7405 O.U. D. J.	expected Increased cost frot Poudre coalition and outside lab	
7496- Other Purchased Services - Blue Collar	testing	95,00
7631- Rent		3,00

High Mountain Reservoirs

GL Account *	Notes	2020
7111- Regular Employees		193,876
	Increased to include Fire Mitigation Seasonal Crew for HMR	
7112- Salaries & Wages - Seasonal	tree removal in addition to regular HMR Seasonal Rate \$15/hr	16,550
7121- Overtime-Regular		5,208
7211- Disability		1,124
7212- Health		36,273
7213- Life		582
7214- Dental		1,239
7215- Workers Compensation		2,193
7221- General Employees		7,755
7227- 401K		3,723
7231- FICA		12,023
7234- Medicare		2,817
7314- Office Supplies & Materials		650
7321- Medical/Chemical		1,125
7325- Clothing And Uniforms		953
	2019 cost 4970.03 gallons of Unleaded at \$2.75/gal. 2020 cost	
7328- Fleet Fuel	4970.03 gallons of Unleaded at \$2.95/gal.	14,662
7329- Other Operating Supplies		2,783
	HMR when capable repairs and maintains 3 pickups, 1 tandem	
	dump truck, rubber tired loader, track dozer, snowmobiles,	
	trailers, 4 wheelers, chainsaws, and other equipment and	
7333- Machinery, Vehicle & Equipment Parts	supplies. doing all oil changes basic repairs on all equipment.	15,186
	HMR division maintains 6 high moutnain reservoirs, 3 cabins	
	and utilizes all supplies related to the care and maintenance of	
7344- General Maintenance Supplies	said structures.	16,959
7346- Street & Traffic Repair and Maintenance Supplies		338
7362- Small Items Of Equipment \$100 - \$5,000		1,000
7411- Postage		10
7426- Outside Printing		600
7432- Publications, Subscriptions, and Dues		300
	electrical costs for city owned cabins and houses increase to	
7441- Electric	reflect actual charges	3,112
	For commercial charges, cell phone charges and satellite	
7445- Telephone	phone charges.	8,560
	Charges for hmr telemetry on outlets, dams (piezometers),	
7458- Other Professional Services - White collar	staff gauges.	7,878
	Budgeted by Equipment Maintenance: vehicles and	
7462- Equipment Maintenance Charges	equipment	14,264
. ,	HMR has two mountain cabins and 1 caretakers house that are	•
7466- Buildings	in constant need of upkeep and repair.	10,750
	Equipment rental of backhoes, trenchers, and other	
7631- Rent	equipment to open and maintain Greeley's water rights.	8,290

Water Conservation

GL Account *	Notes	2020
7111- Regular Employees		161,282
7112- Salaries & Wages - Seasonal		42,850
	Overtime for Conservation Coordinator, Marketing Technician	
7121- Overtime-Regular	for after hours events and meetings.	6,000
7211- Disability		935
7212- Health		36,273
7213- Life		491
7214- Dental		1,239
7215- Workers Compensation		1,167
7221- General Employees		6,451
7227- 401K		3,097
7231- FICA		10,000
7234- Medicare		2,339
7314- Office Supplies & Materials		3,500
7325- Clothing And Uniforms		900
	2019 cost 630.97 gallons of Unleaded at \$2.75/gal. 2020 cost	
7328- Fleet Fuel	630.97 gallons of Unleaded at \$2.95/gal.	1,861
7329- Other Operating Supplies		37,000
7333- Machinery, Vehicle & Equipment Parts	Budgeted by Equipment Maintenance:	150
7338- Water, Sewer, Irrigation Line Repair Parts		15,000
7344- General Maintenance Supplies		4,000
7346- Street & Traffic Repair and Maintenance Supplies		500
7348- Plant Materials		4,500
7362- Small Items Of Equipment \$100 - \$5,000		3,000
7411- Postage		2,000
7418- Advertising		2,000
7426- Outside Printing		10,000
7432- Publications, Subscriptions, and Dues		8,000
7445- Telephone		2,000
7446- Other Utility		200
7455- Architectural/Engineering		60,000
7458- Other Professional Services - White collar		4,000
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance:	4,341
7465- Grounds		500
7475- Mileage		2,000
7477- Other Travel		100
7478- Registration		5,000
7496- Other Purchased Services - Blue Collar		3,500
7631- Rent		1,000
7693- Rebates		90,000
7811- Grants-Outside Public Agency		7,500

Boyd Lake Filter Plant

GL Account *	Notes	2020
7111- Regular Employees		558,813
7112- Salaries & Wages - Seasonal	3 seasonals	66,000
7121- Overtime-Regular	Occasional OT for plant maintenance	7,000
7211- Disability		3,239
7212- Health		96,728
7213- Life		1,671
7214- Dental		3,304
7215- Workers Compensation	Seasonal Workers Comp	1,656
7215- Workers Compensation		12,012
7221- General Employees		22,352
7227- 401K		10,729
7231- FICA	Seasonal FICA	3,410
7231- FICA		34,647
7234- Medicare		8,101
7234- Medicare	Seasonal Medicare	798
7314- Office Supplies & Materials		411
7321- Medical/Chemical	Added 3% for next 2 years	890,778
7325- Clothing And Uniforms		2,750
	2019 cost 3287.96 gallons of Unleaded at \$2.75/gal. 2020 cost	
	3287.96 gallons of Unleaded at \$2.95/gal. 2019 cost 998.99	
	gallons of Diesel at \$3.06/gal. 2020 cost 998.99 gallons of	
7328- Fleet Fuel	Diesel at \$3.26/gal.	12,956
7329- Other Operating Supplies		2,000
	Machinery, vehicles and equipment parts (includes bearings	
	and other repair parts for chemical feeders and instruments.	
	small repair parts for city vehicle maintenance not performed	
7333- Machinery, Vehicle & Equipment Parts	in Greeley.)	10,000
	General maintenance supplies includes pipe fittings, electrical	
	parts, cleaners, paints, and other supplies used in maintaining	
	the buildings and grounds. Small increase to catch up from	
7344- General Maintenance Supplies	backlog of needed supplies.	22,000
	Replacement of ground maintenance equipment, sump	
	pumps, power tools mobile pressure washer Weed sprayer	
7362- Small Items Of Equipment \$100 - \$5,000	that fits into back of gator.	8,000
7424- In-House Copying	Includes Boyd copier rental	300
7432- Publications, Subscriptions, and Dues	Water treatment books and study/training material	500
7441- Electric	Budgeted amount reflects yearly trends	415,180
7442- Water/Sewer/Stormwater	Sewer service to the City of Loveland 3% increase	3,200
7445- Telephone	3 tablet cards 3 cell phones (1 additional cell phone)	4,000
7446- Other Utility		1,100
7458- Other Professional Services - White collar	Primarly SCADA (computerized control system) licensing costs. This account is used for pump, motor and valve rebuilding and other major repairs to plant machinery performed by outside	6,000
7461- Machine, Vehicle, Equipment	vendors.	5,000
• •	Budgeted by Equipment Maintenance:	11,641
7462- Equipment Maintenance Charges 7472- Hotel & Motel		11,641
7472- Hotel & Motel 7473- Meals	Assuming 6 nights Approximately 14 days of per diem	600
7475- Mileage	Approximately 1350 total miles to be reimubursed	800

3 persons to the 5 day "Boulder" operator's training @ \$500.00 each; 8 people @ \$700.00 each to attend short courses and seminars for updating skills and attaining CEU's needed for renewal of their operator certificates. send one person to the RMSAWWA annual conference. \$2000 (including travel, food and lodging).

7478- Registration 7496- Other Purchased Services - Blue Collar 7631- Rent

Sludge hauling costs-assuming Tier 1 sludge

134,168

2,200

7,100

Water Quality

GL Account * Notes	2020
7432- Publications, Subscriptions, and Dues	10,000
7455- Architectural/Engineering	317,200
7496- Other Purchased Services - Blue Collar	18,250



Sewer Operations

2020

Sewer Engineering

GL Account * Notes	2020
7111- Regular Employees	304,694
7211- Disability	1,767
7212- Health	33,854
7213- Life	889
7214- Dental	1,157
7215- Workers Compensation	4,943
7221- General Employees	12,187
7227- 401K	5,850
7231- FICA	18,891
7234- Medicare	4,417
7314- Office Supplies & Materials	200
7329- Other Operating Supplies	200
7362- Small Items Of Equipment \$100 - \$5,000	1,500
7411- Postage	600
7418- Advertising	300
7426- Outside Printing	100
7432- Publications, Subscriptions, and Dues	20,500
7445- Telephone	900
7458- Other Professional Services - White collar	6,000
7478- Registration	1,500

Sewer Administration

GL Account *	Notes	2020
7111- Regular Employees		152,936
7211- Disability		886
7212- Health		15,718
7213- Life		446
7214- Dental		538
7215- Workers Compensation		168
7221- General Employees		6,117
7227- 401K		2,936
7231- FICA		9,482
7234- Medicare		2,218
7329- Other Operating Supplies		100
7411- Postage		230
7432- Publications, Subscriptions, and Dues		1,285
7445- Telephone		600
	Professional services related to rate model development and	
7458- Other Professional Services - White collar	financial external audit	17,000
7473- Meals		90
7475- Mileage		900
	AWWA compliance refresher course (approx \$500), Rocky Mtn	
7478- Registration	WW Assoc seminar (approx \$500), AWWA Rate course (\$500)	1,500
· ·	Merchant Fees & bank charges on CC transactions @	
	\$6,660/MO, This has increased significantly due to increased	
7655- Bank/Investment Charges	online utility payments	80,000

Water Pollution Control Facility Administration

GL Account *	Notes	2020
7111- Regular Employees		342,482
7112- Salaries & Wages - Seasonal	Plant Intern(s)	15,000
7211- Disability		1,407
7212- Health		36,273
7213- Life		718
7214- Dental		1,239
7215- Workers Compensation	Seasonal Workers Comp	376
7215- Workers Compensation		3,728
7221- General Employees		9,699
7227- 401K		4,656
7231- FICA	Seasonal FICA	774
7231- FICA		15,034
7234- Medicare		3,516
7234- Medicare	Seasonal Medicare	181
7314- Office Supplies & Materials		1,920
	UV germicide replacement bulbs for offices and meeting	
7321- Medical/Chemical	rooms; first aid kits.	200
	20 uniformed employees @ \$225 allotment for jeans, shirts,	
	jackets, sweatshirts, coveralls, labcoats, etc. Increased budget	
7325- Clothing And Uniforms	due to underbudgeting in 2018 and higher clothing costs.	4,725
, ozo eletimik, mia elimetime	2019 cost 154.36 gallons of Unleaded at \$2.75/gal. 2020 cost	.,. 23
7328- Fleet Fuel	154.36 gallons of Unleaded at \$2.95/gal.	455
	Small batteries, brushes, name tags, rubber stamps,	
	calculators, annual planners and calendars, flash drives, food	
	items for necessary meetings, employee recognition awards.	
	Underbudgeted in 2018. Increased costs also due to an	
7329- Other Operating Supplies	anticipated increase in employee retirement celebrations.	1,500
7344- General Maintenance Supplies	Miscellaneous supplies for admin. staff.	150
	2019: Weather station sensor replacement, 2 office 24"	
	monitors; weather station's misc. components; 1 new office	
	chait. 2020: weather station sensor replacement, weather	
	station's misc. components; two new office chairs. Each year,	
7362- Small Items Of Equipment \$100 - \$5,000	one replacement computer, \$900.	2,300
7411- Postage	For certified letters to state, EPA, customers.	50
7418- Advertising	Advertising for new employees. Legal ads & notices.	400
7424- In-House Copying	Canon ID #404-a copy machine annual costs.	3,200
,	Award nomination packages' printing costs/materials; misc.	
7426- Outside Printing	admin. printing costs.	350
	WEF dues for 2 employees, Water Research Foundation (WRF)	
	annual dues, Colorado Wastewater Utility Council (WWUC)	
	annual dues, Colorado Monitoring Framework (CMF) annual	
	dues, National Registry of Environmental Professionals (NREP)	
	- ·	
	annual dues. 2019 & 2020-each year one operator	
	certification renewal. New replacement phamplets, DVD's,	
	brochures, display boards, etc. for public education & outreach	12 705
7422 Dublingtions Cubernintions of Document		
7432- Publications, Subscriptions, and Dues	program for each year.	13,785
7432- Publications, Subscriptions, and Dues	Monthly phone service for plant and cell phone monthly	13,765
7432- Publications, Subscriptions, and Dues 7445- Telephone		3,350

	Provide outside assistance on regulatory matters when in-	
7452- Legal	house counsel is needed and unavailable.	2,500
	Outside services to assist with employee refresher training	
	requirements for stormwater/spill prevention, and for	
	troubleshooting emergency situations when in-house City staff	
	is unable to resolve a problem. TMMI annual sofware	
	maintenance agreement for plant-wide SCADA computer	
	system, Specter Instruments 911 alarm paging system	
	software maintenance; Allen-Bradley (Rexel) software	
	maintenance agreement, HACH WIMS annual software	
	maintenance agreement with one additional license each year.	
	Increase is due to need for Hach software maintenance	
	agreement and additoinal clients (licenses) for the WIMS	
7458- Other Professional Services - White collar	database.	21,500
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance:	887
	Costs for general maintenance of Admin bldg. such as carpet	
7466- Buildings	cleaning.	500
7469- Other Repair Maintenance Services	Vacuum and misc. office equipment repairs.	650
	Water Environment Federation Technical Conference	
	(WEFTEC) in Chicago (2019), New Orleans (2020) for Plant	
	Supt. & Process Analyst for 4 days. RMSAWWA/RMWEA	
	Annual Conference (2019) at Keystone, CO. Equipment site	
7472- Hotel & Motel	visits.	2,550
	GSA per diem x 3 days @ RMWEA/RMSAWWA 2019 Annual	
	Conference at Keystone, CO; WEFTEC 2019 Chicago, IL and	
7473- Meals	WEFTEC 2020 New Orleans, LA respectively	512
	Roundtrip airfare to WEFTEC 2019 Chicago, IL, and WEFTEC	
	2020 New Orleans, LA. Misc. air travel for equipment/process	
7474- Air Travel	site visits per Master Plan recommendations.	1,620
	Mileage to attend RMWEA/RMSAWWA Annual Conferences	2,020
	and biosolids conferences. Travel to and from Denver (for	
	airport parking) for WEFTEC Conferences. Annual Denver	
7475- Mileage	seminars.	553
	2019-2020: Roundtrip shuttle fees when attending WEFTEC	
	2019 in Chicago, IL, and New Orleans in 2020. Parking fee (2	
	vehicles) at DIA when attending both WEFTEC Conferences.	
	Taxi fees at conferences. Parking fees for science fair judges at	
	annual Colorado Science & Engineering Fair (CSEF) at CSU.	
7477 - Other Travel	Underbudgeted in 2018.	270
	2019: For Supt. and Process Analyst-Professional Wastewater	
	Operator's (PWO) classes; RMWEA Annual Conference,	
	Loveland, CO; WEFTEC Conference, Chicago, IL; RMWEA	
	Denver, CO Biosolids Conference; Three classes for	
	Admin.Specialist. 2020: Professional Wastewater Operator's	
	(PWO) classes; RMWEA Annual Conference, Denver, CO;	
	RMWEA Denver, CO Biosolids Conference; WEFTEC	
	Conference, New Orleans, LA. Three classes for	
	Admin.Specialist. Increase is due to some higher conference	
7478- Registration	fees.	3,260

2019- 2020: Colorado Discharge Permit System (CDPS) anticpated new annual permit fee \$28,000; Colorado stormwater discharge annual permit fee \$200; state certified truck scale annual fee \$300; Colorado Dept. of Public Health & Environment (CDPHE) air permit annual fee \$750; CDPHE air pollution emission notification update fees for WPCF \$500; UPS mail service charges \$100. Increase in budget is due to higher CDPS and CDPHE air permit fees. The CDPHE annual biosolids fee, \$4,000, is being added to the budget since the new contarct with biosolids hauler requires the City to pay the annual fee directly to CDPHE.

7496- Other Purchased Services - Blue Collar

33,850

Funds to support relevant research efforts that are of benefit to the plant (e.g., Colorado Monitoring Framework (CMF) (Nutrients); Colorado School of Mines (Demon Process).

7811- Grants-Outside Public Agency

4,000

Water Pollution Control Facility Laboratory

Water Pollution Control Facility Laboratory GL Account *	Notes	2020
7111- Regular Employees	INULCS	223,201
7211- Negulai Employees 7211- Disability		1,295
7212- Health		36,273
7213- Life		663
7214- Dental		1,239
7215- Workers Compensation		4,218
7221- General Employees		8,928
7227- deneral employees 7227- 401K		4,285
7231- FICA		13,839
7234- Medicare		3,236
7234- Medicale		3,230
7314- Office Supplies & Materials	Pens, pencils, folders, binders, labels, clipboards, etc. for lab.	250
	The increase is due to underbudgeting in 2018, and a new	
	anticipated CDPS plant discharge permit which requires more	
	water quality analyses being performed, adding \$3,560 for	
	additional reagents, EPA(QA/QC) standards, analytical	
	glassware, sample bottles and jugs. Other items in the budget	
	include: DO & pH probes, thermometers, filters and filtering	
	equip, poly and nitrile gloves, river sampling supplies, e.coli	
	and fecal coliform supplies, laboratory chemicals, reagents,	
	indicators, ph buffers, supplies and storage solution, Hach	
7321- Medical/Chemical	reagents and equipment.	16,000
	Waders for river work, work gloves, clean metals sampling	
7325- Clothing And Uniforms	suits, safety glasses.	800
7329- Other Operating Supplies	Batterries, calendars & refills, items under \$100.	260
7333- Machinery, Vehicle & Equipment Parts	Testing and parts for lab equipment.	600
7344- General Maintenance Supplies	Cleaning and routine maintenance supplies for the lab.	550
	The increase is due to a new anticipated CDPS plant discharge	
	permit requiring more water quality analyses. Laboratory and	
	field instruments, LBOD probe, computer software upgrades,	
	lab chair, river monitoring equipment, digital buret, research	
	pippettes, E.coli Quanti-Tray sealer, laboratory probes, sample	
	refridgerator, BOD incubator, analytical balance. Each year,	
7362- Small Items Of Equipment \$100 - \$5,000	one new computer w/dual montiors, \$1,400.	11,400
7411- Postage	Postage for lab mailings.	20
7426- Outside Printing	Business cards for lab staff.	135
7420 Outside Fritting	business cards for lab start.	133
	Standard methods, lab manuals, professional publications &	
	newsletters, membership fees for professional organizations,	
7432- Publications, Subscriptions, and Dues	analysts and operator's license renewals.	732
	Expense for professional data processing instructions and	
	services via an IGA with the State of Colorado Division of Water	
7458- Other Professional Services - White collar	Resources satellite-linked river gauge monitoring system.	4,400
	Analytical balance calibrations, repair and maintenance of	
	laboratory equipment, sample refridgerator, incubators,	
7461- Machine, Vehicle, Equipment	ovens, autoclaves, centrifuges.	1,600
	,,,	2,000

7472- Hotel & Motel 7473- Meals	Lab personnel to acquire needed certification training units via the Rocky Mtn. Water Quality Analysts Association (RMWQAA) conference and Rocky Mtn. Water Environment Association (RMWEA) conference. Lab personnel to acquire needed certification training units via the Rocky Mtn. Water Quality Analysts Association (RMWQAA) conference and Rocky Mtn. Water Environment Association (RMWEA) conference.	500 250
7475- Mileage 7477- Other Travel	Mileage for training, classes and meetings. For meetings on nutrient modeling for new regulations. RMWQAA conference, workshops and meetings. Colorado Monitoring Framework (CMF) Workshop and meetings in the Denver area. Lab personnel to attend analytical and regulatory classess through the RMWQAA and RMWEA Lab Practices program. Parking fees when judging state science fair at CSU.	400 20
7478- Registration	Registration to attend the Rocky Mtn. Water Environment Association (RMWEA) conference and RMWEA biosolids conference. Registration for lab personnel to attend the RMWQAA conference. Lab personnel to attend analytical and regulatory classess through the RMWQAA and RMWEA Lab Practices program. Underbudgeted in 2018.	1,400
7496- Other Purchased Services - Blue Collar	The increase is due to a new anticipated CDPS plant discharge permit which will require more water quality analyses. There will also be an increase in sites for river monitoring to perform fish and benthic studies. Biomonitoring (extra funds must always be available if sample failure occur; must then perform required TIE & TRE studies). Funding for any plant unscheduled emergency sampling and project analyses. River monitoring: nutrients, metals, benthic study, fish study and Reg #85 analyses. Higher costs for field QA/QC by the Lower Poudre River Monitoring Alliance. Clean metals mercury analysis quarterly. Effluent metals analyses. Hazardous air polluntants (HAP's), digester gas analyses. QA/QC splits w/contract labs. Biosolids metals and nutrient analyses plus Biosolids dioxins scan & radioactivity tests. Deionized water testing.	49,280
7631- Rent	Deionized water purification system for plant's main laboratory	2,500

Water Pollution Control Facility Maintenance

GL Account * 7111- Regular Employees	Notes	2020 357,634
Hagaiar Employees	Budget is to help offset employee comp time accruals and	337,034
7121- Overtime-Regular	upcoming maintenance mechanic retirements.	4,500
7211- Disability		2,075
7212- Health		54,411
7213- Life		1,060
7214- Dental		1,859
7215- Workers Compensation		7,787
7221- General Employees		14,305
7227- 401K		6,867
7231- FICA		22,175
7234- Medicare		5,185
7314- Office Supplies & Materials	Office supplies for maintenance staff.	250
	Pendulum concentrate ground kill. Roundup weed kill 5 gal.	
	Insecticide. Odor chemical Struvite (ammonium magnesium	
	phosphate) control chemical. Cleaning gas (HCI) for aeration	
	basin diffusers (includes hazardous shipping). Lawn fertilizer.	
	Media for biogas scrubber every other yr (2018; 2020).	
	Increase in 2020 is due to purchase of media for the new larger	
7321- Medical/Chemical	gas scrubber.	57,990
	Arc flash safety items for both 2019 and 2020. Safety boots.	
	Safety glasses. Rubber boots/rain gear. Work gloves/20 pairs;	
7325- Clothing And Uniforms	hearing protection.	3,520
	2019 cost 2071.4 gallons of Unleaded at \$2.75/gal. 2020 cost	
	2071.4 gallons of Unleaded at \$2.95/gal. 2019 cost 1501.14	
	gallons of Diesel at \$3.06/gal. 2020 cost 1501.14 gallons of	
7328- Fleet Fuel	Diesel at \$3.26/gal.	11,005
	Miss hattacks for all the Control of Control (1997)	
	Misc batteries for plant use. Batteries for SCADA UPS systems,	
	change 3 units per year. Golf cart batteries, backup generators,	
7220 Other Operating Complian	2 batteries each x one generator per year. Increase due to golf	2.450
7329- Other Operating Supplies	cart and generator batteries.	3,150
	Digester recirc pumps - 6 units. Return activated sludge pumps	
	4 units. Effluent flood pumps 3 units,. Trash pumps 2 units. 12"	
	diesel backup trash pump 1 unit. Centrifuge overhaul one unit	
	each year, centrifuge gearbox. Heat loop pumps 4 units, New	
	centrate treatment system which includes lift station 2 pumps,	
	5 mixers, 2 blowers, 3 transfer pumps, golf cart parts, 4 units.	
	Grit turbo pumps 2 units, 1 overhaul/yr. Various	
	Grit turbo pumps 2 units, 1 overhaul/yr. Various heating/cooling valves; boards for 9 HVAC units. Waste gas	
	Grit turbo pumps 2 units, 1 overhaul/yr. Various heating/cooling valves; boards for 9 HVAC units. Waste gas flare ignitor/starter. New polymer feed systems 3 units.	
	Grit turbo pumps 2 units, 1 overhaul/yr. Various heating/cooling valves; boards for 9 HVAC units. Waste gas flare ignitor/starter. New polymer feed systems 3 units. Digester biogas equipment parts. Pump packing. Headworks	
	Grit turbo pumps 2 units, 1 overhaul/yr. Various heating/cooling valves; boards for 9 HVAC units. Waste gas flare ignitor/starter. New polymer feed systems 3 units. Digester biogas equipment parts. Pump packing. Headworks and digester gas monitors - 3 sensors/yr. Yard hydrant caps,	
	Grit turbo pumps 2 units, 1 overhaul/yr. Various heating/cooling valves; boards for 9 HVAC units. Waste gas flare ignitor/starter. New polymer feed systems 3 units. Digester biogas equipment parts. Pump packing. Headworks and digester gas monitors - 3 sensors/yr. Yard hydrant caps, seals, brass fittings. Dewatering sludge pump parts. Biogas	
	Grit turbo pumps 2 units, 1 overhaul/yr. Various heating/cooling valves; boards for 9 HVAC units. Waste gas flare ignitor/starter. New polymer feed systems 3 units. Digester biogas equipment parts. Pump packing. Headworks and digester gas monitors - 3 sensors/yr. Yard hydrant caps, seals, brass fittings. Dewatering sludge pump parts. Biogas booster pumps - 2 units. Band saw & table saw blades and	
	Grit turbo pumps 2 units, 1 overhaul/yr. Various heating/cooling valves; boards for 9 HVAC units. Waste gas flare ignitor/starter. New polymer feed systems 3 units. Digester biogas equipment parts. Pump packing. Headworks and digester gas monitors - 3 sensors/yr. Yard hydrant caps, seals, brass fittings. Dewatering sludge pump parts. Biogas booster pumps - 2 units. Band saw & table saw blades and bits. Emergency backup power generators - 3 units. Greases,	
	Grit turbo pumps 2 units, 1 overhaul/yr. Various heating/cooling valves; boards for 9 HVAC units. Waste gas flare ignitor/starter. New polymer feed systems 3 units. Digester biogas equipment parts. Pump packing. Headworks and digester gas monitors - 3 sensors/yr. Yard hydrant caps, seals, brass fittings. Dewatering sludge pump parts. Biogas booster pumps - 2 units. Band saw & table saw blades and bits. Emergency backup power generators - 3 units. Greases, oils for equipment. Replace electrical wire in aging conduit	
	Grit turbo pumps 2 units, 1 overhaul/yr. Various heating/cooling valves; boards for 9 HVAC units. Waste gas flare ignitor/starter. New polymer feed systems 3 units. Digester biogas equipment parts. Pump packing. Headworks and digester gas monitors - 3 sensors/yr. Yard hydrant caps, seals, brass fittings. Dewatering sludge pump parts. Biogas booster pumps - 2 units. Band saw & table saw blades and bits. Emergency backup power generators - 3 units. Greases, oils for equipment. Replace electrical wire in aging conduit runs. Dewatering boiler gaskets yearly cleaning. Catch basin	
7333- Machinery, Vehicle & Equipment Parts 7338- Water,Sewer,Irrigation Line Repair Parts	Grit turbo pumps 2 units, 1 overhaul/yr. Various heating/cooling valves; boards for 9 HVAC units. Waste gas flare ignitor/starter. New polymer feed systems 3 units. Digester biogas equipment parts. Pump packing. Headworks and digester gas monitors - 3 sensors/yr. Yard hydrant caps, seals, brass fittings. Dewatering sludge pump parts. Biogas booster pumps - 2 units. Band saw & table saw blades and bits. Emergency backup power generators - 3 units. Greases, oils for equipment. Replace electrical wire in aging conduit	66,570 1,850

7344- General Maintenance Supplies	Bottled gases for cutting torches/brazing. Welding rods/supplies. Maint. Tools. Concrete supplies. Metal pipe, fittings, hardware, steel plate. Lumber for plant projects. PVC pipe and fittings. Paper produces for bathrooms and offices. Paint and supplies. Light bulbs/ballasts. Valves, pressure gauges. Electrical: breakers, contactors, fuses. Programmable controller cards for plant racks. HVAC filters for air handlers. Air filters for 3 Turbo blowers 15 ea x 3 blowers. Floormats for all buildings. New signage for plant. Underbudgeted in 2018.	58,160
7348- Plant Materials	Mulch, tree and plant replacements, rock for plant grounds Replace flow/level meters – 6 ea/yr. New office furniture. New dataports for paperless computerized maintenance	8,000
7362- Small Items Of Equipment \$100 - \$5,000 7411- Postage 7418- Advertising	management software. Each year, one new computer w/dual monitors, \$1,400. Postage for mailings. Advertising for new maintenance personnel.	21,900 150 200
	Safety handbooks and correspondence course materials. Maintenance/operations correspondance courses. WEF	200
7432- Publications, Subscriptions, and Dues	membership yearly dues. Two certifications renewals. One cell phone for maintenance mechanic plus one for supervisor, including upgrades and accessories.	1,445
7445- Telephone	Underbudgeted in 2018. Plant trash disposal, nine dumpsters picked up five times/week, two specialized dumpsters for oily waste, picked up as needed. Increase due to changing amount of trash	1,250
7446- Other Utility	pickups to 5 times/week.	4,500
7458- Other Professional Services - White collar	Programmable logic controller (PLC) programming. Testing and certification of plant breakers, medium voltage switches, power metering modules, six areas. Funds added to remove and dispose of the old media from gas scrubber unit in 2019. Turf mower repairs. Machine shop repairs. Motor rewinds, crane and hoist repairs. Flow and level meter calibration.	6,600
7461- Machine, Vehicle, Equipment 7462- Equipment Maintenance Charges	Variable speed drives repairs. Generator PM 3 units. Fire extinguisher PM. Budgeted by Equipment Maintenance:	29,800 5,628
7465- Grounds	Misc. landscaping services (e.g. tree removal near river) (2019). Roto-rooter service for plant drains. Increase is due to adding an annual tree & building insect traps and spray service.	2,700
7466- Buildings 7468- Streets, Roads, Traffic Lights	Boiler inspections. CDS-1 annual inspection of 2 boilers. HVAC tech services. Outside contracted cleaning services for buildings annually. Increase is due to the last item which has been budgeted in operations and now moved to maintenance. Plant road maintenance. Crack sealing, seal coating, chip seal. Increase in 2019 is due to significant repairs to South Plant road after construction project. Outside service for outdoor light pole repairs.	10,600 6,500
7400 Streets, noads, traffic Lights	iight pole repairs.	0,500

	In 2019 & 2020, Vogelsang pump service school or related maintenance training for one new employee, and hotel for two employees to attend the RMWEA/2019 RMSAWWA Annual Conference in Keystone, CO. Both years, WEFTEC. Equipment site visits. Increase is due to not budgeting for WEFTEC in the past, equipment site visits, and sending more than one	
7472- Hotel & Motel	employee to the RMWEA/RMSAWWA Annual Conference. 2019: RMWEA/RMSAWWA Annual Conference (Keystone, CO). 2020 RMWEA Annual Conference (Loveland, CO). Both years,	3,100
7473- Meals	service school. 2019 WEFTEC (Chicago). 2020. WEFTEC (New Orleans).	567
	Airfare to maintenance pump service school, 1 employee.	
7474- Air Travel	WEFTEC airfare. Misc. airfare for equipment site visits per Master Plan recommendations.	1,620
7474 All Havei	Reimbursement for driving to and from conference in	1,020
	Keystone, CO @ 124 miles each way. Misc. expenses for	
7475- Mileage	mileage reimbursement in 2019 & 2020.	232
7477- Other Travel	Shuttle, taxis when attending WEFTEC.	75
	2019 & 2020: registration for pump service school, various seminars in the local area required for training units. 2019 RMWEA/RMSAWWA Annual Conference (Keystone, CO) for two employee. Both years, registration for electrical safety training for OSHA qualified worker. 2020: Two full registrations for RMWEA Annual Conference (Loveland, CO); three employee one-day registrations. Increase is due to sending more mechanics to the 2020 RMWEA/RMSAWWA	
7478- Registration	Anuual Conference.	2,395
	Underground storage tank testing, annual truck scale certification, oil testing 20 tests, backflow preventer testing 11 units, upgrades to backflow prevention devices to meet new regulatory requirements (2019); US mailing service, wastewater certification testing, boiler water treatment,	
7496- Other Purchased Services - Blue Collar	annual crane and hoist inspections. Various instrumentation service/repair/calibration. Underbudgeted in 2018. Rental of pumps, scaffolding, lifts, centrate reactor warming equipment; other emergency equipment. Gasoline storage	11,915
7631- Rent	tank lease for plant use.	7,000

Water Pollution Control Facility Operations

	2020 601,055
Occasional overtime pay to help offset comp time accruals. Requesting additional funds due to wage increases and several	001,000
pending employee retirements.	6,000
*	3,484
	108,819
	1,802
	3,717
	11,361
	24,041
	11,540
	37,266
Dana manaila himdaya faldaya ata fay anayatiana	8,713
Pens, pencils, binders, folders, etc. for operations.	500
Polymer for 2018 dewatering and the new PW Tech volute	
thickeners. pH buffer, sulfuric acid, reagents, Sampler pump	
tubing peristaltic, intake tubing, disinfection backup chemicals	
•	
	510 000
·	518,899
	3,350
	3,330
413.03 gallons of Unleaded at \$2.95/gal.	1,218
Batteries, keys, flow chart recorder paper and pens, sludge	
· · · · · · · · · · · · · · · · · · ·	3,000
	4 200
	1,200
buildings.	1,350
Flow cell for UVT meter, operations probes/electroyte for field	
meter, replace AB1 DO meter, replace bench pH meter probe,	
probe failures & replacements. Replace bench DO/OUR meter	
	22.450
	22,150
retirements pending.	400
ACTUALITY OF THE PROPERTY OF T	400
In-house copying Business cards for staff. Signs for plant sponsored RMWEA	170
	Requesting additional funds due to wage increases and several pending employee retirements. Pens, pencils, binders, folders, etc. for operations. Polymer for 2018 dewatering and the new PW Tech volute thickeners. pH buffer, sulfuric acid, reagents, Sampler pump tubing peristaltic, intake tubing, disinfection backup chemicals chlorine, sulfur dioxide, soda ash, caustic soda beads, bioaugmentation novozymes bioremove 5805, polymer cleaner, H2S gas measurement tubes, microscope stains, sodium bicarbonate for alkalinity, Ferric chloride. defoamer for dry polymer, lab glassware, pipettes, micronutrients for anammox treatment process. PAX chemical addition for filament control. Hach bench testing process control lab supplies for the DEMON process. Steel toe boots, prescription safety glasses, work gloves, ear plugs, rubber boots, rain gear, safety glasses (non-prescription). 2019 cost 413.03 gallons of Unleaded at \$2.75/gal. 2020 cost 413.03 gallons of Unleaded at \$2.95/gal. Batteries, keys, flow chart recorder paper and pens, sludge coretakers, latex gloves 10 cases. Underbudgeted in 2018. Parts for operations vehicles, samplers, and lab equip., vehicle tires. Cleaning supplies for dewatering and operations annex buildings. Flow cell for UVT meter, operations probes/electroyte for field meter, replace AB1 DO meter, replace bench pH meter probe,

7432- Publications, Subscriptions, and Dues	Reference books for operations, Water Enviro. Federation (WEF) membership for operations supervisor and senior plant operator A, Rocky Mountain Water Environment Association (RMWEA) memberships for 5 operators.	1,510
	Adding a 5% increase per year. WPCF withdrew from Xcel Energy's ISOC program on Feb. 1, 2018 which is projected to increase plant's electrical costs by \$50K even with the recently installed energy-saving volute sludge thickeners. Also, a third primary digester has been added to operations. Providing	
7441- Electric	heat to this digester will increase energy costs.	567,920
744 0	Anticipated 5% increase per year. New two larger boilers have recently been installed. It is difficult to predict annual natural	50 525
7444- Natural Gas	gas usage for the next two years. Cell phone use for operations staff, 5 phones. Additional funding is being requested for	59,535
7445- Telephone	replacement/uprgades/accessories. Service on John Deere gator vehicle by Three Rivers Equipment. Wastewater sampler service, operations lab balance service, truck scale repair, alarm pager/city radio	4,000
7461- Machine, Vehicle, Equipment	repair, annual microscope service.	1,700
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance: Outside professional services for Dewatering & Operations Annex buildings. This budget has been moved to the	1,185
7466- Buildings	maintenance budget.	
	Leadville plant operator school lodging. For Operations Supervisor, WEFTEC Chicago (2019), WEFTEC New Orleans(2020). 2019 Keystone, CO JAC. Requesting additional funds for anticipated Master Plan recommended equipment	
7472- Hotel & Motel	site visits in both 2019 and 2020.	2,500
	2019 & 2020: Leadville operator school, Denver area activated sludge troubleshooting 3 days, Denver area biological nutrient removal, RMWEA/RMSAWWA annual conference (Keystone, CO). 2020RMWEA/RMSAWWA annual conference (Loveland,	
	CO). For Operations Supervisor, WEFTEC 2019 & 2020	
7473- Meals	Chicago, IL & New Orleans, LA respectively. Increase is due to sending more staff members to the Joint Annual Conference.	948
	For Operations Supervisor, roundtrip airfare to WEFTEC 2020 Chicago, IL, and WEFTEC 2019 New Orleans, LA. For 2019 & 2020, 2-3 anticipated equipment site visits per recommendations from Master Plan. Increase is due to	
7474- Air Travel	expected additional air travel equirements.	1,160

7631- Rent	Gas Detector Rental Agreement. Underbudgeted in 2018.	3,000
7496- Other Purchased Services - Blue Collar	operators.	194,958
	shipping charges. WW Operator license renewal for 4	
	A 5%/yr increase in costs for 2019 & 2020. Microscopic evaluations by Dr. Michael Richard 4x/year. UPS/FEDEX	
7478- Registration	resulting from several expected retirements.	4,545
	certification exam. Increased budgets for new employees	
	Collins), 2. Both years, reimbursement for state operator	
	October-Estes Park, Nov-annual biosolids conference in (Ft.	
	September, WEFTEC (New Orleans) for Operations Supervisor,	
	RMWEA/RMSAWWA annual conference (Loveland, CO),	
	Denver Metro, June-activated sludge troubleshooting, Denver area, June, PWO seminar, Greeley, JulyLeadville conference,	
	(RMWEA) operator training-Feb, Denver, March-Golden, May-	
	(Ft. Collins). 2020: Rocky Mtn. Water Environment Association	
	October-Estes Park, November, biosolids annual conference	
	September; WEFTEC (Chicago) for Operations Supervisor,	
	RMWEA/RMSAWWA annual conference (Keystone, CO)	
	troubleshooting, Denver area, July-Leadville,	
	Metro, June, PWO seminar, Greeley, June-activated sludge	
	operator training-Feb, Denver, March-Golden, May-Denver	
	2019: Rocky Mtn. Water Environment Association (RMWEA)	
7477- Other Travel	Shuttles and taxis when attending WEFTEC.	471
	Airport parking fees. Car rental for equipment site visits.	
7475- Mileage	vehicles.	827
	depending on conference venues and availability of City	
	of seminar and site visits is requested. Budget fluctuates	
	Keystone, CO (2019) Loveland, CO (2020). Additional funding	
	Denver area 130 miles; biological nutrient removal Denver area 130 miles-RMWEA/RMSAWWA annual conference	
	Denver area 120 miles: biological putrient removal Denver	

Roundtrip mileage @ \$0.55/mile. In 2019 & 2020, Leadville operator school 234 miles, activated sludge troubleshooting

Industrial Pretreatment

industrial Pretreatment	N-1	
GL Account *	Notes	2020
7111- Regular Employees		217,086
7211- Disability		1,255
7212- Health		36,273
7213- Life		644
7214- Dental		1,239
7215- Workers Compensation		4,086
7221- General Employees		8,648
7227- 401K		4,151
7231- FICA		13,406
7234- Medicare		3,135
	Supplies such as pens, paper file folders, office desk items,	
7314- Office Supplies & Materials	paper.	450
	pH buffer solutions, Hach test reagents. Misc. chemical	
7321- Medical/Chemical	cleaners and acids; supplies for cleaning the pretreatment lab.	1,025
	One pair glasses; safety boots & vests for two industrial	
	pretreatment technicians; work gloves; protective coveralls are	
	needed because of working in and around city manholes with	
	pretreatment sampling equipment and for low level mercury	
7325- Clothing And Uniforms	sampling. Underbudgeted in 2018.	1,000
	2019 cost 147.99 gallons of Unleaded at \$2.75/gal. 2020 cost	
7328- Fleet Fuel	147.99 gallons of Unleaded at \$2.95/gal.	437
	Batteries, printer cartridges, field instruments, ISCO (the	
	manufacturer of the automatic composite sampler) supplies,	
	jugs, tubing, glassware, award certificates for commercial and	
	industrial users, miscellaneous pretreatment operating	
	supplies; filter replacements for the cleaning room and acid	
7329- Other Operating Supplies	filters. Added a 5% increase in costs/year.	2,200
	Various equipment parts for sampling and lab workstation in	•
7333- Machinery, Vehicle & Equipment Parts	the industrial pretreatment vehicle.	330
,	Small tools, equipment and supplies for field repairs and	
7344- General Maintenance Supplies	sampling set-up.	400
	2019 and 2020: misc. items for the pretreatment program.	
7362- Small Items Of Equipment \$100 - \$5,000	Each year, one new computer w/dual monitors, \$1,400.	2,400
	Classification mailings; Best Management Practrices program	_
7411- Postage	mailings; misc. notices and orders.	500
	Significant noncompliant public notices and industrial user	
	permit public notices. Annual fee for Public Service	
	Announcements (PSA's) on Pharmaceuticals, and Personal Care	
7418- Advertising	Products (PPCP's).	6,250
7424- In-House Copying		700
	Duplication of manuals, information pamphlets, printing of	
7426- Outside Printing	Best Management Practices participant window stickers.	300
	Pretreatment reference materials, CIPCA Pretreatment	
	membership dues; Rocky Mtn. Water Environment	
	Association's dues; operator certification renewal fees,	
	Consortium for Research & Education on Emerging	
7432- Publications, Subscriptions, and Dues	Contaminants (CREEC) annual membership fees.	600
7-52 Tubications, Subscriptions, and Dues	contaminants (cheec) annual membership rees.	000

7445- Telephone	Cell phone charges (including upgrade costs) for the pretreatment staff.	950
	Service contract for Linko industrial pretreatment program	
	software. A 3rd license added in 2019 for. Service contract for	
7458- Other Professional Services - White collar	Portalogic software (waste hauler's dump station controller).	6,050
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance:	678
	Outside repair of industrial pretreatment sampling equipment	
7469- Other Repair Maintenance Services	or instrumentation.	1,000
	Budget is for two employees to attend the National Association	
	of Clean Water Agencies (NACWA) Pretreatment & Pollution	
	Prevention Workshop, or EPA Region 8 Pretreatment	
7472- Hotel & Motel	Workshop.	1,840
7473- Meals	Per Diem while attending workshop.	520
	Annual NACWA national (or EPA Regional) pretreatment	
7474- Air Travel	workshop for two employees. Roundtrip airfare.	900
	Anticipated costs to attend the Colorado Industrial	
7475- Mileage	Pretreatment Coordinator's Association (CIPCA) meetings.	400
	Fees for airport parking, shuttles, taxis; rental cars.	
7477- Other Travel	Underbudgeted in 2018.	600
	Annual Colorado Industrial Pretreatment Coordinators	
	Association (CIPCA) Fall conference; annual Rocky Mtn. Water	
	Envir. Assoc. (RMWEA) PWO operator's certification training;	
7478- Registration	annual NACWA pretreatment workshop.	2,010
	Permit required compliance monitoring of Significant Industrial	
	users (SIU's); CDPS permit required monitoring of WPCF	
7496- Other Purchased Services - Blue Collar	influent and effluent, and local limits monitoring.	11,830
	Confined space gas detector lease; deionized water filter	
	system lease for pretreatment clean room lab.	
7631- Rent	Underbudgeted in 2018.	3,000
	Funds distributed by the City to the Poudre Learning Center to	,
	assist them with the procurement of needed water testing	
7811- Grants-Outside Public Agency	supplies for the students.	2,500

Wastewater Collection

7111- Regular Employees		617,437
- , ,	Overtime for On-call, after hours emergency repairs, and in-	
7121- Overtime-Regular	house construction projects	24,680
7211- Disability		3,580
7212- Health		139,045
7213- Life		1,881
7214- Dental		4,749
7215- Workers Compensation		16,458
7221- General Employees		24,696
7227- 401K		11,857
7231- FICA		38,280
7234- Medicare		8,955
7314- Office Supplies & Materials		2,781
7321- Medical/Chemical	Chemicals to treat lift stations and general shop maintenance	43,747
7325- Clothing And Uniforms	Uniforms and safety equipment for 11 employees	7,600
	2019 cost 3010.87 gallons of Unleaded at \$2.75/gal. 2020 cost	
	3010.87 gallons of Unleaded at \$2.95/gal. 2019 cost 8919.61	
	gallons of Diesel at \$3.06/gal. 2020 cost 8919.61 gallons of	
7328- Fleet Fuel	Diesel at \$3.26/gal.	37,960
	Propane and batteries for radios, flash lights, locators, pagers,	,
7329- Other Operating Supplies	cell phones and gas monitors.	2,748
and a man of an anni of a shift man	Parts for the repairs of equipment at 10 lift station, and 24	_,
7333- Machinery, Vehicle & Equipment Parts	pieces of various equipment	34,508
7338- Water,Sewer,Irrigation Line Repair Parts	Parts and components used in the repair of sewer mains.	9,870
, , ,	Supplies used to maintain 10 lift station, shop, and the WWC	•
	system. Electrical parts, locating paint, janitorial supplies and	
7344- General Maintenance Supplies	hand tools.	13,53
	Supplies used in the repairs made to the system, flow fill,	,
7346- Street & Traffic Repair and Maintenance Supplies	sand, rock concrete, and cold mix.	2,189
7348- Plant Materials	Jana, rock concrete, and cold mix.	170
75 TO TRAINE MALESTALS	Confined space equipment, chop saws, specialized manhole	
7362- Small Items Of Equipment \$100 - \$5,000	lifting equipment	12,143
7411- Postage	mang equipment	2!
7411- Fostage 7418- Advertising		29!
7424- In-House Copying		35!
		30!
7426- Outside Printing		
7432- Publications, Subscriptions, and Dues		510
7441- Electric	Electrical cost for operating 10 lift stations and the shop	52,257
7444- Natural Gas	Used for lift station emergency generator backup and heating the maintenance shop	7,79
	•	•
7445- Telephone	Cell phone service and laptop data plans	5,939
7446- Other Utility		490
7458- Other Professional Services - White collar		1,600
7461- Machine, Vehicle, Equipment	Outside contractor repairs on vehicles and pumps Budgeted by Equipment Maintenance: 2yr avg, vehicles and	14,000
7462- Equipment Maintenance Charges	equipment	49,750
7465- Grounds	• •	3,320
• • •	Annual maintenance for hvac system and misc repairs and	-,
7466- Buildings	roof repairs	2,516
7466- Streets, Roads, Traffic Lights	Asphalt patching	3,200
_	Ashiair harriilig	
7469- Other Repair Maintenance Services		615
7473- Meals		28
7478- Registration	Training for operator certification testing and renewals	10,650
7496- Other Purchased Services - Blue Collar	Share of call tickets at 1.45 per request	9,765



Water & Sewer 2020 Operating Budget and 5 Year CIP

July 17, 2019

Overview

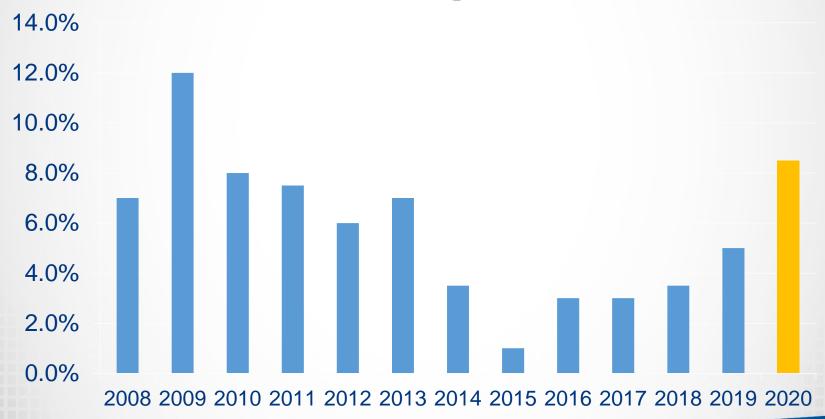
- Rates/Revenue
 - Model assumptions
 - Rate changes
- Operating
 - Supplemental requests
- Capital
 - Review program drivers
 - New projects

2020 Model Information

- Growth rate from Community Development projections
- Single family water use = 124,000 gallons/year
 - Unchanged from 2019 model

Water Fund

History of Water Rate Changes



Residential Water Budget Rate Structure

Rate Structure for Greeley SFR customers in 2020

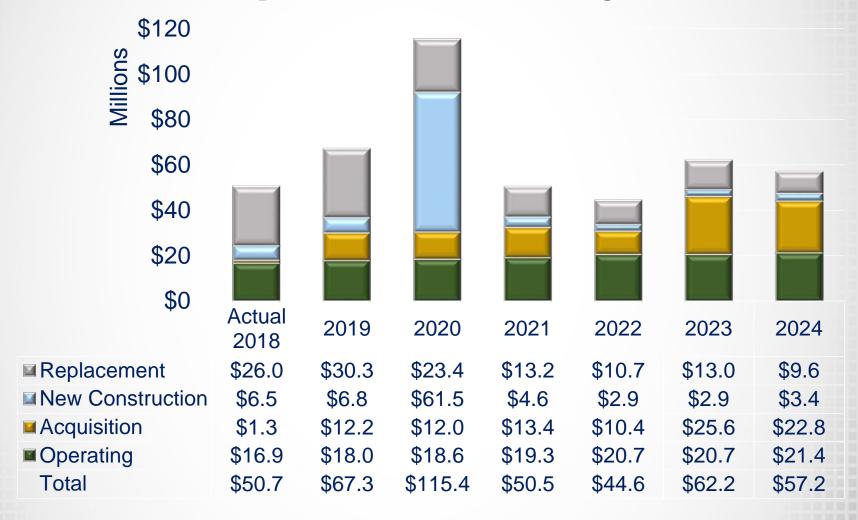


- Uniform rate is \$5.02 for customers not on water budget
- Monthly service charge \$14.35

Proposed Water Rate Changes

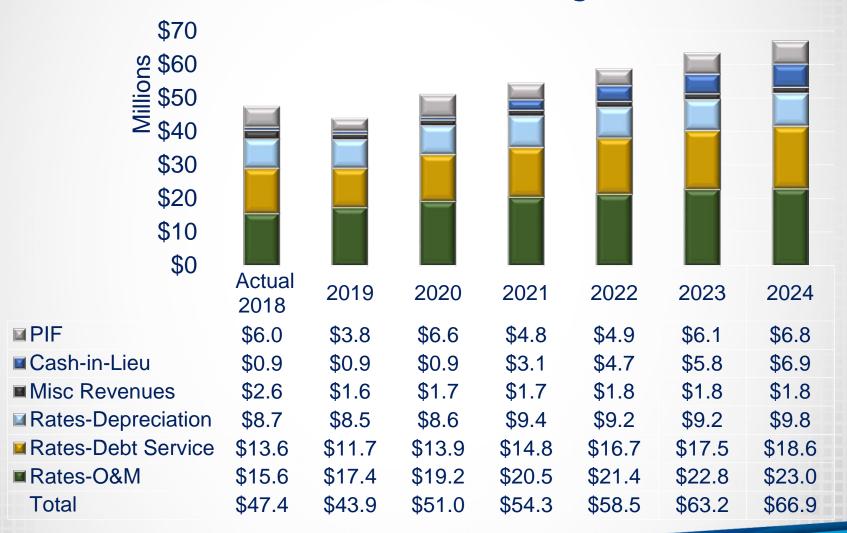
% Rate Increase	Rates
8.5%	Varies
8.5%	\$4.84
10.0%	\$3.53
8.5%	\$11.88
8.5%	\$11.78
4.5%	\$3.53
8.5%	\$4.30
7.0%	\$4.45
16.0%	\$5.87
	8.5% 10.0% 8.5% 8.5% 4.5% 8.5% 7.0%

Water Expenditure Projections*

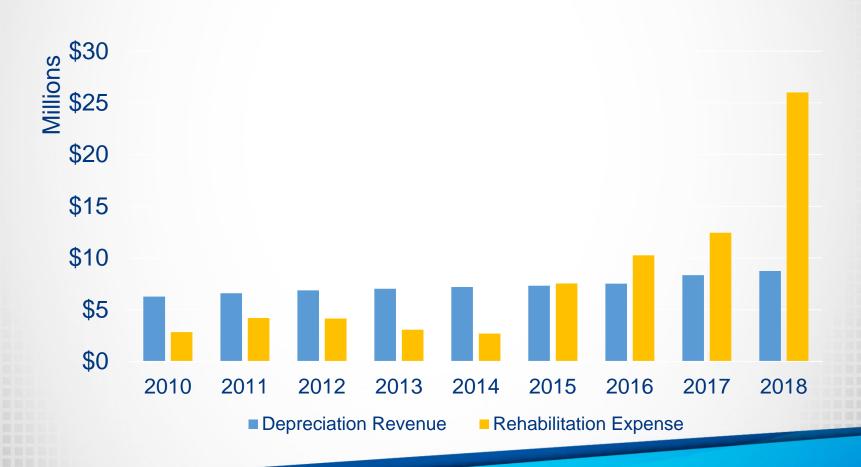


^{*} Projected cash flow – timing will differ from budget

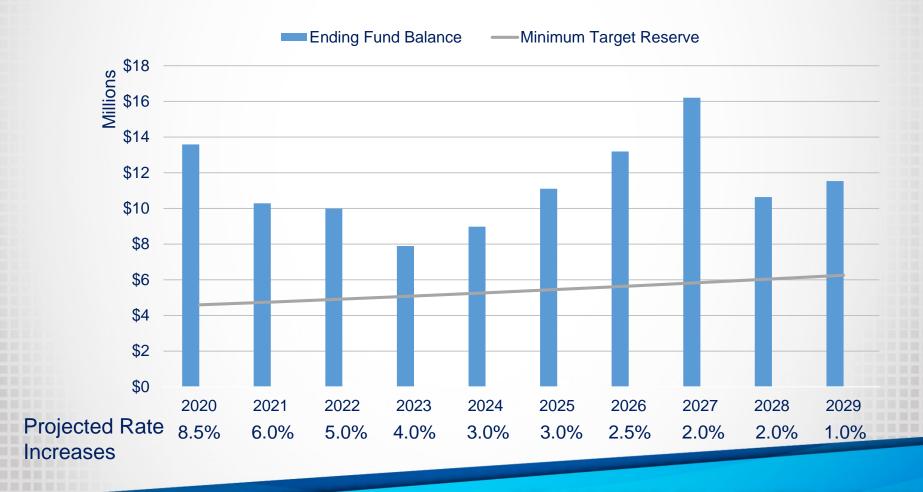
Water Revenue Projections



Depreciation Revenue/Rehab Expense - Water

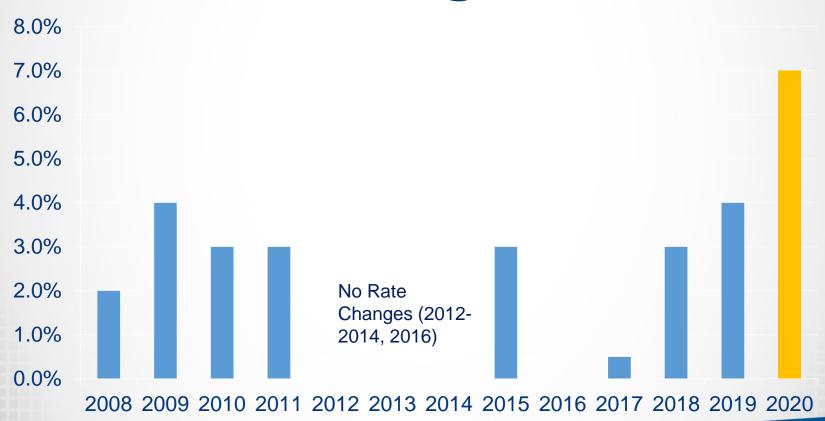


Projected Water Operating Cash Flow



Sewer Fund

History of Sewer Rate Changes



Proposed Sewer Rate Changes

Customer Class	% Rate Increase	Rates
Single Family	8.0%	\$2.47
Multi-Family	5.0%	\$2.60
Commercial I	5.5%	\$2.60
Commercial II	6.5%	\$3.53
Commercial III	7.5%	\$4.46
Commercial IV	9.0%	\$5.39
Commercial V	9.0%	\$6.28

Monthly service charge remains \$11.55

Proposed Sewer Rate Changes

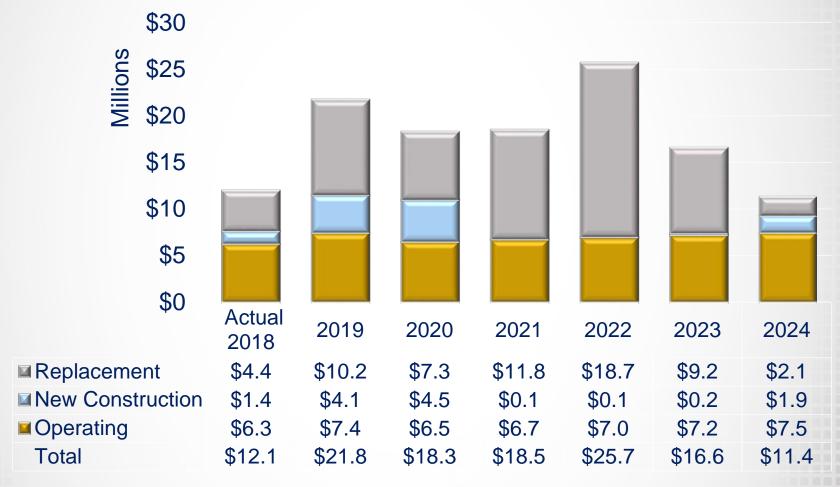
Customer Class	% Rate Increase	Rates
Industrial SIC 2026	12.5%	\$19.05
Industrial SIC 2013	0%	\$14.27
Industrial SIC 7218	20.0%	\$5.38
Industrial SIC 2034	7.5%	\$3.60

Proposed Sewer Rates – Outside City

Customer Class	% Rate Increase	Rates
Outside Single Family	8.0%	\$3.82
Outside Multi-Family	5.0%	\$3.37
Outside Commercial I	5.5%	\$3.37
Outside Commercial II	6.5%	\$4.49
Outside Commercial III	7.5%	\$5.62
Outside Commercial IV	9.0%	\$6.52
Outside Commercial V	9.0%	\$7.36

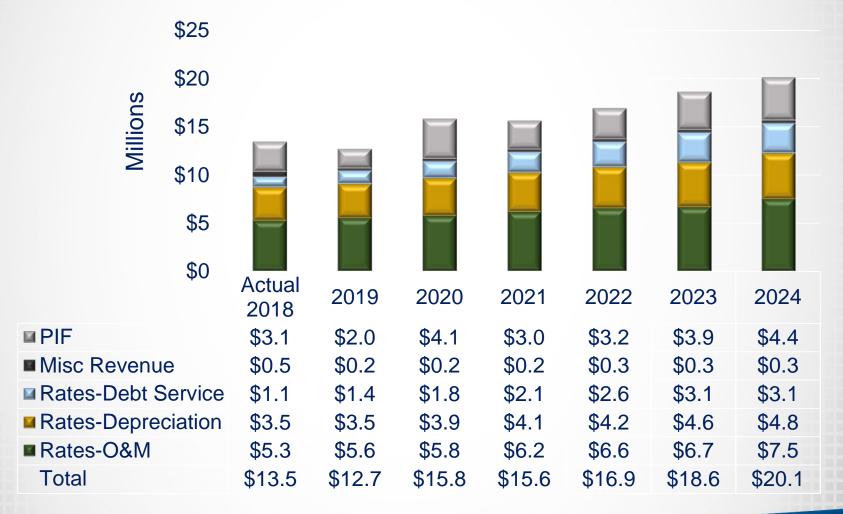
Monthly service charge \$14.44

Sewer Expenditure Projections*

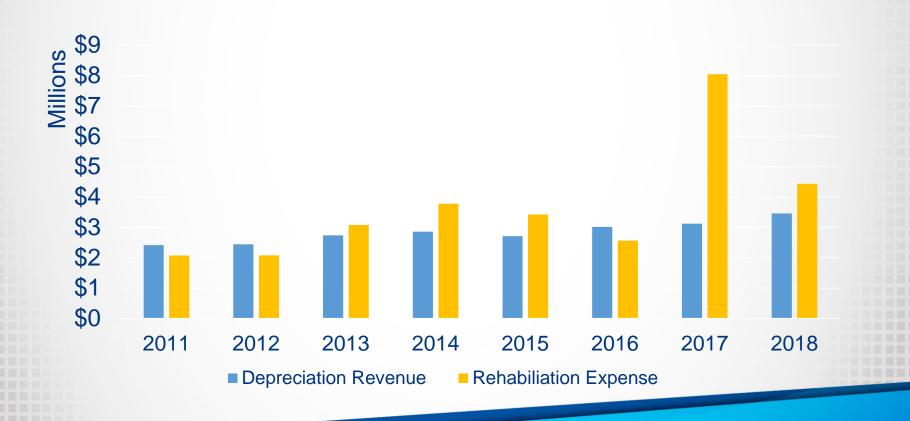


^{*} Projected cash flow – timing will differ from budget

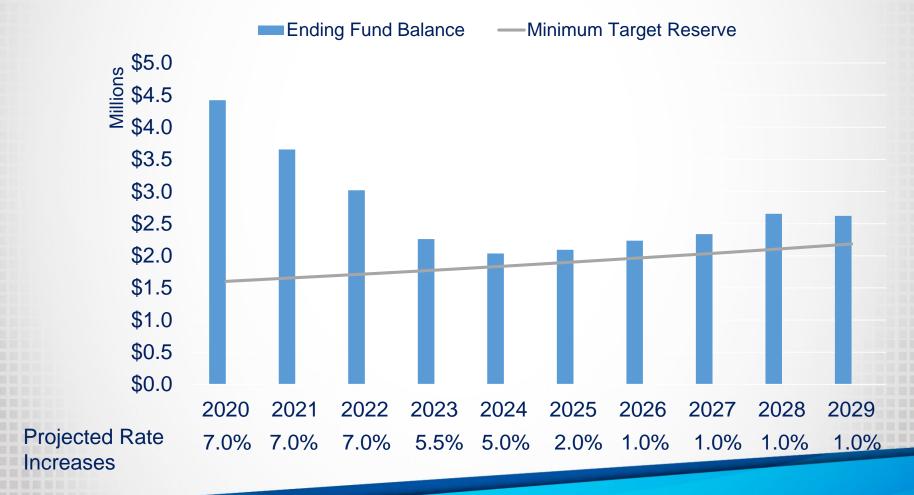
Sewer Revenue Projections



Depreciation Revenue/Rehabilitation Expense - Sewer



Projected Sewer Operating Cash Flow



Approximate Residential 2020 Bill

	Service Charge	Average Volume (kgal)	Volume Rate	Monthly Bill
Annual Avg Water	\$14.35	10.3	Varies by tier	\$65.33
Summer Water	\$14.35	22.0	Varies by tier	\$134.51
Winter Water	\$14.35	3.9	Varies by tier	\$31.89
Sewer	\$11.55	3.9	\$2.47	\$21.31

2020 monthly service charges

Water: \$14.35 (\$0.80 increase from 2019)

• Sewer: \$11.55

Approximate Residential 2020 Bill Comparison

Average Bill	2019	2020	Change
Water	\$61.15	\$65.33	\$4.18
Sewer	\$20.14	\$21.31	\$1.17
Total	\$81.29	\$86.64	\$5.35

Plant Investment Fees

	2019	2020
Water	\$10,800	\$10,500
Sewer	\$5,700	\$6,000
Total W&S PIF	\$16,500	\$16,500

Budget Highlights

2020 Budget Drivers - Operating

- Proposed new positions
 - Rates/budget analyst \$115,000
 - Utility Finance Manager role has shifted to financial and development policy
 - Rate modeling and budgeting need more attention
 - Agreement & contract management
 - Water conservation analyst \$100,000
 - Data analytics and customer engagement
 - Water Conservation Manager focus on strategic planning
 - Treated water reservoir maintenance technician \$70,000
 - Reservoir system has expanded, number of staff have not changed since ~1980
 - Additional storage, Bellvue 60", distribution system growth

2020 Budget Drivers - Operating

- Proposed additional funding requests
 - Non-Potable dump truck (one-time) \$140,000
 - Non-Potable vacuum truck (used, one-time) \$70,000
 - Farm maintenance increase (in High Mtn Reservoirs budget) - \$50,000
 - Additional increases in the future as additional water rights are purchased
 - Conservation van \$45,000
 - Potentially 2 additional replacements in future years

2020 Budget Drivers – Water Capital – New Projects

2020 Projects

- Non-Potable Expansion \$1.0 million annually
- Advanced Metering Infrastructure \$1.7 million annually for 3 years, \$325K annually thereafter

2020 Budget Drivers – Water Capital – Continuing Projects

2020 Projects

- Water treatment plants rehab projects
 - Bellvue: \$26.5 million Awarded in late 2017, construction continues until 2020
 - Boyd: \$13 million Phased, 2017 through 2022
- Windy Gap firming \$56 million (construction)
- Milton Seaman permitting \$2 million (ongoing)
- Utility billing software (\$1.25 million water, \$0.5 million sewer, \$0.35 million stormwater)

2020 Budget Drivers – Water Capital – Continuing Projects

- Transmission rehab program
 - Annual program \$1.8 to \$4.1 million/year
- Bellvue Pipeline Gold Hill \$4.1 million
 - Easements and construct one segment in Windsor
- Equalizer (over 4 years) \$36.5 million
 - Needed to support non-potable system expansion

2020 Budget Drivers – Sewer Capital – New Projects

2020 Projects

No new 2020 projects

Future Years

- WPCF Primary Treatment phase 2 (2022) \$19.8 million
- WPCF Primary Treatment phase 3 (2028) \$68.2 million

2020 Budget Drivers – Sewer Capital – Continuing Projects

2020 Projects

- Ashcroft Draw Lift Station \$3.8 million
 - Design: 2019, Construction in 2020
- Nitrification phase 2 \$21 million
 - Starting in late 2019

Future Years

Poudre Trunk phase 2 (2021) - \$1.6 million

Future Budget Issues

- 10 year strategic staffing plan
 - Develop over the next year
 - Succession planning related to PROpel effort
- Known staffing needs
 - Asset management
 - Field operations
 - Water treatment operators
 - Transmission/Distribution operators
 - Regulatory compliance and water quality

Significant Water Projects & Requests– Approximate Rate Impact

Project	Annual Rate Impact	10 Year Rate Impact
All Supplemental Requests	0.15%	1.5%
Non-Potable Expansion	0.07%	0.7%
Advanced Metering Infrastructure	0.20%	2.0%
Bellvue – Gold Hill Segment	0.07%	0.7%
Windy Gap Firming	0.90%	9.0%
Equalizer	0.35%	3.5%
Milton Seaman Expansion (assuming \$400 million)	3.0%	30%

Significant Sewer Projects & Requests-Approximate Rate Impact

Project	Annual Rate Impact	10 Year Rate Impact
WPCF Primary Treatment Ph 2	1.60%	16.0%
WPCF Primary Treatment Ph 3	0.71%	7.1%
Ashcroft Draw Lift Station	0.30%	3.0%
Poudre Trunk Ph 2	0.07%	0.7%

Questions?

WATER & SEWER BOARD AGENDA JULY 17, 2019

	ENCLOSURE	X	NO ENCLOSURE
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ITEM NUMBER: 11

TITLE: WATER MARKET UPDATE

RECOMMENDATION: INFORMATION ONLY

ADDITIONAL INFORMATION:

This presentation will highlight what we are seeing in the rapidly changing land and water market. Using available data it will be shown how and why the cost of acquiring water has changed over the past few year and that the demand for water is effecting land values. Lastly how Water Resource is approaching this quickly changing market.

WATER VALUES AND LAND MARKET UPDATE

W&S Board

Cole Gustafson & Jen Petrzelka

July 17, 2019

WATER AND LAND MARKET

Over recent years there has been a rapid price escalation in these markets which will most likely continue.

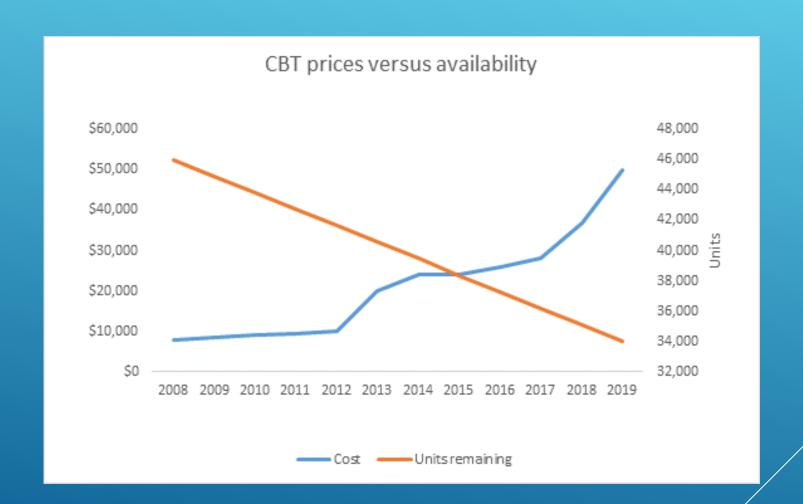
- What's happening and why
- Factors affecting water prices
- ▶ How is the cost of water effecting land values?
- ▶ Greeley's approach

- Why are they increasing?
 - Supply and Demand
 - > Decreasing supply with an increasing demand
 - Development policies of other water districts
 - > Oil and Gas
 - Change cases open up market once CU is quantified

2018 Ownership by Water Allotment Contract Class	2018 Acre-Foot Units	2018 Percent
Class B		
Municipal	152,429	49
Class C		
Irrigation	56,754	18
Domestic/Industrial/Multi-purpose	66,006	21
Class D		
Irrigation	34,811	12
Totals	310,000	100

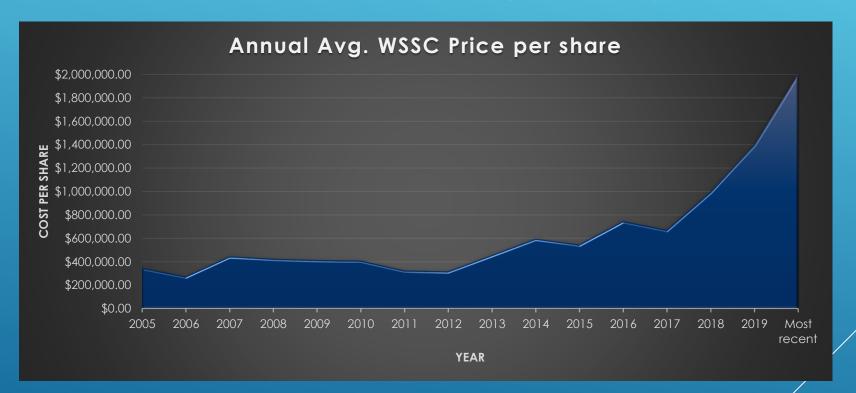
>450% increase over 7 years

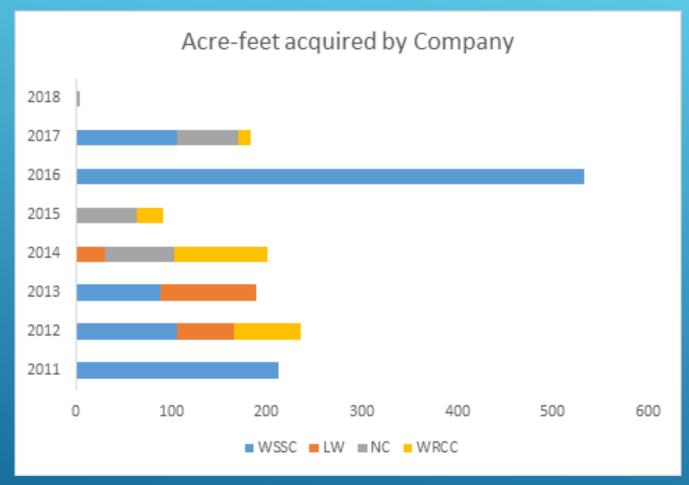




Total WSSC Shares	600
City of Greeley	39
City of Fort Collins	26
City of Thornton	289
ELCO Water District	31.25
North Weld Water District	15.5
Dairy Production/Floaters	40
Other (State, HOAs, ect.)	21
Approximate Remaining in Ag	~140

- >342% increase over the past 14
- >166% increase over the past 3 ½ years



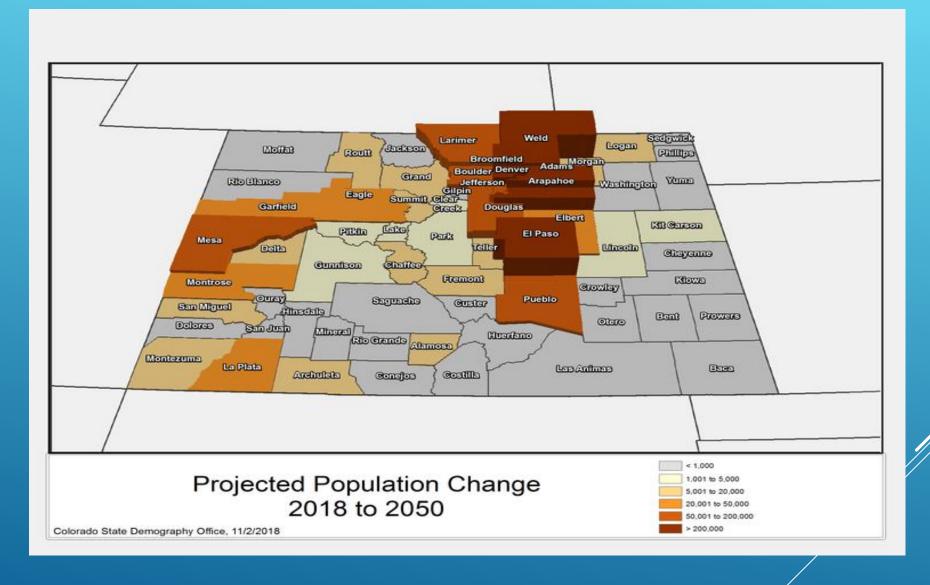


^{*}volumes expressed in firm yield

LAND PRICES

- Why are they increasing?
 - The competition for water is not slowing down and land/water owners are willing to hold out for higher prices
 - Land owners and Brokers understand that water shares attached to land increase the value and are no longer willing to separate them.
 - ▶ Irrigated Land is being sold in City/Town growth management areas
 - Weld County is one of the fastest growing Counties in the State
 - ▶ New entities (NISP) are in the market buying both water and land,

LAND PRICES



Rapid regional housing growth over past couple of years has really driven developers and municipalities to compete for a limited supply.

MOVING FORWARD

- Using a multi-pronged approach to water acquisition
 - Utilizing Brokers
 - Staff is building relationships within ag community
 - > ATM's and other methods that could be attractive to sellers
 - Exploring different ways to work with land owners
 - Creative deal structures
- Welcome land and water packaged sales
- Because prices are escalating so quickly it's difficult to perform a market analyses and get accurate appraisals.
- Continue to perform due diligence to ensure water is changeable and will yield adequate consumptive use

WATER & SEWER BOARD AGENDA JULY 17, 2019

ENCLOSURE X NO ENCLOSURE ___

ITEM NUMBER: 12

TITLE: WATER SUPPLY UPDATE

RECOMMENDATION: INFORMATION ONLY

ADDITIONAL INFORMATION: Please see the attached memorandum for details.



MEMORANDUM

TO: Sean Chambers, Water and Sewer Director

FROM: Jen Petrzelka, Water Operations Manager

DATE: July 17, 2019

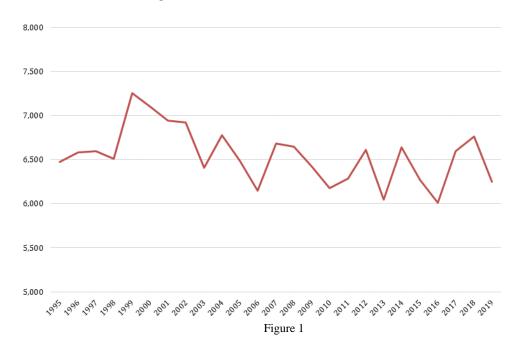
RE: July 2019 Water Supply Update

ISSUE

In accordance with the Drought Emergency Plan, staff reports the water supply status to the Greeley Water and Sewer Board ("Board") in April, July and November of each year. The Water Resources Division uses three metrics to evaluate drought protection, associated hydrologic conditions, and to establish targets for storage. The three metrics used are "target storage level", "safe storage level", and "design drought" as defined below:

Safe Storage Level: A volume of stored water that is equal to six months of Greeley's base treated water demand. This equates to approximately 25% of Greeley's annual treated water demand. The average base treated demand for the last 20 years is 6,500 acre-feet/year (Figure 1).

Safe Storage Level (acre feet) 1995-2019 Cumulative production November 1st - March 31st



We promise to preserve and improve the quality of life for Greeley through timely, courteous and cost effective service.

Water Supply Update July 18, 2018 Page 2

Target Storage Level: the minimum initial storage level required to maintain a *safe storage level* throughout the design drought.

Design Drought: the 50-year critical drought represented by six consecutive years of below average runoff on both the Big Thompson and Cache la Poudre rivers. This drought can be defined as the average of the worst droughts that would occur in any 50-year time period. The recurrence interval has been estimated at 130 years.

Previous modeling analysis has shown that the <u>target storage level</u> needed to provide adequate drought protection <u>(safe storage level)</u> for the citizens of Greeley is approximately 20,000 acrefeet. When the target storage level is met, Board can declare an "adequate water year" with normal watering restrictions. As base use demands increase in the future, periodic reevaluation of the *target storage level* will be required to ensure the safe storage level is adequate in the event of extreme drought.

The Greeley System Storage Analysis excel application is used for the testing of the target storage level criteria. The model performs an annual water balance to arrive at a forecasted April 1st carryover storage based on existing supplies and demands for the current year. The <u>design</u> <u>drought</u> modeled yields are then utilized to extend the forecast to six years to arrive at the projected <u>safe storage level</u>. The storage analysis model only includes standard operational practices and does not take into account other plans (additional drought restrictions, etc.) that may be available to Greeley.

BACKGROUND

This Water Year has continued to see weak El Nino conditions through spring and early summer. Forecasts are calling for a 50% probability that El Nino conditions will persist into the fall and winter of 2019, however this does not have a significant influence on weather patterns in Colorado. Temperatures for April through June were below average and cumulative precipitation in Greeley is slightly above the 1997-2018 historical average at 7.87 inches. Cool temperatures and a couple of June snow storms contributed to a slow snowmelt that began in mid-March, peaked on April 15th at 113% of average and did not begin to decline until mid-May with melt out occurring on July 1st, approximately a month later than 2018.

Reservoirs across the Colorado, Big Thompson and Poudre are 100% full, however the wet, cool spring and early summer has resulted in low irrigation demands which could result in spilling. Forecast are predicting average temperatures and above average precipitation through August. The Colorado SWSI¹ report for June showed the South Platte Basin at above normal supply levels (.38), .32 higher than the same time last year.

The High Mountain Reservoir (HMR) system yielded over 4,000 acre-feet of supply with the majority of that rented out to agriculture. The Greeley Loveland System (GLIC) yielded

¹ The Surface Water Supply Index (SWSI) was developed by the Colorado Division of Water Resources and the U.S.D.A Natural Resources Conservation Service (NRCS). This is an indicator of mountain-based water supply conditions for the major river basins in Colorado. It is based on streamflow, reservoir storage, and precipitation. The SWSI scale goes from -4 (severe drought) to +4 (abundant supply) with 0 being near normal supply.

Water Supply Update July 18, 2018 Page 3

approximately 10,712 acre-feet through July 1. Northern water was able to pump 1,100 acre-feet of Windy Gap this year, however the high storage levels in Lake Granby and late June snow storm is expected to result in a spill during the week of July 9th. We are treating as much Windy Gap as possible in anticipation of a spill and staff will collateralize our Colorado Big Thompson (C-BT) supplies for any Windy Gap demands after the spill occurs.

Through July 8, staff has rented approximately 25,600 acre-feet of water to agriculture. The Greeley System Storage Analysis table shows the April 2020 storage level will be approximately 25,752 acre-feet. In accordance with GLIC carryover policy, water carried over from 2018 will be spilled. The company has not calculated how was spilled (3,733 acre-feet) in order to accept 2018 stock water.

RECOMMENDATION

Projected storage remains above the 20,000 acre-feet target storage level; therefore, the Adequate Water Year conditions declared in April 2019 remain valid.

Greeley System Storage Analysis	2019 Water Supply	C-BT=70% HMR*= 0 AF
	Update	Yields GL/LL/7L = 11/40/20

Water Year 2019 Operations

			Water rear 2013 operat		
	Beginning Storage	Estimated Yield	Total Supplies	Total WY 2019 Demands	Early Season Spills and Collateralized
	Juliage	Tielu	Supplies		
	(1)	(2)	(3)	(4)	(5)
NCWCD (C-BT)	5,640	18,445	24,086	(14,627)	(1,316)
WINDY GAP	0	916	1,565	(4,062)	2,881
POUDRE SYSTEM	13,208	9,180	22,388	(15,646)	0
GLIC SYSTEM	17,256	12,525	29,781	(12,947)	(5,000)
TOTAL	36,104	41,066	77,171	(47,282)	(3,435)
				Balance	26,454

Balance

	Water Year 2020 Storage Volume				
	Ending WY '19		Beginning WY 2020	Winter 2019	
	31-Oct-19	1-Nov-19	1-Nov-19	(Nov thru April)	1-Apr-20
	Storage	Spills	Storage	Demands on Storage	Carryover
	(6)	(7)	(8)	and Shrink (9)	(10)
NCWCD (C-BT)	7,018	0	7,018	(702)	6,316
WINDY GAP	0	0	0	0	0
POUDRE SYSTEM	6,475	0	6,475	0	6,475
GLIC SYSTEM	12,960	0	12,960	0	12,960
TOTAL	26,453	0		(702)	25,752
Target Storage Volume:				20,000	

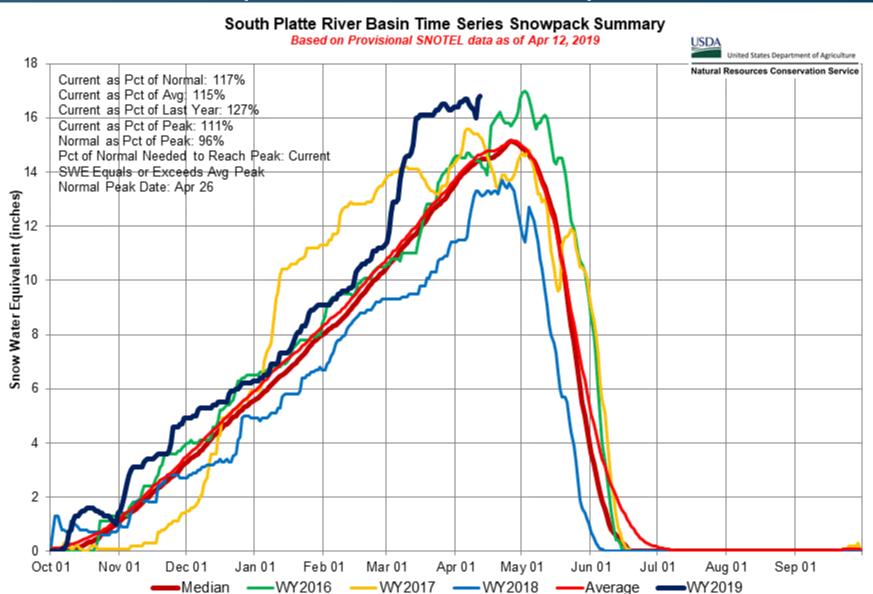
Water Supply Update July 17th, 2019

Water & Sewer Board





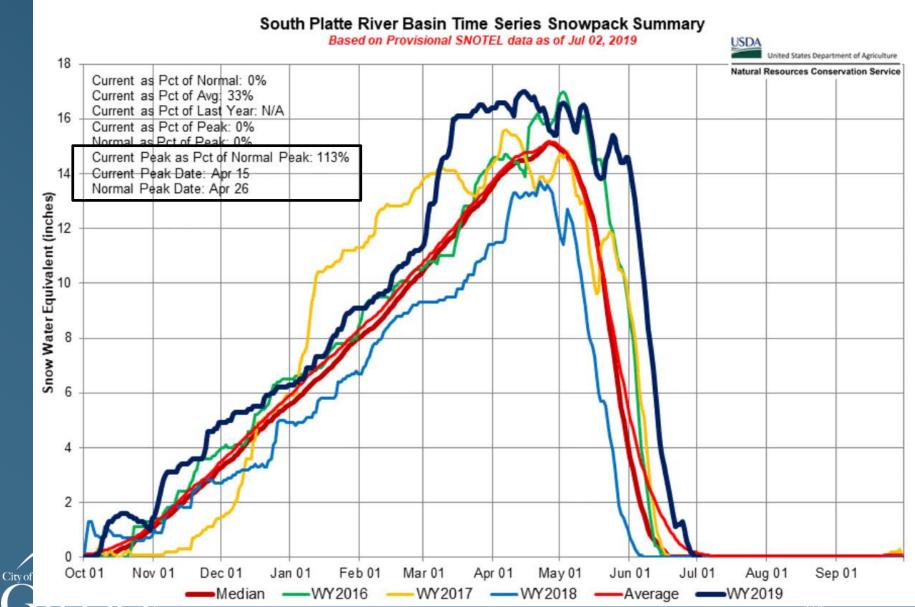
April 2019-NRCS Snowpack



Freeley

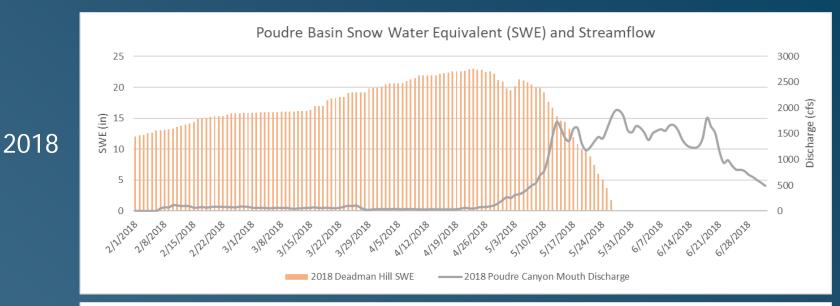


July 2019 NRCS Snowpack Summary

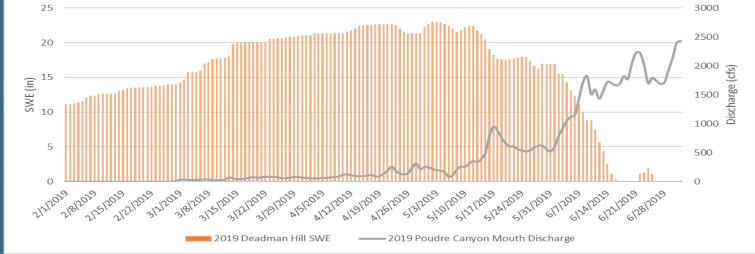




SWE vs. Streamflow



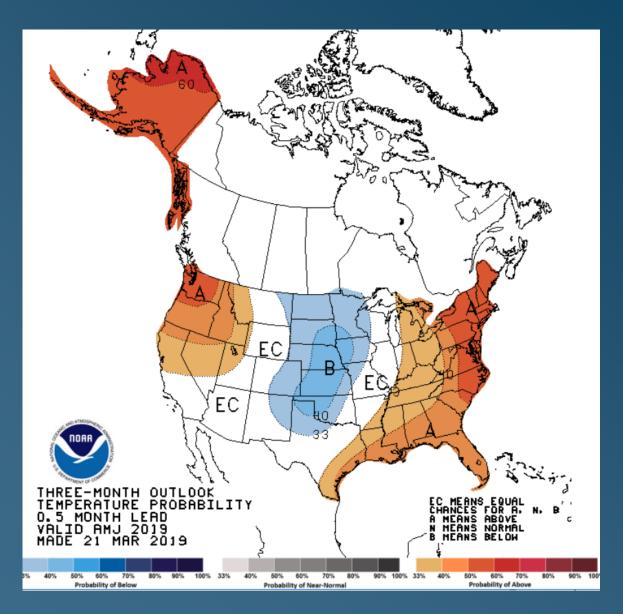
2019







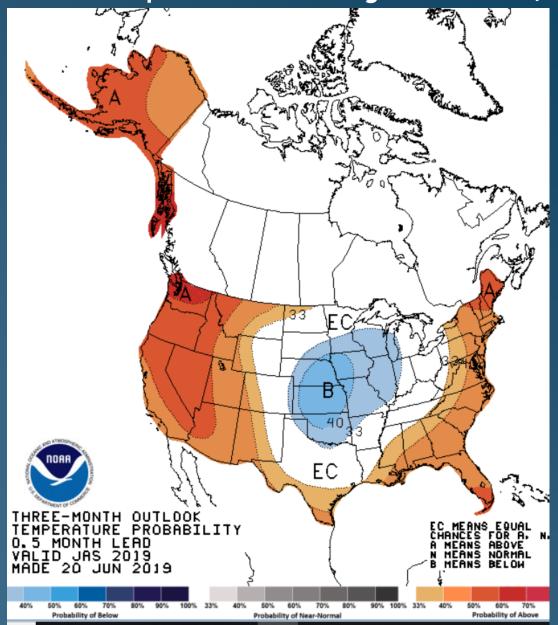
3-month Temperature Projections (April)







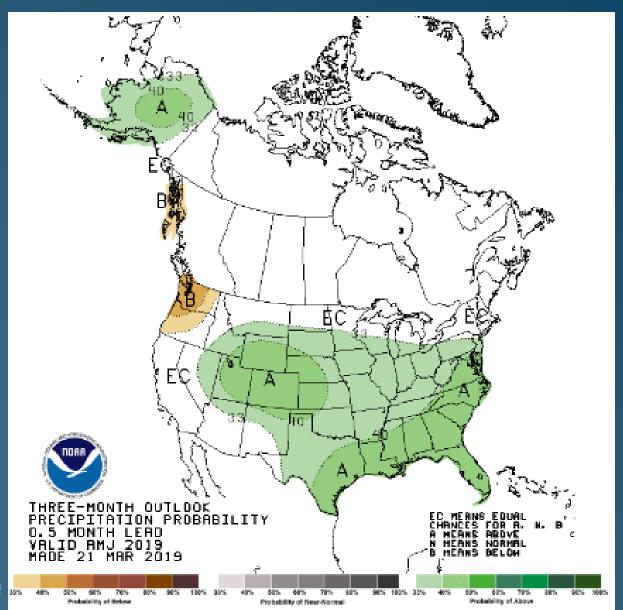
3-month Temperature Projections (July)







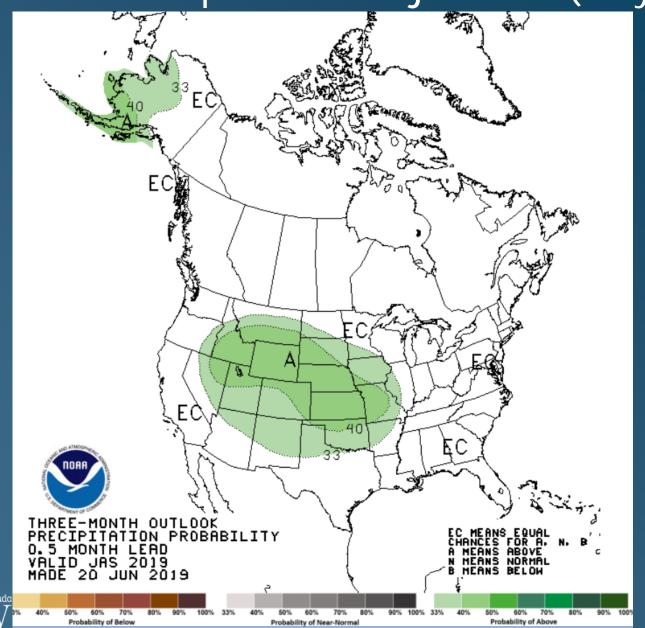
3-month Precipitation Projections (April)







3-month Precipitation Projections (July)





City of Greeley: Temperature (°F) and Precipitation 1998-2018 1998-2018 Average Temperature - 2019 Average Daily Temperature Greeley West station (224) 2019 Daily Temperature Range Source: northernwater.org R Record monthly high (1998-2018) 110 JAN FEB MAR APR MAY JUN JUL AUG SEPT OCT NOV DEC 100 90 80 70 60 Temperature (°F) 50 40 30 20 10 0 -10 -20 -30 MONTHLY AVERAGE TEMPERATURE (°F) 1998-2018 27.2 31.2 40.7 47.9 57.0 67.6 73.7 70.5 62.1 48.5 36.9 25.9 2019 30.6 25.9 35.6 50.2 52.7 **CUMULATIVE PRECIPITATION TO DATE (INCHES)** 1998-2018. ..7.21 3.5 2019... .7.87 Precipitation (inches) 3.0 2.0 1.0





Evaluating Target Storage

- Safe Storage Level
 - Equal to 6 months of Greeley's Base Use
- Target Storage Volume
 - Minimum storage level required to maintain <u>Safe</u>
 <u>Storage Level</u> through design drought
- Design Drought
 - Six consecutive years of below average runoff.
 - Used to forecast six years into the future to arrive at the <u>Safe Storage Level</u>





April 2019 Greeley Storage

Greeley System Storage Analysis

2019 Water Supply Update

C-BT=80% HMR*= 0 AF Yields GL/LL/7L = 11/40/20

Water Year 2019 Operations

	Beginning Storage (1)	Estimated Yield (2)	Total Supplies (3)	Total WY 2019 Demands (4)	Early Season Spills and Collateralized (5)
NCWCD (C-BT)	5,821	14,886	20,707	(8,062)	(307)
WINDY GAP	0	916	1,565	(1,806)	1,872
POUDRE SYSTEM	4,866	8,602	13,468	(9,555)	0
GLIC SYSTEM	17,256	8,855	26,111	(11,269)	0
TOTAL	27,943	33,259	61,202	(30,692)	1,565
				Balance	32,075

Water Year 2020 Storage Volume

Water rear 2020 Storage Volume					
	Ending WY '19		Beginning WY 2020	Winter 2019	
	31-Oct-19	1-Nov-19	1-Nov-19	(Nov thru April)	1-Apr-20
	Storage	Spills	Storage	Demands on Storage	Carryover
	(6)	(7)	(8)	and Shrink (9)	(10)
NCWCD (C-BT)	8,217	1,253	6,963	(696)	6,267
WINDY GAP	0	0	0	0	0
POUDRE SYSTEM	4,895	0	4,895	(1,072)	3,824
GLIC SYSTEM	18,963	0	18,963	0	18,963
TOTAL	32,075	1,253		(1,768)	29,054
			Ta	arget Storage Volume:	20,000





July 2019 Greeley Storage

Greeley System Storage Analysis

2019 Water Supply Update C-BT=70% HMR*= 0 AF Yields GL/LL/7L = 11/40/20

Water Year 2019 Operations

	Beginning Storage (1)	Estimated Yield (2)	Total Supplies (3)	Total WY 2019 Demands (4)	Early Season Spills and Collateralized (5)
NCWCD (C-BT)	5,640	18,445	24,086	(14,627)	(1,316)
WINDY GAP	0	916	1,565	(4,062)	2,881
POUDRE SYSTEM	13,208	9,180	22,388	(15,646)	0
GLIC SYSTEM	17,256	12,525	29,781	(12,947)	(5,000)
TOTAL	36,104	41,066	77,171	(47,282)	(3,435)

Balance

26,454

Water Year 2020 Storage Volume

	Ending WY '19 31-Oct-19 Storage (6)	1-Nov-19 Spills (7)	Beginning WY 2020 1-Nov-19 Storage (8)	Winter 2019 (Nov thru April) Demands on Storage and Shrink (9)	1-Apr-20 Carryover (10)
NCWCD (C-BT)	7,018	0	7,018	(702)	6,316
WINDY GAP	0	0	0	0	0
POUDRE SYSTEM	6,475	0	6,475	0	6,475
GLIC SYSTEM	12,960	0	12,960	0	12,960
TOTAL	26,453	0		(702)	25,752
			Ta	rget Storage Volume:	20,000





2019 Rental Summary

• C-BT 7,227 AF

GLIC changed
 90 AF

GLIC unchanged 2,255 AF

• WSSC 450 AF

• NPIC 207 AF

HMR 4,200 AF

Leasebacks

- WSSC 1,808 AF

- GLIC 8,345 AF

- L&W 614 AF

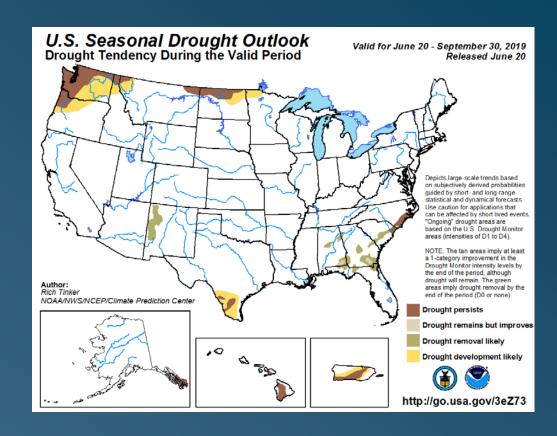
- New Cache 488 AF





Recommendations

- "Adequate Water Year"
 Continues
- Maintain target storage volume at 20,000 AF







ENCLOSURE X NO ENCLOSURE ___

ITEM NUMBER: 13

TITLE: WATER COURT UPDATE – Q2

RECOMMENDATION: INFORMATION ONLY

ADDITIONAL INFORMATION:

This item intends to update the Board on the current status of Greeley's Water Court cases including statements of opposition and cases where Greeley is the applicant or will soon be filing an application for change of water rights, as well as a summary of the Water Resources Division's legal costs.



Water & Sewer Department MEMORANDUM

TO: Greeley Water & Sewer Board

FROM: Jen Petrzelka, Water Rights Manager/Water Resources Operations Manager

DATE: July 1, 2019

RE: 2nd Quarter Water Court Cases Update

This memorandum is a review of the Water and Sewer Department's legal activities from April of 2019 through June of 2019. The review includes an update on Greeley's current Water Court cases and a summary of the Water Resources Division's legal expenses.

STATEMENTS OF OPPOSITION

Since the last update in April, Greeley has filed six statements of opposition and stipulated to three cases. Therefore, the current number of pending Water Court cases where Greeley is an opposer is 21.

Statements of Opposition filed:

- 19CW3059 (North Weld and ELCO's River Bluffs Reservoir)
- 19CW3016 (ECCV, ACWWA, United) (Dismissed by Applicants)
- 19CW3019 (Fort Collins-Loveland Water District quantification of muni return flows)
- 19CW3073 (United and South Weld Holdings augmentation plan)
- 19CW3074 (ACWWA augmentation plan)
- 19CW3075 (ECCV augmentation plan)

GREELEY AS APPLICANT

A summary of Greeley's pending and proposed Water Court cases where Greeley is or will be the applicant is as follows:

17CW3020 Leprino

Greeley and Leprino Foods, Inc. ("Leprino") filed an application for quantification of reusable return flows and appropriative rights of substitution and exchange on February 2017. Statements of Opposition were filed by fifteen parties. Of those parties, all have stipulated except for the Central Colorado Water Conservancy District. Greeley and Leprino are meeting with Central to

determine whether its concerns can be addressed. This case is now on a trial track with a trial set for July 2020 and our expert disclosures due October 7, 2019.

Larimer & Weld Companies change case

Greeley owns 42 shares of the Larimer and Weld system between the Larimer Weld Irrigation Company, Larimer and Weld Reservoir Company and Windsor Reservoir and Canal Company. Greeley will need to change its shares first by completing the ditch company review process and then adjudicating the changes in water court before using the changed shares in Greeley's system. Greeley and the Companies entered into a cost reimbursement agreement in November 2016 and are cooperating to review the L&W records in anticipation of a future change case. We have started working on a draft engineering report and have met with the Company twice over the past year to discuss each other's operations and strategize ways we can work toward mutually beneficial outcomes.

18CW3016 (Application to make absolute, and for reasonable diligence, for 06CW258 Tunnel Water Company conditional exchange water rights)

In January 2018 Greeley filed its application for a finding of reasonable diligence for a conditional exchange, including storage, of its Tunnel Water Company rights decreed in Case No. 06CW258. Greeley owns 7% of the Tunnel Water Company, which is a transbasin supply entering the Poudre River from the Laramie River Basin. In this diligence application, Greeley sought a determination that a portion of the exchange from the Tunnel to Milton-Seaman Reservoir has been made absolute in the amount of 13.56 cfs. The water court granted the application, and a decree was entered in this case on June 24, 2019. The conditional portion of the water right is continued through June, 2025.

LEGAL & ENGINEERING EXPENSES:

The Water Resource Division's outside legal and engineering expenses through June of 2019 totaled \$147,709 which is 25% of the \$579,725 total spent in 2018.

2019 Water Resources Legal and Engineering Costs

1st quarter	
Legal	\$39,757
Engineering	\$18,564
Total	\$58,320
2nd quarter	
Legal	\$56,819
Engineering	\$32,570
Total	\$89,389
3rd quarter	
Legal	\$0
Engineering	\$0
Total	\$0
4th quarter	
Legal	\$0
Engineering	\$0
Total	\$0
Annual Total	\$147,709



Water Court Cases Update

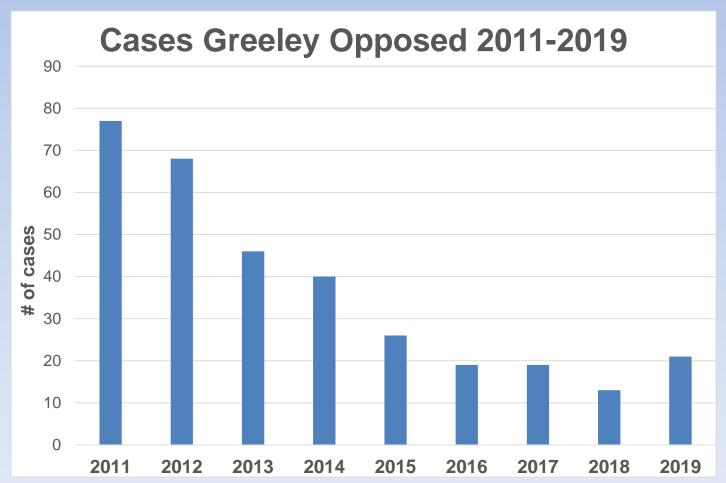
Jen Petrzelka, Water Rights Manager

July 17, 2019



Statements of Opposition

- Since January filed 6 SOO, 3 stipulations
- Number of cases Greeley is an opposer: 21
- Up 3 cases from beginning of year



Greeley as Applicant

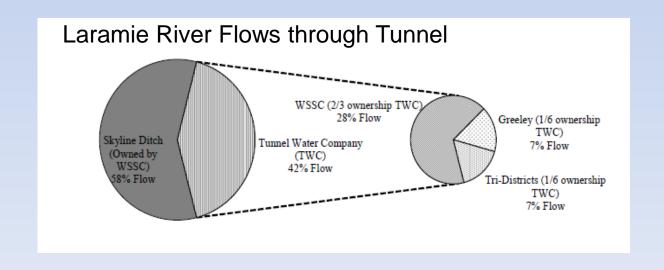
- Leprino (17CW3020)
 - Quantification of reusable diary bi-product water and appropriative rights of substitution and exchange
 - 14 opposers, 1 entry of appearance
 - 13 opposers stipulated
 - Working with Leprino on next steps
 - Trial set for July 2020
 - Expert disclosures due December 9th

Larimer & Weld Change Case

- Entered into a Cost Reimbursement Agreement (2016)
- Cooperating to obtain and review records
- Preparing draft engineering report

Greeley as Applicant

- Tunnel Water Company diligence for Case No. 06CW258 (18CW3016)
 - Greeley owns 1/6 of company or 7% flows (~900 AF)
 - Seeking absolute exchange of 13 cfs (cond.=36 cfs)
 - Final decree entered June 24, 2019



Legal & Engineering Expenses

2019 Costs to date

Legal \$ 96,576 Engineering \$ 51,134 **Total** \$ **147,709**

This is 25% of the \$579,725 spent in 2018

Questions?

ENCLOSURE X NO ENCLOSURE ___

ITEM NUMBER: 14

TITLE: LEGAL REPORT

POSSIBLE ACTION: STATEMENTS OF OPPOSITION, IF ANY

RECOMMENDATION: INFORMATION ONLY

ADDITIONAL INFORMATION:

Legal Report Greeley Water and Sewer Board Meeting July 17, 2019

I. Statements of Opposition:

- a. **19CW3084: ACWWA, ECCV, United W&S District, 70 Ranch:** Application for change of water rights in the Lower Latham Ditch for use in the applicants' augmentation plans, recharge projects, exchanges, and for replacement of historical return flow obligations, storage and all municipal uses. The point of diversion for these water rights is on the South Platte River, in the reach between the confluence of the Poudre and the confluence of the Big Thompson River. This is within one of Greeley's exchange reaches. We recommend that Greeley file a statement of opposition to ensure proper quantification and terms and conditions that will protect Greeley's exchanges and its water rights located downstream of the point of diversion for the water rights.
- b. **19CW3088:** Central Colorado Water Conservancy District: Application for conditional storage water right in the amount of 1,800 acre-feet, with right of refill. The points of diversion for this water right are the Plumb Ditch, and two pump stations, located on the South Platte River, in the reach between the confluence of the Poudre and the confluence of the Big Thompson River. This is within one of Greeley's exchange reaches. We recommend that Greeley file a statement of opposition to ensure proper terms and conditions that will protect Greeley's exchanges and its water rights located downstream of the points of diversion for the reservoir.
- II. **Proposed Motion Language:** "I move that the Board authorize the filing of statements of opposition in Case Nos. 19CW3084 and 19CW3088, and for staff and legal counsel to seek resolution of issues raised by these cases consistent with Water and Sewer Board Resolution No. 3-15."

ENCLOSURE X NO ENCLOSURE ____

ITEM NUMBER: 15

TITLE: DIRECTOR'S REPORT

RECOMMENDATION: INFORMATIONAL ONLY

ADDITIONAL INFORMATION:

- Colorado Water Congress
- Board and Council Tour August 23rd
- Citizen Tour July 26th d
- Coalition for the Poudre River Watershed tours 8/26 or 9/15

Colorado water community:

This is just a quick update on the 2019 Colorado Water Congress Summer Conference and Membership Meeting that will be held on Tuesday, August 20 to Thursday, August 22 in Steamboat Springs. We are very pleased how the conference program is turning out! The draft conference description and timeline are now posted on our website at CWC Summer Conference.

This Summer Conference reflects the first steps toward implementing the strategic direction for our organization. Over the past few weeks, the Colorado Water Congress Board has spent more than 15 hours in a series of discussions to work on the overall vision for the organization, prioritize goals, and set objectives for 2020.

We are now in a new office, have new staff, and are investing in new communication/advocacy tools. Over the course of the summer and especially at the conference, you will hear and experience much more about how the Water Congress is evolving. If you can't tell yet, we are really upbeat about the future!

Best regards, Doug

Doug Kemper | Executive Director
Colorado Water Congress
DKemper@cowatercongress.org | cowatercongress.org

O: 303-837-0812, ext. 1 | C: 303-808-3377

Jennifer Petrzelka

To: Subject:	Jennifer Petrzelka (jennifer.petrzelka@gmail.com) RE: local leaders watershed tour
•	
	B AM .com>; Carol Webb < CWEBB@fcgov.com>; Jill Oropeza < joropeza@fcgov.com>; Keith g>; Jennifer Petrzelka < Jennifer.Petrzelka@greeleygov.com>
Hi	
I have been plugging away at pa few prospective dates: 8/26 & 9/18, (~12 to ~5).	oulling together that watershed tour for local leaders and have narrowed down
	rs - but before I get too far down the line organizing this I wanted to check in seem reasonable and do not interfere with any other key events or meetings.
If these seem like reasonable dithat would be great.	lates, then if you could send me a contact list of people you would like invited,
In the meantime, I will continue	e to work on fleshing out an itinerary.
Thanks	
Jen	
Jennifer Kovecses executive director 320 East Vine Dr, ste 121 jenk@poudrewatershed.org https://www.poudrewatershed.or (o) 970-222-5754 (c) 858-775-7965	rg/
CAUTION: This amail is from	an external source. Ensure you trust this sender before clicking on any links or

attachments.

ENCLOSURE ____ NO ENCLOSURE _X

ITEM NUMBER: 16

TITLE: EXECUTIVE SESSION

RECOMMENDATION: INFORMATION ONLY

ADDITIONAL INFORMATION:

➤ Matters Related to Potential Acquisition of Water Storage

ENCLOSUR	RE NO ENCLOSURE _X
ITEM NUMBER:	17
TITLE:	SUCH OTHER BUSINESS THAT MAY BE BROUGHT BEFORE THE BOARD AND ADDED TO THIS AGENDA BY MOTION OF THE BOARD
RECOMMENDATION:	TO BE DETERMINED
ADDITIONAL INFORMA	TION: