

WATER & SEWER BOARD AGENDA

Wednesday July 21, 2021

2:00 p.m.

City Council Chambers, City Center South,

1001 11th Avenue

(no hybrid options available)

1. Roll Call: _____ Chairman Harold Evans _____ Vice Chairman Mick Todd
 _____ Mr. Fred Otis _____ Mr. Joe Murphy
 _____ Mr. Tony Miller _____ Mr. Manuel Sisneros
 _____ Mrs. Cheri Witt-Brown _____ Mayor John Gates
 _____ Mr. Roy Otto _____ Mr. John Karner
2. Approval of Minutes
3. Approval of and/or Additions to Agenda
4. Welcome New Water & Sewer Board member Cheri Witt-Brown
5. Welcome New Employees and Promotions
6. Review and Recommend to Planning Commission and Council the 2021 Wastewater Collections Infrastructure Master Plan
7. Review and Recommend to Planning Commission and City Council the 2021 Water Distribution Infrastructure Master Plan
8. Approve and Recommend to the City Manager the Water and Sewer 2022 Operating Budget and 5 Year CIP
9. Water Supply Update
10. 2nd Quarter Water Court Update
11. Approve Resolution in Recognition of Robert Ruyle's service to the Greeley community through decades of continuous service and appointment as an emeritus board member to the Greeley Water & Sewer Board
12. Legal Report
13. Executive Session
14. Director's Report
 - Bizwest Confluence Water Summit – July 22
 - Colorado Water Center – Climate & Adaptation
 - Wildfire Recovery Status
 - Board/Council Systems Tour



If, to effectively and fully participate in this meeting, you require an auxiliary aid or other assistance related to a disability, please contact Shannon Metcalf at 970-350-9818.

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



If, to effectively and fully participate in this meeting, you require an auxiliary aid or other assistance related to a disability, please contact Shannon Metcalf at 970-350-9818.

**City of Greeley
Water and Sewer Board
Minutes of June 16, 2021
Regular Board Meeting**

Chairman Harold Evans called the Water and Sewer Board meeting to order at 2:00 p.m. on Wednesday, June 16, 2021. Due to City remote operations status related to COVID-19, this meeting was held remotely and was aired via live stream for public viewing at <https://www.youtube.com/user/CityofGreeley>.

1. Roll Call

The Clerk called the roll and those present included:

Board Members:

Chairman Harold Evans, Vice Chairman Mick Todd, Robert Ruyle, Fred Otis, Tony Miller, Joe Murphy, Manuel Sisneros, Roy Otto and Mayor Gates

Water and Sewer Department Staff:

Director Sean Chambers, Deputy Director Water Resources Adam Jokerst, Deputy Director of Operations Nina Cudahy, Chief Engineer Adam Prior, Utility Finance Manager Erik Dial, Water Resources Manager Jen Petrzelka, Water Conservation Manager Dena Egenhoff and Office Manager Shannon Metcalf

Legal Counsel:

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

Other Guests:

2. Approval of Minute

Mr. Miller made motion, seconded by Mr. Sisneros, to approve the May 19, 2021 Water and Sewer Board meeting minutes. The motion carried 7-0.

3. Approval of and/or Additions to Agenda

There were no changes to the agenda.

4. Welcome New Employees

Mr. Chambers provided an introduction of new Water and Sewer Department employees starting this month.

5. 2021 Water Conservation Program Update

Ms. Egenhoff presented highlights of the Water Conservation program. Those program highlights included Life After Lawn, water budget rate structure, water audits, rebates and discounts, and education/outreach. Future projects include a landscape makeover at City Center North parking lot, water and land use planning, water budget, xeriscape garden and reservoirs, affordability programs and advance metering infrastructure. In addition, public outreach tools include Water Now Alliance, South Platte Basin implementation, landscape lecture series, speakers bureau, teacher training, tours of water related facilities and watersheds, social media and general media.

6. Wastewater Collections Master Plan Update

Mr. Prior explained that Water and Sewer Department has embarked on the process of completing a Wastewater Collections Master Plan. The project started in 2018 with the selection of CDM Smith to complete the engineering services based on past experience with Greeley and extensive master planning qualifications. The following year started with monitoring flows in the entire collection system, which involved 12 temporary flow meters, nine permanent flow meters, two rain gauges, and 60 days of data collection. This critical step was followed by developing the existing system model and updating the Utility Plan report with North Front Range Water Quality Planning Association. The project then progressed to utilizing the system model to look at existing conditions of the system and planning the expansion of the system in the 5-year, 20-year, and full system build-out time frames. The final steps included developing CIP projects throughout the system and making sure it was coordinated with the other two Water & Sewer master plan projects and other City Department CIP projects. The final aspects of the project also included coordinating outreach efforts to discuss the planned master plans with different community members and groups interested in participating in reviewing the City's draft master plan and providing critical input or comments.

Next steps include board recommendation to City Council for approval.

7. Update on Cameron Peak Wildfire Recovery Funding and Activities

Mr. Jokerst and Ms. Petrzela explained The Cameron Peak fire was the largest wildfire in CO history burning over 208,000 acres. Significant mitigation work is needed to prevent watershed impacts as all four of Greeley's watersheds were affected. \$40 million project

costs have been identified and there is currently only funding of \$7.5 million. This large funding gap requires significant lobbying efforts for state and federal aid.

8. Executive Session

Chairman Evans moved, seconded by Vice-Chairman Todd, to hold an executive session to address the following matters, as provided by C.R.S. § 24-6-402(4)(a), (b) and (e) and Greeley Municipal Code § 2.04.020(a) (1), (2) and (5):

1. For the purpose of providing the Board legal advice and determining positions relative to matters that may be subject to negotiations, developing strategy for negotiations, and instructing negotiators on matters related to Water Court Case Number 19CW3253. The motion carried 7-0.

The Board left the public session and moved into a private, executive session. The live feed of the public session on YouTube stopped recording, but was still accessible to the public. While the Board conducted the executive session, the public was provided with a screenshot of the agenda and a message stating the Board was in Executive Session.

Present during the executive session were:

Chairman Harold Evans, Vice Chairman Mick Todd, Robert Ruyle, Manual Sisneros, Joe Murphy, Tony Miller, Mayor Gates, Roy Otto, Director Sean Chambers, Deputy Director Water Resources Adam Jokerst, Utility Finance Manager Erik Dial, Outside Legal Counsel Carolyn Burr, Environmental and Water Resources Attorney Jerrae Swanson, Environmental and Water Resources Attorney Dan Biwer, Environmental and Water Resources Attorney Aaron Goldman, and Senior Administrative Specialist Ettie Arnold

This executive session was authorized by Subsections (a),(b) and (e) of Section 24-6-402(4) of the Colorado Revised Statutes, and Subsections (1), (2) and (5) of Section 2.04.020 (a) of the Greeley Municipal Code.

The Executive Session ended at 3:46 p.m. The Board then left the private, executive session and moved back into the open, regular session. At that time, the live feed of the meeting resumed on YouTube.

9. Legal Report

Carolyn Burr of Welborn, Sullivan, Meck & Tooley stated Greeley's counsel and Water and Sewer Department staff had reviewed the resume of water court applications filed in April of 2021, and that they do not recommend that Greeley file any statements of opposition in water court cases that would be due this month.

10. Director's Report

There were no items on the Director's Report

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

There were no additional items brought before the Board and added to the agenda.

Chairman Evans adjourned the meeting at 3:52 p.m.

Harold Evans, Chairman

Shannon Metcalf, Office Manager

WATER & SEWER BOARD AGENDA JULY 21, 2021

ENCLOSURE _____

NO ENCLOSURE X

ITEM NUMBER: 4

TITLE: WELCOME NEW WATER & SEWER BOARD
MEMBER CHERI WITT-BROWN

RECOMMENDATION: INFORMATIONAL ONLY

ADDITIONAL INFORMATION:

WATER & SEWER BOARD AGENDA JULY 21, 2021

ENCLOSURE _____

NO ENCLOSURE X

ITEM NUMBER: 5

TITLE: WELCOME NEW EMPLOYEES AND
 PROMOTIONS

RECOMMENDATION: INFORMATIONAL ONLY

ADDITIONAL INFORMATION:

WATER & SEWER BOARD AGENDA JULY 21, 2021

ENCLOSURE X NO ENCLOSURE

ITEM NUMBER: 6

TITLE: REVIEW AND APPROVE THE SANITARY
SEWER MASTER PLAN

RECOMMENDATION: RECOMMENDATION TO PLANNING
COMMISSION AND CITY COUNCIL

ADDITIONAL INFORMATION:

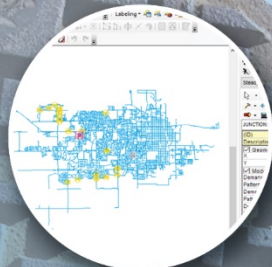
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Sanitary Sewer Master Plan Summary

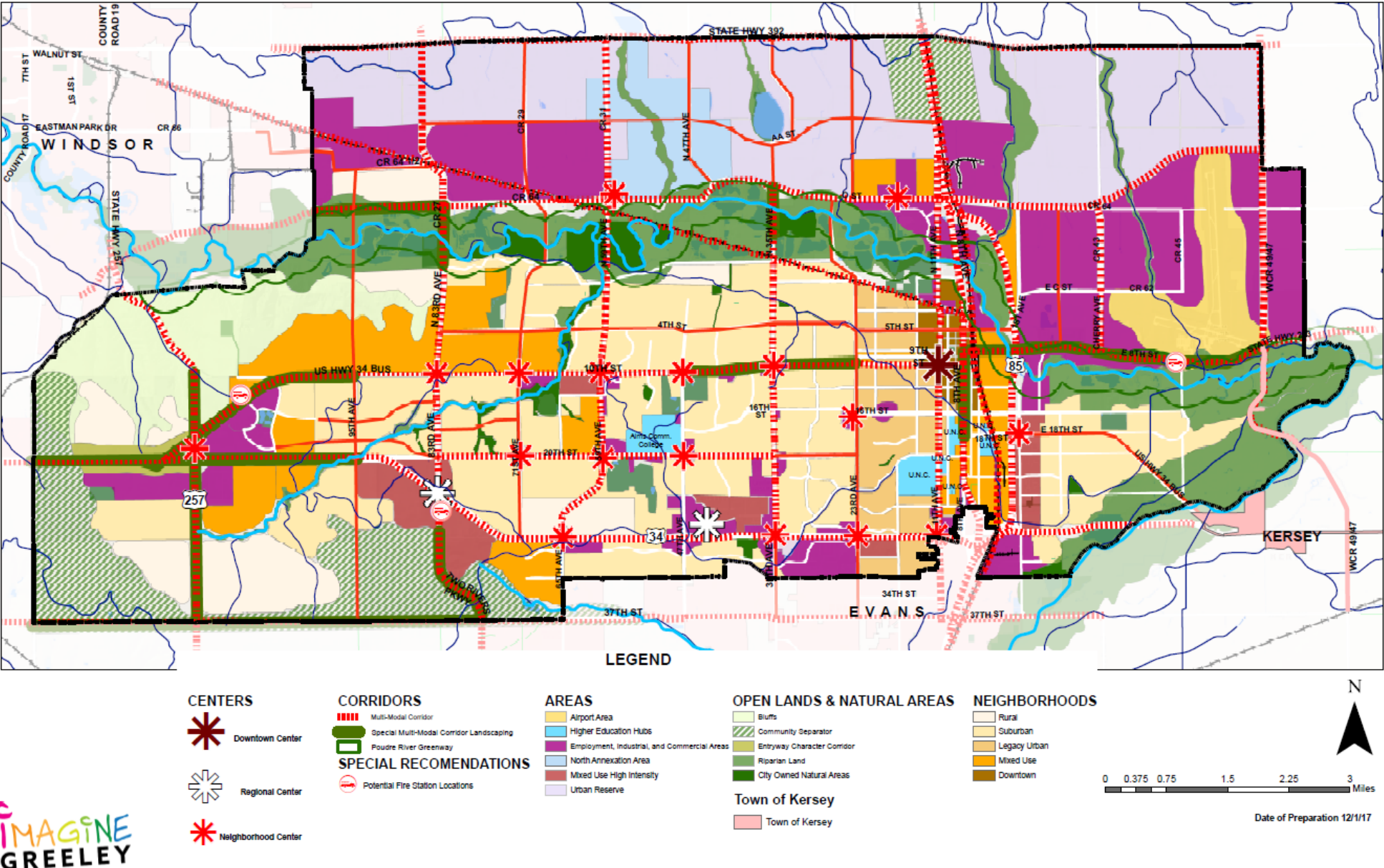
July 21st, 2021

Water & Sewer Board Presentation



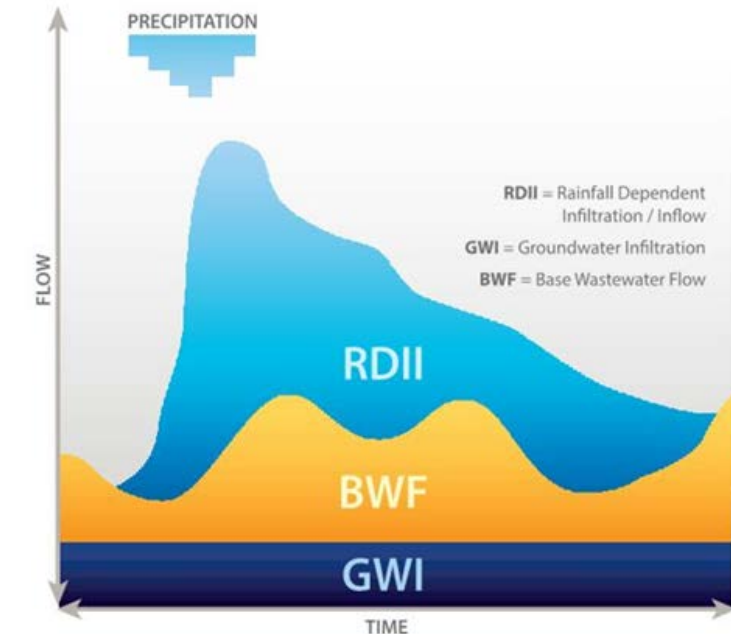
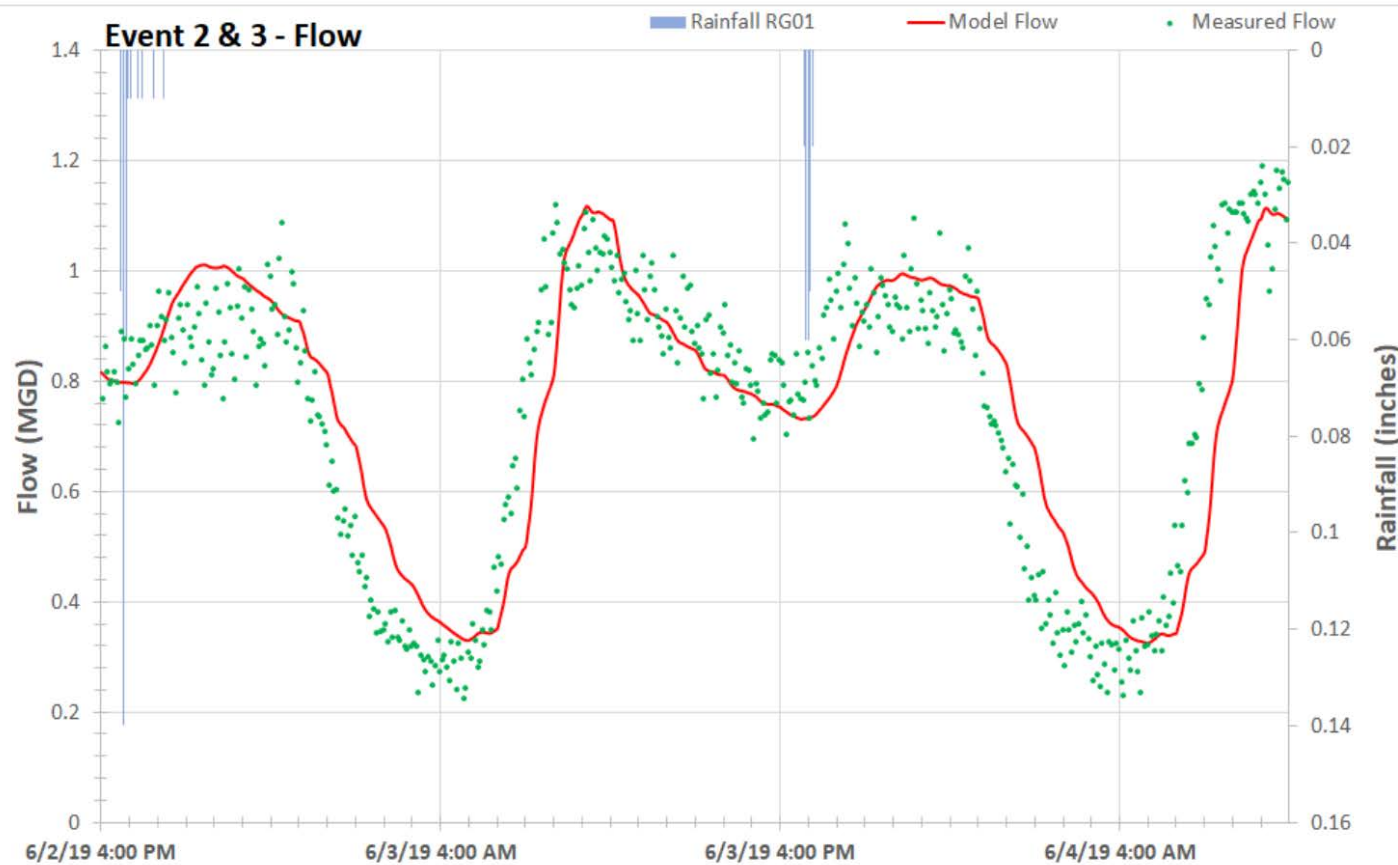
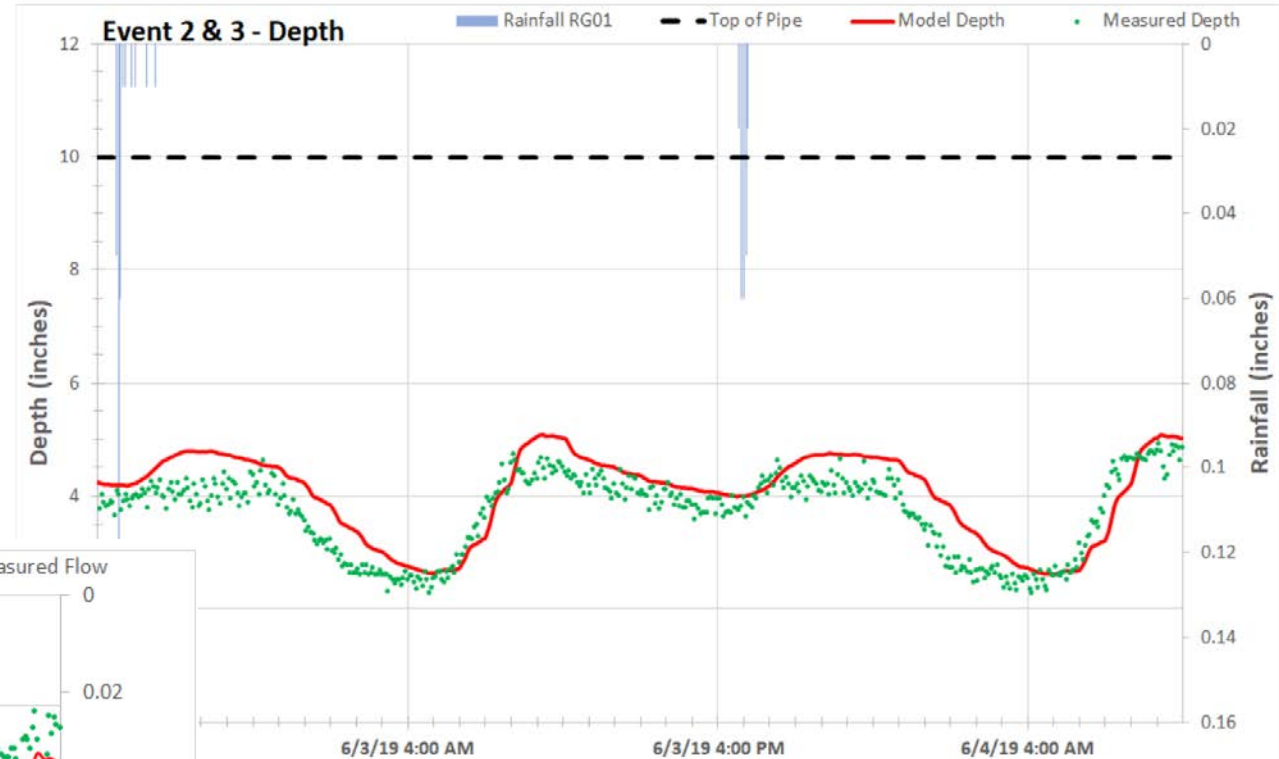
**CDM
Smith**

Comprehensive Plan – Land Use Guidance Map



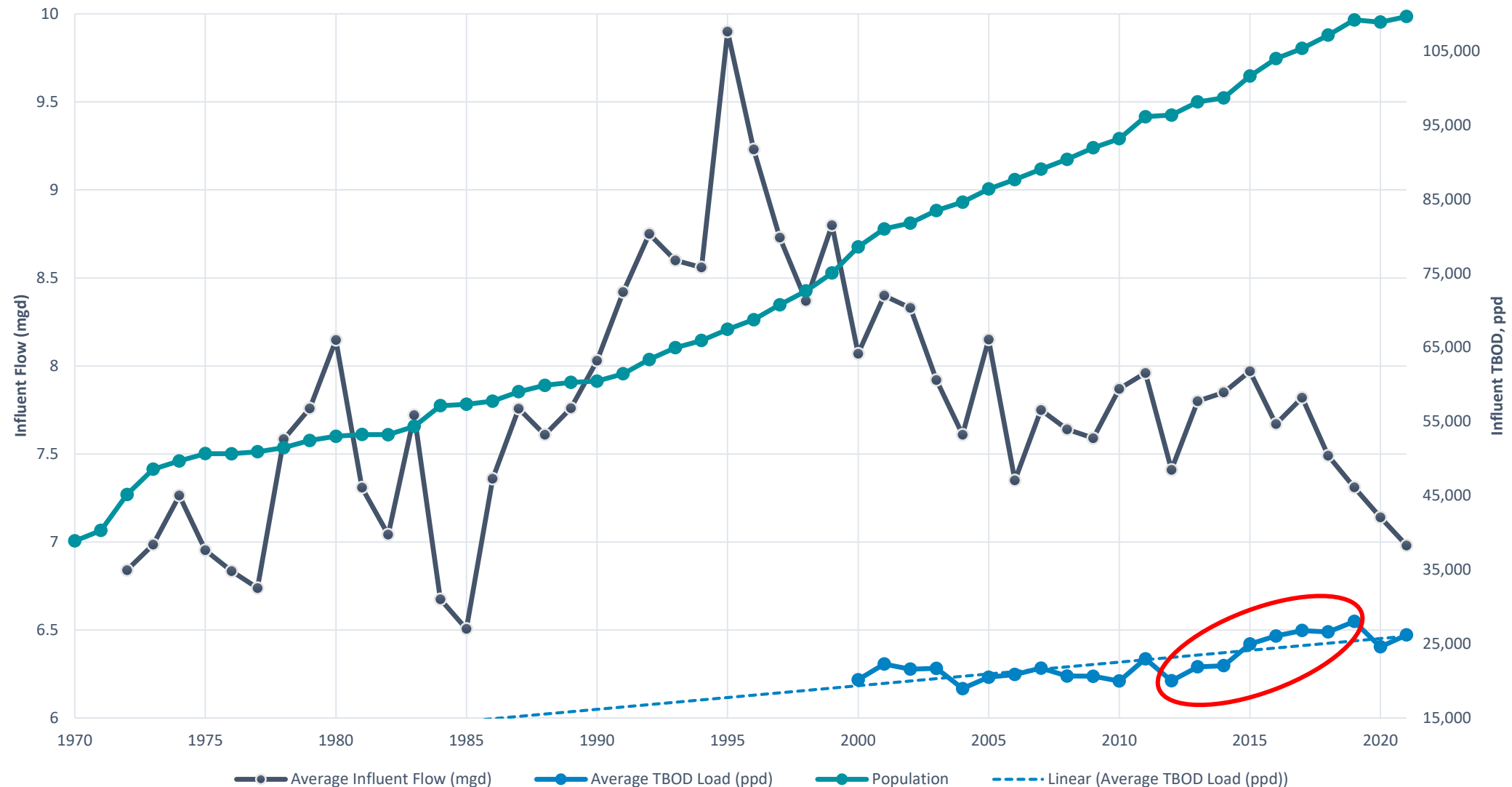
Calibration - Example

- Green Dots – Flow Monitoring Data
- Red Line – Model

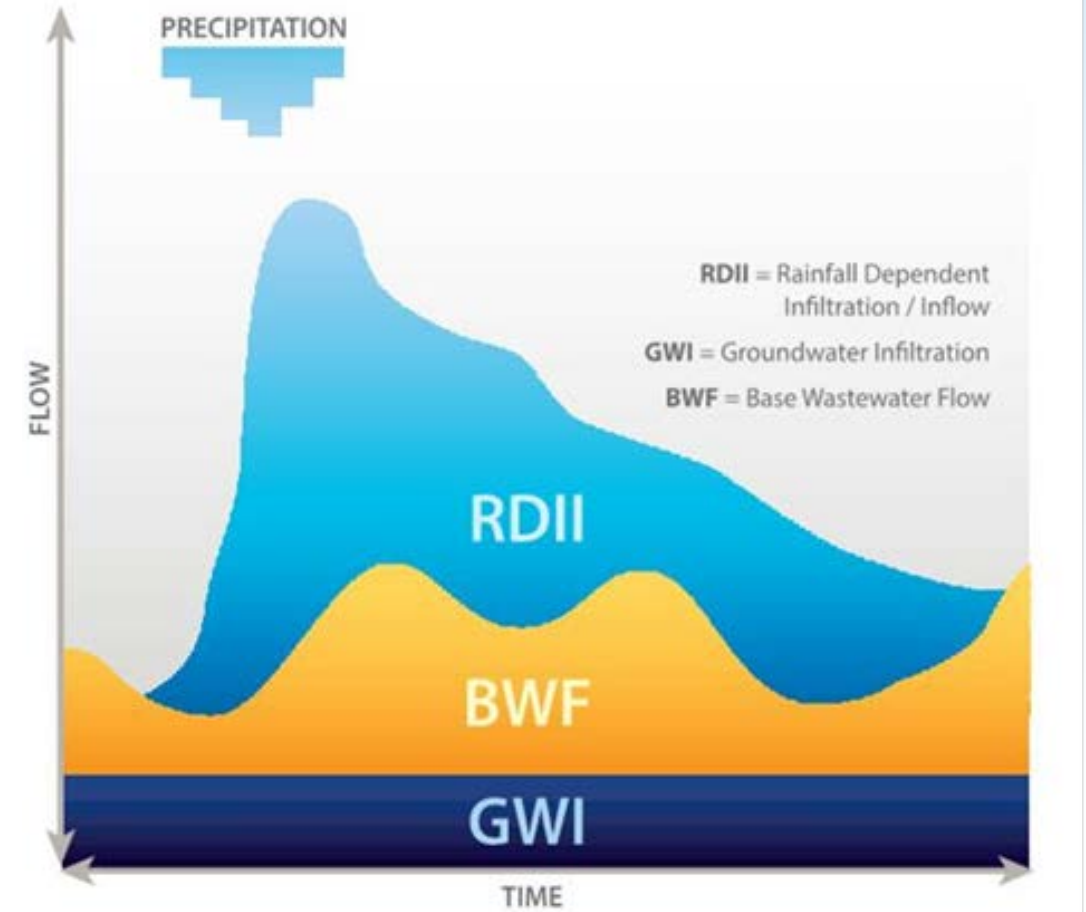
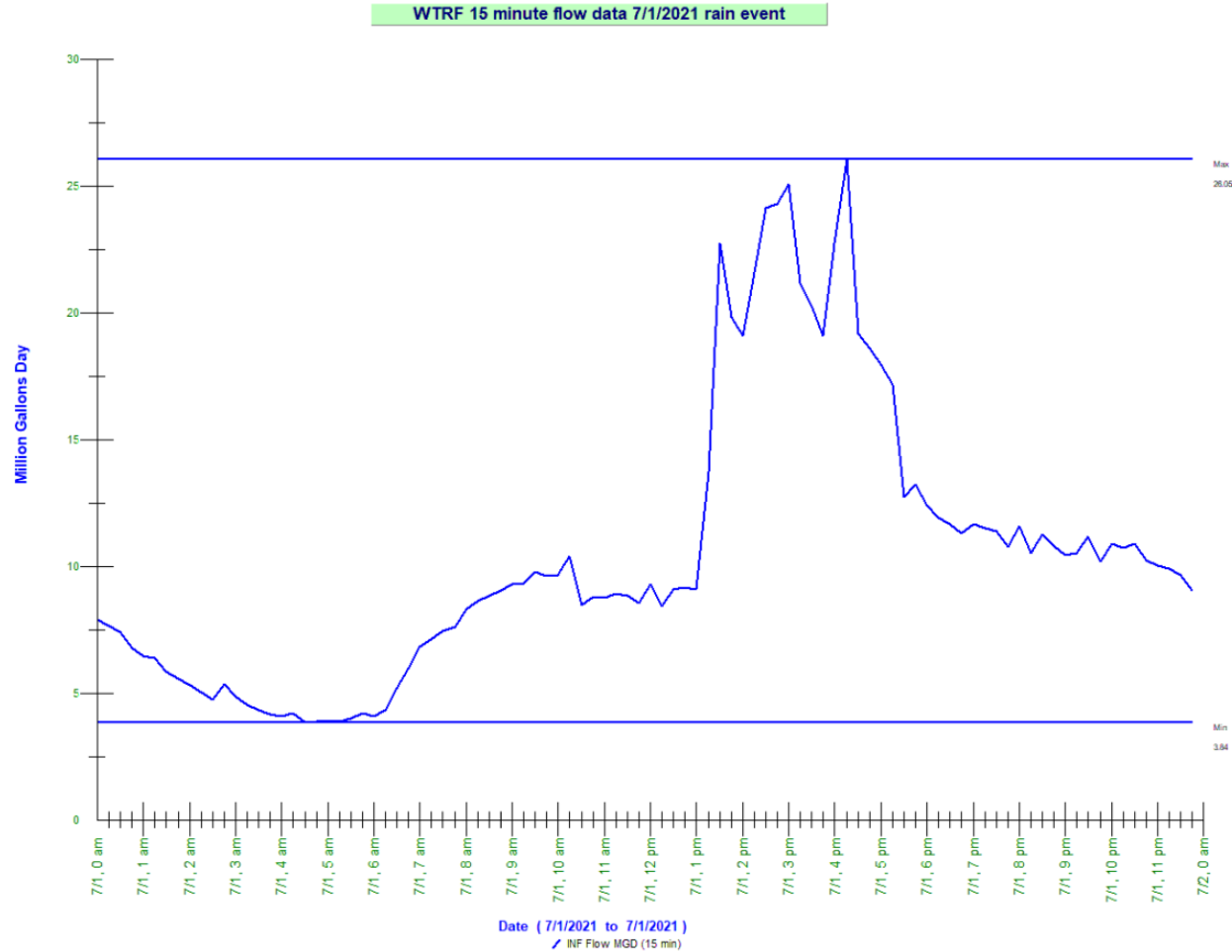


WTRF Influent Flow, Load, & Population (Annual Average)

WTRF: Influent Flow, Load, & Population - Annual Average 1970-2021



WTRF Rain Dependent Infiltration & Inflow



WTRF Daily Averages

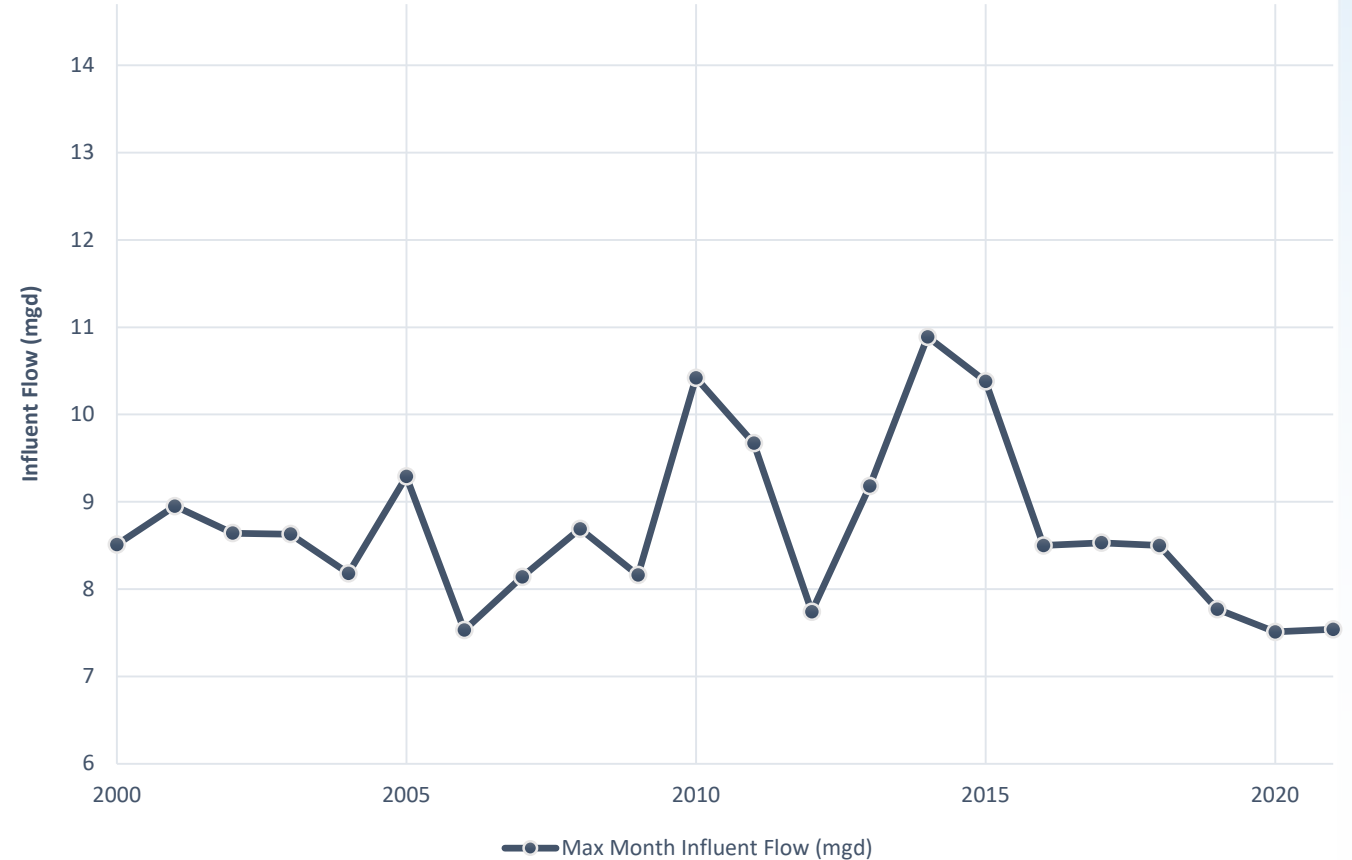
- September 15, 2013 – 12.06 MGD
- May 8th, 2017 – 9.14 MGD
- July 1, 2021 – 10.43 MGD

WTRF Rain Dependent Infiltration & Inflow

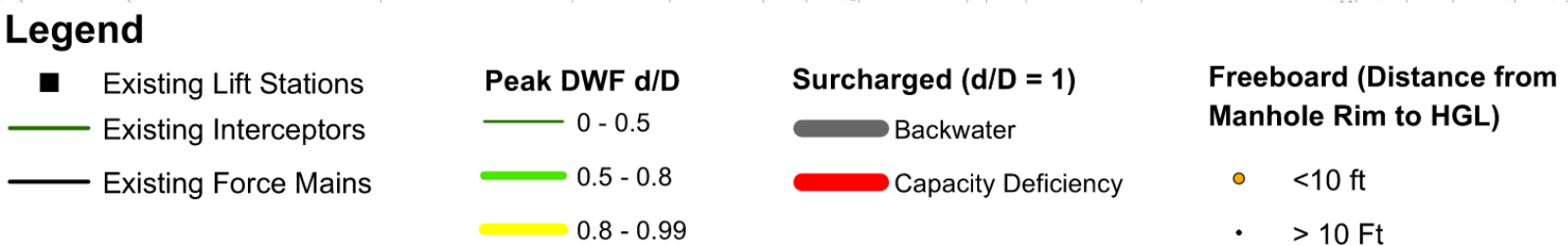
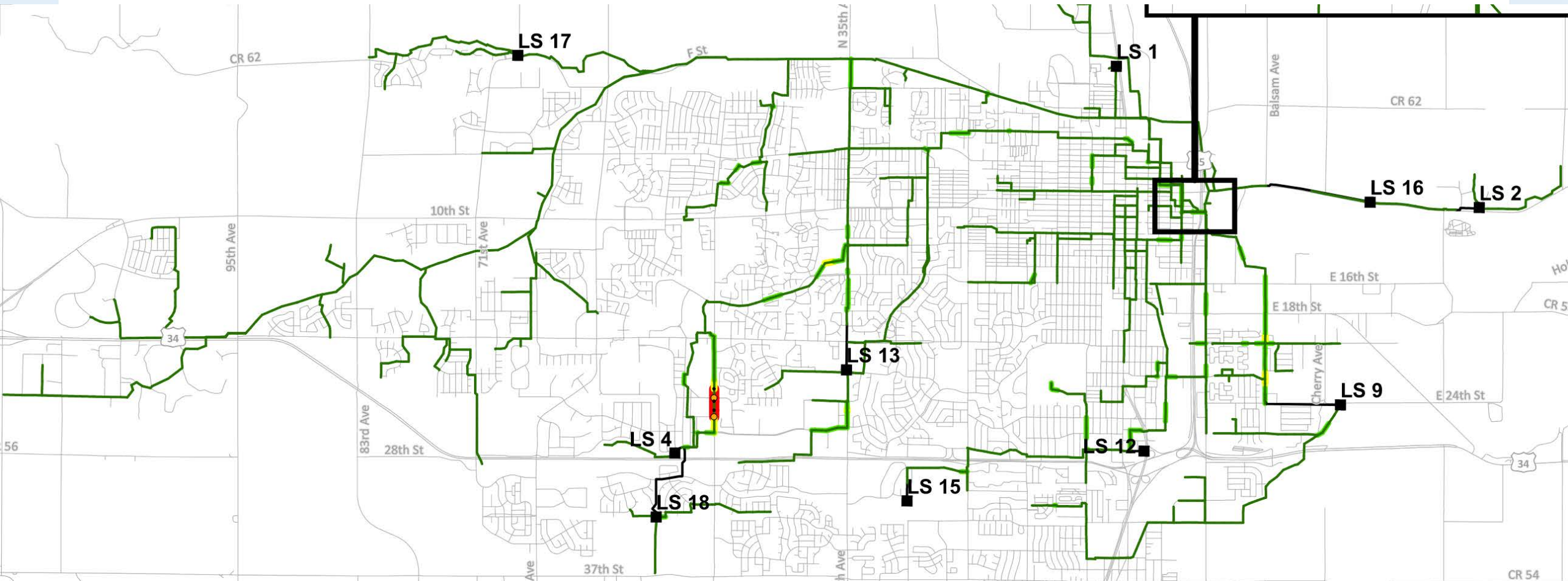
WTRF Daily Averages

- Recommend study to identify sources of RDII in collections system
- Removed storm connections from collections system
- Continue with CIPP lining to eliminate infiltration into system

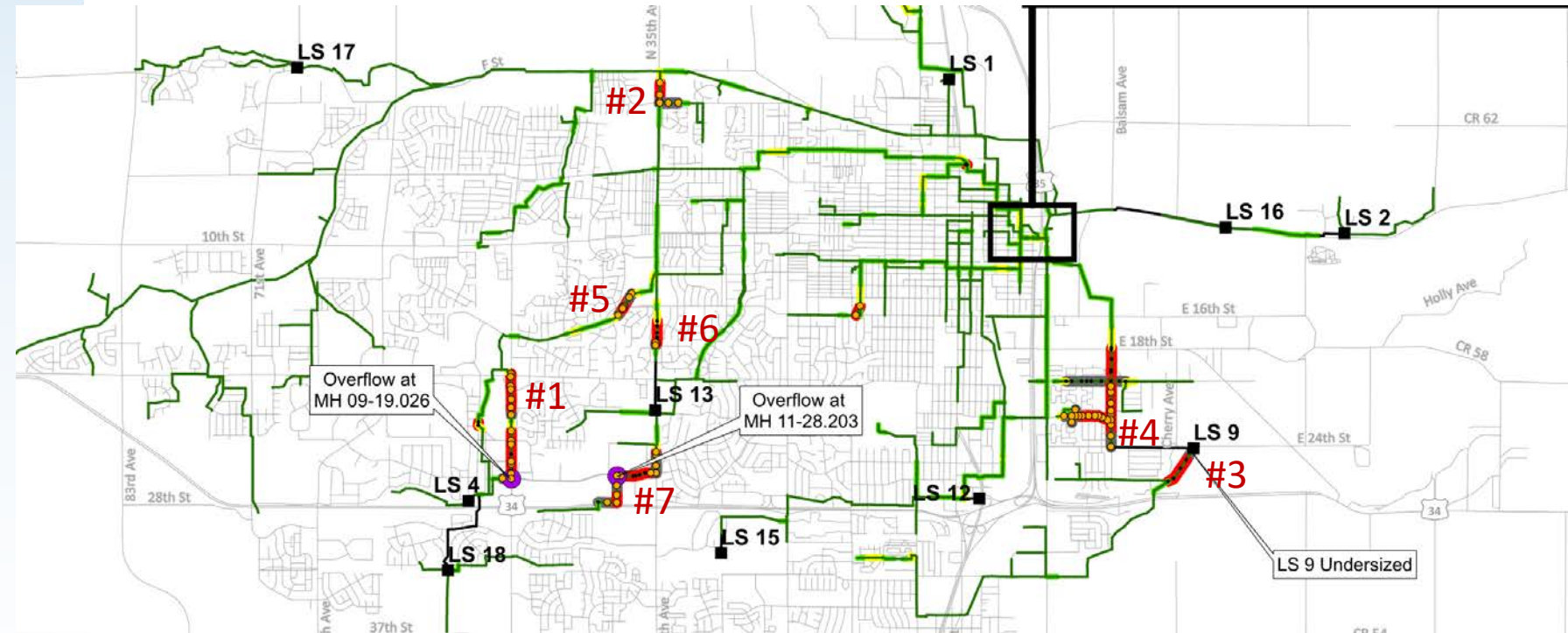
WTRF: Influent Flow - Max Month 2000-2021



Existing System Capacity Analysis – Dry Weather



Existing System Capacity Analysis – Wet Weather



Legend

- Existing Lift Stations
- Existing Force Mains
- Existing Interceptors

Peak WWF d/D

- 0 - 0.5
- 0.5 - 0.8
- 0.8 - 0.99

Surcharged (d/D = 1)

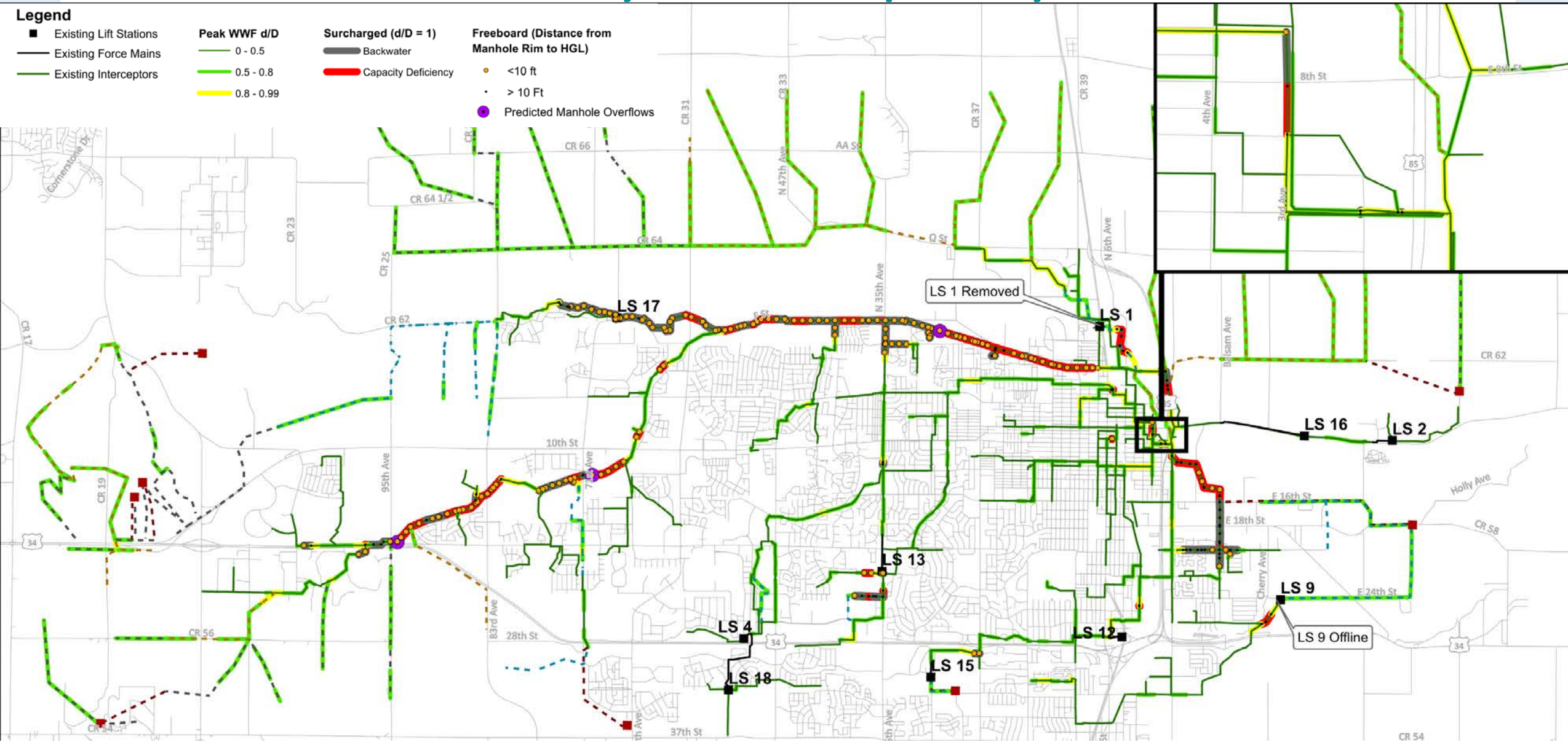
- Backwater
- Capacity Deficiency

Freeboard (Distance from Manhole Rim to HGL)

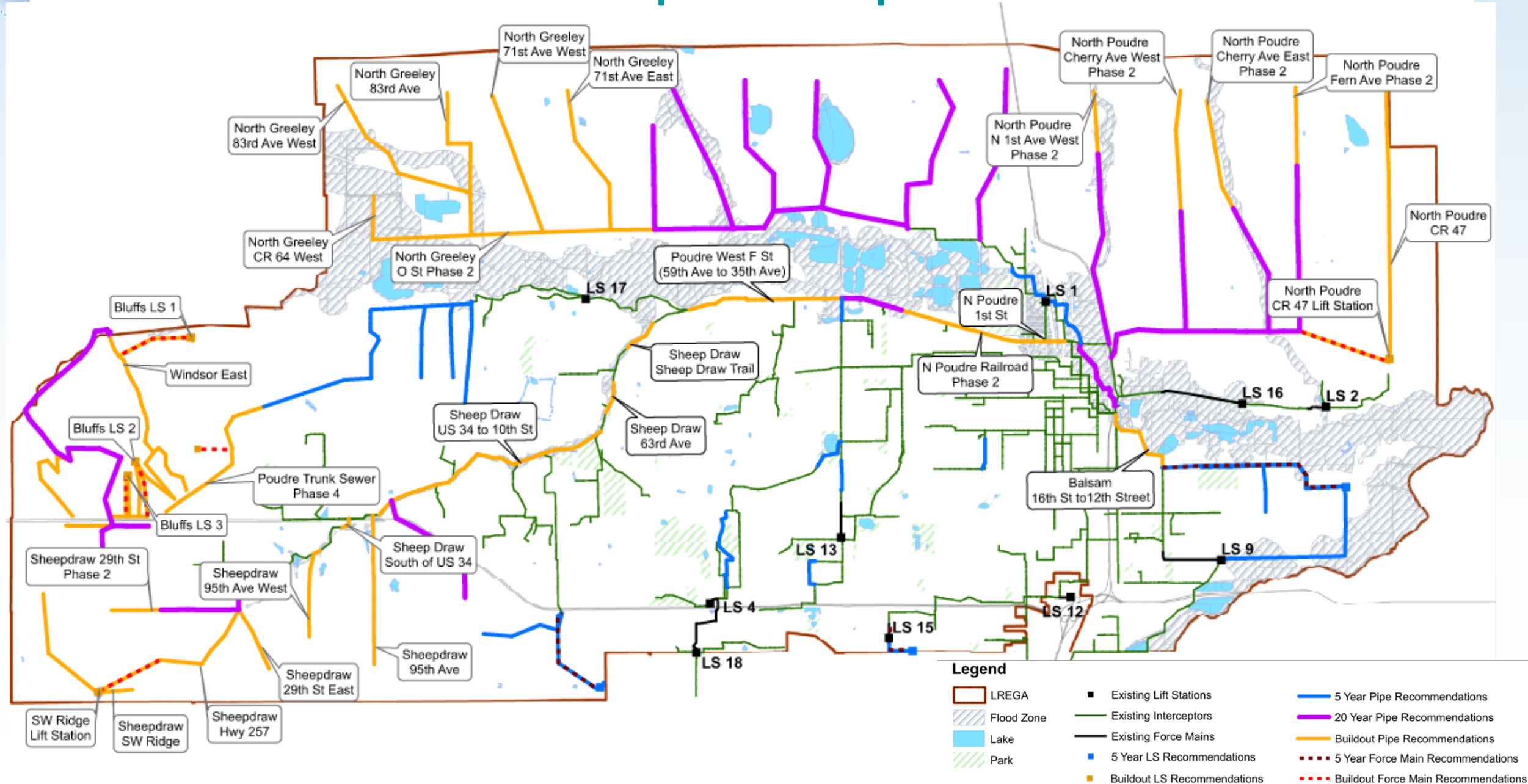
- <10 ft
- > 10 Ft
- Predicted Manhole Overflows

1. 47th Ave
2. 35th Ave (C St to F St)
3. Upstream of LS 9
4. Downstream of LS 9 (Balsam)
5. Bittersweet Park
6. 35th Ave (19th St Rd to 17 St)
7. Centerplace Dr & 25th St

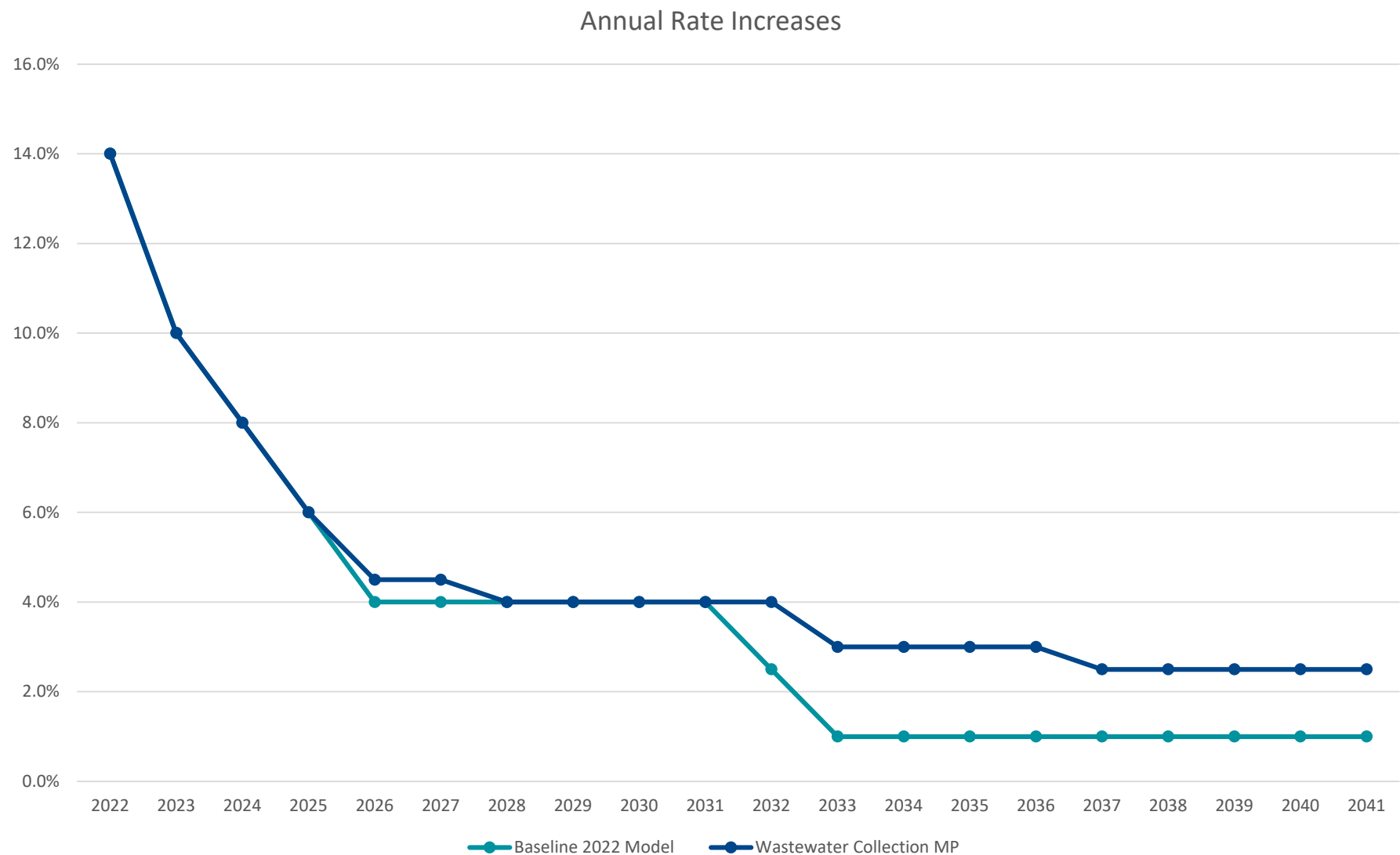
Buildout Sewer System Capacity



Recommended Capital Improvements



Annual Sewer Rates (City CIP Projects)



Next Steps

- Approval of Wastewater Utility Plan - Completed
 - North Front Range Water Quality Planning Association
- Finalize CIP Project Scheduling with Budget
- Recommendation & Approval from Planning Commission – July 27th
- Master Plan Acceptance by City Council – September 7th
- Monitor Flows and Capacity of LS #9 and Balsam Ave Interceptor



Questions?

WATER & SEWER BOARD AGENDA JULY 21, 2021

ENCLOSURE X NO ENCLOSURE

ITEM NUMBER: 7

TITLE: REVIEW AND APPROVE THE WATER
TRANSMISSION AND DISTRIBUTION
MASTER PLAN

RECOMMENDATION: RECOMMENDATION TO PLANNING
COMMISSION AND CITY COUNCIL

ADDITIONAL INFORMATION:

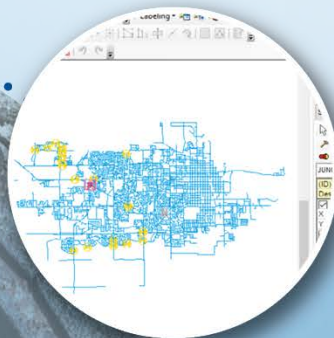
Water and Sewer Department has embarked on the process of completing the Water Transmission and Distributions Master Plan. The project started in 2017 with the selection of Bohannon Huston to update the existing 2008 transmission and distribution model. Then in 2018, the City selected CDM Smith to complete the engineering services for the Master Plan and planning for the expansion of the system. One of the first steps was developing the long term water demands within the Long Term Growth Boundary was utilizing the 2018 Imagine Greeley Land Use Guidance Map, existing zoning, future development projections, and working with the Planning Department. This information was combined to estimate the peak month water demands for full buildout of the system. The next steps were developing the water distribution system that could meet the water demands and pressures required throughout the system. The project then progressed to utilizing the system model for maintaining fire flows, water quality, the expansion of the system in the 5-year, 20-year, and full system build-out time frames. The final steps included developing CIP projects throughout the system and making sure it was coordinated with the other two Water & Sewer master plan projects and other City Department CIP projects. The final aspects of the project also included coordinating outreach efforts to discuss the planned master plans with different community members and groups interested in participating in reviewing the City's draft master plan and providing critical input or comments. This different feedback and input has now been incorporated into the master plan final report completed in June 2021.



Water Transmission and Distribution Master Plan

July 21, 2021

Water and Sewer Board Presentation



**CDM
Smith**

Outline

- CDM Smith's Master Plan (MP) Experience
- MP Goals and Mission Statement
- Master Plan Approach and Integration
- Stakeholder/Community Engagement
- Water Transmission and Distribution MP Overview
- Q&A

CDM Smith Experience

- CDM Smith has successfully completed over 500 Master Plans in the past 10 years
- CDM Smith has over 40 years of national experience in master planning
- Firmwide modeling capabilities include more than 200 professionals versed in hydraulic modeling
- Local team led by a PM who has worked on over 20 water/sewer master plans

Mission Statement

Provide City of Greeley a *reliable, defensible, and accurate* Master Plan that will serve as a 20-year planning guide by analyzing the infrastructure needed to improve system operations, serve population growth areas, and to integrate water, sewer, and non-potable water systems to make it a *cohesive plan*.



Existing Water Transmission and Distribution System

Existing Water System

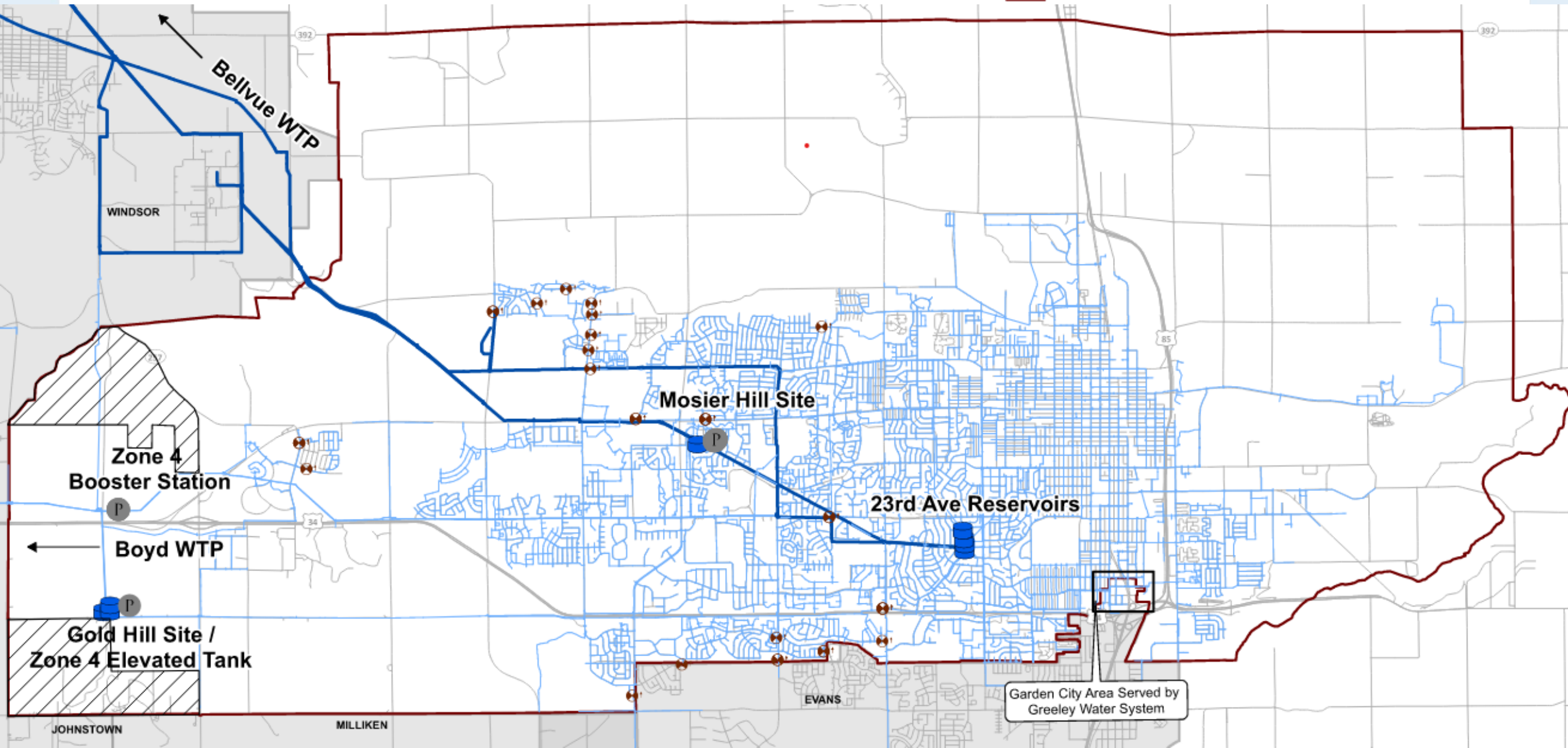
- 500 miles of distribution main
- 153 miles of transmission main
- 3 Pump Stations (Zone 4, Boyd Lake, Mosier Hill)
- Storage Tanks
 - 23rd Ave Reservoirs
 - Gold Hill Reservoir and Gold Hill Tank
 - Mosier Hill Tank
 - Zone 4 Water Tower
- Water Supply Sources
 - Bellvue (primary)
 - Boyd Lake (peaking)
- 4 Pressure Zones (based on elevations, controlled by reservoirs)
- Demands (2017-2018): Annual Average day = 25 MGD, Peak Day = 46 MGD

Pipe Dia (in)	Length (miles)
<8"	140
8"	230
10"	10
12"	50
16"	30
20"	50
24"	20
>24"	120
Total	650

Water Master Plan Area

Legend

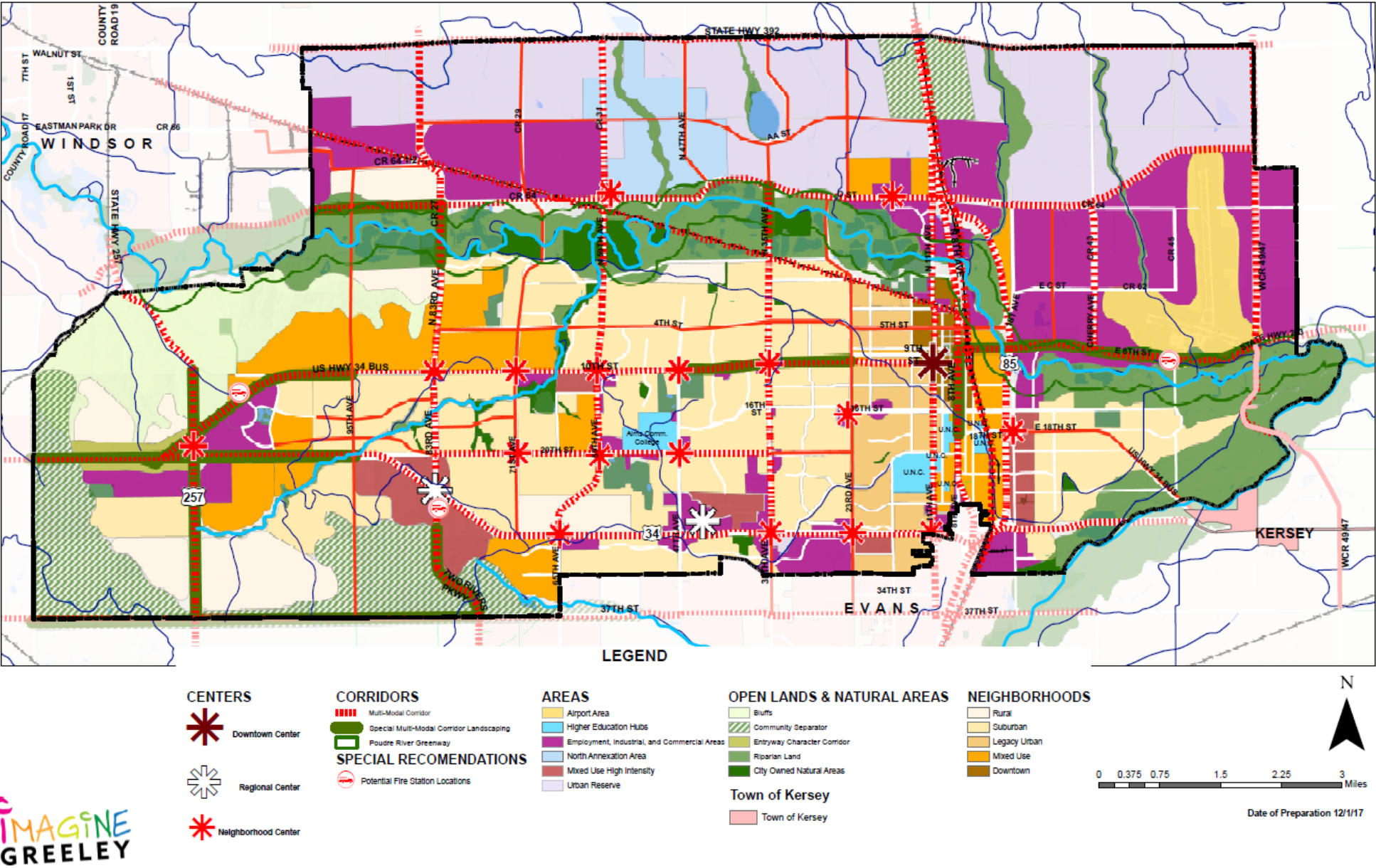
- Existing Pump Stations
- Existing Storage
- Neighboring Towns
- LREGA
- Distribution Mains
- Transmission Mains
- Overlapping Growth Area (to be negotiated in future IGAs)





Demands Development

Comprehensive Plan – Land Use Guidance Map

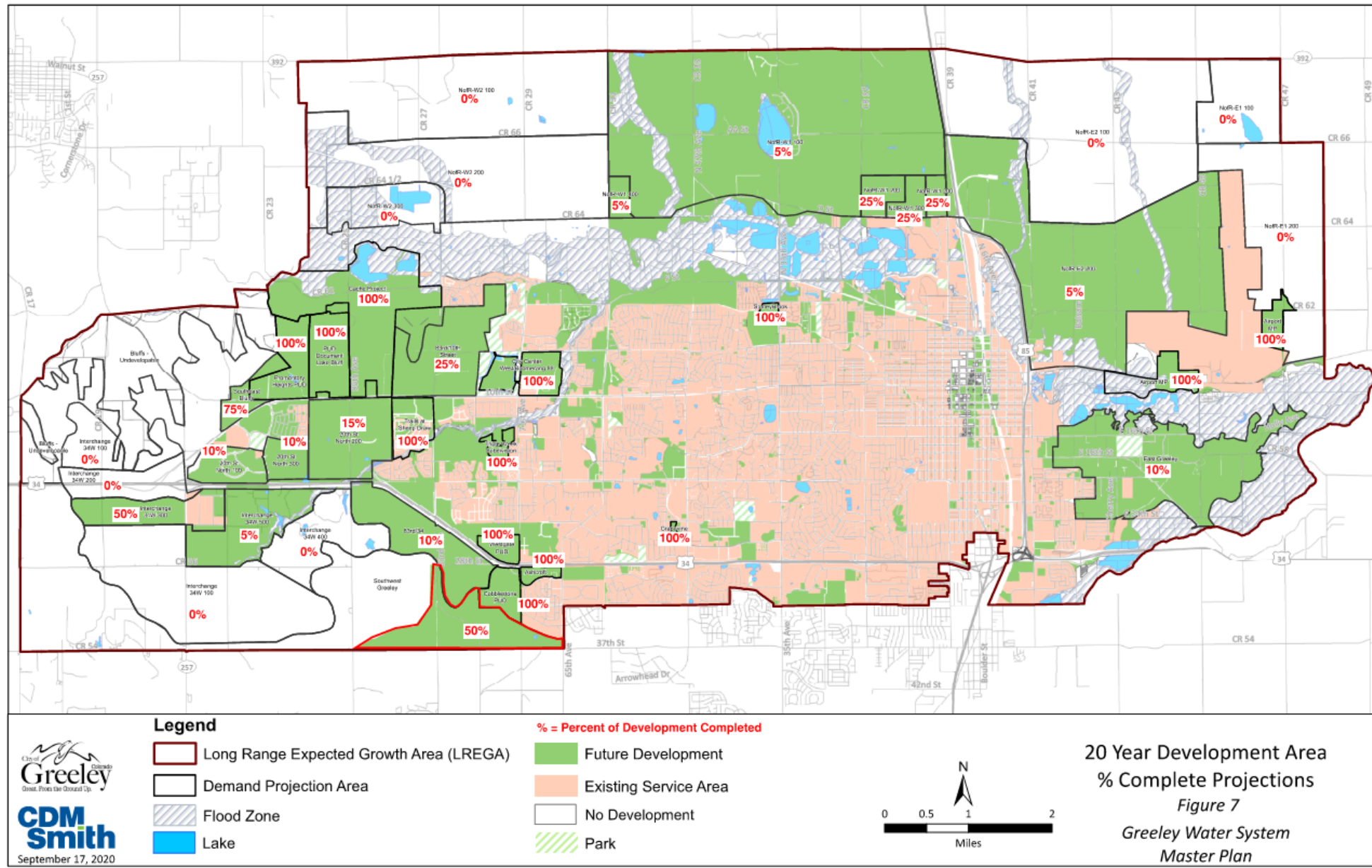


The map displays the following budget allocation percentages for various areas in Aurora, Colorado:

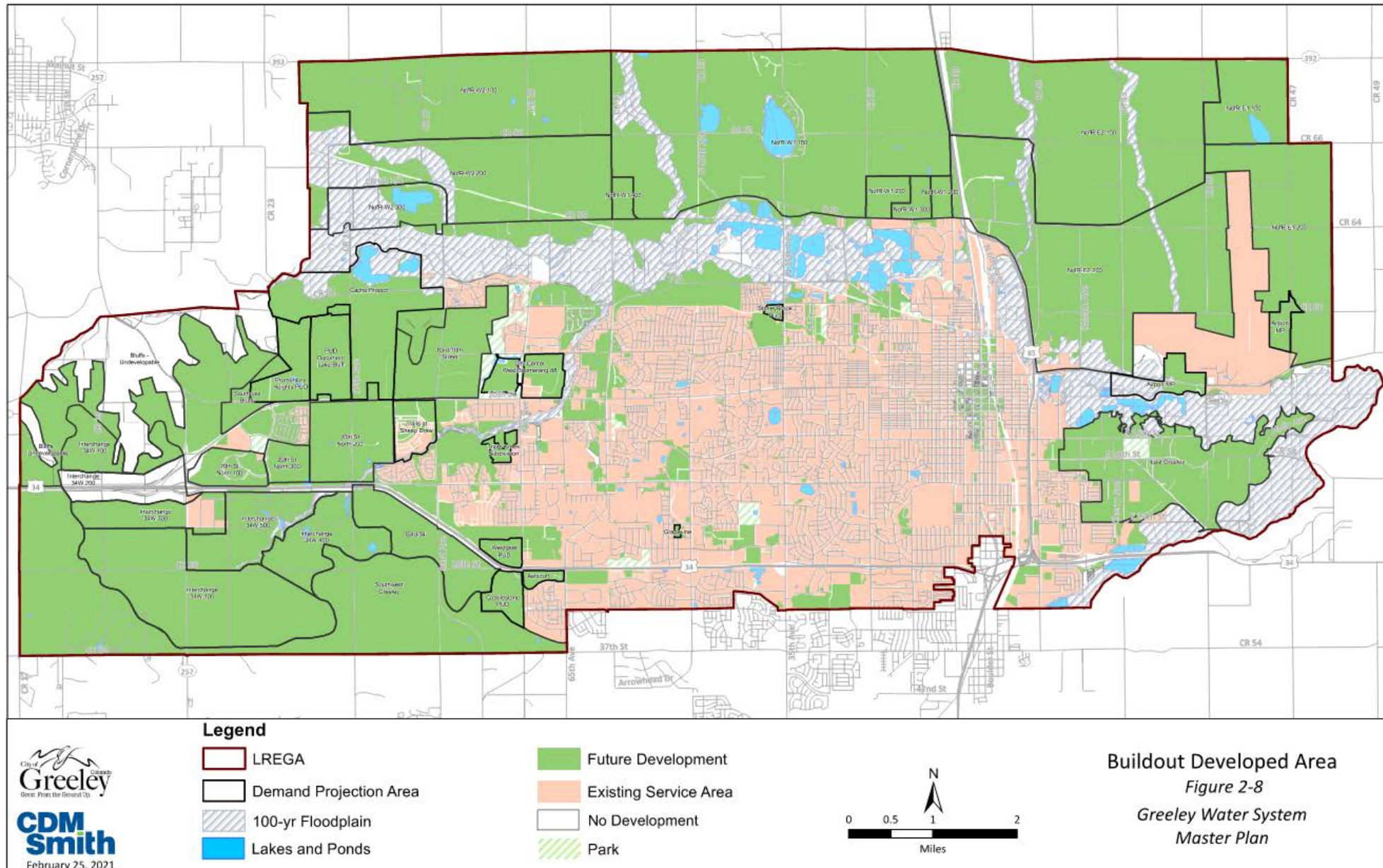
- 40% (Green):** Located in the central-western part of the city, near the intersection of 20th St and 30th St.
- 50% (Green):** Located in the central-western part of the city, near the intersection of 20th St and 30th St.
- 20% (Orange):** Located in the central-eastern part of the city, near the intersection of 20th St and 30th St.
- 75% (Green):** Located in the central-eastern part of the city, near the intersection of 20th St and 30th St.
- 100% (Red):** Located in the central-eastern part of the city, near the intersection of 20th St and 30th St.
- 10% DDA (Red):** Located in the central-eastern part of the city, near the intersection of 20th St and 30th St.

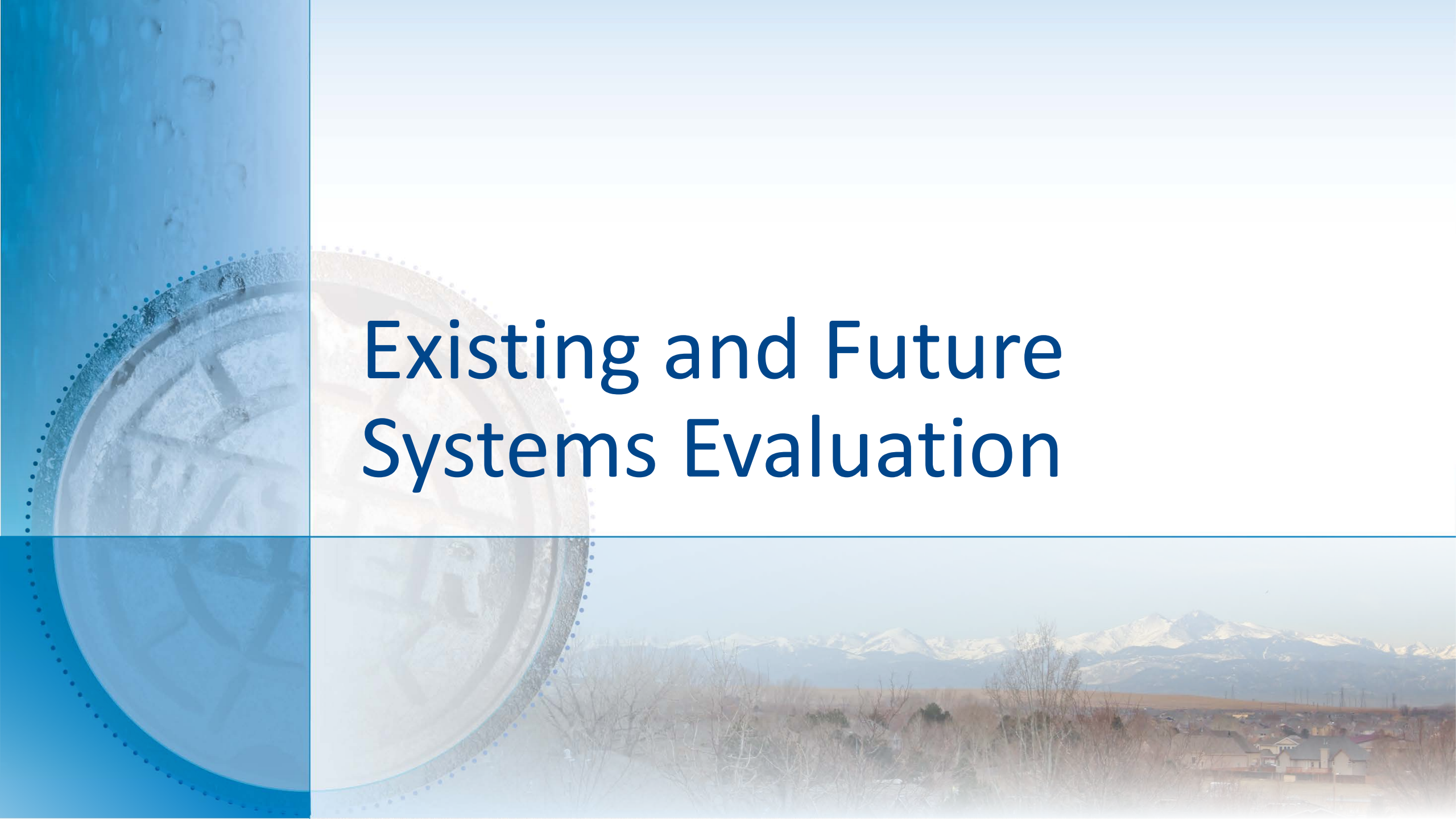


2040 Development Projections



Buildout Development Projections





Existing and Future Systems Evaluation

Model Development

- Model includes all distribution piping
- Existing System Model
 - 2018 Existing System Model by Bohannon Huston
- Demands
 - Peak Month base demands (projected based on billed summer usage)
 - Peaking – Residential and Non-Residential diurnal curves
 - Potable only vs Non-Potable Offset
- Planning Horizons
 - 2025
 - 2040
 - Build-Out

Buildout Scenario: Conceptual Alternatives

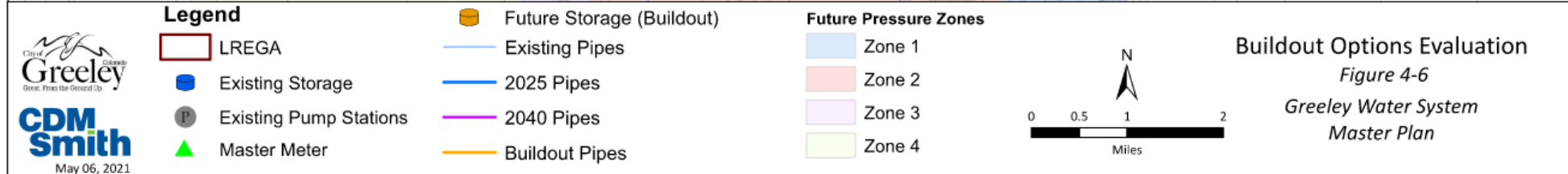
- Low pressures in North of the River showed need for new solutions
- Four options considered:
 - North Weld Master Meter (based on existing IGA)
 - Two Tanks (workable, but most expensive)
 - Shifted Pressure Zone Boundaries (limited potential)
 - Open PRVs (limited potential)
- Additional sensitivity analysis conducted on North Weld option (including large I-H user in railroad corridor)

This map illustrates the North Weld area, divided into three color-coded zones: Zone 1 (pink), Zone 2 (orange), and Zone 3 (blue). The map shows a network of streets, including major roads like Highway 34 and Highway 92, and local streets such as Wallcut St, Cornerstone Dr, 10th St, 11th St, 12th St, 13th St, 14th St, 15th St, 16th St, 17th St, 18th St, 19th St, 20th St, 21st St, 22nd St, 23rd St, 24th St, 25th St, 26th St, 27th St, 28th St, 29th St, 30th St, 31st St, 32nd St, 33rd St, 34th St, 35th St, 36th St, 37th St, 38th St, 39th St, 40th St, 41st St, 42nd St, 43rd St, 44th St, 45th St, 46th St, 47th St, 48th St, 49th St, 50th St, 51st St, 52nd St, 53rd St, 54th St, 55th St, 56th St, 57th St, 58th St, 59th St, 60th St, 61st St, 62nd St, 63rd St, 64th St, 65th St, 66th St, 67th St, 68th St, 69th St, 70th St, 71st St, 72nd St, 73rd St, 74th St, 75th St, 76th St, 77th St, 78th St, 79th St, 80th St, 81st St, 82nd St, 83rd St, 84th St, 85th St, 86th St, 87th St, 88th St, 89th St, 90th St, 91st St, 92nd St, 93rd St, 94th St, 95th St, 96th St, 97th St, 98th St, 99th St, 100th St. The map also shows several water distribution options, including:

- Feed from Bellvue Line:** Indicated by an arrow pointing to a line entering the Zone 1 area from the northwest.
- Feed from Kodak Line:** Indicated by an arrow pointing to a line entering the Zone 2 area from the west.
- Feed from 83rd Avenue Line (Designed for Zone 3 Pressures):** Indicated by an arrow pointing to a line entering the Zone 3 area from the west.
- Theoretical I-H User in Railroad Corridor:** Indicated by an arrow pointing to a line entering the Zone 2 area from the northwest.
- Potential New Zone 2 North Reservoir (All Options):** Indicated by an arrow pointing to a yellow circle in the Zone 2 area.
- Theoretical North Weld Master Meter Location (North Weld Option):** Indicated by an arrow pointing to a green triangle in the Zone 2 area.
- Potential New Zone 1 Tank (Two Tanks Options):** Indicated by an arrow pointing to a yellow circle in the Zone 1 area.

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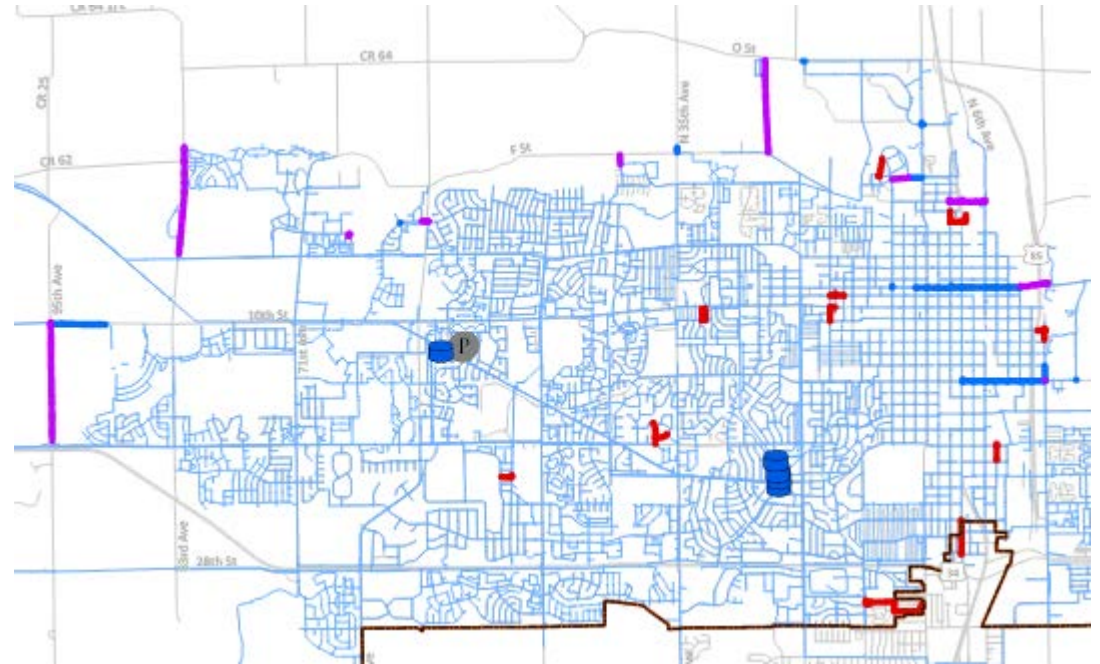
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Buildout Options Evaluation
Figure 4-6
Greeley Water System
Master Plan

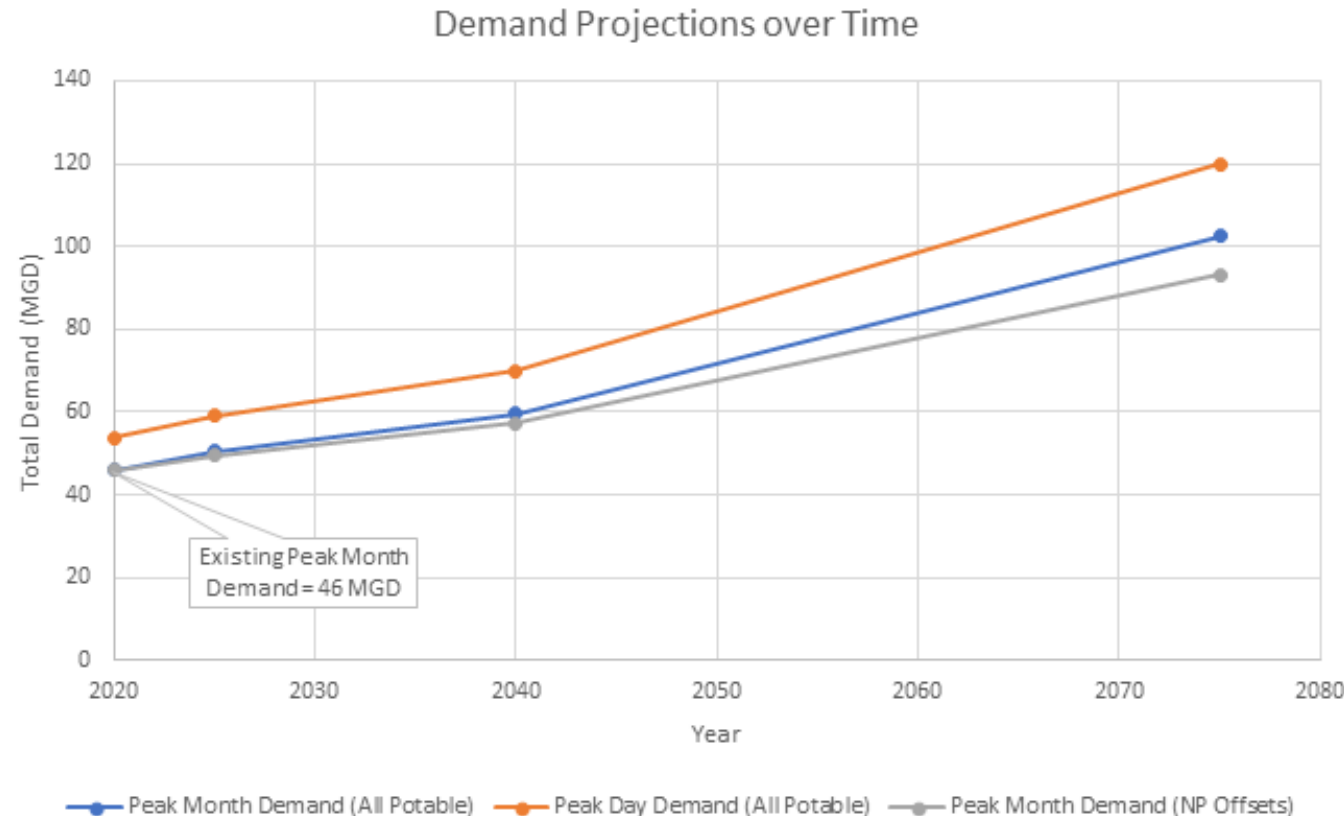
Fire Flow Evaluation

- For future areas, fire flow was used to ensure pipes were large enough
- Results validated with fire hydrant reports of existing records
- Some existing fire flow improvements areas identified
 - 11 small projects proposed to improve fire flow resiliency



Water Demand Projections

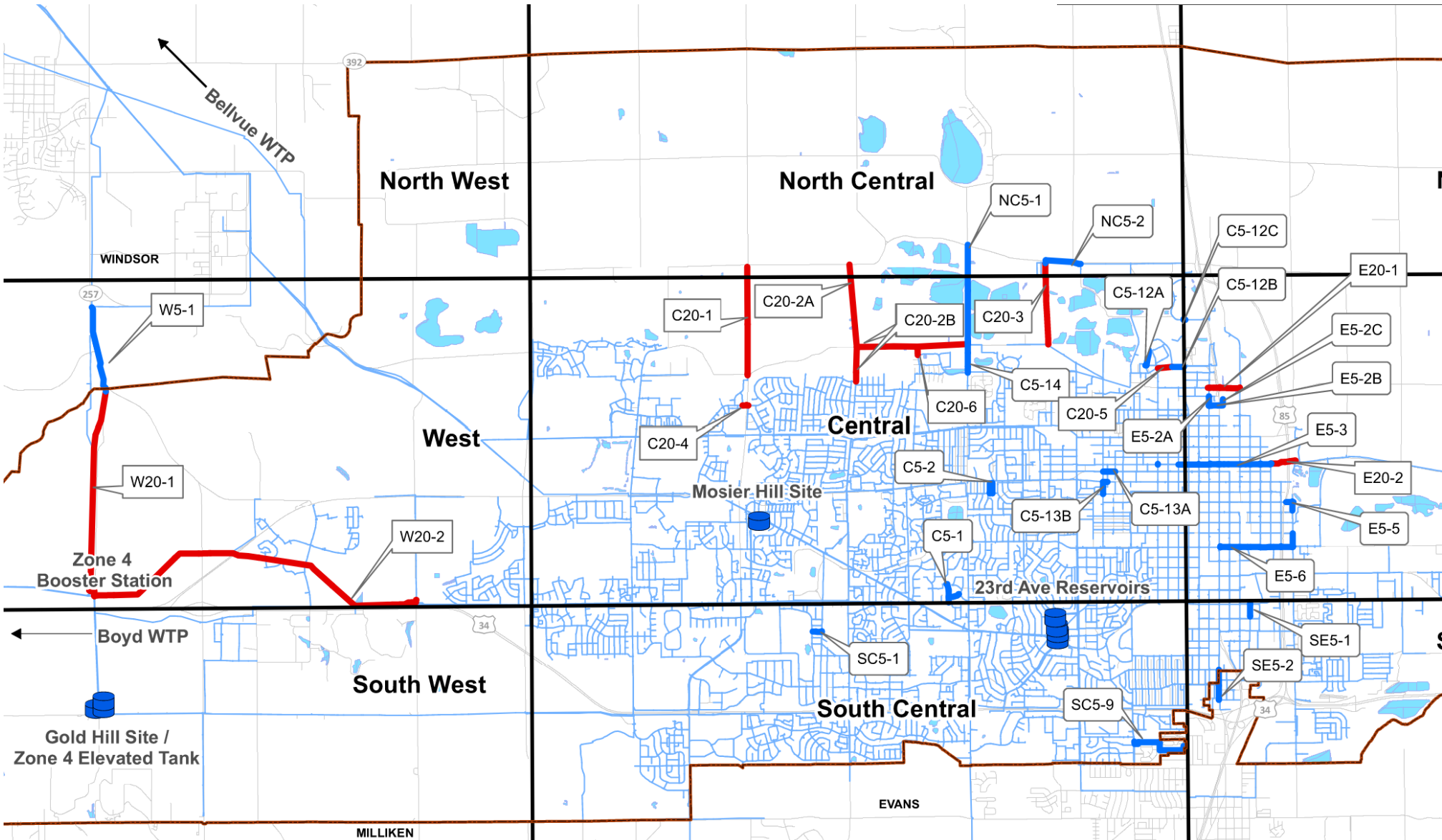
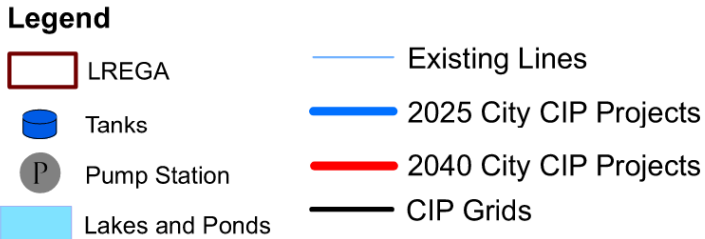
- Planned potable infrastructure is sized for 102.4 MGD (buildout)
 - Existing = 46.0 MGD
 - 123% increase
 - Peak month demands
- Non-Pot offsets could reduced potable demand to 93.5 MGD or lower
 - Dependent on strong NP police and encouragement of NP conversions
 - NP MP assumes NP increases from 1.3 MGD to 9.3 MGD



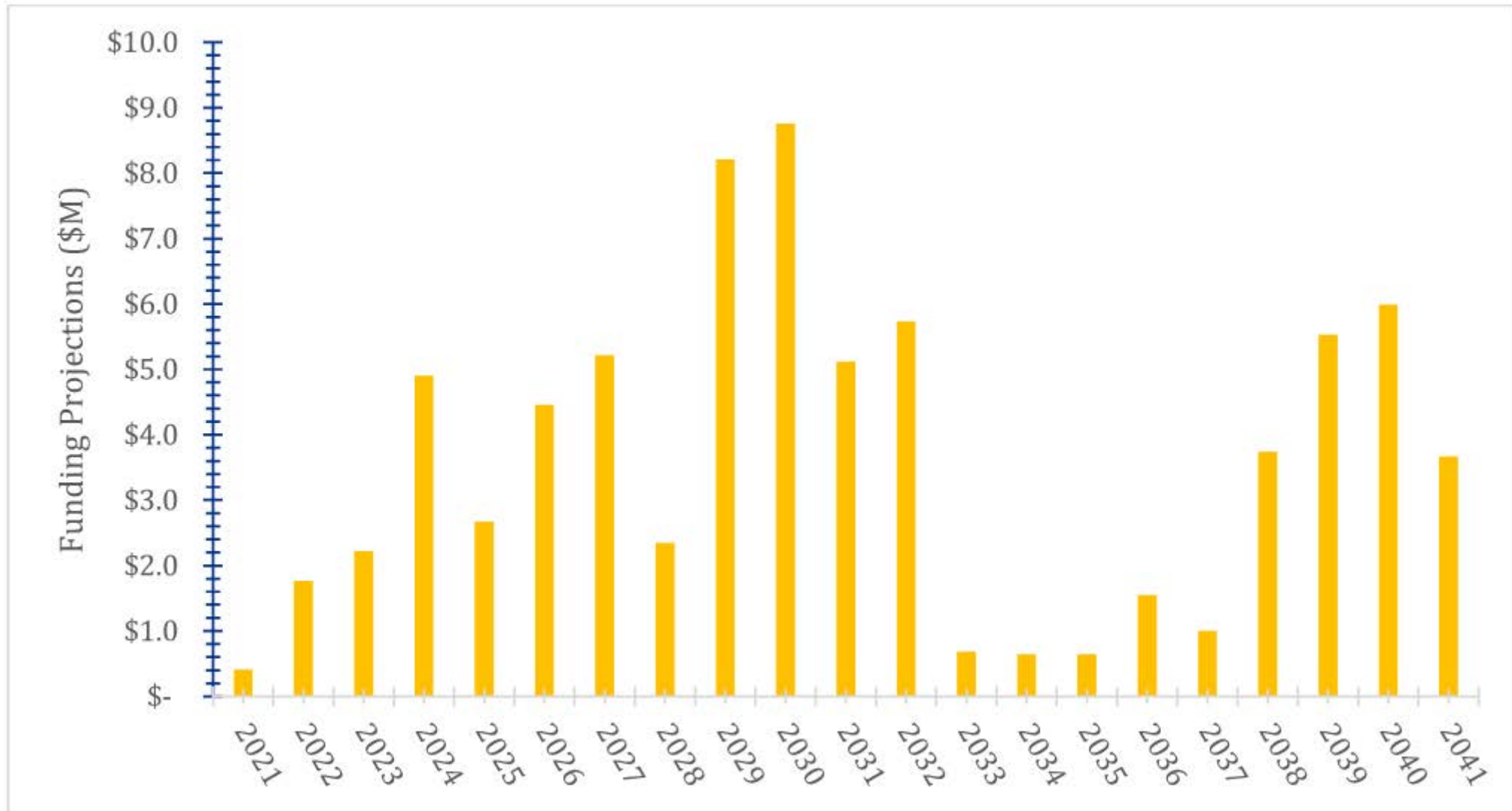


Capital Improvements Plan

City CIP Summary: 20-Year



Annual Water Funding Projections (City CIP)





Stakeholder/Community Engagement

Stakeholder Engagement Approach



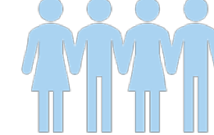
Interactive Workshop 1:

Build collaborative environment
Inform ALL stakeholder
Share information between stakeholders
Brainstorm additional areas of collaboration



Interactive Workshop 2:

Stakeholder input on alternatives and challenges
Discuss alternatives (map)
Finalize regional solutions



One on Ones

Collaborate on specific ideas between Greeley and stakeholders

Stakeholder	Wastewater	Water	Non-Pot
Evans*	✓	✓	✓
Kersey*	✓	✓	
Johnstown	✓	✓	
Eaton*	✓	✓	
Windsor*	✓	✓	✓
Milliken*	✓	✓	
Severance		✓	
Loveland		✓	
Elco		✓	
North Weld		✓	
Denver Water*			✓
Westminster*			✓

*One-on-one meeting held

Community Engagement

- Community engagement with engineers, planners, developers, and citizens
- Community engagement efforts included:
 - Virtual meeting to introduce MP and development work completed
 - Participants reviewed draft MP and provided comments
 - Follow up virtual meeting was held to discuss comments and responses



Findings and Recommendations

Key Findings

- City has a robust distribution system **without** significant system deficiencies
 - CIP is primarily driven by expanded service area
 - Minor fire flow improvements within the existing system were identified
- Areas with topographic challenges may require more detailed study as they develop (ex: Bluffs, North of the River)
- Sampling records and modelling do not show water quality concerns

Recommendations

- Continue investing in conservation and NP irrigation
- Bring in additional feeds from Bellvue WTP
 - Planned Gold Hill 60"
- Conduct water age focused hydraulic evaluations of the tanks
- Consider operations study to evaluate system automation
 - Pumps at Mosier & control valves
- Develop a system-wide standard operating procedure
- Execution of recommended CIP projects
 - Coordinate with the Fire Department to prioritize fire flow projects
 - Collaborate with regional stakeholders where applicable
- No changes are recommended to existing policies



Questions?

WATER & SEWER BOARD AGENDA JULY 21, 2021

ENCLOSURE X NO ENCLOSURE

ITEM NUMBER: 8

TITLE: APPROVE AND RECOMMEND TO THE CITY
MANAGER THE WATER AND SEWER 2022
OPERATING BUDGET AND 5 YEAR CIP

RECOMMENDATION: APPROVE AND RECOMMEND TO THE CITY
MANAGER THE WATER AND SEWER 2022
OPERATING BUDGET AND 5 YEAR CIP

ADDITIONAL INFORMATION:

Staff prepared the 2022 operating budget and the five-year capital program for review by the Water and Sewer Board. The 2022 operating budget would normally be a two-year operating budget but because 2021 was a one-year budget due to COVID, Greeley is preparing 2022 as a one-year budget as well.

Staff prepared the operating and capital budgets by reviewing service levels, incorporating capital improvements from recent master plans and evaluating how the department can most efficiently provide its critical, regulatory driven services. The enclosed capital budgets meet the regulatory, rehabilitation, and long range planning needs of the City's water and sewer services while being mindful of the rates that Greeley's citizens pay.

On average, residential water bills will increase approximately \$4.16/month and residential sewer bills will increase approximately \$4.22/month for a total water and sewer bill increase of \$8.38/month. The water and sewer PIFs for a 3/4" tap remain unchanged at \$11,200 and \$6,800 respectively.

The following background documents are attached to this item:

- Water and sewer pro formas
- 10 Year CIP
- Existing and future debt summary
- CIP Budgets Detail
- Operating Budgets Detail
- Presentation slides

**Water Pro Forma
2022**

Line No.		Total for 2022	Operating	Construction	Replacement	Acquisition
Operating Revenue:						
1	User Charges	46,710,745	46,710,745			
2	Plant Investment Fees	3,744,040		3,744,040		
3	Hydrant Sales	400,000	400,000			
4	Raw Water Surcharge	350,000				350,000
5	Cash-in-Lieu	-				
6	Meter Sales/Rentals	210,000		210,000		
7	Total Operating Revenue	51,414,784	47,110,745	3,954,040	-	350,000
Operating Expenses:						
8	O&M	20,383,653	20,229,316	154,337		
9	Windy Gap Assessments	935,850	935,850			
10	Total Operating Expenses	21,319,503	21,165,166	154,337	-	-
11	Operating Income	30,095,281	25,945,579	3,799,702	-	350,000
Non-Operating Revenue:						
12	Miscellaneous	1,923,000	1,883,000			40,000
13	Terry Ranch Contributions	14,606,000		14,606,000		
14	Investment Income	431,323	247,832	53,188	87,007	43,296
15	Sewer Fund for Services & Meters	90,644	90,644			
16	Sale of Assets	-				
17	Bond Issue	-				
18	Total Non-Operating Revenue	17,050,967	2,221,476	14,659,188	87,007	83,296
Non-Operating Expenses:						
19	Water Acquisition	8,618,000				8,618,000
20	Capital	53,195,685		27,621,488	25,574,197	
21	Debt Service	11,193,879	11,193,879			
22	General Fund for General Administration	2,756,617	2,756,617			
23	Total Non-Operating Expenses	75,764,181	13,950,496	27,621,488	25,574,197	8,618,000
Interfund Revenue or (Expense)						
	Funded Depreciation	-	(8,569,933)		8,569,933	
	Grant Reimbursement	-				
	Additional Transfer from Operating	-	-			
24	Total Interfund Revenue (Expense)	-	(8,569,933)	-	8,569,933	-
25	Annual Surplus (Deficiency)	(28,617,933)	5,646,626	(9,162,598)	(16,917,257)	(8,184,704)
26	Beginning Fund Balance 2022	57,441,177	21,959,849	9,900,054	17,159,328	8,421,946
27	Ending Fund Balance 2022	28,823,245	27,606,475	737,456	242,071	237,242
28	Minimum Target Reserve	5,218,808				

**Water Pro Forma
2022-2031**

Line No.		10-year Total	Operating	Construction	Replacement	Acquisition
Operating Revenue:						
1	User Charges	573,198,707	573,198,707			
2	Plant Investment Fees	61,795,771		61,795,771		
3	Hydrant Sales	4,585,555	4,585,555			
4	Raw Water Surcharge	4,012,358				4,012,358
5	Cash-in-Lieu	-				
6	Meter Sales/Rentals	2,586,822		2,586,822		
7	Total Operating Revenue	646,179,214	577,784,262	64,382,593	-	4,012,358
Operating Expenses:						
8	O&M	245,743,732	243,974,434	1,769,298		
9	Windy Gap Assessments	10,978,832	10,978,832			
10	Total Operating Expenses	256,722,564	254,953,266	1,769,298	-	-
11	Operating Income	389,456,650	322,830,996	62,613,296	-	4,012,358
Non-Operating Revenue:						
12	Miscellaneous	20,325,200	20,285,200			40,000
13	Terry Ranch Contributions	94,224,636		94,224,636		
14	Investment Income	3,859,672	1,753,961	1,141,847	497,512	466,352
15	Sewer Fund for Services & Meters	1,063,397	1,063,397			
16	Sale of Assets	-				
17	Bond Issue	249,500,000		115,500,000	44,000,000	90,000,000
18	Total Non-Operating Revenue	368,972,905	23,102,558	210,866,483	44,497,512	90,506,352
Non-Operating Expenses:						
19	Water Acquisition	102,937,698				102,937,698
20	Capital	457,600,141		290,196,364	167,403,777	
21	Debt Service	208,965,837	208,965,837			
22	General Fund for General Administration	31,601,526	31,601,526			
23	Total Non-Operating Expenses	801,105,202	240,567,363	290,196,364	167,403,777	102,937,698
Interfund Revenue or (Expense)						
	Funded Depreciation	(0)	(112,436,148)		112,436,148	
	Grant Reimbursement	-				
	Additional Transfer from Operating	-	(7,000,000)	7,000,000		
24	Total Interfund Revenue (Expense)	(0)	(119,436,148)	7,000,000	112,436,148	-
25	Total Surplus (Deficiency)	(42,675,647)	(14,069,957)	(9,716,585)	(10,470,117)	(8,418,988)
26	Beginning Fund Balance 2022	57,441,177	21,959,849	9,900,054	17,159,328	8,421,946
27	Ending Fund Balance 2031	14,765,531	7,889,892	183,469	6,689,211	2,958
28	Minimum Target Reserve	7,356,113				

**Sewer Pro Forma
2022**

Line No.		Total for 2022	Operating	Construction	Replacement
Operating Revenue:					
1	User Charges	14,588,413	14,588,413		
2	Plant Investment Fees	2,001,054		2,001,054	
3	Total Operating Revenue	16,589,467	14,588,413	2,001,054	-
Operating Expenses:					
4	O&M	7,077,551	6,922,465	155,086	
5	Total Operating Expenses	7,077,551	6,922,465	155,086	-
6	Operating Income	9,511,916	7,665,948	1,845,968	-
Non-Operating Revenue:					
7	Miscellaneous	275,000	275,000		
8	Investment Income	242,316	34,189	28,039	180,088
9	Bond Issue	-			
10	Total Non-Operating Revenue	517,316	309,189	28,039	180,088
Non-Operating Expenses:					
11	Capital	29,174,942		5,146,894	24,028,048
12	Debt Service	3,054,236	3,054,236		
13	Water Fund for Services and Meters	90,644	90,644		
14	General Fund for General Administration	704,203	704,203		
15	Total Non-Operating Expenses	33,024,025	3,849,083	5,146,894	24,028,048
Interfund Revenue or (Expense)					
	Funded Depreciation	-	(4,091,620)		4,091,620
	Additional Transfer from Operating	-			
16	Total Interfund Revenue (Expense)	-	(4,091,620)	-	4,091,620
17	Annual Surplus (Deficiency)	(22,994,793)	34,434	(3,272,886)	(19,756,341)
18	Beginning Fund Balance 2022	35,720,740	3,393,376	4,440,346	27,887,018
19	Ending Fund Balance 2022	12,725,947	3,427,810	1,167,459	8,130,678
20	Minimum Target Reserve	1,706,909			

**Sewer Pro Forma
2022-2031**

Line No.		10-year Total	Operating	Construction	Replacement
Operating Revenue:					
1	User Charges	208,854,325	208,854,325		
2	Plant Investment Fees	49,627,102		49,627,102	
3	Total Operating Revenue	258,481,427	208,854,325	49,627,102	-
Operating Expenses:					
4	O&M	80,548,477	78,770,584	1,777,893	
5	Total Operating Expenses	80,548,477	78,770,584	1,777,893	-
6	Operating Income	177,932,950	130,083,741	47,849,209	-
Non-Operating Revenue:					
7	Miscellaneous	2,646,734	2,646,734		
8	Investment Income	1,692,781	534,380	640,277	518,124
9	Bond Issue	109,500,000		77,500,000	32,000,000
10	Total Non-Operating Revenue	113,839,515	3,181,114	78,140,277	32,518,124
Non-Operating Expenses:					
11	Capital	227,420,649		122,837,706	104,582,944
12	Debt Service	63,960,336	63,960,336		
13	Water Fund for Services and Meters	1,063,397	1,063,397		
14	General Fund for General Administration	8,072,903	8,072,903		
15	Total Non-Operating Expenses	300,517,286	73,096,636	122,837,706	104,582,944
Interfund Revenue or (Expense)					
	Funded Depreciation	-	(57,286,747)		57,286,747
	Additional Transfer from Operating	-			
16	Total Interfund Revenue (Expense)	-	(57,286,747)	-	57,286,747
17	Total Surplus (Deficiency)	(8,744,821)	2,881,472	3,151,780	(14,778,072)
18	Beginning Fund Balance 2022	35,720,740	3,393,376	4,440,346	27,887,018
19	Ending Fund Balance 2031	26,975,919	6,274,848	7,592,125	13,108,946
20	Minimum Target Reserve	2,249,946			

CITY OF GREELEY - WATER & SEWER 10 YEAR CIP 2022-2031

Revised July 9, 2021

• Project new to CIP this year

WATER CONSTRUCTION													
Supply	Driver	Description	2022 to 2031	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Windy Gap Firming	Master Plan	Firms water rights for Greeley's Windy Gap units.	1,545,000	515,000	515,000		515,000						
Terry Ranch Water Development	Master Plan	A aquifer supply & storage project to help Greeley meet its long term water resource needs.	134,015,000	36,515,000			37,500,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Non-Potable Expansion Projects	Master Plan	Funds non-potable system conversions and np infrastrucutre to serve new development.	57,804,940	5,051,000	5,278,550	5,517,200	5,768,060	6,031,130	6,031,800	6,031,800	6,031,800	6,031,800	6,031,800
• Boomerang Non-Pot Overflow & Stormwater Impr	Regulatory	Ensures stormwater release requirements for the non-pot pond are met for Boomerang project.	429,000	429,000									
• Poudre Ponds Pond C	Master Plan	Fill Pond C, grade the site and reseed the area to get released from the DRMS mining permit.	4,039,800		3,543,300	376,500	120,000						
30" Pleasant Valley Pipeline and Pump Station	Master Plan	Greeley & Tri-Districts partnership, connecting Pleasant Valley pipeline to Overland ponds.	250,000	250,000									
Treatment													
Bellvue Residuals Gravity Thickener	Operations/MP	2nd residual gravity thickener for increased capacity & demand.	7,462,500						1,258,000	6,204,500			
Bellvue 2mg Clear well	Operations/Reg.	Best practice is 10% of max daily production, need 4 mg and currently have 2mg.	5,264,900			490,500	4,774,400						
Transmission & Distribution													
• North Weld Water System Purchase	Master Plan	Purchase of the North Weld water pipeline located near the Budweiser annexation.	1,032,788	1,032,788									
• O St & 59th Ave Waterline Improvements	Const. Coord	Install water piping prior to intersection paving improvements	629,000	629,000									
• Waterline F St S and E of 47th Ave	Master Plan	Install 7000 feet of 12", 16" and 20" Waterline.	4,251,330	590,000	3,661,330								
Distribution Line Extension & Oversizing	Operations/MP	Development reimbursement for water line oversizing.	1,604,700	147,200	154,300	161,400	161,400	163,400	163,400	163,400	163,400	163,400	163,400
Water Taps	Operations	City installed taps for new development or removing compound taps.	750,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000
New Construction Meters	Operations	City installed meters for new development (reimbursed).	450,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000
Non-Potable Waterline	Master Plan	Dependent on roadwork - install new non-potable line, 83rd Avenue alignment.	16,292,570	600,000		1,726,970		7,247,800	6,717,800				
35th Ave Non-Potable Waterline Ph II	Const. Coord/MP	Phase two to install a 30-36" non-pot pipe as part of the 35th Ave Widening by Public Works.	1,730,250		865,125	865,125							
35th Avenue Water Line Extension Ph II	Const. Coord	Waterline to be installed in advance of City and County roadway projects along 35th Ave.	3,240,000		215,000	3,025,000							
• O St Waterline Extension 23rd-25th	Master Plan	Install 16" Waterline along "O" Street between 23rd and 25th Avenues	471,000		125,000	346,000							
Bellvue Pipeline Gold Hill	Master Plan	Gold Hill segment will allow gravity service to Gold Hill.	5,095,905		85,000	4,950,905	50,000	10,000					
EFI Pump Station Installation	Operations	Install self-contained pre-fab water pump station to provide additional flow and pressure.	605,000		70,000	150,000	385,000						
71st - 83rd Pump Station and Pipeline	Master Plan	Construct pump station and pipeline to 83rd Ave, part of the lower equalizer project.	13,487,100								1,159,300	6,454,650	5,873,150
SUB-TOTAL WATER CONSTRUCTION			260.5M	45.9M	14.6M	17.7M	49.4M	23.6M	24.3M	22.5M	17.5M	22.8M	22.2M

WATER CAPITAL REPLACEMENT													
Supply	Driver	Description	2022 to 2031	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Milton Seaman Outlet Works	Operations/Reg.	Replacement of Milton Seaman reservoir outlet gates.	5,297,298					5,297,298					
Non-Potable Replacement and Rehabilitation	Maintenance	Maintenance and expansion of Greeley's existing non-potable irrigation system.	8,823,500	1,275,000	947,500	1,592,500	1,288,500	620,000	620,000	620,000	620,000	620,000	620,000
SCADA Upgrades - Reservoir 23 & Non-Potable	Maintenance	Upgrade the outdated SCADA system as Reservoir 23 and Non-pot systems.	451,600	451,600									
Hourglass & Comanche Reservoir Rehabilitation	Maintenance	Replace various structures at Hourglass. Repair Comanche Spillway.	523,022	523,022									
Risk & Resiliency Projects	Master Plan	Risk mitigation projects per the 2020 Risk & Resiliency Assessment.	1,187,590	349,940	161,170	189,230	373,000	114,250					
Ancillary system Improvements	Maintenance	Irrigation ditch system assessments and City maintenance.	500,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Bellvue Intake Maintenance Project Phase 2	Maintenance	Repair damages to Bellvue raw water intake structure.	2,691,400				2,618,400	73,000					
Suburban Ditch (Reservoir Rd) Line Replacement	Maintenance	Replace a 1961 irrigation line due to deterioration.	4,255,230	150,000	1,303,600	1,366,680	1,434,950						
• Boyd Freeman Ditch Improvements	Operations	Repair Inverted syphon on the Boyd Freeman Ditch	1,944,000			918,000	482,000	544,000					
SCADA Master Plan	Operations	Master plan identifying SCADA conditions, assets, needs and prioritization.	375,000	375,000									
Lake Loveland Tower Cover	Maintenance	Replace one fiberglass cover over the Lake Loveland intake tower.	160,000		160,000								
SCADA - High Mountain Reservoirs	Maintenance/Reg.	Upgrade SCADA for High Mountain Reservoirs to meet upgraded regulations.	230,500		80,500	80,000	70,000						
Peterson Reservoir Spillway Abutment Repair	Regulatory	Repair deteriorating abutments as required by State Engineer.	197,126			197,126							
Treatment													
Boyd Process Improvements	Maintenance	Design/construct improvements to the treatment infrastructure at the Boyd Lake plant.	10,346,000	2,776,000	3,260,000	4,310,000							
Boyd Chemical Tank Building	Maintenance	Construct a building over the chemical tanks at Boyd	1,820,000	1,820,000									
Boyd Sedimentation Basin Repair	Maintenance	Repair concrete erosion within the sedimentation basins	1,630,000	815,000	815,000								
Boyd Flocculator Replacement	Maintenance	Replace 24 flocculators in the sedimentation basins	1,780,000	520,000	420,000	420,000	420,000						
Bellvue WTP General Rehab.	Maintenance	General maintenance projects or unanticipated rehab	3,800,000	505,000	425,000	315,000	365,000	365,000	365,000	365,000	365,000	365,000	365,000
Boyd WTP General Rehab.	Maintenance	General maintenance projects or unanticipated rehab	2,800,000	450,000	425,000	420,000	215,000	215,000	215,000	215,000	215,000	215,000	215,000
• Water Treatment Plants Master Plan	Master Plan	Master plan for planning project needs in the future for the City's two water plants.	670,000			670,000							
Boyd Pump Station Intake Valve	Maintenance	Replace a non functional intake valve at the Boyd Lake pump station	415,000					415,000					
Bellvue 20 MGD Treatment Trains-Ph. 2	Maintenance/MP	20 MGD replacement of the old flocculation/sedimentation and 58/64 filters (TB2)	30,400,000									2,400,000	28,000,000
Boyd Micro strainer Building Remodel	Maintenance	Remodel Micro strainer building to meet current building code and expand space	1,152,000								576,000	576,000	

CITY OF GREELEY - WATER & SEWER 10 YEAR CIP 2022-2031

Revised July 9, 2021

- Project new to CIP this year

Transmission & Distribution													
45	Transmission System Rehab.	Maintenance	Replacement and rehabilitation of transmission lines	20,830,000	2,101,000	2,101,000	2,101,000	2,276,000	2,251,000	2,000,000	2,000,000	2,000,000	2,000,000
46	Distribution Pipeline Replacements	Maintenance	Replaces lines based on leak history or increase size for operations or meet City standards	18,972,000	1,895,000	2,400,000	2,324,000	2,134,000	1,719,000	1,700,000	1,700,000	1,700,000	1,700,000
47	Advanced Metering Infrastructure (AMI)	Operations	AMI to facilitate water savings, improve customer communication, enhance Water Budget	8,306,900	3,993,900	3,298,600	1,014,400						
48	Treated Water Reservoir Rehabilitation	Maintenance	Maintenance and minor repairs to the treated water reservoirs	2,285,910	1,739,410	131,500	120,000	50,000	45,000	40,000	40,000	40,000	40,000
49	Water Capital Outlay Replacement	Maintenance	Replacement of rolling stock: trucks, loaders, etc.	9,594,259	1,835,232	714,610	531,891	1,470,121	1,818,680	894,109	829,615	500,000	500,000
50	Utility Billing Replacement - Water	Operations	Replacement of existing City CIS software system	1,500,000	1,500,000								
51	• Distribution System & Water Quality Evaluation	Operations	A study to identify opportunities for optimized plant output, reservoir storage and energy use.	350,000	350,000								
52	Instrumentation & Controls - Water	Operations	Maintains SCADA systems and control panels	1,801,273	165,050	170,002	175,102	180,355	185,765	185,000	185,000	185,000	185,000
53	Meter Replacement	Maintenance	Replace meters that become inaccurate or failing	1,000,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
54	Valve Replacement	Maintenance	Replaces failed valves on system with over 12,000 valves	1,000,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
55	Fire Hydrant Replacement	Maintenance	Replace hydrants that do not meet current city standards	770,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000
56	W&S Facilities Program	Operations	Site will be developed to house W&S operational crews & equipment	14,961,712	325,000	3,000,000		11,571,712	65,000				
57	Transmission Customers Re-Route	Operations	Existing transmission line customers moved to other water providers	2,400,000	400,000			400,000	400,000	400,000	400,000	400,000	
SUB-TOTAL WATER CAPITAL REPLACEMENT				165.2M	24.6M	20.1M	17.1M	25.7M	14.5M	6.7M	6.7M	6.9M	8.9M

WATER RIGHTS ACQUISITION													
	Driver	Description	2022 to 2031	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
58	Future Water Acquisition	Master Plan	Acquisition of 10,000 ac-ft. of agricultural water supplies	84,759,269	7,750,000	7,982,500	8,221,975	8,468,634	8,722,693	8,722,693	8,722,693	8,722,693	8,722,693
59	Integrated Water Resources Plan	Master Plan	Modernize the raw water allocation model in support of an integrated water resources plan.	483,000	483,000								
60	• Life After Lawn	Master Plan	Program to pay water customers to replace bluegrass turf with Water Smart Landscape.	1,592,430	150,000	153,000	156,060	159,181	162,365	162,365	162,365	162,365	162,365
61	Non-tributary groundwater SLB Change Case	Master Plan	Water use court system change for non-tributary groundwater right in the Laramie Fox aquifer	500,000	100,000	200,000	200,000						
62	Water Supply and Storage Change Case	Master Plan	Water use court system change from irrigation to municipal use	300,000	100,000	100,000	100,000						
63	Overland Trail Gravel Pits	Master Plan	Greeley and Tri-Districts partnership for approximately 2,350 ac-ft. storage.	3,140,000	35,000	35,000	1,035,000	2,035,000					
SUB-TOTAL WATER RIGHTS ACQUISITION				90.8M	8.6M	8.5M	9.7M	10.7M	8.9M	8.9M	8.9M	8.9M	8.9M

WATER TOTAL				516.4M	79.1M	43.2M	44.5M	85.7M	46.9M	39.9M	38.1M	33.3M	40.6M
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SEWER CONSTRUCTION													
	Collection	Driver	Description	2022 to 2031	2022	2023	2024	2025	2026	2027	2028	2029	2030
64	Poudre Trunk Phase II	Master Plan	Contractor reimbursement for oversizing when development occurs.	1,844,260	1,844,260								
65	Sanitary Sewer Manholes & Taps	Operations	Manholes added for operation and maintenance benefits	690,000	69,000	69,000	69,000	69,000	69,000	69,000	69,000	69,000	69,000
66	N. Greeley Sewer Phase IIA	Master Plan	Provides service north of the Poudre River and along HWY 85	6,473,090	12,000	198,000	6,239,090	12,000	12,000				
67	• Highland Hills 25th St Sewer Diversion	Master Plan	Divert flows from the existing 8" main in 25th St/Centerplace Dr. and 38th Ave.	636,300		135,000	501,300						
68	• Alles Acres Municipal Sewer	Const. Coord.	Add municipal sewer in the Alles Acres Subdivision where properties are currently on septic.	1,301,000				121,000	1,180,000				
69	• Lift Station 9	Master Plan	Growth driven capital project identified in the 2020 sewer collection master plan.	9,174,000						4,587,000	4,587,000		
Treatment													
70	WTRF Primary Treatment Phase III	Master Plan	Increase total treatment capacity for loads and flows through the WTRF.	75,378,990						9,439,000	104,000	32,865,995	32,969,995
SUB-TOTAL SEWER CONSTRUCTION				95.5M	1.9M	402.0K	6.8M	202.0K	1.3M	14.1M	4.8M	32.9M	33.0M

SEWER CAPITAL REPLACEMENT													
	Collection	Driver	Description	2022 to 2031	2022	2023	2024	2025	2026	2027	2028	2029	2030
71	Trenchless Main and Collector Rehab	Maintenance	In pipe Cure-in-Place repair of sanitary system	4,200,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000
72	Highland Hills 47th Ave Sewer Capacity	Master Plan	Increase capacity in the existing 8" sewer line in 47th Avenue.	1,810,000	340,000	1,470,000							
73	WWC Internal Sewer System Rehabilitation	Maintenance	Repairs of sanitary sewer manholes and main lines by City's Collections department	1,750,000	250,000	180,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000
74	Sewer Collection System Rehabilitation	Maintenance	Lines smaller than 6" identified for replacement and system rehab	270,000	145,000	125,000							
75	Wastewater Flow Monitoring Program	Maintenance	Install flow meters on trunk lines for flow monitoring	455,000	115,000	85,000	85,000	85,000	85,000				
76	• 8th Ave Sewer Storm MH Conflict	Maintenance	Replacement of two clay pipes over 70 years old that currently flow through a storm manhole.	626,000		66,000	140,000	420,000					
77	• Highland Hills Bittersweet Sewer Capacity	Master Plan	Upsize approximately 2,300 feet of sewer main across 16th St through Bittersweet Park.	1,080,000			182,000		898,000				
78	• Highland Hills 35th Ave Sewer Capacity	Master Plan	Upsize approximately 1,800 feet of sewer main in 35th Ave from 16th St to 19th St.	1,044,000			183,000	861,000					
79	• Balsam Ave and L59 Capacity Assessment	Master Plan	The Masterplan identified deficiencies in the Balsam Ave Trunk line and Lift Station 9.	120,000				120,000					
80	• Central 16th St Sewer Replacement	Master Plan	Upsizing sewer main across Greeley Central's baseball field.	220,000					220,000				
81	• North Poudre RR Sewer Phase I	Master Plan	Deficiency driven capital project identified in the 2020 sewer collection master plan.	8,129,000						4,064,500	4,064,500		
Treatment													
82	WTRF Generator Replacement	Regulatory	This project will provide a new backup generator for the Nitrification Phase 2 project.	3,140,000	3,140,000								
83	General Rehabilitation Projects	Maintenance	Small or unanticipated maintenance projects	7,842,000	912,200	856,200	676,200	926,200	746,200	745,000	745,000	745,000	745,000
84	• WTRF Blower Replacement Phase 1B	Master Plan	Replaces one K-Turbo blower with a new Sulzer blower to match other recent upgrades.	1,392,000	231,200	1,160,800							
85	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
86	WTRF Stream Temperature Assessment	Regulatory	Study effluent temperature issues for possible new regulations.	650,000	60,000	60,000	60,000	60,000	110,000	60,000	60,000	60,000	60,000
87	WTRF Primary Treatment-Phase II	Maintenance/MP	Repairs existing three primary clarifiers built in 1960's & 1980's and improves performance	21,221,250		12,725,000	8,416,250	80,000					
88	WTRF Centrate Upgrades	Regulatory	Construction of the Centrate Lift Station and Centrate side stream phosphorus removal.	9,776,000		4,888,000	4,888,000						
Studies & Others													
89	Utility Billing Replacement - Sewer	Operations	Replacement of existing City CIS software system	625,000	625,000								
90	Sewer Capital Outlay Replacement	Maintenance	Replacement of rolling stock: trucks, loaders, etc.	4,803,146	214,648	386,754	554,018	982,650	165,076	500,000	500,000	500,000	500,000
91	Wastewater Treatment Master Plan Update	Master Plan	WTRF Master Plan updates	1,165,000					640,000			525,000	
SUB-TOTAL SEWER CAPITAL REPLACEMENT				71.1M	6.5M	22.5M	15.8M	4.2M	3.5M	6.0M	6.0M	2.5M	2.0M

• Project new to CIP this year

SEWER TOTAL	166.6M	8.5M	22.9M	22.7M	4.4M	4.8M	20.1M	10.8M	35.4M	35.0M	2.0M
WATER AND SEWER COMBINED TOTAL	683.0M	87.6M	66.1M	67.2M	90.1M	51.7M	60.0M	48.9M	68.7M	75.6M	67.1M

WATER TREATMENT PLANT CAPACITY											
POTABLE DEMAND	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
Peak potable demand PROJECTED - MGD (base)	50.5	50.8	51.0	51.5	52.0	52.6	53.1	53.6	54.1	54.7	
Peak potable demand DESIGN - MGD (10% safety)	55.6	55.8	56.1	56.7	57.2	57.8	58.4	59.0	59.6	60.2	
BELLVUE SYSTEM											
Capacity of Bellvue Plant	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	
Capacity of Bellvue Transmission Lines	30.0	30.0	30.0	30.0	32.0	32.0	32.0	32.0	32.0	32.0	
Capacity of Bellvue System	30.0	30.0	30.0	30.0	32.0	32.0	32.0	32.0	32.0	32.0	
BOYD SYSTEM											
Capacity of Boyd Plant	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	
Capacity of Boyd Pipelines	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	
Capacity of Boyd system	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	
Combined System Capacities	68.0	68.0	68.0	68.0	70.0	70.0	70.0	70.0	70.0	70.0	

Water & Sewer Department

MEMORANDUM

TO: Sean Chambers, Director of Water and Sewer

FROM: Kalen Myers, Rates and Budget Analyst

DATE: July 12, 2021

RE: Existing and Planned Water and Sewer Debt

Debt issuance is a critical component of the department's financial planning strategy, providing the up-front investment necessary to continuously fund the replacement and expansion of Greeley's water and sewer systems. The following tables summarize existing and future bond issuances in the water and sewer funds, detailing remaining principal and associated debt service costs. Note: future bond issuances are subject to change as capital planning evolves. Pages two and three contain a list of major capital projects driving future debt issuances.

Water Fund - Existing	Principal Remaining	Years Remaining	Annual Debt Service
2012 Revenue	\$ 16,920,000	10	\$ 1,973,000
2014 Revenue	\$ 3,125,000	3	\$ 1,118,000
2016 Revenue	\$ 21,945,000	7	\$ 4,216,000
2018 Revenue	\$ 38,520,000	18	\$ 3,579,000
Total Existing Water	\$ 80,510,000		\$ 10,886,000

Water Fund – Future	Proposed Issuance	Payment Period	Est. Debt Service
2021 Windy Gap	\$ 60,550,000	30	\$ 3,214,136
2021 Revenue	\$ 63,500,000	20	\$ 4,268,000
2023 Revenue	\$ 69,000,000	20	\$ 4,637,884
2025 Revenue	\$ 41,500,000	20	\$ 3,053,643
2027 Revenue	\$ 52,500,000	20	\$ 3,863,042
2029 Revenue	\$ 48,000,000	20	\$ 3,531,924
2031 Revenue	\$ 38,500,000	20	\$ 2,832,897
Total Future Water	\$ 373,550,000		\$ 25,401,526

Sewer Fund - Existing	Principal Remaining	Years Remaining	Annual Debt Service
2015 Revenue	\$ 3,670,000	7	\$ 529,000
2018 Revenue	\$ 9,890,000	18	\$ 837,000
Total Existing Sewer	\$ 13,560,000		\$ 1,366,000

Sewer Fund – Future	Proposed Issuance	Payment Period	Est. Debt Service
2021 Revenue	\$ 25,000,000	20	\$ 1,680,393
2023 Revenue	\$ 33,500,000	20	\$ 2,251,726
2027 Revenue	\$ 4,000,000	20	\$ 294,327
2029 Revenue	\$ 72,000,000	20	\$ 5,297,886
Total Future Sewer	\$ 134,500,000		\$ 9,524,332

The following tables list the major capital projects driving future debt issuances for the water and sewer funds. Future project costs are estimated.

Projects Driving Future Debt - Water			
	2 Year Project Budget	Proposed Bond Funding	% of Bond Issuance
2021 Issuance: \$63.5M (expended 21-22)			
Future Water Acquisitions	31,576,000	31,500,000	50%
Boyd WTP Process Improvements	9,217,000	7,250,000	11%
Advanced Metering Infrastructure	7,568,000	7,000,000	11%
Transmission System Rehab	5,807,000	5,500,000	9%
Terry Ranch Water Development	28,069,000	4,000,000	6%
Distribution Pipe Replacement	4,013,000	3,750,000	6%
Non-Potable Expansion Projects	5,551,000	4,500,000	7%
	\$ 91,801,000	\$ 63,500,000	
2022 Special Issuance: \$60.5M			
Windy Gap Financing	\$ 60,550,000	\$ 60,550,000	100%
2023 Issuance: \$69M (expended 23-24)			
Future Water Acquisitions	16,204,000	16,100,000	23%
Terry Ranch Water Development	18,258,000	12,900,000	19%
Non-Potable Expansion Projects	10,796,000	10,750,000	16%
Boyd WTP Process Improvements	7,570,000	5,600,000	8%
Bellvue Pipeline Goldhill	5,036,000	5,000,000	7%
Distribution Pipe Replacement	4,724,000	4,700,000	7%
Transmission System Rehab	4,202,000	4,000,000	6%
Waterline F St S and E of 47th Ave	3,661,000	3,625,000	5%
Advanced Metering Infrastructure	4,313,000	3,200,000	5%
83rd Avenue Non-Pot Line	1,727,000	1,725,000	3%
Overland Trails	1,070,000	1,000,000	1%
Groundwater SLB Change Case	400,000	400,000	1%
	\$ 77,961,000	\$ 69,000,000	
2025 Issuance: \$41.5M (expended 25-26)			
Future Water Acquisitions	17,191,000	16,500,000	40%
W&S Facilities Program	11,637,000	11,000,000	27%
Non-Potable Expansion Projects	11,799,000	8,000,000	19%
Transmission System Rehab	4,527,000	4,000,000	10%
Overland Trails	2,035,000	2,000,000	5%
	\$ 47,189,000	\$ 41,500,000	
Continued →			

	2 Year Project Budget	Proposed Bond Funding	% of Bond Issuance
2027 Issuance: \$52.5M (expended 27-28)			
Future Water Acquisitions	21,082,000	20,500,000	39%
Non-Potable Expansion Projects	14,579,000	14,400,000	27%
Terry Ranch Water Development	24,169,000	11,900,000	23%
83rd Avenue Non-Pot Line	7,979,000	5,700,000	11%
	\$ 67,809,000	\$ 52,500,000	
2029 Issuance: \$48M (expended 29-30)			
Future Water Acquisitions	22,584,000	22,500,000	47%
Non-Potable Expansion Projects	15,617,000	13,000,000	27%
Terry Ranch Water Development	25,891,000	12,500,000	26%
	\$ 64,092,000	\$ 48,000,000	
2031 Issuance: \$38.5M (expended 31-32)			
Bellvue 20 MGD Trmt Train-Ph2	38,829,000	11,500,000	30%
Future Water Acquisitions	11,888,000	11,000,000	29%
Non-Potable Expansion Projects	16,729,000	9,500,000	25%
Terry Ranch Water Development	13,629,000	6,500,000	17%
	\$ 81,075,000	\$ 38,500,000	
Grand Total	\$ 490,477,000	\$ 373,550,000	

Projects Driving Future Debt - Sewer			
	2 Year Project Budget	Proposed Bond Funding	% of Bond Issuance
2021 Issuance: \$25M (expended 21-22)			
Nitrification Phase II	22,500,000	22,500,000	90%
WTRF Treatment Phase II	2,660,000	2,500,000	10%
	\$ 25,160,000	\$ 25,000,000	
2023 Issuance: \$33.5M (expended 23-24)			
WTRF Treatment Phase II	21,141,000	20,750,000	62%
Nitrification Phase II	11,487,000	11,250,000	34%
N. Greeley Sewer Phase IIA	6,437,000	1,500,000	4%
	\$ 39,065,000	\$ 33,500,000	
2027 Issuance: \$4M (expended 27-28)			
WTRF Treatment Phase III	\$ 11,338,000	\$ 4,000,000	100%
2029 Issuance: \$72M (expended 29-30)			
WTRF Treatment Phase III	\$ 85,230,000	\$ 72,000,000	100%
Grand Total	\$ 160,793,000	\$ 134,500,000	



Water and Sewer
Capital Program
2022-2026



Fund 422

Water New Construction

Fund 422 Page 1 of 21

Description:

Justification:

Impact on Operating Budget:

[illegible]

[illegible]

Poudre Ponds Redevelopment Pond C

Project Number:	N739	Budget Year:	2022
Division:	CAPITAL IMPROVEMENTS	Council Priority:	
Project Type:	Water Construction Supply	Regions:	
Fund:	Water Construction	Location:	
Project Manager:	Terry Farrill	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

Mining is ongoing in Pond C and is expected to be completed in the next 2 years. Once the mining is complete, the site will be filled, graded and reseeded to enhance the natural resource benefits for the site and be released from the Colorado Division of Reclamation, Mining and Safety mining permit.

[illegible]

[illegible]

Windy Gap Firing

Project Number:	11088	Budget Year:	2022
Division:	Treatment and Supply	Council Priority:	Infrastructure & Growth- Environmental Infrastr'r
Project Type:	Water Construction Supply	Regions:	5- Outside City
Fund:	Water Construction	Location:	Proposed Chimney Hollow Reservoir near Carter Lake
Project Manager:	Jennifer Petrzelka	Budget Unit #:	4221060880070000000000
Project Status:	Funded		

Description:

The project will fund the Northern Water's Windy Gap Firing Project (WGFP) which is expected to deliver a firm annual yield of 3,000 acre-feet, important to Greeley's long-term water supply.

Discussion of Progress:

The final EIS and 404 cert has been received. A federal court case which was holding up construction has been resolved and pre-construction efforts have begun as of June 2021 to secure additional approvals and close on the financial agreement required between Northern and all the participants.

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 Firing project is proposed to improve the yield of water deliveries from the existing Windy Gap project to participating Windy Gap owners.

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.

GL Account	Description	Previous 3 Years	2020 Actual	2021 Revised Budget	2022	2023	2024	2025	2026	Grand Total
Revenue										
	Fund Balance	2,088,999	1,225,200	-	-	-	-	-	-	-
4611	Plant Investment Fees	-	-	720,000	515,000	515,000	-	515,000	-	2,265,000
5902	Bond Proceeds	-	-	68,050,000	-	-	-	-	-	68,050,000
Total Revenue		\$2,088,999	\$1,225,200	\$68,770,000	\$515,000	\$515,000	-	\$515,000	-	\$70,315,000
Expense										
8202	Construction	-	-	60,550,000	-	-	-	-	-	60,550,000
8229	Professional Services	2,088,999	1,225,200	720,000	515,000	515,000	-	515,000	-	5,579,199
Total Expense		\$2,088,999	\$1,225,200	\$61,270,000	\$515,000	\$515,000	-	\$515,000	-	\$66,129,199
Net Total		-	-	\$7,500,000	-	-	-	-	-	\$4,185,801

[illegible]

[illegible]

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N Weld Water System Purchase

Project Number:	N736	Budget Year:	2022
Division:	CAPITAL IMPROVEMENTS	Council Priority:	
Project Type:	Water Construction Transmission & Distribution	Regions:	
Fund:	Water Construction	Location:	
Project Manager:	Adam Prior	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

This project is the purchase of North Weld water pipeline infrastructure located in the Budweiser annex area. The existing IGA requires that Greeley make North Weld whole for all transitions of infrastructure to Greeley.

Justification:

Council priority to maintain critical infrastructure. This project will allow expansion of the water system to area North of Poudre River.

[illegible]

[illegible]

Water Taps

Fund 422 Page 18 of 21

Project Number:	11090	Budget Year:	2022
Division:	Transmission/Distribution	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Construction Transmission & Distribution	Regions:	0 - All Wards
Fund:	Water Construction	Location:	Citywide
Project Manager:	Dan Moore	Budget Unit #:	4221060880030000000000
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 and pipe related materials used for tap construction are purchased from the Inventory account. All applicable costs are included in this account to complete the tap (asphalt, flow fill, concrete, etc.)

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 and pipe related materials used for tap construction are purchased from the Inventory Budget account. All applicable costs are included in this account to complete the tap (asphalt, flow fill, concrete, etc.). Cost recovery is only applicable for taps constructed for customers.

Revenue Detail:

New customers = new water revenue

GL Account	Description	Previous 3 Years	2020 Actual	2021 Revised Budget	2022	2023	2024	2025	2026	Grand Total
Revenue										
	Fund Balance	-	-	2,073,656	-	-	-	-	-	-
4461	New Meter Sales	232,450	33,716	50,000	-	-	-	-	-	316,166
4462	Large Meter Sales	192,334	47,898	50,000	-	-	-	-	-	290,232
4464	Labor & Materials	51,993	17,801	10,000	-	-	-	-	-	79,794
4611	Plant Investment Fees	13,041,596	1,903,192	-2,208,656	75,000	75,000	75,000	75,000	75,000	13,111,132
4786	Cash In Lieu/Warranty Bond	8,100	1,575	-	-	-	-	-	-	9,675
4789	Expense Reimbursement	-	405	-	-	-	-	-	-	405
5632	Rents From Equipment	436,070	174,070	100,000	-	-	-	-	-	710,140
Total Revenue		\$13,962,543	\$2,178,657	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$14,517,544
Expense										
8202	Construction	-	-	10,000	10,000	10,000	10,000	10,000	10,000	60,000
8216	Miscellaneous	-	-	3,500	3,500	3,500	3,500	3,500	3,500	21,000
8224	Operating Supplies	63,888	3,649	61,500	61,500	61,500	61,500	61,500	61,500	436,537
8232	Project Management	7,895	3,850	-	-	-	-	-	-	11,746
Total Expense		\$71,784	\$7,499	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$529,283
Net Total		\$13,890,759	\$2,171,158	-	-	-	-	-	-	\$13,988,261

[illegible]



Fund 423
Water Capital
Replacement

[illegible]

[illegible]

[illegible]

SCADA Upgrades Reservoir 23 and Non-Potable

Project Number:	11109	Budget Year:	2022
Division:	Treatment and Supply	Council Priority:	
Project Type:	Water Replacement Supply	Regions:	3- 10 St South/23 Ave West
Fund:	Water Capital Replacement	Location:	23rd Ave Reservoir
Project Manager:	Cadee Oakleaf	Budget Unit #:	4231060890120000000000
Project Status:	Funded		

Description:

This project upgrades the SCADA system at Reservoir 23 and the Non-Potable systems. All of this equipment is outdated or not supported by manufacturers and identified as a system vulnerability in the Risk & Resiliency Assessment completed in March of 2020. Reservoir 23 will get a Stratus Server and new Thin Clients. Telemetry, PLC controls, and monitoring equipment will be installed. The project includes all of the installation and programming needed to complete the Stratus Server upgrades.

Discussion of Progress:

Projects scheduled for 2021 are all in progress and include upgrades to the non-potable server, system monitoring, and PLC Control.

Justification:

The Water and Sewer department is upgrading SCADA systems across many of the facilities. This provides for additional security and resiliency of critical infrastructure. Additionally, uniformity in equipment and systems is being implemented during all upgrades that aids in the operation and maintenance of the systems.

[illegible]

SCADA Upgrades High Mountain Reservoirs

Project Number:	N621	Budget Year:	2022
Division:	Treatment and Supply	Council Priority:	
Project Type:	Water Replacement Supply	Regions:	5- Outside City
Fund:	Water Capital Replacement	Location:	High Mountain Reservoirs
Project Manager:	Terry Farrill	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

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

Justification:

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

[illegible]

Lake Loveland Tower Cover

Project Number:	N669	Budget Year:	2022
Division:	Treatment and Supply	Council Priority:	
Project Type:	Water Replacement Supply	Regions:	5- Outside City
Fund:	Water Capital Replacement	Location:	Lake Loveland
Project Manager:	Peter Champion	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

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

Justification:

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

[illegible]

[illegible]

Ancillary System Improvements

Project Number:	11102	Budget Year:	2022
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 Manager:	Terry Farrill	Budget Unit #:	4231060890070000000000
Project Status:	Funded		

Description:

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

Discussion of Progress:

Ongoing annual program

Justification:

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

GL Account	Description	Previous 3 Years	2020 Actual	2021 Revised Budget	2022	2023	2024	2025	2026	Grand Total
Revenue										
	Fund Balance	644,516	-	-	-	-	-	-	-	635,856
4787	Other	-	-	50,000	50,000	50,000	50,000	50,000	50,000	300,000
Total Revenue		\$644,516	-	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$935,856
Expense										
8202	Construction	637,001	-8,660	50,000	50,000	50,000	50,000	50,000	50,000	928,341
8216	Miscellaneous	361	-	-	-	-	-	-	-	361
8224	Operating Supplies	490	-	-	-	-	-	-	-	490
8226	Permits, Fees, Etc	216	-	-	-	-	-	-	-	216
8229	Professional Services	1,055	-	-	-	-	-	-	-	1,055
8232	Project Management	5,393	-	-	-	-	-	-	-	5,393
Total Expense		\$644,516	(\$8,660)	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$935,856
Net Total		-	\$8,660	-	-	-	-	-	-	-

GL Account	Description	Previous 3 Years	2020 Actual	2021 Revised Budget	2022	2023	2024	2025	2026	Grand Total
Revenue										
	Fund Balance	338,915	3,909	-	-	-	-	-	-	-
4787	Other	-	-	-	-	-	-	-	5,297,298	5,297,298
5902	Bond Proceeds	-	-	6,000,000	-	-	-	-	-	6,000,000
Total Revenue		\$338,915	\$3,909	\$6,000,000	-	-	-	-	\$5,297,298	\$11,297,298
Expense										
8202	Construction	122,647	-	-	-	-	-	-	4,746,262	4,868,909
8204	Contingency	-	-	-	-	-	-	-	474,626	474,626
8216	Miscellaneous	26	-	-	-	-	-	-	580	606
8224	Operating Supplies	65	-	-	-	-	-	-	-	65
8226	Permits, Fees, Etc	-	-	-	-	-	-	-	580	580
8229	Professional Services	205,812	2,154	250,622	-	-	-	-	34,730	493,318
8232	Project Management	10,365	1,755	15,000	-	-	-	-	40,520	67,640
Total Expense		\$338,915	\$3,909	\$265,622	-	-	-	-	\$5,297,298	\$5,905,744
Net Total		-	-	\$5,734,378	-	-	-	-	-	\$5,391,554

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		Previous 3 Years	2020 Actual	2021 Revised Budget							
GL Account	Description				2022	2023	2024	2025	2026	Grand Total	
Revenue											
4787	Other	-	-	94,000	523,022	-	-	-	-	617,022	
Total Revenue		-	-	\$94,000	\$523,022	-	-	-	-	\$617,022	
Expense											
8202	Construction	-	-	-	343,022	-	-	-	-	343,022	
8204	Contingency	-	-	-	125,000	-	-	-	-	125,000	
8216	Miscellaneous	-	-	1,000	-	-	-	-	-	1,000	
8224	Operating Supplies	-	-	8,000	-	-	-	-	-	8,000	
8226	Permits, Fees, Etc	-	-	-	5,000	-	-	-	-	5,000	
8229	Professional Services	-	-	65,000	35,000	-	-	-	-	100,000	
8232	Project Management	-	-	20,000	15,000	-	-	-	-	35,000	
Total Expense		-	-	\$94,000	\$523,022	-	-	-	-	\$617,022	
Net Total		-	-	-	-	-	-	-	-		

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Utility Billing Replacement-Water

Project Number:	11094	Budget Year:	2022
Division:	Treatment and Supply	Council Priority:	
Project Type:	Water Replacement Transmission & Distribution	Regions:	0 - All Wards
Fund:	Water Capital Replacement	Location:	Citywide
Project Manager:	Erik Dial	Budget Unit #:	4231060870010000000000
Project Status:	Funded		

Description:

Greeley had shortlisted 3 vendor solutions in early 2020. The vendors provided their pricing with their solutions and the budget numbers are based off of their proposals. Because the project was postponed, some inflation is assumed. The difficulties in getting the Oracle project to the finish line delayed the start of this project. There are a number of staff that were heavily involved with the Oracle implementation who will be involved with this one.

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.

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Transmission system Rehabilitation

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Project Number:	11101	Budget Year:	2022	Project Status:	Funded
Division:	Transmission/Distribution	Council Priority:	Infrastructure & Growth- Environmental Infrast'r		
Project Type:	Water Replacement Transmission & Distribution	Regions:	5- Outside City		
Fund:	Water Capital Replacement	Location:	Citywide and Along the Major Transmission Line from Bellvue and Boyd Filter Plants		
Project Manager:	Dan Moore	Budget Unit #:	4231060890060000000000		

Description:

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

Discussion of Progress:

In 2020, 800 linear feet of 20" pipe was rehabilitated with a slip liner at 35th Ave and 22nd St. The original amount of rehab work was significantly reduced after further investigation of leak history. As a result, a lot of cost was avoided by only rehabilitating the 800 feet of pipe. This work also coincided with modifications at Lift Station 13 to reduce impacts to traffic. This year, design is being conducted to efficiently repair a failing ball valve at 47th Ave and 20th St. This ball valve is a critical piece of the water system as it allows water to flow from Zone 3 to fill the 23rd Ave Reservoirs. The ball valve has been procured and construction is planned for this Fall when the Boyd Water Treatment plant is offline. Any remaining funds will be used for the necessary repair of the Kodak 16 inch waterline that has seen numerous leaks from corrosive soils off Highway 257, southeast of Windsor.

Justification:

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

GL Account	Description	Previous 3 Years	2020 Actual	2021 Revised Budget	2022	2023	2024	2025	2026	Grand Total
Revenue	Fund Balance	4,677,676	2,329,008	1,155,545	-	-	-	-	-	8,162,229
4321	State Grants	438,733	-	-	-	-	-	-	-	438,733
4322	State Pass Through	86,252	-	-	-	-	-	-	-	86,252
4787	Other	-	-	50,000	-	-	1,255,320	2,276,000	2,251,000	5,832,320
4789	Expense Reimbursement	-	298,273	-	-	-	-	-	-	298,273
5902	Bond Proceeds	-	-	2,500,000	2,101,000	2,101,000	845,680	-	-	7,547,680
Total Revenue		\$5,202,661	\$2,627,281	\$3,705,545	\$2,101,000	\$2,101,000	\$2,101,000	\$2,276,000	\$2,251,000	\$22,365,487
Expense										
8202	Construction	4,526,894	2,335,037	3,338,194	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	19,200,125
8204	Contingency	47	40,000	225,000	180,000	180,000	180,000	180,000	180,000	1,165,047
8208	Furniture, Fixtures & Equipment	-	4,746	-	-	-	-	-	-	4,746
8212	Land/Building Cost/Demolition	-	-	-	10,000	10,000	10,000	10,000	10,000	50,000
8216	Miscellaneous	124	-	1,000	1,000	1,000	1,000	1,000	1,000	6,124
8224	Operating Supplies	66,492	47,158	50,000	50,000	50,000	50,000	50,000	50,000	413,650
8226	Permits, Fees, Etc	4,030	-	1,000	25,000	25,000	25,000	25,000	25,000	130,030
8229	Professional Services	451,148	161,200	85,351	25,000	25,000	25,000	200,000	175,000	1,147,698
8232	Project Management	152,926	39,140	5,000	10,000	10,000	10,000	10,000	10,000	247,066
8233	Project Management - Benefits	1,000	-	-	-	-	-	-	-	1,000
Total Expense		\$5,202,661	\$2,627,281	\$3,705,545	\$2,101,000	\$2,101,000	\$2,101,000	\$2,276,000	\$2,251,000	\$22,365,487

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CDOT I-25 Transmission Line Relocation

Project Number:	11224	Budget Year:	2022
Division:	Treatment and Supply	Council Priority:	
Project Type:	Water Replacement Transmission & Distribution	Regions:	5- Outside City
Fund:	Water Capital Replacement	Location:	I-25 and Prospect Road
Project Manager:	Dan Moore	Budget Unit #:	4231060890060000000000
Project Status:	Funded		

Description:

This project will relocate Greeley's existing transmission pipelines at the southwest corner of I-25 and Prospect Avenue in Fort Collins to avoid conflicts with CDOT's new intersection improvement plans. Greeley will manage the construction project and CDOT will provide reimbursement through a Standard Utility Agreement (SUA). There will be approximately 4,400 feet of 30" steel pipeline installed which will include a bored crossing of I-25. This work was completed in December 2020. A second phase will include design and construction of an additional relocation of 2,000 feet of 30" pipe is scheduled for completion in June 2021.

Discussion of Progress:

Planning and Design. Pipeline design for Greeley pipelines has been completed. All permitting is complete and construction began the first week of July 2020. Greeley's CMAR contractor, Connell Resources Inc. is performing this pipeline relocation. Work was completed for the first phase in December 2020 with design and construction for the second phase to be complete in June of 2021.

Justification:

The City's transmission lines from the Bellvue Water Treatment Plant are in the path of CDOT's construction activity at I-25 and Prospect Road. CDOT will fully reimburse Greeley for the transmission line relocation costs.

GL Account	Description	Previous 3 Years	2020 Actual	2021 Revised Budget	2022	2023	2024	2025	2026	Grand Total
Revenue										
	Fund Balance	728	2,556,921	-	-	-	-	-	-	1,855,640
4321	State Grants	-	2,052,088	3,041,999	-	-	-	-	-	5,094,087
	Total Revenue	\$728	\$4,609,009	\$3,041,999	-	-	-	-	-	\$6,949,728
Expense										
8202	Construction	-	4,593,413	1,906,588	-	-	-	-	-	6,500,001
8204	Contingency	-	429	142,403	-	-	-	-	-	142,832
8229	Professional Services	-	-	284,000	-	-	-	-	-	284,000
8232	Project Management	728	15,167	7,000	-	-	-	-	-	22,895
	Total Expense	\$728	\$4,609,009	\$2,339,991	-	-	-	-	-	\$6,949,728
	Net Total	-	-	\$702,008	-	-	-	-	-	-

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Boyd Water Treatment Plant - General Rehabilitation

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Project Number:	11106	Budget Year:	2022
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:	Boyd Filter Plant
Project Manager:	Peter Champion	Budget Unit #:	4231060890110000000000
Project Status:	Funded		

Description:

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

Discussion of Progress:

Ongoing planning, design, procurement, and construction. Replacing all remaining valves on each filter. Raising of the filter water combined effluent vault lid on the east side of the filter building. Rehab of backwash pump and replacement of worn out valves associated with the pump. Replacement of filter #9 mag-meters filter effluent.

Justification:

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

GL Account	Description	Previous 3 Years	2020 Actual	2021 Revised Budget	2022	2023	2024	2025	2026	Grand Total
Revenue										
	Fund Balance	1,206,316	307,881	134,274	-	-	-	-	-	1,648,470
4787	Other	-	-	480,000	450,000	425,000	420,000	215,000	215,000	2,205,000
5761	Rebates	12,148	-	-	-	-	-	-	-	12,148
5801	Sales Of Fixed Assets	-2,866	-	-	-	-	-	-	-	-2,866
Total Revenue		\$1,215,598	\$307,881	\$614,274	\$450,000	\$425,000	\$420,000	\$215,000	\$215,000	\$3,862,752
Expense										
8202	Construction	811,746	244,965	376,377	250,000	350,000	345,000	100,000	100,000	2,578,088
8208	Furniture, Fixtures & Equipment	20,582	9,252	30,000	25,000	25,000	25,000	40,000	40,000	214,834
8212	Land/Building Cost/Demolition	904	-	-	-	-	-	-	-	904
8216	Miscellaneous	5,160	-	-	-	-	-	-	-	5,160
8224	Operating Supplies	50,585	34,469	35,000	-	-	-	-	-	120,053
8226	Permits, Fees, Etc	850	-	-	-	-	-	-	-	850
8229	Professional Services	95,652	10,441	7,897	-	-	-	-	-	113,991
8232	Project Management	46,944	8,753	15,000	25,000	25,000	25,000	25,000	25,000	195,697
8244	Capital Equipment >\$5,000	183,175	-	150,000	150,000	25,000	25,000	50,000	50,000	633,175
Total Expense		\$1,215,598	\$307,881	\$614,274	\$450,000	\$425,000	\$420,000	\$215,000	\$215,000	\$3,862,752

[illegible]

Boyd Flocculator Replacement

Project Number:	A643	Budget Year:	2022
Division:	Water Capital Improvement	Council Priority:	
Project Type:	Water Replacement Treatment	Regions:	5- Outside City
Fund:	Water Capital Replacement	Location:	Boyd Water Treatment Plant
Project Manager:	Peter Champion	Budget Unit #:	4231060000000000000000
Project Status:	Funded		

Description:

Remove and replace 24 flocculators 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 flocculators is failing and needs to be replaced. The flocculators are past the end of their design life and need to be replaced. Failure of this equipment puts water treatment in jeopardy of violation.

[illegible]



Fund 424
Water Rights
Acquisition

Non-tributary Groundwater SLB Change Case

Project Number:	11115	Budget Year:	2022
Division:	Water Capital Improvement	Council Priority:	
Project Type:	Water Rights Acquisition	Regions:	5- Outside City
Fund:	Water Rights Acquisition	Location:	Citywide
Project Manager:	Jennifer Petrzelka	Budget Unit #:	4241060855000000000000
Project Status:	Funded		

Description:

File water court application, complete engineering and obtain decree for the change of use of non-tributary groundwater rights in the Laramie Fox aquifer associated with State Land Board lands near Terry Ranch.

Justification:

These groundwater rights can only be used for municipal uses including augmentation and replacing return flows if they have been changed in court.

[illegible]

GL Account	Description	Previous 3 Years	2020 Actual	2021 Revised Budget	2022	2023	2024	2025	2026	Grand Total
Revenue										
	Fund Balance	-	-	215,500	-	-	-	-	-	215,500
5902	Bond Proceeds	-	-	-	483,000	-	-	-	-	483,000
Total Revenue		-	-	\$215,500	\$483,000	-	-	-	-	\$698,500
Expense										
8216	Miscellaneous	-	-	500	3,000	-	-	-	-	3,500
8224	Operating Supplies	-	-	15,000	-	-	-	-	-	15,000
8229	Professional Services	-	-	200,000	480,000	-	-	-	-	680,000
Total Expense		-	-	\$215,500	\$483,000	-	-	-	-	\$698,500
Net Total		-	-	-	-	-	-	-	-	

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Fund 412

Sewer New Construction

[illegible]

[illegible]

Ashcroft Draw Basin Lift Station

Project Number:	11069	Budget Year:	2022
Division:	Sewer Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrastr'r
Project Type:	Sewer Construction Collection	Regions:	3- 10 St South/23 Ave West
Fund:	Sewer Construction	Location:	65th Ave. & 37th St.
Project Manager:	Adam Prior	Budget Unit #:	4121060820010000000000
Project Status:	Funded		

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 Subdivision. This project is planned to serve several planned and future developments once completed.

Discussion of Progress:

Completion of design, bidding, and construction of the Ashcroft Lift Station has been delayed due to easement and land acquisitions that will be required to construct the proposed improvements. Additionally the project was placed on hold for approximately 2 months while the City revisited alternative lift station site locations and pipe alignments that would avoid easement acquisition in the event that the City chose to avoid potentially contentious land acquisition. From this evaluation it was determined that the originally planned acquisitions was currently the most cost effective route pending negotiations of the land acquisition. Engagement with the property owner during the preliminary design required modifications to much of the alignment and easements through the subject property. The alignments have generally been agreed upon and REM has submitted the notice of intent letters in January to start the valuation and acquisition process.

The consultant is currently working to finalize the 90 percent design package for bidding purposes so that the City is prepared to start construction when all entitlements including land acquisition have been addressed. It is planned to enter into contract with Whiting Turner, the CMAR Contractor in May of this year to start construction pending land acquisition negotiations.

The Site and Design Application will be submitted to CDPHE for review and approval in February.

W&S Staff is currently working on finalizing an IGA with Evans that will allow for emergency overflow from the Lift Station to Evans. This IGA will require City Council Approval.

W&S staff is planning on recovering costs for the proposed improvements and will be creating an Improvement District over the service area which will require Council Approval.

W&S Staff is currently negotiating three ditch crossing agreements along the project alignment.

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:

Once Construction of this lift station is complete it will increase the total number of lift stations requiring routine inspections and operational oversight from 10 to 11 lift stations.



Fund 413
Sewer Capital
Replacement

35th Avenue and F Street Sewer Capacity

Project Number:	11083	Budget Year:	2022
Division:	Wastewater Collection	Council Priority:	
Project Type:	Sewer Replacement Collection	Regions:	4 - 10 St North/23 Ave West
Fund:	Sewer Capital Replacement	Location:	35th Avenue and F Street
Project Manager:	Adam Prior	Budget Unit #:	4131060830010000000000
Project Status:	Funded		

Description:

The 2008 Collections Master Plan and the updated 2021 Master Plan has identified this line for having future capacity concerns. This project would increase the pipeline size of approximately 1/2 mile of existing sanitary sewer main to address existing sewer capacities in the area. This project is being completed in coordination with Public Works in the widening of the 35th Ave. roadway.

Discussion of Progress:

The design work was completed in 2020 and bidding was completed in December of 2020. The project is currently under construction with the Public Works road widening project and is anticipated to be completed in the fall of 2021.

Justification:

The City of Greeley sewer model identified that in the future the existing sewer line would need to be replaced. It is approaching capacity and will likely need replacement as growth continues to occur in this basin. As there is a project being completed by Public Works, W&S staff and the Water Board decided to up-size this sewer line due to the reduced cost of the project, reduced impacts to the community, and to prepared for future growth.

[illegible]

The Sanitary Sewer Masterplan identified deficiencies in the Balsam Avenue Trunkline and LS9 during the existing conditions wet weather flow. The masterplan identified abandonment of this lift station, with future construction of the East Greeley Lift Station, however it is not anticipated that this lift station could be constructed for some time. This project will provide a more in depth focus on existing flows within the Balsam Avenue Trunkline and assessment of dry and wet weather flows based on additional flow monitoring that is anticipated to be collected in this basin. It is anticipated that an additional permanent flow monitor is going to be placed in this basin (work completed under flow monitoring budget) and that an additional 2 years of data will be collected for this basin.

[illegible]

Central 16th Sewer Replacement

Project Number:	N742	Budget Year:	2022
Division:	CAPITAL IMPROVEMENTS	Council Priority:	
Project Type:	Sewer Replacement Collection	Regions:	
Fund:	Sewer Capital Replacement	Location:	16th Street and 16th Ave to 13th Street and 16th Ave
Project Manager:	Adam Prior	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

The Sanitary Sewer Masterplan has identified that with minor growth in this basin that additional capacity will be required to convey wastewater flows in an existing pipe near capacity. The project will provide additional capacity by upsizing approximately 1,800 feet of 8" sewer main from 13th Street to 16th Street in 16th Ave. Requires Upsizing of sewer main across Greeley Central baseball field. Construction sequencing will have to consider impacts to the field and impacts to the school during construction. Project will require coordination with Northern Colorado Medical Center as the project would cross 16th Street which is a major access to the hospital. Sewer upsizing will also cross 13th Street.

Justification:

Identified in sewer collection master plan.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Capital Outlay Replacement - Sewer

Project Number:	11076	Budget Year:	2022
Division:	Sewer General Management	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Studies	Regions:	0 - All Wards
Fund:	Sewer Capital Replacement	Location:	Citywide
Project Manager:	Paul Tucker	Budget Unit #:	4131060105000000000000
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.

GL Account	Description	Previous 3 Years	2020 Actual	2021 Revised Budget	2022	2023	2024	2025	2026	Grand Total
Revenue										
	Fund Balance	649,760	-	-	-	-	-	-	-	649,759
4787	Other	-	-	570,000	214,648	386,754	554,019	982,650	165,076	2,873,147
5801	Sales Of Fixed Assets	-3,520	-	-	-	-	-	-	-	-3,520
Total Revenue		\$646,240	-	\$570,000	\$214,648	\$386,754	\$554,019	\$982,650	\$165,076	\$3,519,386
Expense										
8142	Construction and Maintenance	566,848	-	570,000	-	-	457,320	868,850	-	2,463,018
8144	Transportation/Vehicles	-	-	-	147,048	336,754	46,698	63,800	115,076	709,376
8149	Other	59,159	-	-	67,600	50,000	50,000	50,000	50,000	326,759
8232	Project Management	20,233	-	-	-	-	-	-	-	20,233
Total Expense		\$646,240	-	\$570,000	\$214,648	\$386,754	\$554,018	\$982,650	\$165,076	\$3,519,386
Net Total		-	-	-	-	-	\$1	-	-	-

[illegible]

WTRF Generator Replacement

Project Number:	A593	Budget Year:	2022
Division:	Wastewater Treatment	Council Priority:	
Project Type:	Sewer Replacement Treatment	Regions:	1- 16 St North/35 Ave East
Fund:	Sewer Capital Replacement	Location:	Wastewater Treatment and Reclamation Facility
Project Manager:	Cadee Oakleaf	Budget Unit #:	4131060000000000000000
Project Status:	Funded		

Description:

This project will provide a new backup generator for the Nitrification Phase 2 project. One of the existing generators will be moved to South Plant and the South Plant generator will be taken out of service. Having backup power supply is required by the State.

Discussion of Progress:

This project is scheduled to begin in 2022.

Justification:

Backup power generation is a requirement of the State to keep the WTRF in operation during any power outages. The WTRF must be able to run during any situation. A new, larger backup generator will be installed on North Plant. One of the existing generators will be moved to South Plant to replace the generator there. Currently, it is not recommended to operate the South Plant generator due to its location in an electrically classified room.

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[illegible]

[illegible]

[illegible]

[illegible]



Fund 411

Sewer Operating

Sewer Administration

GL Account *	Notes	2022
7111- Regular Employees		145,692
7211- Disability		845
7212- Health		14,508
7215- Life		424
7213- Dental		497
7216- Workers Compensation		87
7221- General Employees		5,828
7227- 401K		2,798
7231- FICA		9,033
7234- Medicare		2,113
7314- Office Supplies & Materials		100
7411- Postage		100
7432- Publications, Subscriptions, and Dues		500
7445- Telephone		3,000
7478- Registration	AWWA compliance refresher courses	1,000
7435- Other Purchased Services	Professional services related to rate model development & Financial External Audit (annual, currently Anton Collins Mitchell LLP)	17,005
7655- Bank/Investment Charges	Charges from utility billing customer online payments	100,000
		303,530

Sewer Engineering

GL Account *	Notes	2022
7111- Regular Employees		267,284
7211- Disability		1,550
7212- Health		31,436
7215- Life		784
7213- Dental		1,074
7216- Workers Compensation		1,204
7221- General Employees		10,691
7227- 401K		5,131
7231- FICA		16,572
7234- Medicare		3,876
7314- Office Supplies & Materials		100
7325- Clothing And Uniforms		200
7315- Small Items of Equipment \$100 - \$5,000		500
7418- Advertising		200
7432- Publications, Subscriptions, and Dues	Memberships for NFRWQPA, WEF UPP and American Society of Civil Engineers	19,900
7445- Telephone		1,750
7478- Registration		1,000
7435- Other Purchased Services	Licensing costs for AutoCAD and InfoSWMM	6,000
7472- Hotel and Motel		1,050
7473- Meals		500
7474- Air Travel		500
7475- Mileage		100
		371,402

Industrial Pretreatment

GL Account *	Notes	2022
7111- Regular Employees		238,909
7211- Disability		1,386
7212- Health		36,273
7215- Life		709
7213- Dental		1,239
7216- Workers Compensation		2,270
7221- General Employees		9,556
7227- 401K		4,587
7231- FICA		14,813
7234- Medicare		3,464
7314- Office Supplies & Materials	Supplies such as pens, paper file folders, office desk items, paper. 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 filters.	1,200
7321- Medical/Chemical	pH buffer solutions, Hach test reagents. Misc. chemical cleaners and acids; supplies for cleaning the pretreatment lab. Chemical disposal	1,325
7325- Clothing And Uniforms	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 sampling. Under budgeted in 2018.	1,000
7333- Machinery, Vehicle & Equipment Parts	Various equipment parts for sampling and lab workstation in the industrial pretreatment vehicle.	1,330
7344- General Maintenance Supplies	Small tools, equipment and supplies for field repairs and sampling set-up.	400
7315- Small Items of Equipment \$100 - \$5,000	Misc. items for the pretreatment program.	1,800
7411- Postage	Classification mailings; Best Management Practices program mailings; misc. notices and orders.	100
7418- Advertising	Significant noncompliant public notices and industrial user permit public notices. Annual fee for Public Service Announcements (PSA's) on Pharmaceuticals, and Personal Care Products (PPCP's).	3,000
7424- In-House Copying		400

Industrial Pretreatment

GL Account *	Notes	2022
7426- Outside Printing	Duplication of manuals, information pamphlets, printing of Best Management Practices participant window stickers.	400
7432- Publications, Subscriptions, and Dues	Pretreatment reference materials	500
7445- Telephone	Cell phone charges (including upgrade costs) for the pretreatment staff.	3,100
7463- Other Repair Maintenance Services	Outside repair of industrial pretreatment sampling equipment or instrumentation.	500
7478- Registration	Annual Colorado Industrial Pretreatment Coordinators Association (CIPCA) Fall conference; annual Rocky Mtn. Water Envir. Assoc. (RMWEA) PWO operator's certification training; annual NACWA pretreatment workshop.	3,500
7435- Other Purchased Services	Service contract for Linko industrial pretreatment program software. Service contract for Portalogic software (waste hauler's dump station controller). Permit required compliance monitoring of Significant Industrial users (SIU's); CDPS permit required monitoring of WPCF influent and effluent, and local limits monitoring. Potential TENORM and PFAS testing	20,000
7811- Grants-Outside Agencies	Funds distributed by the City to the Poudre Learning Center to assist them with the procurement of needed water testing supplies for the students.	1,000
7462- Equipment Maintenance Charges		678
7472- Hotel and Motel	Budget is for two employees to attend the National Association of Clean Water Agencies (NACWA) Pretreatment & Pollution Prevention Workshop, or EPA Regional Pretreatment Workshop.	3,000
7473- Meals	Per Diem while attending workshop.	600
7474- Air Travel	Annual NACWA national (or EPA Regional) pretreatment workshop for three employees. Roundtrip airfare.	1,400
7475- Mileage	Anticipated costs to attend the Colorado Industrial Pretreatment Coordinator's Association (CIPCA) meetings.	300
7477- Other Travel	Fees for airport parking, shuttles, taxis; rental cars.	400
7328- Fleet Fuel	Budgeted by Fleet	243
7633- Equipment Rentals	Confined space gas detector lease; deionized water filter system lease for pretreatment clean room lab.	2,500
		361,882

Laboratory

GL Account *	Notes	2022
7111- Regular Employees		232,482
7211- Disability		1,348
7212- Health		36,273
7215- Life		691
7213- Dental		1,239
7216- Workers Compensation		2,209
7221- General Employees		9,299
7227- 401K		4,463
7231- FICA		14,414
7234- Medicare		3,371
7314- Office Supplies & Materials	Pens, pencils, folders, binders, labels, clipboards, etc. for lab. Batteries, calendars & refills, items under \$100.	500
7321- Medical/Chemical	Laboratory chemicals, 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 reagents and equipment.	21,000
7325- Clothing And Uniforms	Waders for river work, work gloves, clean metals sampling suits, Lab coats	1,250
7344- General Maintenance Supplies	Cleaning and routine maintenance supplies for the lab.	547
7315- Small Items of Equipment \$100 - \$5,000	Laboratory and field instruments, LBOD probe, lab chair, river monitoring equipment, digital buret, research pipettes, E.coli , laboratory probes, sample refrigerator, BOD incubator, analytical balance..	12,000
7411- Postage	Postage for lab mailings.	75
7432- Publications, Subscriptions, and Dues	Standard methods, lab manuals, professional publications & newsletters,	500
7461- Machine, Vehicle, Equipment	Analytical balance calibrations, repair and maintenance of laboratory equipment, sample refrigerator, incubators, ovens, autoclaves, centrifuges.	700
7478- Registration	Registration to attend the Rocky Mtn. Water Environment Association (RMWEA) conference and RMWEA bio solids conference . Registration for lab personnel to attend the RMWQAA conference. Lab personnel to attend analytical and regulatory classes through the RMWQAA and RMWEA Lab Practices program.	1,700

Laboratory

GL Account *	Notes	2022
7435- Other Purchased Services	Expense for professional data processing instructions and services via an IGA with the State of Colorado Division of Water Resources satellite-linked river gauge monitoring system. Biomonitoring (extra funds must always be available if sample failures 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 pollutants (HAP's), digester gas analyses. QA/QC splits w/contract labs. Bio solids metals and nutrient analyses plus Bio solids dioxins scan & radioactivity tests. Deionized water testing.	59,400
7472- Hotel and Motel	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.	750
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.	500
7475- Mileage	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 classes through the RMWQAA and RMWEA Lab Practices program.	650
7477- Other Travel	Parking fees when judging state science fair at CSU. Taxis, Car rental etc.	30
7633- Equipment Rentals	Deionized water purification system for plant's main laboratory. Rental payments were made in 2019 but were not put in the correct account. .	1,500
		406,891

WTRF Maintenance

GL Account *	Notes	2022
7111- Regular Employees		346,654
7121- Overtime-Regular	Budget is to help offset employee comp time accruals and upcoming maintenance mechanic retirements. Anticipated increase in standby/OT due to increased distribution of responsibilities	8,000
7211- Disability		2,009
7212- Health		60,455
7215- Life		1,035
7213- Dental		2,065
7216- Workers Compensation		3,293
7221- General Employees		13,865
7227- 401K		6,657
7231- FICA		21,492
7234- Medicare		5,028
7314- Office Supplies & Materials	Office supplies for maintenance staff.	6,300
7321- Medical/Chemical	Pendulum concentrate ground kill. Roundup weed kill 5 gal. Insecticide. Odor chemical Struvite (ammonium magnesium phosphate) control chemical. Cleaning gas (HCl) for aeration basin diffusers(includes hazardous shipping). Lawn fertilizer. Media for biogas scrubber every year. Glycol for digester heat loop.	65,000
7325- Clothing And Uniforms	Rubber boots/rain gear. Work gloves/25 pairs;	2,470
7333- Machinery, Vehicle & Equipment Parts		5,000
7338- Water, Sewer, Irrigation Line Repair Parts	Sprinkler heads 50 ea. Pipe; miscellaneous pipe. Cleanouts for project lines.	8,000
7344- General Maintenance Supplies		15,000

WTRF Maintenance

GL Account *	Notes	2022
7346- Street & Traffic Repair and Maintenance Supplies	Digester recirc pumps - 6 units. Return activated sludge pumps 5 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 (annually), 5 mixers, 2 blowers, 3 transfer pumps, golf cart/UTV parts, 7 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 and digester gas monitors - 4 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 parts, gaskets, yearly cleaning. Catch basin screens for stormwater regulations. Barscreen (rotomat) 3 units in deteriorating condition. Hot water pumps Digester. led 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. Paint, lumber and supplies. Light bulbs/ballasts and fixtures. Valves, vibration analyzers, pressure gauges. Electrical: breakers, contactors, enclosures, fuses. Programmable controller cards for plant racks. HVAC filters for air handlers. Air filters for 3 Turbo blowers 15 ea x 3 blowers. Floor mats for all buildings. New signage for plant.	60,000
7348- Plant Materials	Mulch, tree and plant replacements, rock for plant grounds	1,000
7315- Small Items of Equipment \$100 - \$5,000	Replace flow/level meters – 6 ea/yr., \$1,400. Pressure Transmitters. Poly Pumps. Chem Pumps. Solenoids for seal water. Chem systems. & TV monitor 2022.	32,000
7411- Postage	Postage for mailings.	220
7418- Advertising	Advertising for new maintenance personnel.	200
7424- In-House Copying		200
7426- Outside Printing		100
7432- Publications, Subscriptions, and Dues	Safety handbooks and correspondence course materials.	500
7445- Telephone	One cell phone for maintenance mechanic plus one for supervisor, including upgrades and accessories. Underbudgeted in 2018.	2,000
7446- Other Utility	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 pickups to 5 times/week. Project activities likely increase utility's across board, increased.	5,000

WTRF Maintenance

GL Account *	Notes	2022
7461- Machine, Vehicle, Equipment	Turf mower repairs. Machine shop repairs. Motor rewinds, crane and hoist repairs. Flow and level meter calibration. Variable speed drives repairs. Generator PM 3 units. Fire extinguisher PM. Plant road maintenance. Crack sealing, seal coating, chip seal. Outside service for outdoor light pole repairs.	50,000
7466- Facilities Maintenance	Roto-rooter service for plant drains these are about \$1000 ea. Replacement of vegetation requiring removal during Nitrification phase 2. Boiler inspections. CDS-1 annual inspection of 2 boilers. HVAC tech services systems are getting very old and in need of repair/replace. 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. Numerous HVAC units identified as non corrosion resistant and require replacement.	28,611
7478- Registration		5,500
7435- Other Purchased Services	Programmable logic controller (PLC) programming. Testing and certification of plant breakers, medium voltage switches, power metering modules, six areas. 3 programming efforts related to volute thickeners, CHAP, and TWAS pumps. 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, annual crane and hoist inspections. Various instrumentation service/repair/calibration. Increase due to State mandated water main vaults needing upgrades.	60,000
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	5,628
7472- Hotel and Motel	Vogelsang pump service school or related maintenance training for one 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 employee to the RMWEA/RMSAWWA Annual Conference.	3,200
7473- Meals	2022 RMWEA Annual Conference (Loveland, CO). Service school. 2022. WEFTEC (New Orleans).	1,500
7474- Air Travel	Airfare to maintenance pump service school, 1 employee. WEFTEC airfare. Misc. airfare for equipment site visits per Master Plan recommendations.	1,700
7475- Mileage	Reimbursement for driving to and from conferences and training. Misc. expenses for mileage reimbursement.	250
7477- Other Travel	Shuttle, taxis when attending WEFTEC.	200
7328- Fleet Fuel	Budgeted by Fleet	2,715
7317- Meals/Food - Non-Travel Related	Appreciation lunches	2,000
7318- Medical Supplies	First Aid kits	500

WTRF Maintenance

GL Account *	Notes	2022
7323- Safety And Personal Protection	Boots, safety glasses, hearing protection, hard hats, fall protection, H2S, Arc flash	10,000
7433- Memberships & Dues	Maintenance/operations correspondence courses. WEF membership yearly dues. Two certifications renewals.	1,500
7349- Tools < \$5000		10,000
7633- Equipment Rentals	Rental of pumps, scaffolding, lifts, centrare reactor warming equipment; other emergency equipment. Gasoline storage tank lease for plant use. 2020 failure of CHAP resulted in \$7k monthly expense for rental of ground thaw heater. 22 increase = contingencies for similar failures requiring emergency equipment.	7,000
		863,847

WTRF Operations

GL Account *	Notes	2022
7111- Regular Employees		649,585
7121- Overtime-Regular	Occasional overtime pay to help offset comp time accruals. Requesting additional funds due to wage increases and several pending employee retirements.	6,365
7211- Disability		3,766
7212- Health		108,819
7215- Life		1,938
7213- Dental		3,717
7216- Workers Compensation		6,169
7221- General Employees		25,982
7227- 401K		12,474
7231- FICA		40,274
7234- Medicare		9,417
7314- Office Supplies & Materials	Pens, pencils, binders, folders, etc. for operations. Batteries, keys, flow chart recorder paper and pens, sludge coretakers,	2,850
7321- Medical/Chemical	Polymer for 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, bio augmentation novozymes bio remove 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. Added 5% annually to overall budget to account for polymer increases in cost, shipping, and usage. Adding \$100k, \$150K respectively for increased usage of FeCL3 as recommended from Master Plan Design direction.	638,899
7325- Clothing And Uniforms	Rubber boots, rain gear	2,500
7333- Machinery, Vehicle & Equipment Parts	Parts for operations vehicles and vehicle tires.	1,000
7344- General Maintenance Supplies	Cleaning supplies for dewatering and operations annex buildings. COVID 19 pandemic created higher awareness of the need for regular surface sanitization and required supplies.	2,500

WTRF Operations

GL Account *	Notes	2022
7315- Small Items of Equipment \$100 - \$5,000	Flow cell for UVT meter, operations probes/electrolyte for field meter, replace AB1 DO meter, replace bench pH meter probe, probe failures & replacements. Replace bench DO/OUR meter probe. Replace Demon online pH,DO, conductivity probes. Larger monitors for DWB operations office & Annex. Inserting additional dollars for instrumentation per nitrification project inline instrumentation upkeep.	22,150
7418- Advertising	New employee job advertisements. Expected to increase with retirements pending.	1,000
7424- In-House Copying	In-house copying	175
7426- Outside Printing	Business cards for staff. Signs for plant sponsored RMWEA Greeley seminar.	500
7432- Publications, Subscriptions, and Dues	Reference books for operations,	1,500
7441- Electric		515,075
7444- Natural Gas		25,527
7445- Telephone	Cell phone use for operations staff, 5 phones. Additional funding is being requested for replacement/upgrades/accessories.	5,500
7461- Machine, Vehicle, Equipment	Wastewater sampler service, operations lab balance service, truck scale repair, alarm pager/city radio repair, annual microscope service. 2020 increased radio availability and resulting financial requirements for accessories and batteries.	500
7478- Registration	2022: Rocky Mtn. Water Environment Association (RMWEA) operator training-Feb, Denver, March-Golden, May-Denver Metro, June-activated sludge troubleshooting, Denver area, June, PWO seminar, Greeley, July--Leadville conference, RMWEA/RMSAWWA annual conference (Loveland, CO), September, WEFTEC (New Orleans) for Operations Supervisor, October-Estes Park, Nov-annual bio solids conference in (Ft. Collins), 2. Both years, reimbursement for state operator certification exam. Increased budgets for new employees resulting from several expected retirements. Increased training to improve knowledge and operational efficiency.	4,545
7435- Other Purchased Services	Microscopic evaluations by Dr. Michael Richard 4x/year. Increases from higher sludge volumes and resulting hauling costs.	265,121
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	1,185

WTRF Operations

GL Account *	Notes	2022
7472- Hotel and Motel	Leadville plant operator school lodging. For Operations Supervisor, WEFTEC Chicago , WEFTEC New Orleans. Regional JAC. Requesting additional funds for anticipated Master Plan recommended equipment site visits in both 2021 and 2022.	4,500
7473- Meals	2021 & 2022: Leadville operator school, Denver area activated sludge troubleshooting 3 days, Denver area biological nutrient removal, RMWEA/RMSAWWA annual conference (Keystone, CO). 2020-- RMWEA/RMSAWWA annual conference (Loveland, CO). For Operations, WEFTEC Chicago, IL & New Orleans, LA respectively. Increase is due to sending more staff members to the Joint Annual Conference.	1,500
7474- Air Travel	For Operations Supervisor, roundtrip airfare to WEFTEC 2021 Chicago, IL, and WEFTEC 2022 New Orleans, LA. For 2021 & 2022, 2-3 anticipated equipment site visits per recommendations from Master Plan. Increase is due to expected additional air travel requirements.	2,000
7475- Mileage	Roundtrip mileage @ \$0.55/mile. In 2021 & 2022, Leadville operator school 234 miles, activated sludge troubleshooting Denver area 130 miles; biological nutrient removal Denver area 130 miles- RMWEA/RMSAWWA annual conference Loveland, CO (2021-2022). Additional funding of seminar and site visits is requested. Budget fluctuates depending on conference venues and availability of City vehicles.	998
7477- Other Travel	Airport parking fees. Car rental for equipment site visits. Shuttles and taxis when attending WEFTEC.	300
7328- Fleet Fuel	Budgeted by Fleet	1,152
7633- Equipment Rentals	Gas Detector Rental Agreement.	3,000
		2,372,483

Sewer Collection

GL Account *	Notes	2022
7111- Regular Employees		614,130
7121- Overtime-Regular	Special projects/annual call-out averages 56, of that 26 were after hours (OT) totaling 80hrs of over time or 3hrs of OT/event. 26 (OT call-outs) x 3hr/event x \$404 (crew rate) = \$31,500	31,500
7211- Disability		3,562
7212- Health		139,047
7215- Life		1,870
7213- Dental		4,750
7216- Workers Compensation		8,240
7221- General Employees		24,568
7227- 401K		11,789
7231- FICA		38,075
7234- Medicare		8,906
7314- Office Supplies & Materials	Office supplies including copier paper, envelopes, pens, pencils, tape, printer cartridges. Recreational supplies, film, batteries (A, AA, AAA's), keys, gift certificates, name tags, rubber stamps, calendars and planners, trophies, plaques, prizes, awards, calculators, and flash drives.	4,450
7321- Medical/Chemical	Lab supplies, hazmat supplies, mace, and less-lethal rounds. Chemicals required for operations such as chlorine, de-icing salt, fertilizers, weed spray, fire extinguishers (not charging – see 7461) bug spray, pest strips, CO2 detectors, etc. Chemicals to treat lift stations and general shop maintenance. Upgrades to the lift station discharge manholes are complete, the purchase of bioxide is no	5,000
7325- Clothing And Uniforms	Purchase of clothing and uniforms. Includes riot gear and fire helmets. 11 employees @ \$600	6,600
7333- Machinery, Vehicle & Equipment Parts	Parts for fleet vehicles and equipment. maintenance supplies for small engines, compressor, welders, etc. Attachments to mobile field maintenance vehicles. vehicle tool boxes, seat covers etc	25,000
7338- Water, Sewer, Irrigation Line Repair Parts	Painting supplies; includes supplies such as brushes, rollers, roller trays, spray paint, wallpaper and glue, Plumbing supplies (above ground). Electrical supplies; includes wiring, fuses, electrical components, light fixtures, bulbs. Building supplies including lumber, nails, screws, glue. HVAC supplies; parts and supplies related to the maintenance and repair of heating, ventilation, and air conditioning equipment. Cleaning and routine maintenance supplies such as nitrile gloves, cleansers, trash bags, toilet paper, tissues, paper towels, lens and sanitized wipes. Parts and components required to repair water, sewer (below ground), and sprinkler lines; plastic and concrete pipe. Parts and components used in the repair of sewer mains.	10,400
7344- General Maintenance Supplies	Supplies used to maintain 10 lift station, shop, and the WWC system. Electrical parts, locating paint, janitorial supplies and hand tools	25,000

Sewer Collection

GL Account *	Notes	2022
7346- Street & Traffic Repair and Maintenance Supplies	Sign parts and supplies, traffic signal supplies. Pavement marking supplies; including pavement paint, thermoplastic markings, etc. Asphalt, tack oil, sand, gravel, and other street repair supplies. Parts for the repair and maintenance of motor vehicles, small engines, batteries (A, AA, AAA, etc. under 7314), chain saws, generators, welders, weed eaters, testing and lab equipment. Also, grader blades & snow blades less than \$5000, tires (includes labor for balancing and mounting), tubes, wheel weights, patching supplies. Vehicle oil, lubricants and windshield wiper fluid. Also includes rope, brooms, shovels, rakes, small tools under \$100.00, glue, sand for golf courses and park sand.	4,120
7315- Small Items of Equipment \$100 - \$5,000	Furniture and equipment with a per unit cost of \$100 - \$5,000 with useful life of 1 year or more. This does not include repair parts. Budget adjusted, moved hand tools to 7349 "Tools"	6,250
7418- Advertising	Job advertising	150
7426- Outside Printing	Typesetting, printing, binding, graphics, and related professional printing services for reports, brochures, flyers, business cards, forms, etc. Also includes outside copy charges, laminating, small signs and decals made by outside service.	150
7432- Publications, Subscriptions, and Dues	The purchase of work-related books, reports, manuals, and other publications. Subscriptions to newspapers, magazines, newsletters, similar publications, including updates to law journals and professional practices. Cd's, dvd's	500
7441- Electric	Electrical cost for operating 10 lift stations and the shop	53,820
7442- Water/Sewer/Stormwater	Tbone lift station emergency overflow payments to Evans, stormwater charges for ww collections site; Based on incrs & 12mo rolling avg	47,218
7444- Natural Gas	Used for lift station emergency generator backup and heating the maintenance shop; Based on incrs & 12mo rolling avg	3,696
7445- Telephone	Includes commercial telephone charges as well as cellular phone charges and modem charges and laptop data plans.	6,300
7446- Other Utility		500
7461- Machine, Vehicle, Equipment	Charges from outside contractors for vehicle repair and maintenance services including car washes. Outside services for the repair and maintenance of elevators, machine, power tools, pumps, and other equipment. Also, includes welding and similar technical services. Annual fire extinguishers charging. Flat tire repair. Contracted outside services for the repair and maintenance of streets and roads, including snow removal, asphalt patching, sweeping, repair, street lights, etc. Outside contractor repairs on vehicles and pumps; Asphalt patching	10,000

Sewer Collection

GL Account *	Notes	2022
7466- Facilities Maintenance	Building and grounds maintenance - outside services for window washing, glass repair, overhead door repair, carpet cleaning, general cleaning, and similar building maintenance. Outside plumbing, heating and electrical services such as inspections, repairs, locks and keying, & related general maintenance. For properties that the City does own. Outside services related to sprinkler systems, sidewalk/concrete repair and replacement, grass seeding and sodding, landscaping and landscape maintenance, tree trimming, and fence installation or repair.	10,000
7463- Other Repair Maintenance Services		2,000
7478- Registration	Sign up fee for seminars, workshops, and conferences. Registration fees for EPA/CDPHE approved courses/schools/conferences and internet training necessary to achieve/maintain, State/Federal certifications in Storage and distribution of safe, quality drinking water.	12,000
7435- Other Purchased Services	Share of call tickets at 1.45 per request. 21-22 hire janitorial services@ collections, facility maintenance cant service WWC due to overload.	15,000
7631- Rent	Rental costs for buildings, offices, storage units, cones, message boards, land, movie rentals, tents, and show booths. There is no longer a gas monitor lease, COG will purchase and maintain all equipment. Perpetual sewer crossing fee (near JBS) to UPPR paid from this account. Fee increased 3%/year. 2021 Fee = 2279.31	10,692
7650- Computer/Phone User Charges	Budgeted by Finance	147,622
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	49,750
7472- Hotel and Motel	Expense for overnight lodging on city business if not included in registration. The increase in budget will cover hotel expense for employees traveling to conferences and school to achieve/maintain City, State & federal certifications to operate and deliver water per the EPA/CDPHE safe water drinking act.	2,500
7473- Meals	Expense for meals while on city business and seminars.	1,000
7474- Air Travel		2,500
7475- Mileage	Reimbursement to employees for the use of their personal vehicle for official city business at a designated rate per mile.	500
7328- Fleet Fuel	Fleet Fuel - Original Budget	29,890
7317- Meals/Food - Non-Travel Related	Meals/Food - non-travel related food items for in-house meetings and training and concessions.operations will hold external safety/meetings and share expense with multiple departments.	1,000
7318- Medical Supplies	First aid kits, bandages, aspirin, and other medical items.	1,000
7323- Safety And Personal Protection	Safety glasses, boots, ear protection, gloves, safety vests, hard hats, ear plugs, and masks (PPE). 11 employee @ \$600	6,600

Sewer Collection

GL Account *	Notes	2022
7433- Memberships & Dues	Annual membership fees for professional organizations that are job related. AWWA, CRWA, WEF etc. Memberships to organizations relevant to employee discipline. Information received through these organizations keep employees informed and educated on the latest water treatment/storage/distribution techniques. Provide approved training units to maintain certifications.	1,000
7349- Tools < \$5000	Tools with a per unit cost between \$100 and \$5,000 with useful life of 1 year or more. The purchase of small tools, lumber, ladders, rakes, shovels, weed eaters and mower blades. also includes all cutting blades for chop saws, angle grinders, reciprocating saws and all welding supplies. Hand tools addition/replacement	6,000
7633- Equipment Rentals	Heavy equipment rental.	10,000
7316- COMPUTER HARDWARE/SOFTWARE < \$5000	Furniture and equipment with a per unit cost of \$100 - \$5,000 with useful life of 1 year or more. This does not include repair parts. Budget adjusted, moved hand tools to 7349 "Tools"	5,000
		1,409,645

WTRF Administration

GL Account *	Notes	2022
7111- Regular Employees		256,422
7112- Salaries & Wages - Seasonal	Plant Intern(s)	15,300
7211- Disability		1,487
7212- Health		36,273
7215- Life		758
7213- Dental		1,239
7216- Workers Compensation		2,018
7217- Worker Compensation/Seasonal	Seasonal Workers Comp	387
7221- General Employees		10,258
7227- 401K		4,924
7231- FICA		15,898
7232- FICA Seasonal	Seasonal FICA	797
7234- Medicare	Seasonal Medicare	196
7234- Medicare		3,718
7314- Office Supplies & Materials	Small batteries, brushes, name tags, rubber stamps, calculators, annual planners and calendars, flash drives, food items for necessary meetings, employee recognition awards. Increased costs also due to an anticipated increase in employee retirement celebrations.	7,329
7321- Medical/Chemical	UV germicide replacement bulbs for offices and meeting rooms; first aid kits.	1,000
7325- Clothing And Uniforms	20 uniformed employees @ \$800 allotment for jeans, shirts, jackets, sweatshirts, coveralls, etc. Increased budget due to under budgeting and higher clothing costs. Amount per employee increased to align with other departments in Water and Sewer	5,000
7344- General Maintenance Supplies	Miscellaneous supplies for admin. staff.	1,000
7315- Small Items of Equipment \$100 - \$5,000	2 office monitors; Two new office chair. Each year, one replacement computer, \$900.	2,500
7411- Postage	For certified letters to state, EPA, customers.	100
7418- Advertising	Advertising for new employees. Legal ads & notices.	400
7424- In-House Copying	Canon ID #404-a copy machine annual costs.	3,300
7426- Outside Printing	Award nomination packages' printing costs/materials; misc. admin. printing costs. New replacement pamphlets, DVD's, brochures, display boards, etc. for public education & outreach program for each year.	500
7432- Publications, Subscriptions, and Dues	Scientific journals, other training materials as needed	1,000
7445- Telephone	Monthly phone service for plant and cell phone monthly charges for the plant superintendent. Budget include cell phone upgrades when eligible and phone accessories	4,500
7466- Facilities Maintenance	Costs for general maintenance of Admin bldg. such as carpet cleaning. Facilities cost estimate provided in 2019.	3,000

WTRF Administration

GL Account *	Notes	2022
7478- Registration	For Supt. and Process Analyst-Professional Wastewater Operator's (PWO) classes; RMWEA Annual Conference , Loveland, CO; WEFTEC Conference, Chicago, IL; RMWEA Denver, CO Bio solids Conference; Three classes for Admin.Specialist. Professional Wastewater Operator's (PWO) classes; RMWEA Annual Conference, Denver, CO; RMWEA Denver, CO Bio solids Conference; WEFTEC Conference, New Orleans, LA. NACWA annual conference	5,000
7435- Other Purchased Services	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 software 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 additional clients (licenses) for the WIMS database. Tennative Cityworks fees 2021- 2022: Colorado Discharge Permit System (CDPS) anticipated 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.	53,363
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	887
7472- Hotel and Motel	Water Environment Federation Technical Conference (WEFTEC) in Chicago (2021), New Orleans (2022) for Plant Supt. & Process Analyst for 4 days. RMSAWWA/RMWEA Annual Conference (2021) at Loveland, CO. Equipment site visits. National Association of Clean Water Agencies (NACWA) annual conference. Process Innovations Conference. IAAP Confereneces	3,000
7473- Meals	GSA per diem x 3 days @ RMWEA/RMSAWWA 2021 Annual Conference at Keystone, CO; WEFTEC 2021 Chicago, IL and WEFTEC 2022 New Orleans, LA respectively. NACWA annual conference	2,000
7474- Air Travel	Roundtrip airfare to WEFTEC 2021 Chicago, IL, and WEFTEC 2022 New Orleans, LA. Misc. air travel for equipment/process site visits per Master Plan recommendations. NACWA annual conference	2,000
7475- Mileage	Mileage to attend RMWEA/RMSAWWA Annual Conferences and bio solids conferences. Travel to and from Denver (for airport parking) for WEFTEC Conferences. Annual Denver seminars	500

WTRF Administration

GL Account *	Notes	2022
7477- Other Travel	WEFTEC New Orleans in 2022. 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.	500
7328- Fleet Fuel	Budgeted by Fleet	463
7317- Meals/Food - Non-Travel Related	Retirement lunches, Appreciation lunches, and Training meals	3,000
7318- Medical Supplies	first aid kits	1,000
7323- Safety And Personal Protection	Boots, PPE, Safety glasses	1,000
7412- Mailing/Delivery Services - External	For certified letters to state, EPA, customers.	300
7349- Tools < \$5000	Tool kits for admin building	500
7316- Computer Hardware/Software < \$5000	Boom mic and new speakers for conference space	2,000
		454,817



Fund 421

Water Operating

Water Administration

GL Account *	Notes	2022
7111- Regular Employees		796,605
7112- Salaries & Wages - Seasonal		15,450
7121- Overtime-Regular		5,305
7211- Disability		4,621
7212- Health		115,470
7215- Life		2,357
7213- Dental		3,943
7216- Workers Compensation		1,016
7221- General Employees		31,865
7227- 401K		15,295
7231- FICA		49,389
7234- Medicare		11,551
7314- Office Supplies & Materials	General supplies that fall outside the "office" designation.	15,000
7325- Clothing And Uniforms		1,500
7344- General Maintenance Supplies	Cleaning supplies for W&S admin offices.	500
7411- Postage	6100 pieces @ \$0.50	3,041
7418- Advertising		1,000
7424- In-House Copying		8,000
7426- Outside Printing		4,000
7432- Publications, Subscriptions, and Dues		16,500
7442- Water/Sewer/Stormwater		18,500
7445- Telephone		8,500
7478- Registration	Ten employees @ \$1000/employee.	10,000
7435- Other Purchased Services	Professional services related to rate model development, cross connection control software maintenance, annual financial audit.	72,600
7631- Rent	Rent Paid to General Fund 0015050050000000 - Maintenance 5366, Tied to repayment schedule. 2021/2022 ties to schedule.	129,740
7650- Computer/Phone User Charges	Finance Account	374,626
7655- Bank/Investment Charges	Charges for utility billing customer online payments.	185,000
7811- Grants-Outside Agencies		2,300
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance:	2,426
7472- Hotel and Motel		2,000
7473- Meals		750
7475- Mileage		1,200
7328- Fleet Fuel	Fleet Fuel - Original Budget	1,737
7317- Meals/Food - Non-Travel Related	Food purchases for meetings	5,000
7316- Computer Hardware/Software < \$5000	Computer equipment	4,500
		1,921,287

Bellvue Filter Plant

GL Account *	Notes	2022
7111- Regular Employees		591,965
7112- Salaries & Wages - Seasonal	2 Seasonal Employees @ \$19.07/hr for 1040 hours/yr. 1 seasonal year round.	39,685
7121- Overtime-Regular	Increase is due to changes in the HR policy as well as seasonal constraints of 6 months. Also, 1 additional employee was added to the Bellvue team in 2021.	10,609
7211- Disability		3,431
7212- Health		101,564
7215- Life		1,767
7213- Dental		3,469
7216- Workers Compensation		5,498
7217- Worker Compensation/Seasonal	Seasonal Workers Comp	1,613
7221- General Employees		23,679
7227- 401K		11,367
7231- FICA		36,701
7232- FICA Seasonal	Seasonal FICA	3,321
7234- Medicare	Seasonal Medicare	815
7234- Medicare		8,582
7314- Office Supplies & Materials	Copier paper, legal pads, pens/pencils/markers, dry erase supplies, batteries, flash drives, gift certificates, etc.	5,500
7321- Medical/Chemical	Chemicals used in water treatment such as alum, polymer feeds, fluoride, CL2 NAOH.	816,000
7325- Clothing And Uniforms	Budgeting for 8 team members, \$500 per employee.	4,000
7333- Machinery, Vehicle & Equipment Parts	Parts for fleet vehicles and equipment.	40,000
7338- Water, Sewer, Irrigation Line Repair Parts	Septic supplies, hoses and backflow parts.	3,000
7344- General Maintenance Supplies	Rebuild cop kits in pulsafeeders and Vogelsang rebuilds, TB1 air filters for HVAC.	35,000
7346- Street & Traffic Repair and Maintenance Supplies	Need to chip seal and/or crack-seal the road into the plant (1/2 mile). Work to be scheduled for 2021 and 2022.	6,600
7348- Plant Materials	Fertilizer, grass seed, top soil	500
7315- Small Items of Equipment \$100 - \$5,000	TB1 lockers, Chem building maintenance office replacment of counter and cabinets. New fixtures in baths in chem building.	16,000
7411- Postage		500
7418- Advertising	2 ads in AWWA (\$500/each)	1,000
7424- In-House Copying		400
7432- Publications, Subscriptions, and Dues	Technical manuals ands publications for plant operators	1,000
7441- Electric		160,943
7444- Natural Gas		25,214

Bellvue Filter Plant

GL Account *	Notes	2022
7445- Telephone	I phones for all staff. Two new aircards for Lucy/Cityworks software and Instrumentation tablet.	15,000
7446- Other Utility	Trash and recycling services	2,500
7461- Machine, Vehicle, Equipment	Sulair compressor maintenance, Cummins rocky moutain genset service, Timberline electric HMI program SCADA updates. Occasional HVAC service needed.	20,000
7466- Facilities Maintenance	Road base for continued facility access (raw ponds), 46-53 building needs 2 windows replaced. The 58-64 building needs 1 window replaced. We have been billing weed spray to 7321, is roughly \$1000 a year. Power vents on 60 BV control valve vault, Finished water meter vault, Pond Inlet structure	3,500
7463- Other Repair Maintenance Services	Increased security equipment costs and upgrade to Chlorine storage room needed. Need to replace 2 analog security cameras and alarm system for all campus and new TB1. We did not add hatch alarms to remote hatches in 2020. Need carryover into 2022. Fire inspection services annual inspection.	15,000
7478- Registration	\$1000/employee training for 8 employees	8,000
7435- Other Purchased Services	Sludge hauling/testing. Outside Lab services.	103,000
7631- Rent	Tent, chair and table rentals for summer tours	3,000
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	10,630
7472- Hotel and Motel		1,000
7473- Meals		500
7475- Mileage		1,000
7477- Other Travel		100
7328- Fleet Fuel	Budgeted by Fleet	4,290
7317- Meals/Food - Non-Travel Related	Staff team building/safety/training meals.	1,000
7318- Medical Supplies	First aid supplies and other medical supplies.	1,500
7323- Safety And Personal Protection	Budgeting for 8 team members, \$500 per employee.	4,000
7433- Memberships & Dues	50% of AWWA PFSW	500
7349- Tools < \$5000	Miscellaneous tool purchases	1,000
7633- Equipment Rentals		500
		2,155,743

Boyd Lake Filter Plant

GL Account *	Notes	2022
7111- Regular Employees		726,087
7112- Salaries & Wages - Seasonal	3 seasonal positions total (2 seasonal operators and 1 seasonal labor).	69,340
7121- Overtime-Regular	Single coverage on shifts when operating 24/7, need staff to cover for vacations and sickness. 6 operators 2 weeks vacation average \$45 per hour = \$21600	21,600
7211- Disability		4,209
7212- Health		120,910
7215- Life		2,165
7213- Dental		4,130
7216- Workers Compensation		7,362
7217- Worker Compensation/Seasonal	Seasonal Workers Comp	1,706
7221- General Employees		29,043
7227- 401K		13,943
7231- FICA		45,017
7232- FICA Seasonal	Seasonal FICA	3,512
7234- Medicare	Seasonal Medicare	862
7234- Medicare		10,526
7314- Office Supplies & Materials	Purchasing coffee and supplies at plant, increase of maintenance items and grease, cleaning supplies and other related items.	8,750
7321- Medical/Chemical	Water Treatment chemicals	855,349
7325- Clothing And Uniforms	\$400/employee/year/ = pants, shirts, boots , gloves, hat, light jacket. Winter coat as needed.) For 10 staff members	5,000
7333- Machinery, Vehicle & Equipment Parts	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 in Greeley.) Adjusted to reflect actual expenses and needs.	8,500
7338- Water, Sewer, Irrigation Line Repair Parts	Need to replace part of the irrigation system.	1,000
7344- General Maintenance Supplies	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 backlog of needed supplies. Adjusted to reflect actual expenses and needs.	20,000
7348- Plant Materials		500
7315- Small Items of Equipment \$100 - \$5,000	Replacement of ground maintenance equipment, sump pumps, power tools, shop equipment and tools. Power equipment for yard maintenance and a boat motor 25hp.	8,000
7411- Postage		500
7418- Advertising	Job advertisements	500
7424- In-House Copying	Includes Boyd copier rental	500

Boyd Lake Filter Plant

GL Account *	Notes	2022
7432- Publications, Subscriptions, and Dues	Water treatment books and study/training material	500
7441- Electric	Budgeted by Finance "based on incrs & 12mo rolling avg"	231,766
7442- Water/Sewer/Stormwater	Sewer service to the City of Loveland 3% increase (Added \$10000.00 to purchase water if needed)...Budgeted by Finance "based on incrs & 12mo rolling avg"	3,384
7445- Telephone	Added more units staff working from home and new work order system that can be utilized from an app. 3 tablet cards, 7 cell phones	8,000
7446- Other Utility	trash service increase in price	2,000
7461- Machine, Vehicle, Equipment	This account is used for pump, motor and valve rebuilding and other major repairs to plant machinery performed by outside vendors.	3,500
7466- Facilities Maintenance	Need to replace window blinds all over the facility.	1,000
7478- Registration	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. Moved \$1700 to other accounts for conference(\$600 to 7472 lodging)(\$ 600 to 7473 food)& (\$500 to 7475 travel).	3,000
7435- Other Purchased Services	Water Treatment Residuals removal cost and testing of the residuals due to new regulations by the CDPHE. Also testing for water quality needs T&O.	130,000
7631- Rent	Increase to reflect rental of tents, chairs, tables for summer tours.	3,000
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	11,641
7473- Meals	Approximately 14 days of per diem. More meetings planned for plant and attendees. Moved \$600 from 7478 for conference.	676
7475- Mileage	Staff to attend trainings . Moved \$500 from 7478 for RMSAWWA conference.	800
7328- Fleet Fuel	Budgeted by Fleet	7,460
7317- Meals/Food - Non-Travel Related	Working meetings , In-house training	1,000
7323- Safety And Personal Protection	Safety training and equipment, Steel toe boots, chemical suits and other. New fall protection and Air quality monitoring equipment parts and calibrations (Safety Training classes)	10,550
7412- Mailing/Delivery Services - External		1,000
7316- Computer Hardware/Software < \$5000	CPU hardware. Equipment for City works implementation(2 tablets and 2 laptops)	5,000
		2,393,288

Distribution

GL Account *	Notes	2022
7111- Regular Employees		975,966
7121- Overtime-Regular	Projected work programs/leak history: 35 leak repairs/special project x 6hrs @ \$404/event (crew rate) = \$84,800. 25 emergency repairs x 2hrs @ \$404/event = \$20,200. 200 average after hour calls x 2hrs @ \$40 = \$16,000. Total = \$121,000	121,000
7211- Disability		5,660
7212- Health		193,455
7215- Life		2,940
7213- Dental		6,607
7216- Workers Compensation		10,056
7221- General Employees		39,040
7227- 401K		18,737
7231- FICA		60,510
7234- Medicare		14,154
7314- Office Supplies & Materials	Office supplies including copier paper, envelopes, pens, pencils, tape, printer cartridges. Recreational supplies, film, batteries (D/C, AA, AAA's), keys, gift certificates, name tags, rubber stamps, calendars and planners, trophies, plaques, prizes, awards, calculators, and flash drives.	5,500
7321- Medical/Chemical	Lab supplies, hazmat supplies, mace, and less-lethal rounds. Chemicals required for operations such as chlorine, de-icing salt, fertilizers, weed spray, fire extinguishers (not charging – see 7461) bug spray, pest strips, CO2 detectors, etc.	1,000
7325- Clothing And Uniforms	Purchase of clothing and uniforms. \$600/14 employee	8,400
7333- Machinery, Vehicle & Equipment Parts	Parts for fleet vehicles and equipment. maintenance supplies for small engines, compressor, welders, etc. Attachments to mobile field maintenance vehicles. vehicle tool boxes, seat covers, etc.	5,665
7338- Water, Sewer, Irrigation Line Repair Parts	Parts and components required to repair water, sewer (below ground), and sprinkler lines; plastic and concrete pipe. Average 70 leaks per year. Cost varies due to repair parts required. Cost per leak repair varies from \$2,500 to \$35,000. Stainless steel leak repair clamps; range 3" to 36". Repair clamps range in price from \$45.00 to \$1200.00.	12,400
7344- General Maintenance Supplies	Painting supplies; Electrical supplies; Building supplies including lumber, nails, screws, glue. HVAC supplies; parts and supplies related to the maintenance and repair of heating, ventilation, and air conditioning equipment. Cleaning and routine maintenance supplies such as nitrile gloves, cleansers, trash bags, toilet paper, tissues, paper towels, lens and sanitized wipes.	10,000
7346- Street & Traffic Repair and Maintenance Supplies	Historical costs for repairing the public right of way after emergency corrective repairs that have been made to the distribution and transmission water systems. flow fill @ \$90/cyd, cold mix @ \$150/ton, fill sand @ \$12/ton, 3/4 washed \$28/ton & 1 1/2" washed rock \$28/ton, hot asphalt \$60/sqyd for the purchase of emergency signage and traffic	37,198

Distribution

GL Account *	Notes	2022
7348- Plant Materials	misc- replacement of shrubbery/planters due to construction/emergency repairs	1,500
7315- Small Items of Equipment \$100 - \$5,000	Furniture and equipment with a per unit cost of \$100 - \$5,000 with useful life of 1 year or more. This does not include repair parts. Budget adjusted, moved hand tools to 7349 "Tools"	8,000
7411- Postage		100
7424- In-House Copying	Finance use only	1,500
7426- Outside Printing	Typesetting, printing, binding, graphics, and related professional printing services for reports, brochures, flyers, business cards, forms, etc. Also includes outside copy charges, laminating, small signs and decals made by outside service	500
7432- Publications, Subscriptions, and Dues	The purchase of work-related books, reports, manuals, and other publications. Subscriptions to newspapers, magazines, newsletters, similar publications, including updates to law journals and professional practices. Cd's, dvd's readjusting budget and re-evaluating Subscriptions	500
7441- Electric	Annual electrical service provided to building I in the city shops complex. Budgeted by Finance "Based on incrs & 12mo rolling avg"	9,160
7444- Natural Gas	Based on incrs & 12mo rolling avg	1,892
7445- Telephone	Includes commercial telephone charges as well as cellular phone charges and modem charges.	7,500
7446- Other Utility		60
7461- Machine, Vehicle, Equipment	Annual cost for the asphalt paving, curb, gutter and sidewalk replacement damaged or removed during water main emergencies. 21-22 budget will absorb a portion of repair/replace cost for leaks	42,900
7466- Facilities Maintenance	Outside services related to sprinkler systems, sidewalk/concrete repair and replacement, grass seeding and sodding, landscaping and landscape maintenance, tree trimming, and fence installation or repair.	5,000
7478- Registration	Sign up fee for seminars, workshops, and conferences. Registration fees for EPA/CDPHE approved courses/schools/conferences and internet training necessary to achieve/maintain, State/Federal certifications in Storage and distribution of safe, quality drinking water.	10,000
7435- Other Purchased Services	W&S is in the process of redefining the geo-fencing to narrow or underground locate coverage which will drastically reduce ticket charges. Could see budget drop 15 - 20k. WWC/T&D/Reservoirs share cost for utiliseserves/811 (2021-22)? Water Sampling Lab Fees. port-a-pot fees.	36,000
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	107,281
7472- Hotel and Motel	Expense for overnight lodging on city business if not included in registration. The increase in budget will cover hotel expense for employees traveling to conferences and school to achieve/maintain City, State & federal certifications to operate and deliver water per the EPA/CDPHE safe water drinking act	2,400

Distribution

GL Account *	Notes	2022
7473- Meals	Expense for meals while on city business and seminars.	1,000
7474- Air Travel	Budget will cover air fare for out of state travel to limited conferences	2,500
7475- Mileage	Reimbursement to employees for the use of their personal vehicle for official city business at a designated rate per mile.	500
7328- Fleet Fuel	Budgeted by Fleet	56,857
7317- Meals/Food - Non-Travel Related	Meals/Food - non-travel related food items for in-house meetings and training and concessions. operations will hold external safety/meetings and share expense with multiple departments.	1,000
7318- Medical Supplies	First aid kits, bandages, aspirin, and other medical items.	1,000
7433- Memberships & Dues	Annual membership fees for professional organizations that are job related. AWWA, CRWA, WEF etc. Memberships to organizations relevant to employee discipline. Information received through these organizations keep employees informed and educated on the latest water treatment/storage/distribution techniques. Provides approved training units to maintain certifications.	1,000
7349- Tools < \$5000	Tools with a per unit cost between \$100 and \$5,000 with useful life of 1 year or more. The purchase of small tools, lumber, ladders, rakes, shovels, weed eaters and mower blades. also includes all cutting blades for chop saws, angle grinders, reciprocating saws and all welding supplies. Hand tools addition/replacement	20,000
7633- Equipment Rentals	Heavy construction equipment, compactors, skidsters, etc.	6,100
7316- Computer Hardware/Software < \$5000	Upgrades to outdated office and field equipment. additional laptops are needed to monitor transmission/distribution and reservoirs, make adjustments to flows and chemical feeds remotely. Budget will be adjusted (2022 10k is a one time request) 2023 budget adjusted to maintain equipment.	10,000
		1,862,538

Water Engineering

GL Account *	Notes	2022
7111- Regular Employees		316,543
7112- Salaries & Wages - Seasonal		12,607
7211- Disability		1,837
7212- Health		36,274
7215- Life		926
7213- Dental		1,239
7216- Workers Compensation		2,278
7217- Worker Compensation/Seasonal	Seasonal Workers Comp	515
7221- General Employees		12,661
7227- 401K		6,079
7231- FICA		19,625
7232- FICA Seasonal	Seasonal FICA	782
7234- Medicare		4,590
7234- Medicare	Seasonal Medicare	182
7314- Office Supplies & Materials	General Office Supplies	1,514
7333- Machinery, Vehicle & Equipment Parts	Budgeted by Equipment Maintenance:	150
7315- Small Items of Equipment \$100 - \$5,000		8,200
7411- Postage		50
7418- Advertising		500
7426- Outside Printing		100
7432- Publications, Subscriptions, and Dues		1,200
7445- Telephone		8,000
7478- Registration	5 employees attending North American Society for Trenchless Technology @ approximately \$850/person	4,250
7435- Other Purchased Services		41,500
7462- Equipment Maintenance Charges		4,990
7472- Hotel and Motel		2,200
7473- Meals	5 days of per diem estimated	1,500
7474- Air Travel		2,000
7475- Mileage	1500 miles @ \$0.50	750
7477- Other Travel		100
7328- Fleet Fuel	Fleet Fuel - Original Budget	1,671
		494,813

High Mountain Reservoirs

GL Account *	Notes	2022
7111- Regular Employees		262,397
7112- Salaries & Wages - Seasonal	Budget reflects funding for one seasonal at \$18/hr for 6 months. Generally the HMR seasonal is not employed for a full 6 months, but this budget figure reflects an ideal staffing scenario.	17,765
7121- Overtime-Regular	Increasing the overtime budget in 2022 in response to shifting HR policies; we're anticipating less utilization of comp-time and more utilization of overtime going forward.	7,000
7211- Disability		1,522
7212- Health		43,528
7215- Life		783
7213- Dental		1,487
7216- Workers Compensation		2,834
7216- Workers Compensation		515
7221- General Employees		10,495
7227- 401K		5,038
7231- FICA		16,268
7232- FICA Seasonal	Seasonal FICA	1,078
7234- Medicare	Seasonal Medicare	252
7234- Medicare		3,806
7314- Office Supplies & Materials	Miscellaneous office supplies like printer ink, paper, pens, pencils etc.	5,000
7321- Medical/Chemical	Miscellaneous chemical purchases, for example: herbicide.	300
7325- Clothing And Uniforms	Boots, pants, etc.	1,250
7327- Gas And Diesel Fuel	Fuel for dozers, loader, chainsaws, snowmobiles, 4x4s	2,000
7333- Machinery, Vehicle & Equipment Parts	Supplies for repair and maintenance of 4 pickups and 1 tandem dump truck.	10,000
7344- General Maintenance Supplies	Miscellaneous building supplies such as brooms, painting supplies, plumping, electrical, etc.	5,000
7346- Street & Traffic Repair and Maintenance Supplies	Supplies for repair and maintenance of non-fleet equipment including rubber tired loader, track dozer, snowmobiles, trailers, 4 wheelers, chainsaws, and other equipment and supplies.	20,000
7315- Small Items of Equipment \$100 - \$5,000	Miscellaneous small items of equipment/furniture like desk chairs, technology replacements, etc.	10,000
7411- Postage	Postage for miscellaneous mailings	100
7426- Outside Printing	Budget for miscellaneous outside printing services such as signs, posters, etc.	300

High Mountain Reservoirs

GL Account *	Notes	2022
7441- Electric	Electrical costs for city owned cabins, houses, and farms. Budgeted by finance "based on incrs & 12mo rolling avg" NOTE: The water resources 2021 electric budget set by Finance of \$28,509 has been transferred to this budget since it is a farm expense	28,509
7442- Water/Sewer/Stormwater		591
7445- Telephone	For commercial charges, cell phone charges and satellite phone charges.	9,200
7446- Other Utility	Miscellaneous septic services, trash hauling, etc.	2,000
7466- Facilities Maintenance	HMR division maintains 6 high mountain reservoirs, 3 cabins and utilizes all supplies related to the care and maintenance of said structures. *Budgeted conservatively due to location/inaccessibility of high mountain reservoirs buildings and associated high cost of repairs when needed.	20,000
7478- Registration	Staff training	1,000
7435- Other Purchased Services	Miscellaneous technical services including fire mitigation work on high mountain reservoirs.	8,600
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance: vehicles and equipment	14,264
7473- Meals		200
7328- Fleet Fuel	Fleet Fuel - Original Budget	13,348
7317- Meals/Food - Non-Travel Related	Food purchased for business meetings with ag representatives.	900
7318- Medical Supplies	First-aid related expenses.	500
7323- Safety And Personal Protection	Chainsaw safety gear, snowmobile helmets, life jackets all are required in the environment the HMR personnel work in.	1,200
7433- Memberships & Dues	Membership dues for CO lakes and reservoir organization	300
7349- Tools < \$5000	Tool replacements	1,000
7633- Equipment Rentals	Equipment rental of backhoes, trenches, and other equipment to open and maintain Greeley's water rights.	11,000
		541,330

Instrumentation and Controls

GL Account *	Notes	2022
7111- Regular Employees		561,204
7121- Overtime-Regular	I&C Techs for standby and emergencies. Budgeted at \$3,000 per employee (7) + 10,116 for on-call time (6,744 X 1.50/hour = \$10,116.00)	21,218
7211- Disability		3,256
7212- Health		84,637
7215- Life		1,665
7213- Dental		2,891
7216- Workers Compensation		5,018
7221- General Employees		22,449
7227- 401K		10,777
7231- FICA		34,796
7234- Medicare		8,137
7314- Office Supplies & Materials	Funds used for batteries, technology accessories, copy paper and other office supplies.	1,000
7325- Clothing And Uniforms	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 the treatment plants and reservoirs accounts.	4,000
7333- Machinery, Vehicle & Equipment Parts		1,500
7338- Water, Sewer, Irrigation Line Repair Parts	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.	500
7344- General Maintenance Supplies		5,500
7315- Small Items of Equipment \$100 - \$5,000	Desks, office chairs, etc.	2,000
7424- In-House Copying	SCADA records	500
7426- Outside Printing		150
7432- Publications, Subscriptions, and Dues	Certification updates	200
7461- Machine, Vehicle, Equipment	Fees for repairs outside the city of Greeley i.e.. Test equipment, instruments. Etc. In the past this money was taken from the treatment plants and reservoirs accounts.	2,000
7466- Facilities Maintenance	Bldg. service and repair for new I&C office	500

Instrumentation and Controls

GL Account *	Notes	2022
7463- Other Repair Maintenance Services		1,000
7478- Registration	Registration fees for AWWA. Also for advanced electrical & instrumentation training. Required to attend class on new equipment installed at the treatment plants.	4,650
7435- Other Purchased Services	Satellite charges for VIASAT and GIT, annual SCADA support contracts: GE Digital by Graymatter (Timber Line). Instructional advice received about the maintenance of new equipment installed at the treatment plants.	31,700
7631- Rent	Rental charges of misc. equipment on tools.	500
		811,748

Non-Potable Operations

GL Account *	Notes	2022
7111- Regular Employees		223,413
7112- Salaries & Wages - Seasonal		19,961
7121- Overtime-Regular		9,252
7211- Disability		1,296
7212- Health		48,363
7215- Life		677
7213- Dental		1,652
7216- Workers Compensation		2,412
7217- Worker Compensation/Seasonal	Seasonal Workers Comp	605
7221- General Employees		8,935
7227- 401K		4,289
7231- FICA		13,853
7232- FICA Seasonal	Seasonal FICA	1,245
7234- Medicare	Seasonal Medicare	306
7234- Medicare		3,239
7314- Office Supplies & Materials	Batteries, keys, calendars,Kerosene,propane,HH radios,other misc items under \$100.00.	1,500
7321- Medical/Chemical	Cost for algae control chemicals, copper sulphate used at 39 pumping stations and poudre ponds and the 5 ditch's we maintain. also covers cost incurred for landscaping and pest control at 39 non-potable stations and at the gravel pit.	1,800
7325- Clothing And Uniforms	light coveralls, safety gloves, first aid kits, safety vests, rubber boots, ear protection, rain gear, sun screen, Winter coveralls. Safety boots, hats	2,000
7333- Machinery, Vehicle & Equipment Parts	Maintenance supplies for six vehicles, two tractors and two chain saws, 1 chop saw, 2 generators and pumps. 1 hotsy includes: spark plugs, air filters, drive belts, diaphragms, weed eater string, mower blades, hydraulic hoses and lubricants and all vehicle maintenance equipment needs to perform throughout the year. Additional vehicle and equipment with expanded non-potable assets.	4,500
7338- Water, Sewer, Irrigation Line Repair Parts	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 joint coupler, etc.	3,500

Non-Potable Operations

GL Account *	Notes	2022
7344- General Maintenance Supplies	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 doubled the amount of maintenance needed.	15,000
7346- Street & Traffic Repair and Maintenance Supplies	asphalt repair, concrete repair, signs and sign posts. Sand Gravel, Dirt, Small tools under \$100.	2,100
7348- Plant Materials	grass seed, replacement shrubs and trees	500
7315- Small Items of Equipment \$100 - \$5,000	office chair. portable welder trailer, lawn mower, portable generator, portable air compressor,	11,300
7411- Postage	Miscellaneous mailings	100
7424- In-House Copying		1,500
7426- Outside Printing		100
7441- Electric	Based on incrs & 12mo rolling avg	294,020
7442- Water/Sewer/Stormwater	Based on incrs & 12mo rolling avg	1,002
7444- Natural Gas	Based on incrs & 12mo rolling avg	1,681
7445- Telephone		8,200
7446- Other Utility	Based on incrs & 12mo rolling avg	1,500
7466- Facilities Maintenance		2,500
7463- Other Repair Maintenance Services	Contract to repair pumps and programmable logic controllers at all 38 pump stations, also to cover asphalt repair costs. Added 20 Parks sites.	8,553
7478- Registration	Three FTE's to pump and filter training classes.	5,000
7435- Other Purchased Services	Proportional cost for utility locating request. The utility notification center of Colorado currently charges \$1.61 per request. Engineering and survey work needed for projects.	13,000
7631- Rent	Annual lease on shop and gas detectors used for confined space entry.	4,500
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance:	21,166
7473- Meals	sending 4 people to syncroflo and Amiad training	500
7328- Fleet Fuel	Fleet Fuel - Original Budget	12,561
7433- Memberships & Dues		500
7316- Computer Hardware/Software < \$5000		1,000
		759,081

Services and Meters

GL Account *	Notes	2022
7111- Regular Employees		294,779
7121- Overtime-Regular	On call after hour /supervisor weekend rotation.Supervisor weekend on-call/additional FTE possible 22. 21-22 AMI project more overtime.	8,487
7211- Disability		1,711
7212- Health		66,501
7215- Life		898
7213- Dental		2,272
7216- Workers Compensation		2,944
7221- General Employees		11,791
7227- 401K		5,659
7231- FICA		18,277
7234- Medicare		4,273
7314- Office Supplies & Materials	Office supplies including copier paper, envelopes, pens, pencils, tape, printer cartridges. Recreational supplies, film, batteries (A, AA, AAA's), keys, gift certificates, name tags, rubber stamps, calendars and planners, trophies, plaques, prizes, awards, calculators, and flash drives.	1,000
7325- Clothing And Uniforms	Purchase of clothing and uniforms. Includes riot gear and fire helmets. 600/employee x5	3,000
7333- Machinery, Vehicle & Equipment Parts	Parts for fleet vehicles and equipment. maintenance supplies for small engines, compressor, welders, etc. Attachments to mobile field manitenace vehicles. vehicle tool boxes, seat covers etc.	1,500
7338- Water, Sewer, Irrigation Line Repair Parts	Parts and components required to repair water, sewer (below ground), and sprinkler lines; plastic and concrete pipe. 15 meters pits @ \$120 each, 15 domes @ \$130 each, 15 setters @ \$110 each, 5 composite 24" lids @ \$240 each, misc. brass fittings 2014 same parts with a 4.5% mark up (\$1400)	10,000
7344- General Maintenance Supplies	Painting supplies; Plumbing supplies; Electrical supplies; HVAC supplies; Cleaning and routine maintenance supplies.	6,855
7315- Small Items of Equipment \$100 - \$5,000	Furniture and equipment with a per unit cost of \$100 - \$5,000 with useful life of 1 year or more. This does not include repair parts. Budget adjusted, moved hand tools to 7349 "Tools".	3,500
7426- Outside Printing	updating informational door hangers/AMI instruction hanger (\$1.50/hanger) budget will trend the same 2021 to 2024 to accomadate the new meter change out program	1,000

Services and Meters

GL Account *	Notes	2022
7441- Electric	Budgeted by Finance (based on incrs & 12mo rolling avg)	3,124
7444- Natural Gas	Budgeted by Finance (based on incrs & 12mo rolling avg)	2,821
7445- Telephone	Includes commercial telephone charges as well as cellular phone charges and modem charges.	4,200
7461- Machine, Vehicle, Equipment	Charges from outside contractors for vehicle repair and maintenance services.	1,000
7466- Facilities Maintenance	Building and grounds maintenance.	2,500
7478- Registration	Sign up fee for seminars, workshops, and conferences. Registration fees for EPA/CDPHE approved courses/schools/conferences and internet training necessary to achieve/maintain, State/Federal certifications in Storage and distribution of safe, quality drinking water.	1,000
7435- Other Purchased Services	Charge for professional outside architects, engineers, surveyors, and material testers.	4,800
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	8,947
7472- Hotel and Motel	The increase in budget will cover hotel expense for employees traveling to conferences and school to achieve/maintain City, State & federal certifications to operate and deliver water per the EPA/CDPHE safe water drinking act.	2,500
7473- Meals	Expense for meals while on city business and seminars.	500
7474- Air Travel		2,000
7475- Mileage	Reimbursement to employees for the use of their personal vehicle for official citybusiness at a designated rate per mile.	500
7328- Fleet Fuel	Budgeted by Fleet	13,230
7317- Meals/Food - Non-Travel Related	Operations will hold external safety/meetings and share expense with multiple departments.	500
7318- Medical Supplies	First aid kits, bandages, aspirin, and other medical items.	1,000
7433- Memberships & Dues	Annual membership fees for professional organizations that are job related. AWWA, CRWA, WEF etc.	500
7633- Equipment Rentals	Small equipment rental.	3,300
7316- Computer Hardware/Software < \$5000	Upgrades to outdated office and field equipment. Budget will be adjusted 2023 to maintain equipment.	500
		497,369

Transmission-Reservoir

GL Account *	Notes	2022
7111- Regular Employees		258,004
7112- Salaries & Wages - Seasonal	1 seasonal employee. 1040hrs @ \$21.26/hr = 23k/seasonal. Request is to support Transmission/Reservoir crews with system maintenance and in-house CIP projects, assist the maintenance mechanic with routine preventative maintenance, perform landscape maintenance and assist with confined space entries.	23,000
7121- Overtime-Regular	on-call/weekend duty: average hourly rate for (6) fte's average rate \$41: on-duty is 10 hrs.@ \$41/hr. x 52 weeks. \$21,320 Holiday coverage: 5 hrs. @ \$41/hr. x 10. \$ 2,056 Emergency response: 56 calls @ \$41/hr. \$2,296 Utility locate tech after hour projects/call outs 100 hrs. @ \$41/hr.	22,000
7211- Disability		1,496
7212- Health		60,455
7215- Life		788
7213- Dental		2,065
7216- Workers Compensation		2,787
7217- Worker Compensation/Seasonal	Seasonal Workers Comp	598
7221- General Employees		10,321
7227- 401K		4,953
7231- FICA		15,995
7232- FICA Seasonal	Seasonal FICA	1,233
7234- Medicare	Seasonal Medicare	303
7234- Medicare		3,741
7314- Office Supplies & Materials	Office supplies including copier paper, envelopes, pens, pencils, tape, printer cartridges. Recreational supplies, film, batteries (A, AA, AAA's), keys, gift certificates, name tags, rubber stamps, calendars and planners, trophies, plaques, prizes, awards, calculators, and flash drives. Includes everything that was in 7314 and 7329 in Finance Plus.	4,300
7321- Medical/Chemical	Lab supplies, hazmat supplies, mace, and less-lethal rounds. Chemicals required for operations such as chlorine, de-icing salt, fertilizers, weed spray, fire extinguishers (not charging – see 7461) bug spray, pest strips, CO2 detectors, etc. At our 3 reservoir complexes we use sodium hypochlorite solution to provide secondary disinfection treatment per State/Federal safe drinking water regulations. Gallons used is proportional with gallons of water usage, time of year, temperature, etc. Under new management 2021. Need to baseline and adjust budget accordingly. 2020 actual is the base (3%) calculation for 2022 budget.	35,000
7325- Clothing And Uniforms	Purchase of clothing and uniforms. Includes riot gear and fire helmets. \$600/employee - added FTE 2021	2,400
7333- Machinery, Vehicle & Equipment Parts	Parts for fleet vehicles and equipment. maintenance supplies for small engines, compressor, welders, etc. Attachments to mobile field maintenance vehicles. vehicle tool boxes, seat covers etc	4,120

Transmission-Reservoir

GL Account *	Notes	2022
7338- Water, Sewer, Irrigation Line Repair Parts	Parts and components required to repair water, sewer (below ground), and sprinkler lines; plastic and concrete pipe. 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; 24 pressure regulating stations located throughout the distribution system; parts for repairing plumbing, pumps, the sodium hyperchlorite dispensing systems at 3 reservoir complexes. Added 2 PRVs 20, 21,23 and 24	9,200
7344- General Maintenance Supplies	Painting supplies; Plumbing supplies (above ground; Electrical supplies; Building supplies; HVAC supplies; Cleaning and routine maintenance supplies; such as nitrile gloves, cleansers, supplies for the (3) reservoir complexes and the zone 4 pump station are purchased through this account	20,000
7346- Street & Traffic Repair and Maintenance Supplies	Sign parts and supplies, traffic signal supplies. Pavement marking supplies; including pavement paint, thermoplastic markings, etc. Asphalt, tack oil, sand, gravel, and other street repair supplies. Parts for the repair and maintenance of motor vehicles, small engines, batteries (A, AA, AAA, etc. under 7314), chain saws, generators, welders, weed eaters, testing and lab equipment. Also, grader blades & snow blades less than \$5000, tires (includes labor for balancing and mounting), tubes, wheel weights, patching supplies. Vehicle oil, lubricants and windshield wiper fluid. Also includes rope, brooms, shovels, rakes, small tools under \$100.00, glue, sand for golf courses and park sand.	1,200
7348- Plant Materials	Sod, grass for the (3) reservoir complexes	500
7315- Small Items of Equipment \$100 - \$5,000	Furniture and equipment with a per unit cost of \$100 - \$5,000 with useful life of 1 year or more. This does not include repair parts. Budget adjusted, moved hand tools to 7349 "Tools"	4,000
7424- In-House Copying		1,000
7426- Outside Printing	Typesetting, printing, binding, graphics, and related professional printing services for reports, brochures, flyers, business cards, forms, etc. Also includes outside copy charges, laminating, small signs and decals made by outside service	150
7432- Publications, Subscriptions, and Dues	The purchase of work-related books, reports, manuals, and other publications. Subscriptions to newspapers, magazines, newsletters, similar publications, including updates to law journals and professional practices. Cd's, dvd's	250

Transmission-Reservoir

GL Account *	Notes	2022
7441- Electric	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 supervisory control and data acquisition capabilities. Budgeted by Finance.	225,743
7442- Water/Sewer/Stormwater	Budgeted by Finance (based on incrs & 12mo rolling avg)	1,548
7444- Natural Gas	Budgeted by Finance (based on incrs & 12mo rolling avg)	4,341
7445- Telephone	Telephone/cell phone services and phone alarm systems at the (3) reservoir complexes. Alarm system alarm system @ Gold Hill upgraded will decrease	10,800
7446- Other Utility		1,000
7461- Machine, Vehicle, Equipment	Annual cost for the asphalt paving, curb, gutter and sidewalk replacement damaged or removed during PRV,vault repair replacement. Traffic control when working on PRV vaults. maintenance service on 3 generators.	3,000
7466- Facilities Maintenance	Building and grounds maintenance.	1,000
7478- Registration	Sign up fee for seminars, workshops, and conferences. Registration fees for EPA/CDPHE approved courses/schools/conferences and internet training necessary to achieve/maintain, State/Federal certifacations in Storage and distribution of safe, quaility drinking water.	7,000
7435- Other Purchased Services	Utility notification center of Colorado locate ticket request charges. Extensive study and multiple upgrades to rectifiers/anod beds, cothodic protect 21 - 22. pending results budgets may decrees 2023	16,250
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	28,217
7472- Hotel and Motel	Expense for overnight lodging on city business if not included in registration. The increase in budget will cover hotel expense for employees traveling to conferences and school to achieve/maintain City, State & federal certifacations to operate and deliver water per the EPA /CDPHE safe water drinking act	2,500
7473- Meals	Expense for meals while on city business and seminars.	500
7474- Air Travel	travel funds for limited conferences/exhibition	2,500
7475- Mileage	Reimbursement to employees for the use of their personal vehicle for official city business at a designated rate per mile.	500
7328- Fleet Fuel	Budgeted by Fleet	21,766
7317- Meals/Food - Non-Travel Related	Operations will hold external safety/meetings and share expense with multiple departments.	500

Transmission-Reservoir

GL Account *	Notes	2022
7318- Medical Supplies	First aid kits, bandages, aspirin, and other medical items.	1,000
7323- Safety And Personal Protection	Safety glasses, boots, ear protection, gloves, safety vests, hard hats, ear plugs, and masks (PPE). \$600/employee - added FTE 2021.	2,400
7433- Memberships & Dues	Annual membership fees for professional organizations that are job related. AWWA, CRWA, WEF etc.	1,000
7349- Tools < \$5000	Hand tools addition/replacement	10,000
7633- Equipment Rentals	heavy construction equip, compactors, mini x, etc	5,000
7316- Computer Hardware/Software < \$5000	Reservoirs is in need of mobile equipment, i.e., laptops, smart phones, etc. Budget will be readjusted 2023 to maintain equipment.	1,375
		837,799

Water Conservation

GL Account *	Notes	2022
7111- Regular Employees		274,790
7112- Salaries & Wages - Seasonal	1 part time (\$25/hr. = annually \$21,000). Seasonal 1 (\$17.75/hr. for 6 months= \$18,500); Seasonal 2 (\$16.25/hr. for 6 months = \$17K) Increase in salary for returning employee.	56,500
7121- Overtime-Regular	Overtime for Conservation hourly staff for events, meetings etc. after hours	3,000
7211- Disability		1,594
7212- Health		48,364
7215- Life		822
7213- Dental		1,652
7216- Workers Compensation		1,632
7221- General Employees		10,991
7227- 401K		5,275
7231- FICA		17,037
7234- Medicare		3,984
7314- Office Supplies & Materials	Office supplies (batteries, paper, envelopes, tap, printer cartridges flash drives, power strips), design supplies (\$5K). Giveaways/merch (prizes, water bottles, pens, bags, gloves, magnets, cups, etc. - \$15K)	20,000
7321- Medical/Chemical	Garden treatments, weed spray, fertilizer, bug spray, pest strips, etc.	1,000
7325- Clothing And Uniforms	Water conservation shirts to ID employees	1,100
7327- Gas And Diesel Fuel	Tours	300
7333- Machinery, Vehicle & Equipment Parts	Snowbrushes, windshield wiper fluid, wipers, etc.	150
7338- Water, Sewer, Irrigation Line Repair Parts	Annual controllers, nozzles, dips systems, etc. (\$20k). Controllers for those who retrofit their irrigation.	20,000
7344- General Maintenance Supplies	Supplies for the three sheds like paint, brushes, rollers, trash bags, rags, paper towel, gutters, cleaning supplies, repairs, etc.	1,500
7346- Street & Traffic Repair and Maintenance Supplies	Small tool maintenance (oil changes, blade sharpening, etc.) and tools repairs	500
7348- Plant Materials	Ongoing expenses for annual beds, plant replacements (\$7,500). One time project- Centennial Park Improvements (buffalo grass, natives-\$8,500). Two new gardens will be created including a crevice and rain garden (\$4,000)	20,000
7315- Small Items of Equipment \$100 - \$5,000	Office furniture for new employee	1,500
7411- Postage	Welcome packets for new customers with Water conservation information. Letters to customers.	2,000
7418- Advertising	Events (Home & Garden Show, Green Pro, Forms, Symposium, conferences - \$12k), Radio (\$24K), Print (Newspaper, magazine, newsletters, etc.-\$10K), social (\$500)	46,500
7426- Outside Printing	Signs (lawn signs like life after lawn, garden plant ID, etc.- \$2.5k), bill inserts (drought, water restrictions, etc. \$5K), brochures, postcards, flyers (WC menu, water budget, lecture series, etc. \$2.5K), business cards, etc.	10,000

Water Conservation

GL Account *	Notes	2022
7432- Publications, Subscriptions, and Dues	CoCoRaHS (\$2k), Western Water, Colorado Water Wise (\$2K)	6,000
7445- Telephone		5,000
7446- Other Utility	Trash removal	500
7461- Machine, Vehicle, Equipment	Tool and small equipment repairs for blowers, snow blower, lawn mower, etc. Car washes, flat tire repairs	500
7466- Facilities Maintenance	Annual garden clean-up by 3rd party contractors (\$2,000); Irrigation Repairs (\$1K)	3,000
7463- Other Repair Maintenance Services	Drop Box (\$150), Adobe Pro (\$250 per person X 3= \$750); Irrigation App (\$1,000). WaterSmart customer portal is paid from IT beginning in 2022.	2,000
7478- Registration	Poudre River Form, Webinars, AWWA, RMSAWWA, Colorado WaterWise, CNGA, ProGreen Expo.	4,500
7435- Other Purchased Services	Resource Central Garden in the Box program costs (annually \$12K); Irrigation garden expansion (\$10K one-time), Water Conservation Plan update (\$5K one-time).	27,000
7631- Rent	Three storage units only.	4,500
7693- Rebates	Commercial fixtures (\$20K), toilets (\$10K), irrigation (controllers, pressure reducing valves, nozzles \$20k) Water conservation specialist II position will focus on commercial, industrial and institutional audits. Increase outreach and rebates needs.	50,000
7811- Grants-Outside Agencies	Incentives for more xeric demo gardens in public places; public water conservation retrofits (10K); host a front yard xeriscape makeover contest (\$8K); align water conservation techniques with City projects.	17,218
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	4,341
7472- Hotel and Motel	ProGreen Expo, AWWA, etc.	2,500
7473- Meals	\$50 per day/5 days per year for 4 employees	1,000
7474- Air Travel	(2 people for air travel/per year)	1,000
7475- Mileage	Personal vehicle	2,000
7477- Other Travel	Parking, Taxi, bus etc (\$1k) and Bus rental for tour (teachers-\$2K)	3,000
7328- Fleet Fuel	Fleet Fuel - Original Budget	61
7317- Meals/Food - Non-Travel Related	In-house water conservation committee meetings	500
7318- Medical Supplies	First aid kits for vehicles and garden	300
7323- Safety And Personal Protection	PPE for 2 seasonal, 1 part time and 4 full time	1,000
7412- Mailing/Delivery Services - External	Postcard and letter stamps, mailing packages,	1,000
7433- Memberships & Dues	AWWA, WeCO (\$3k), ColoradoWater Wise (\$2k), Irrigation Association, associated landscape Colorado, Colorado Nursery and Greenhouse Association (\$1K) etc.	8,000
7349- Tools < \$5000	Garden tools-trimmers, clippers, small hand machine tools	2,000
7633- Equipment Rentals	Seasonal handwashing station and porta potty for the garden (\$250/month for 7 months)	1,750
7316- Computer Hardware/Software < \$5000	New computer and monitors.	2,500
		701,361

Water Quality

GL Account *	Notes	2022
7111- Regular Employees		143,791
7112- Salaries & Wages - Seasonal	One WQ seasonal at \$18/hr for 6 months.	18,720
7211- Disability		834
7212- Health		24,182
7215- Life		429
7213- Dental		826
7216- Workers Compensation		513
7216- Workers Compensation	Water Quality Operating Expenses	515
7221- General Employees		5,751
7227- 401K		2,760
7231- FICA		8,915
7232- FICA Seasonal	Seasonal FICA	1,149
7234- Medicare	Seasonal Medicare	269
7234- Medicare		2,085
7314- Office Supplies & Materials	Miscellaneous supplies such as sampling bottles, garbage bags for spills, ice bags, bac-T bottles.	5,000
7321- Medical/Chemical	Purchasing of reagents/kits for colorimeter, calibration standards for field probe.	1,000
7325- Clothing And Uniforms	Replacement of WQRC sampling gear (Muck Boots, Waders, Raincoat, backpack, warm jackets, warm pants, sampling gloves,) (\$800 per FTE plus \$400 per seasonal).	2,000
7315- Small Items of Equipment \$100 - \$5,000	As needed equipment	1,000
7411- Postage	For certified letters to state, EPA, customers	20
7418- Advertising	Advertising for new employees. Legal ads & notices.	200
7426- Outside Printing	Chain of custody forms, sample bottle labels. Tier I, II, III printing. Budgeting for 2 bill stuffers for violations at 2,700 each. Possible printing of the Annual CCR.	12,800
7432- Publications, Subscriptions, and Dues	Purchase of technical manuals	1,000
7415- Legal	Provide outside assistance on regulatory matters when in-house counsel is needed and unavailable	40,000
7478- Registration	Registration for conferences, training events, classes for CEU's and operator certifications.	3,800
7435- Other Purchased Services	Professional services costs for WQ related to sampling and laboratory services, NISP and Upper Poudre activities, etc. See separate 7435 tracking spreadsheet for full details.	477,840
7811- Grants-Outside Agencies	Funds to support relevant research efforts that are of benefit to regulatory compliance and watershed protection programs.	1,000

Water Quality

GL Account *	Notes	2022
8208- Furniture, Fixtures & Equipment	Budgeting for 2 isco automatic samplers in 2022 at \$5,600 each plus accessories.	13,000
7472- Hotel and Motel	Water Quality Forum Annual Conference, RMSAWWA Annual Conference and other regulatory conference such as RCA or clean water act education. Approx. \$1,400 per full FTE)	2,800
7473- Meals	per diem meal based on 10 days - use \$65/day in 2021 and \$70/day in 2022	700
7474- Air Travel	Roundtrip airfare to conferences (2 out of state trips - 500 per trip)	1,000
7475- Mileage	Mileage (personal vehicle) to attend various conferences and forums on river health, water quality, adaptive practices, OSHA, and field sampling quality control and techniques. 56 cents per mile.	500
7477- Other Travel	Parking fees and shuttle fees associated with conferences, uber, car rental	1,000
7317- Meals/Food - Non-Travel Related	Food purchases for meetings, lunches with colleagues, trainings	500
7318- Medical Supplies	Refilling first Aid Kit	100
7323- Safety And Personal Protection	Replacement of steel toe boots, reflective vest, hard hat, safety glasses, gloves (leather and nitrile)	900
7412- Mailing/Delivery Services - External	Fed Ex samples to lab in coolers, mailing Annual Reports to CDPHE	1,000
7433- Memberships & Dues	ABCEP, Envirocert, Cert Arborist, WWTP Level D, C & D level 1. misc.	3,000
7349- Tools < \$5000	miscellaneous tool as needed by staff	1,000
7633- Equipment Rentals	PID, 4-gas meter, maybe	100
7316- COMPUTER HARDWARE/SOFTWARE < \$5000	none anticipated in 2022 that isn't already available through IT	-
		781,999

Water Resources

GL Account *	Notes	2022
7111- Regular Employees		947,408
7112- Salaries & Wages - Seasonal	GIS support (Lisa) for water budgets and other WR priorities	61,800
7121- Overtime-Regular		1,545
7211- Disability		5,495
7212- Health		113,655
7215- Life		2,776
7213- Dental		3,882
7216- Workers Compensation		6,347
7217- Worker Compensation/Seasonal	Seasonal Workers Comp	515
7221- General Employees		37,896
7227- 401K		18,189
7231- FICA		58,738
7232- FICA Seasonal	Seasonal FICA	3,832
7234- Medicare	Seasonal Medicare	896
7234- Medicare		13,738
7314- Office Supplies & Materials	Water quality bottles, batteries, tags, labels, etc..	4,000
7325- Clothing And Uniforms		2,000
7315- Small Items of Equipment \$100 - \$5,000		7,000
7418- Advertising		1,000
7432- Publications, Subscriptions, and Dues	Publications associated with water resources	9,000
7445- Telephone	Cellular costs	6,000
7415- Legal	2022 budget increased to reflect higher actuals in 2020 and the anticipated increased costs associated with more involved water court cases and legislation efforts (ex. Turnback provision) and other issues.	301,000
7478- Registration	Training includes irrigationist symposium, CLE water administration, CSU conference irrigation water requirement, AWRA symposium, Water Congress annual meeting, South Platte Forum, water issues forum, use 2015 budget for 2017 and 2018	20,000
7435- Other Purchased Services	Projects related to protecting existing water supplies and evaluating new water supplies, flow studies, environmental impact statement analysis, and water quality ditch sampling. 2022 budget increased due to an expected increase in professional services needs related to more involved water court cases and assistance for our IWRP.	292,500

Water Resources

GL Account *	Notes	2022
7697- Assessment Fees	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 paid or water will not reach the water treatment plants. This includes the GIC Headgates and telemetry project (est. \$45,800/year).	2,920,000
7811- Grants-Outside Agencies	Regional collaboration, sponsorships	9,026
7472- Hotel and Motel		4,000
7473- Meals		1,000
7474- Air Travel		2,000
7475- Mileage		5,000
7477- Other Travel		4,500
7328- Fleet Fuel	Budgeted by Fleet	728
		4,865,466



2022 Water & Sewer Budget and Rate Review

Water and Sewer Board
Presented July 21, 2021

Presentation Agenda

- Water & Sewer Finance Overview
- Capital Funds
 - Review budgets and major projects
- Operating Funds
 - Review budget increase requests
- Rates
 - Review proposed 2022 rate increases



Water & Sewer Enterprise Funds

- Supported through rates and fees
- Each fund is a separate “line of business”
- Separate from the General fund (sales & property taxes)
 - Annual transfers occur to the General fund for services provided to Water and Sewer by General fund departments (Finance, HR, etc.)



Water Sub-Funds and Revenues

The water fund is divided into 5 “sub-funds” for tracking purposes

- Operating fund
 - o \$ Rates
- Capital New Construction fund
 - o \$ Bonds and Plant Investment Fees
- Capital Replacement fund
 - o \$ Rates (depreciation) and Bonds
- Acquisition fund
 - o \$ Bonds & Cash-in-lieu payments
- Debt Service fund
 - o \$ Rates (revenue in/debt service payment out)



Sewer Sub-Funds and Revenues

The sewer fund is divided into 4 “sub-funds” for tracking purposes

- Operating fund
 - o \$ Rates
- Capital New Construction fund
 - o \$ Bonds and Plant Investment Fees
- Capital Replacement fund
 - o \$ Rates (depreciation) and Bonds
- Debt Service fund
 - o \$ Rates (revenue in/debt service payment out)



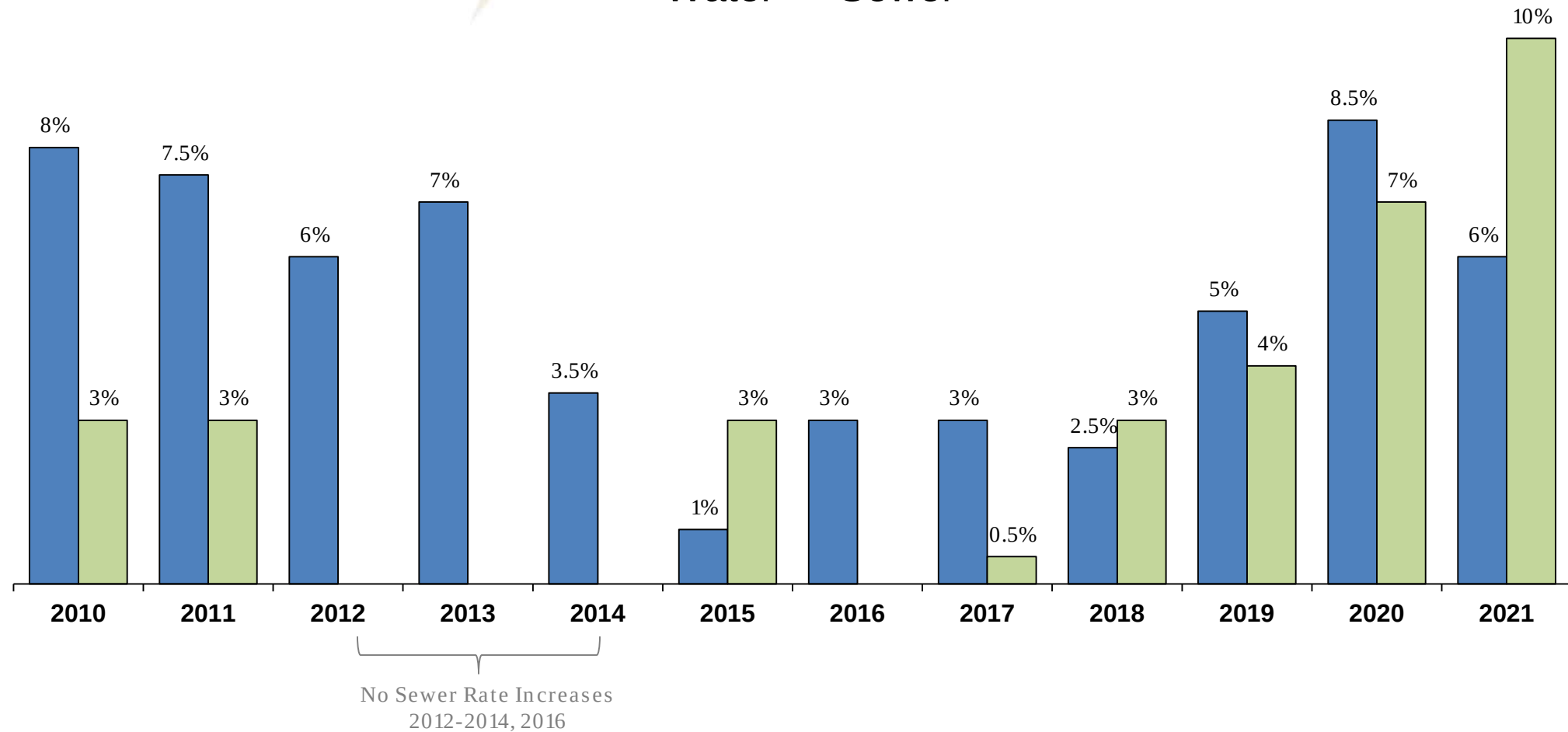
Financial Practices

- Annual rate modeling and budgeting each Spring
- Operations and capital project managers submit draft budgets
- Utility finance staff model a 10-Year cash flow for each sub-fund
 - o Determine when bonds are needed
 - o Determine necessary rate increases
 - o There's some flexibility within the sub-funds
 - o Example: Additional cash funding of capital projects through transfers



Rate Change History

■ Water ■ Sewer



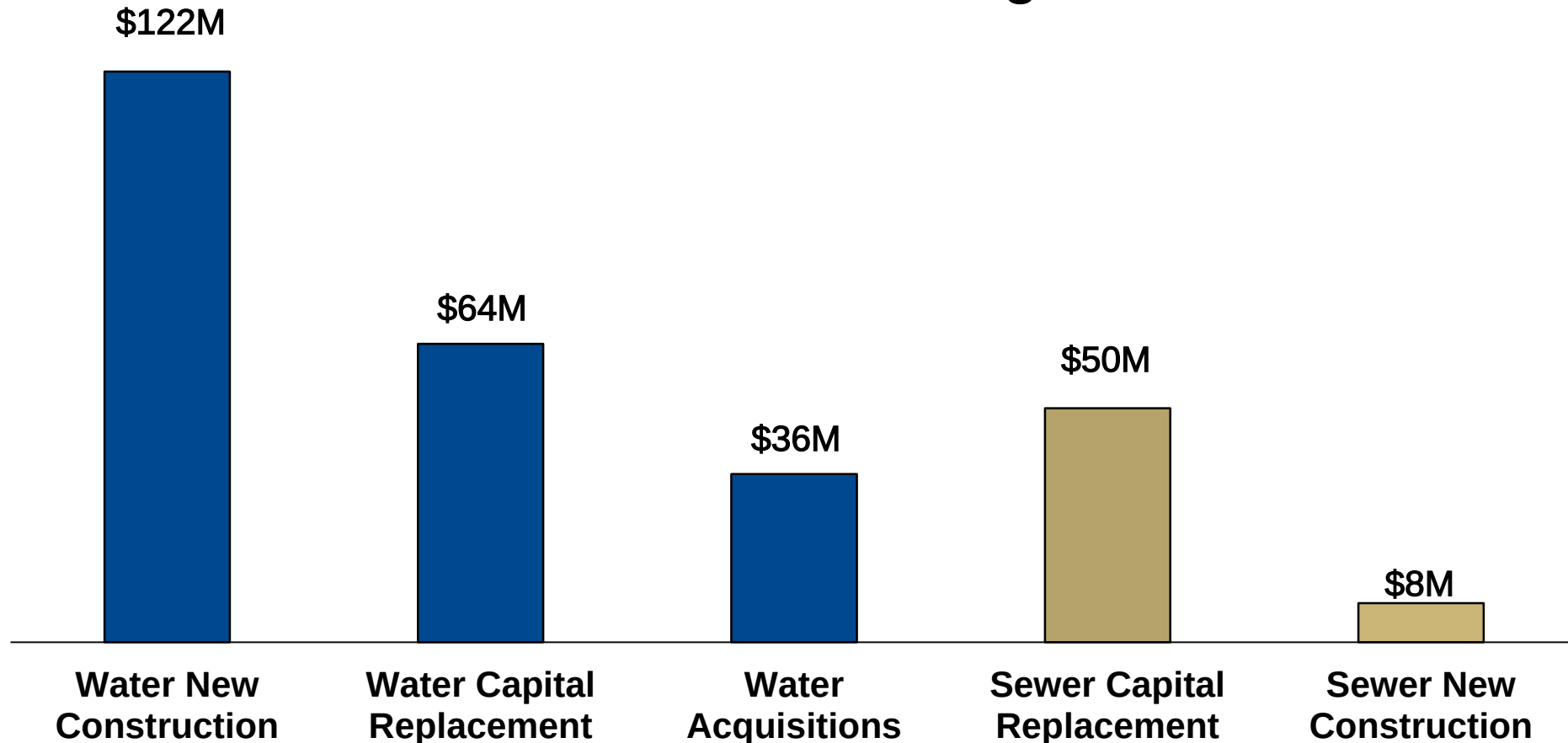


2022 CIP Detail

- Water New Construction
- Water Replacement and Rehabilitation
- Water Acquisitions
- Sewer New Construction
- Sewer Replacement and Rehabilitation

Capital Funds Summary

2021 – 2022 Budget



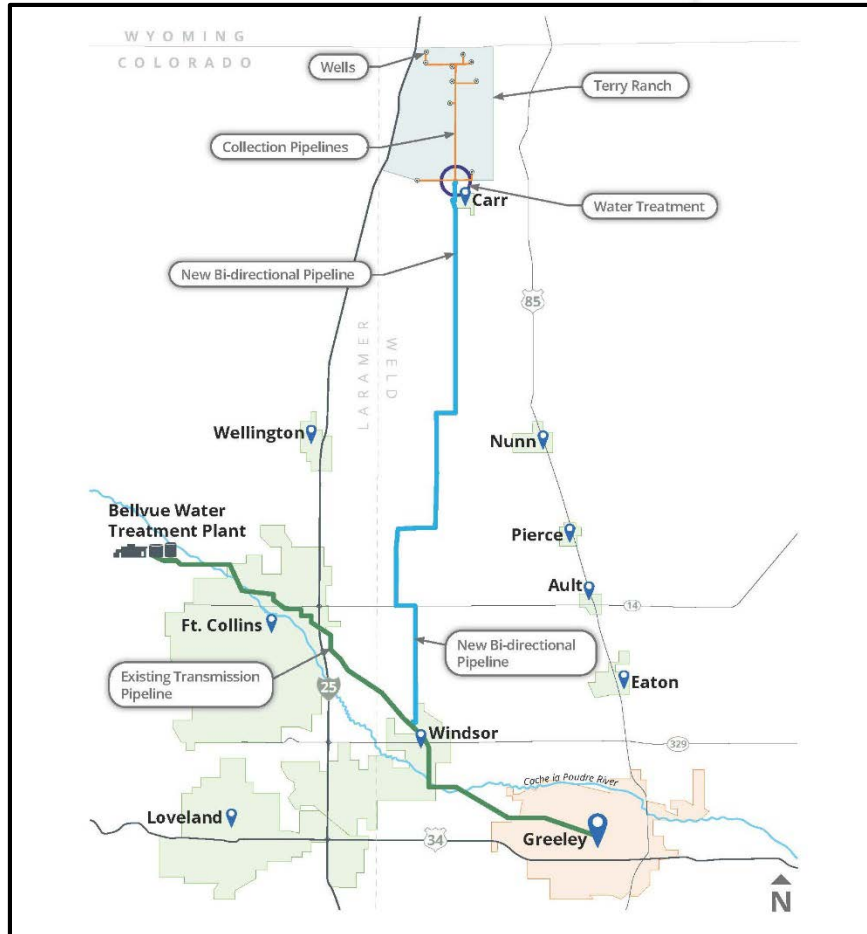
2022 Water New Construction (Fund 422)

2021 Bonding: \$69,050,000 (2021/2022 funded Windy Gap (\$60M), Terry Ranch & NP Expansion)

Project List	2022 Budget
Terry Ranch Water Development	36,515,000
Non-Potable Expansion Projects	5,051,000
* N Weld Water System Purchase	1,032,788
* O St & 59th Roundabout Waterline	629,000
Non-Potable Waterline	600,000
* F St & 47th Ave Waterlines	590,000
Windy Gap Firming	515,000
* Boomerang NP Overflow and Storm Improvements	429,000
Pleasant Valley Pipeline & Pump Station	250,000
Distribution Line Extension & Oversizing	147,200
Water Taps	75,000
New Construction Meters	45,000
12 Projects Total:	\$45,878,988

* Projects new to CIP (+ \$2.7M)

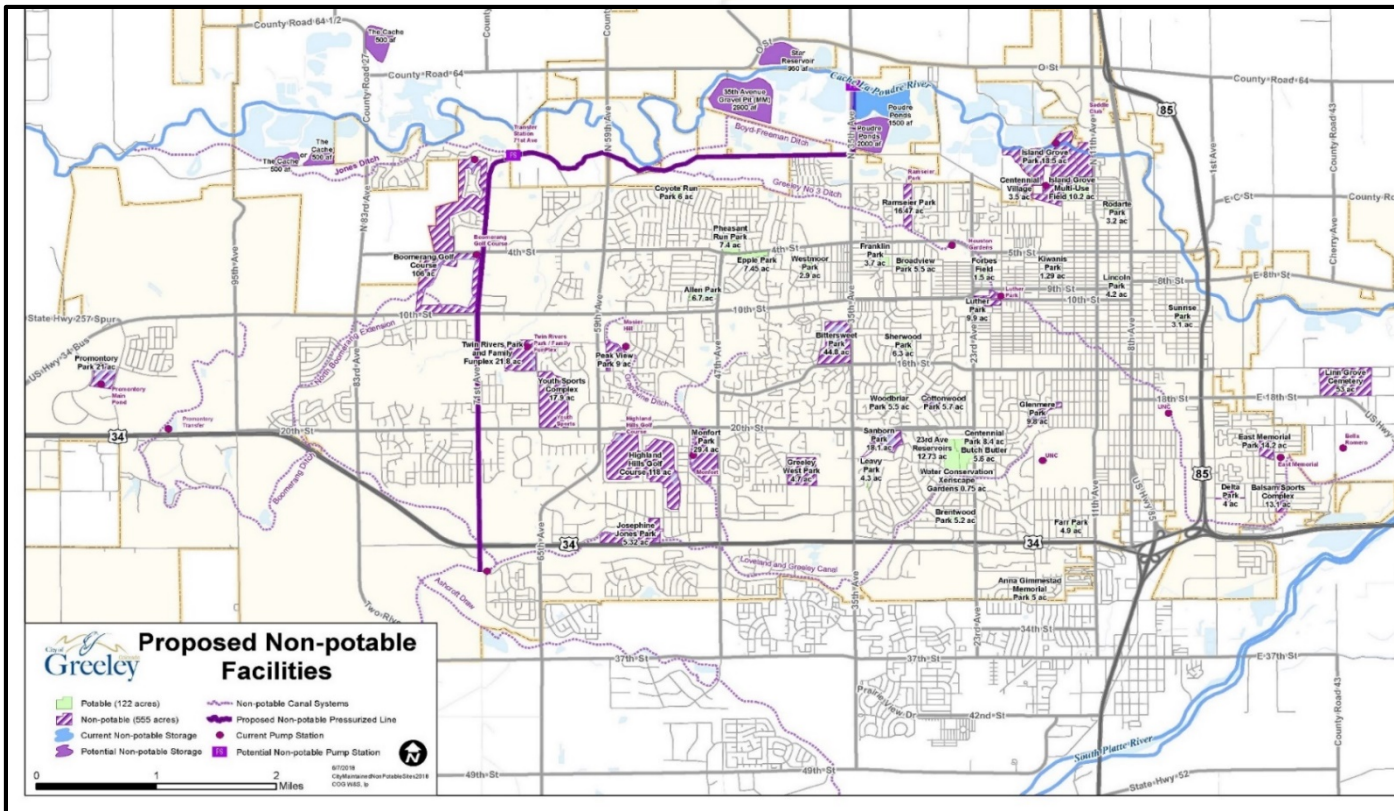
Highlighted Project: Terry Ranch Water Development



2022 Project Cost: **\$36,515,000**
Funded partially through Wing Foot
contributions.



Highlighted Project: Non-Potable System Expansion



2022 Project Cost: **\$5,051,000**
(annual system investment)

Funds non-potable infrastructure
for new development and retro-
fitting existing developments.



2022 Water Replacement/Rehab (Fund 423)

2021 Bonding: \$23,500,000 (2021/2022 funded AMI, Trans/Dist Rehab and Boyd Process Improvements)

Project List	2022 Budget
Advanced Metering Infrastructure	3,993,900
Boyd WTP Process Improvements	2,776,000
Transmission System Rehabilitation	2,101,000
Distribution Pipeline Replacement	1,895,000
Boyd Chemical Tank Building	1,820,000
Treated Water Reservoir Rehabilitation	1,739,410
Capital Outlay Replacement - Water	1,635,232
Utility Billing Replacement-Water	1,500,000
Non-Potable Replacement Rehabilitation	1,275,000
Boyd Sedimentation Basin Repair	815,000
Hourglass and Comanche Reservoir Rehabilitation	523,022
Boyd Flocculator Replacement	520,000
Bellvue Water Treatment Plant General Rehabilitation	505,000
SCADA Upgrades Reservoir 23 and Non-Potable	451,600

CONTINUED →

2022 Water Replacement/Rehab (Fund 423)

Project List Continued	2022 Budget
Boyd Water Treatment Plant - General Rehabilitation	450,000
Transmission Line Customers Re-Route	400,000
SCADA Master Plan	375,000
* Distribution System Optimization	350,000
Risk and Resiliency Projects	349,940
Water and Sewer Facilities Program	325,000
Instrumentation & Controls - Water	165,050
Suburban Ditch Non-Potable Replacement	150,000
Meter Replacement	100,000
Valve Replacement	100,000
Fire Hydrant Replacement	77,000
Ancillary System Improvements	50,000
26 Projects Total:	\$24,442,154

* Project new to CIP

Highlighted Project: Advanced Metering Infrastructure



2022 Project Cost: **\$3,993,900**
Reflects an accelerated 4 -year schedule



Highlighted Project: Transmission System Rehabilitation



2022 Project Cost: **\$2,101,000**
(annual program)



Highlighted Project: Utility Billing Upgrade

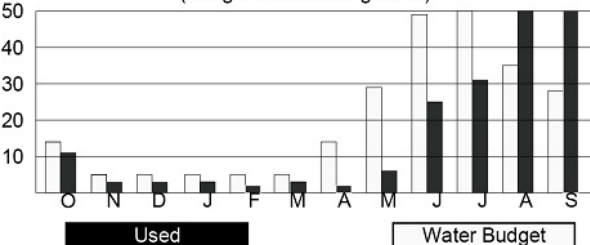


City of Greeley
Director of Finance
P.O. Box 1928
Greeley, CO 80632-1928

Statement of Account for Utility Service(s)

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

ACCOUNT INFORMATION		WATER CHARGES																												
Account Number	222-222222-22	BUDGET: Indoor	7	Outdoor	21	Total	28																							
Service Location	2000 GREELEY AVENUE CT	<table border="1"> <thead> <tr> <th>RESIDENTIAL WATER</th> <th>Used</th> <th>Rate</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td>Water Budget (0% to 100%)</td> <td>28</td> <td>3.97</td> <td>\$108.64</td> </tr> <tr> <td>Inefficient Use (>100% to 130%)</td> <td>9</td> <td>4.85</td> <td>\$42.66</td> </tr> <tr> <td>Excessive Use (>130% to 150%)</td> <td>5</td> <td>6.62</td> <td>\$30.20</td> </tr> <tr> <td>Unsustainable Use (>150%)</td> <td>8</td> <td>8.82</td> <td>\$68.96</td> </tr> <tr> <td>Base Charge</td> <td></td> <td></td> <td>\$11.83</td> </tr> </tbody> </table>					RESIDENTIAL WATER	Used	Rate	Amount	Water Budget (0% to 100%)	28	3.97	\$108.64	Inefficient Use (>100% to 130%)	9	4.85	\$42.66	Excessive Use (>130% to 150%)	5	6.62	\$30.20	Unsustainable Use (>150%)	8	8.82	\$68.96	Base Charge			\$11.83
RESIDENTIAL WATER	Used	Rate	Amount																											
Water Budget (0% to 100%)	28	3.97	\$108.64																											
Inefficient Use (>100% to 130%)	9	4.85	\$42.66																											
Excessive Use (>130% to 150%)	5	6.62	\$30.20																											
Unsustainable Use (>150%)	8	8.82	\$68.96																											
Base Charge			\$11.83																											
Persons in Household:	4	Irrigable Area:	7799																											
METER INFORMATION		BILLING SUMMARY																												
Meter ID	Date	Curr Read	Date	Prev Read	Usage																									
97403425U	09/28	750	08/28	700	50																									
		Payments	\$165.74-																											
		Bal Fwd	\$10.74																											
		RESIDENTIAL WATER	\$262.29																											
		RESIDENTIAL SEWER	\$15.72																											
		STORMWATER	\$11.09																											
		CURRENT CHARGES	\$289.10																											
		TOTAL DUE ON 10/18/17	\$299.84																											

CONSUMPTION HISTORY
(Usage in thousand gallons)


2022 Project Budgets:

Water: **\$1,500,000**

Sewer: \$625,000

Storm: \$600,000



2022 Water Acquisition (Fund 424)

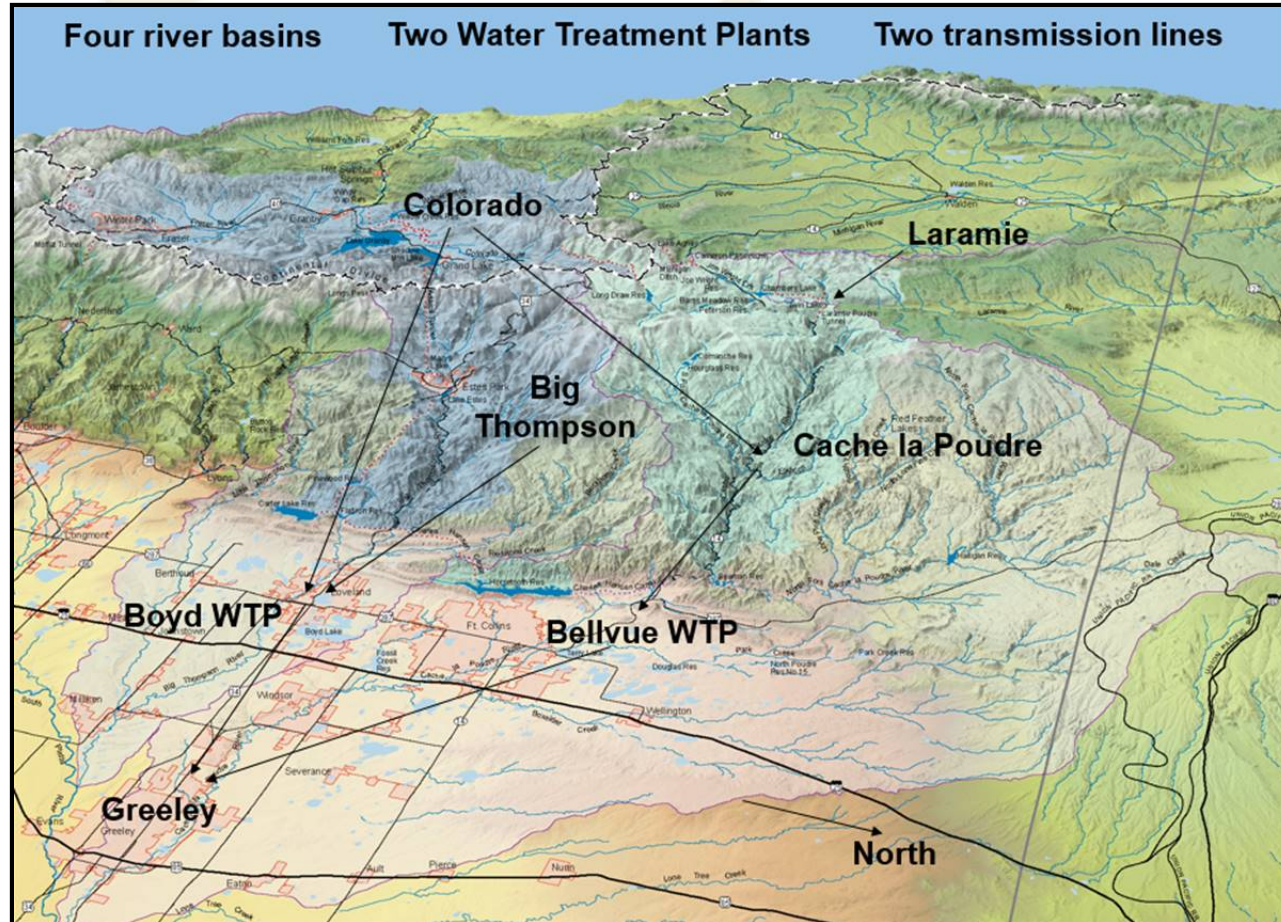
2021 Bonding: \$31,500,000 (2021/2022 funded water acquisitions)

Project List	2022 Budget
Future Water Acquisition - Phase II	7,750,000
Integrated Water Resources Plan	483,000
* Life After Lawn	150,000
Non-tributary Groundwater SLB Change Case	100,000
Water Supply & Storage Change Case Ph 2	100,000
Overland Trail	35,000
6 Projects Total:	\$8,618,000

* Project new to CIP



Highlighted Project: Integrated Water Resources Plan



2022 Project Cost: **\$483,000**
Multi-year project started
in 2021



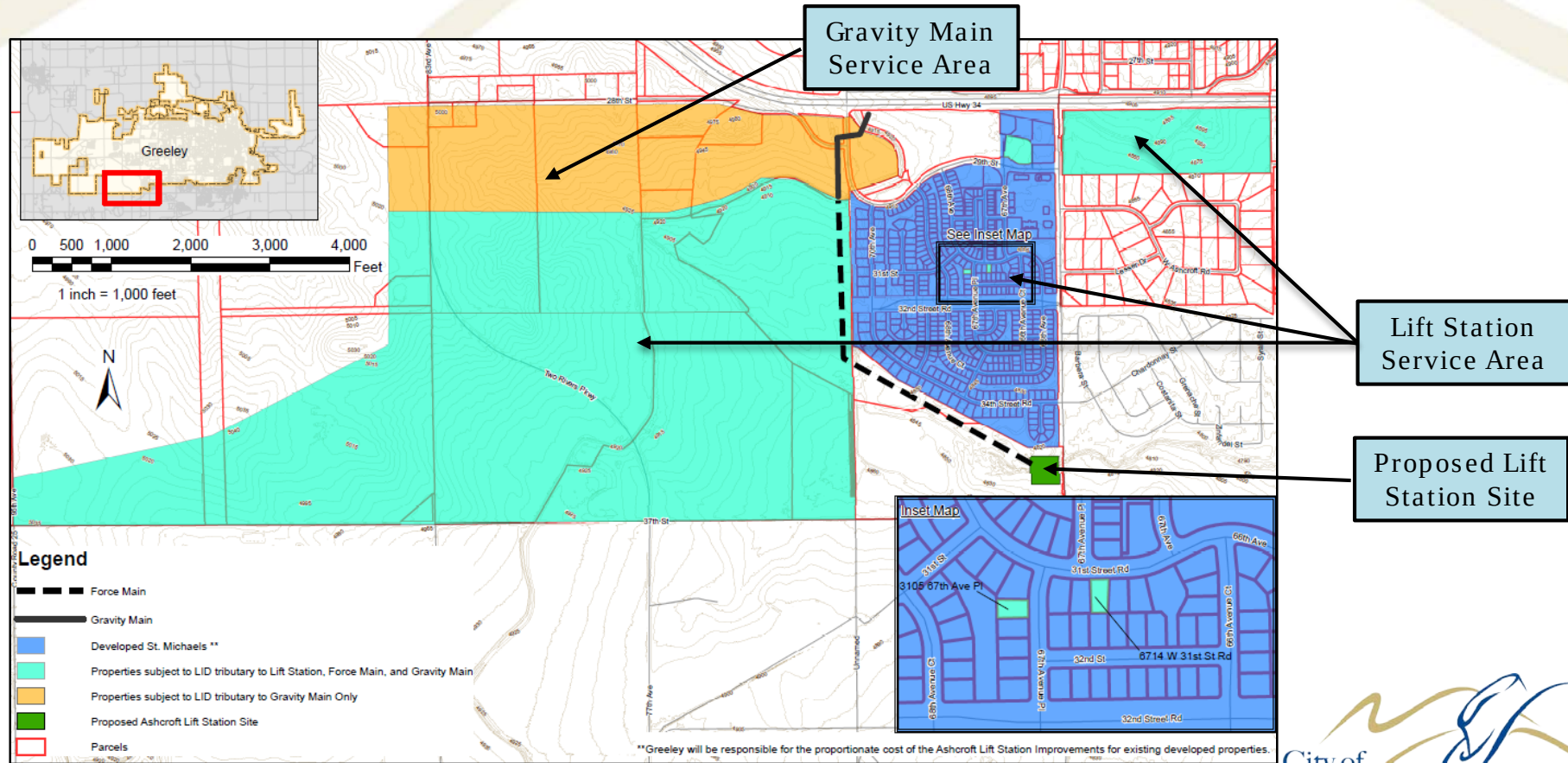
2022 Sewer New Construction (Fund 412)

2021 Bonding: \$0

Project List	2022 Budget
Poudre Trunk Phase 2	1,844,260
Additional Sanitary Sewer Manholes & Sewer Taps	69,000
North Greeley Sewer Phase 2A	12,000
3 Projects Total:	\$1,925,260

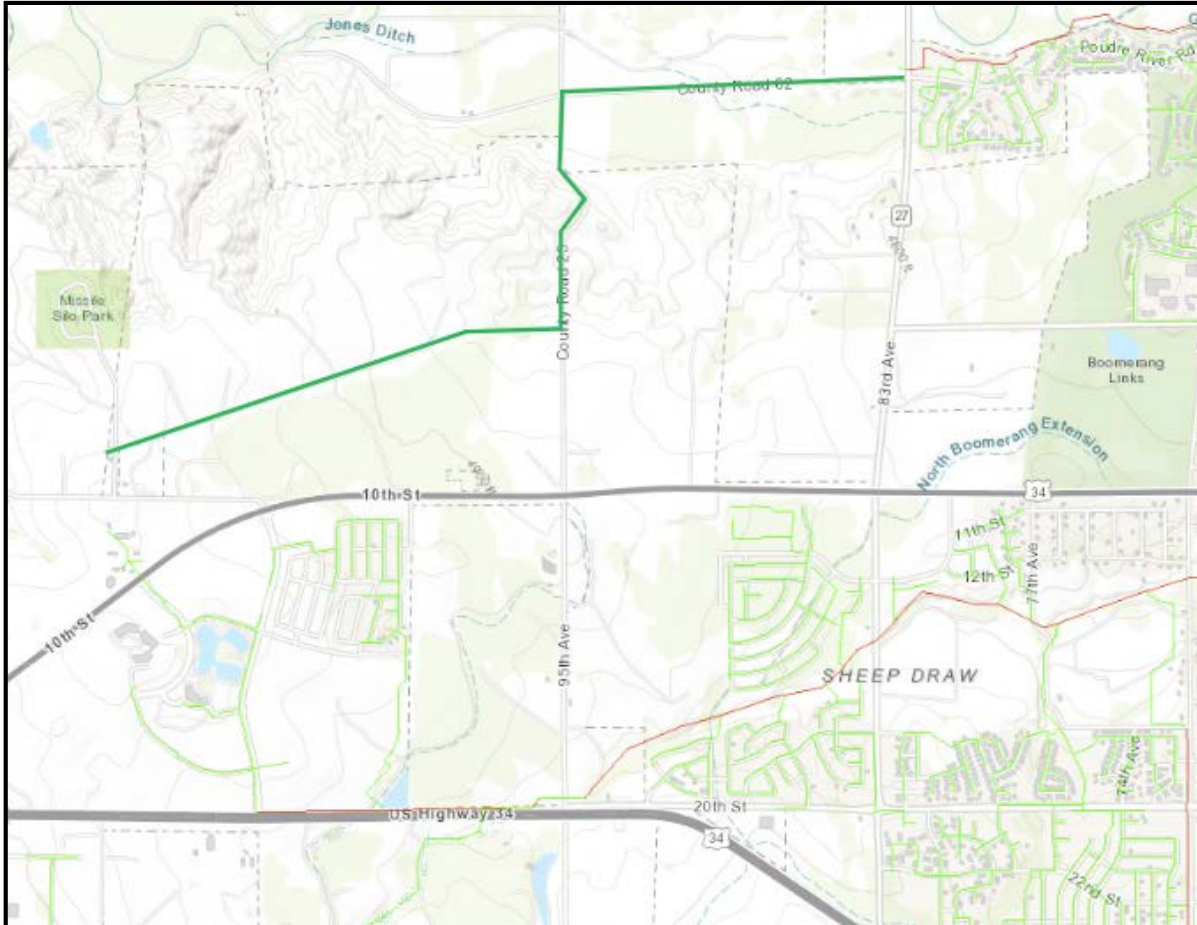


Highlighted Project: Ashcroft Lift station



- 2021 Budget: \$5,500,000
- Multi-Year project started in 2019

Highlighted Project: Poudre Trunk Phase II



Total Project Cost: **\$1,844,260**

Costs are for over-sizing new sewer infrastructure in coordination with incoming developments.



2022 Sewer Replacement/Rehab (Fund 413)

2021 Bonding: \$25,000,000 (2021 funded Nitrification and Primary Treatment Phase II)

Project List	2022 Budget
WTRF Generator Replacement	3,140,000
General Rehabilitation Projects	912,200
Utility Billing Replacement-Sewer	625,000
Trenchless Main and Collector Rehabilitation	420,000
Highland Hills Sewer 47th Ave Capacity	340,000
WWC Sewer System Rehabilitation	250,000
* WTRF Blower Replacement Ph 1B	231,200
Capital Outlay Replacement - Sewer	214,648
Sewer Collection System Rehabilitation	145,000
Wastewater Flow Monitoring Program	115,000
Instrumentation and Controls - Wastewater	75,000
WTRF Stream Temperature Assessment	60,000
12 Projects Total:	\$6,528,048

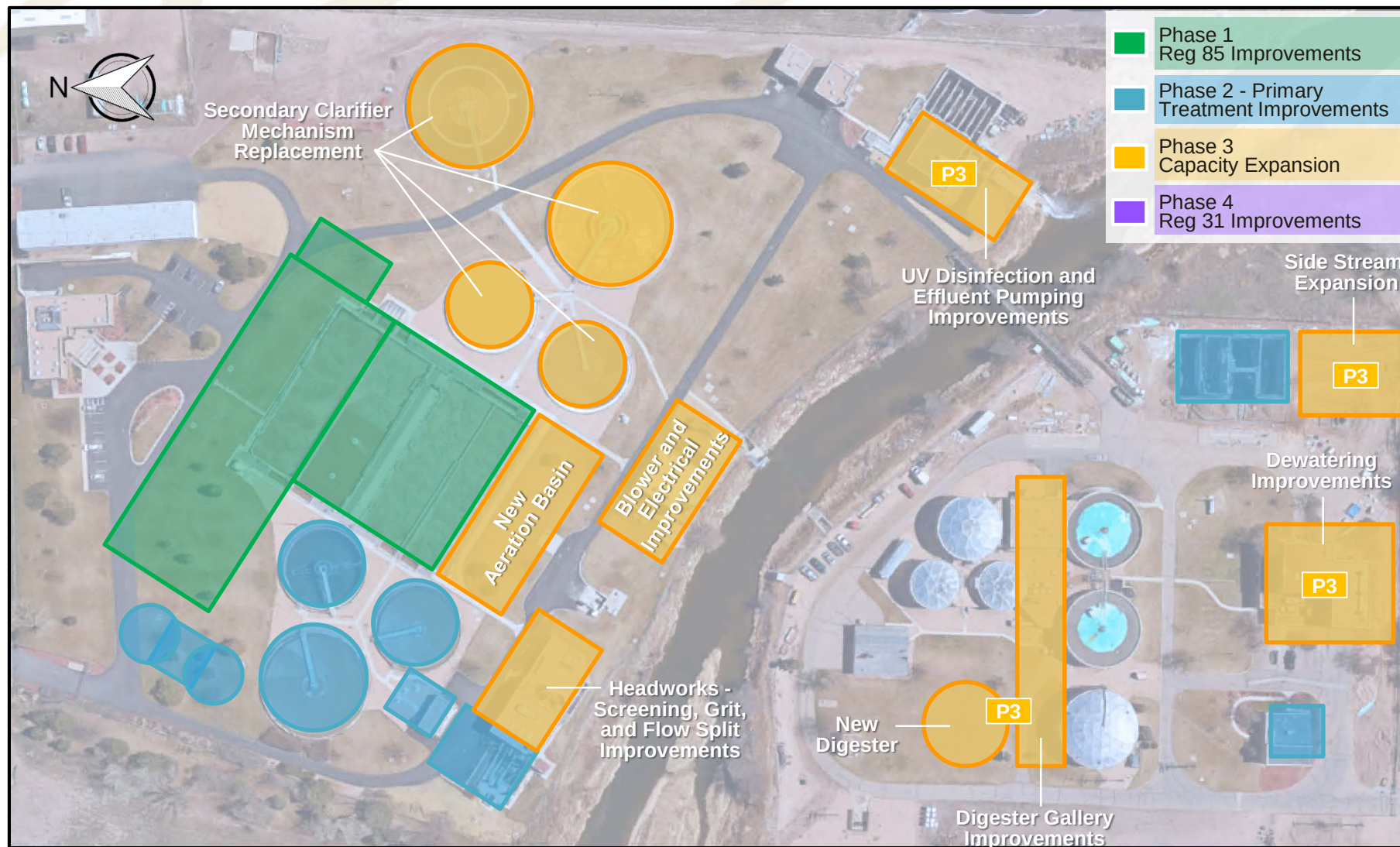
* Project new to CIP

Highlighted Project – Nitrification Phase 2



2021 Budget:
\$34,000,000

Future Years - WTRF Primary Treatment Phase 2/3



Phase 2 project
budget 2023/24:
\$21,000,000

Phase 3 project
budget 2027-2030:
\$75,400,000

Water & Sewer

Operating Funds and Budget Increase Requests



Water Operating Budgets by Division

There are 14 operating divisions within Greeley Water and 87 regular employees

Category	2020 Actual	2021 Revised	2022 Proposed
Water Debt Service Fund	10,864,308	10,886,381	10,925,681
Water General Management Water Administration & Engineering	2,589,927	2,850,524	2,932,423
Water Transmission/Distribution Services and meters, Transmission Reservoirs, Distribution, Non-potable Operations, & Instrumentation and Controls	4,685,589	4,828,617	4,980,203
Water Treatment and Supply Water Resources, Bellvue, High Mountain Reservoirs, Water Conservation, Boyd Lake, Water Quality, Cameron Peak Fire	9,676,271	29,752,424*	11,243,527
Total	27,816,095	48,317,946	30,081,834

* Cameron Peak Fire Mitigation: \$16.8M (~\$15M grant-funded)

Budget Increase Requests – Water

Dept. Rank	Title	PBB	New FTEs	Ongoing	New	2022 Total Cost
1	Bellvue Staffing: Lead (1) & Operators A-B (2), C-D (2)	1	5	YES	YES	\$607,281
2	Civil Engineer II-IV	1	1	YES	YES	\$167,823
3	Utility Asset Management Supervisor	1	1	YES	YES	\$126,154
4	Civil Engineer I-II	1	1	YES	YES	\$123,604
5	Transmission & Distribution Utility Locator	1	1	YES	YES	\$131,285
6	Water Quality Analyst – Boyd Lake	1	1	YES	YES	\$80,096
7	Raw Water Technician-Non Potable	1	1	YES	YES	\$127,408
8	Bellvue Maintenance Mechanic	1	1	YES	YES	\$101,852
9	Water Conservation Specialist Reclass	1	0	YES	YES	\$35,461
10	IT PM Contractor Contingency	1	0	YES*	YES	\$185,000
11	Boyd Operating Budget	1	0	YES	YES	\$140,000
12	Bellvue Operating Budget	1	0	YES	YES	\$214,400
14	Succession, Over-hire, Assessment/Class & Comp	1	0	YES	YES	\$200,000
15	Federal Permits	1	0	YES	YES	\$100,000
16	State and Federal Lobbying	1	0	YES	YES	\$100,000

* Ongoing for the next 2-3 years

CONTINUED →

Budget Increase Requests – Water

Dept. Rank	Title	PBB	New FTEs	Ongoing	New	2022 Total Cost
17	Water Resources Operating Budget	1	0	YES	YES	\$132,000
18	Regional Water StratOp	1	0	YES	YES	\$30,000
19	Leadership Training	1	0	YES*	YES	\$25,000
20	Non-Potable Operating Budget	1	0	YES	YES	\$159,314
21	Water Conservation - Planimetric Data	1	0	NO	YES	\$68,000
22	I&C Operating Budget	1	0	YES	YES	\$61,648
23	Distribution Operating Budget	1	0	YES	YES	\$72,202
24	Water Quality Operating Budget	1	0	YES	YES	\$29,160
25	HMR Operating Budget	1	0	YES	YES	\$33,400
30	Services Meters Operating Budget	1	0	YES	YES	\$64,013
31	Transmission Reservoir	1	0	YES	YES	\$8,625
32	Affordability Pilot Program	1	0	YES	YES	\$50,000
33	Boyd Lake Pontoon boat	1	0	NO	YES	\$25,000
34	Non-Potable Water Tank	1	0	NO	YES	\$44,600
35	Reservoirs 3/4 Ton Truck	1	0	NO	YES	\$45,000
36	I&C Vehicle	1	0	NO	YES	\$34,000
37	Conservation SUV & Trailer	1	0	NO	YES	\$45,000
			12	Total		\$3,367,326

* Ongoing for the next 2-3 years

Budget Increase Requests Water Summary

Category	Request Count	2022 Total Cost
FTE Requests	12	\$1,465,503
Operating Increases	15	\$1,403,223
New Programs	4	\$305,000
Vehicles & Equipment	5	\$193,600
Total	36	\$ 3,367,326

Unranked Requests:

- Two temporary utility locators for the duration of the Allo project to be funded from Allo project fees.
- Asset Management Senior Leader.
- CDL DOT Compliance Coordinator. This is an HR FTE request to be partially funded through WS chargeback.



Sewer Operating Budgets by Division

There are 8 operating divisions within Greeley Sewer and 39 regular employees

Category	2020 Actual	2021 Revised	2022 Proposed
Sewer Debt Service Fund	1,367,958	1,370,244	3,054,237
Sewer General Management Sewer Administration & Engineering	778,804	1,040,624	1,022,624
Sewer Treatment WTRF Operations, Maintenance, Administration, Laboratory & Industrial Pretreatment	3,928,897	4,650,950	4,470,369
Sewer Collection	1,173,541	1,443,376	1,379,473
Total	7,249,200	8,505,194	9,926,703

Budget Increase Requests – Sewer

Dept. Rank	Title	PBB	New FTEs	Ongoing	New Request	2022 Total Cost
13	WTRF Operations Operating Budget	1	0	YES	YES	\$49,370
26	WTRF Maintenance Operating Budget	1	0	YES	YES	\$70,000
27	WTRF Admin Operating Budget	1	0	YES	YES	\$42,000
28	WTRF IPP Operating Budget	1	0	YES	YES	\$25,350
29	WTRF Lab Operating Budget	2	0	YES	YES	\$9,680
Total						\$196,400



Water & Sewer

2022 Draft Rate Adjustments

System-Wide Water: 6%

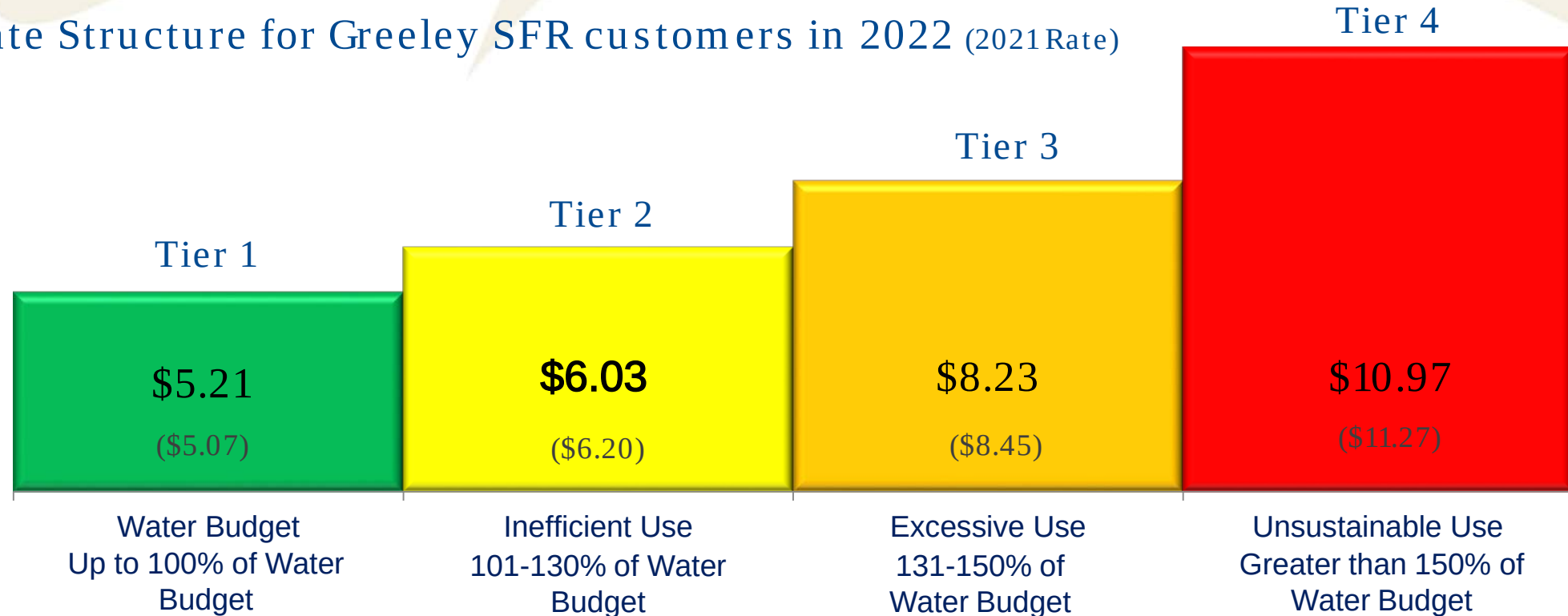
System-Wide Sewer: 18%



TENTATIVE

Residential Water Budget Rate Structure

Rate Structure for Greeley SFR customers in 2022 (2021 Rate)



- Uniform rate is \$5.46 for customers not on water budget (up from \$5.35)
- Monthly service charge is \$17.50 (\$3.10 increase from 2021)

TENTATIVE Water Rate Changes -

Customer Class	Existing Rate/kgal	%Increase	Proposed Rate/ kgal
Inside Residential	Varies	6.0%	Varies
Inside Commercial	\$5.10	8.0%	\$5.45
Inside Industrial	\$3.89	10.0%	\$4.28
Outside Residential	\$12.02	0.0%	\$11.62
Outside Commercial	\$11.92	0.0%	\$11.54
Outside Industrial	\$3.64	3.0%	\$3.75
City of Evans	\$4.56	3.0%	\$4.69
Town of Windsor	\$4.72	6.0%	\$5.00
Town of Milliken	\$6.80	(12%)	\$5.98

TENTATIVE Sewer Rate Changes – Inside City

Customer Class	Existing Rate/kgal	%Increase	Proposed Rate/ kgal
Single Family	\$2.87	18.0%	\$3.45
Multi-Family	\$2.89	19.0%	\$3.46
Commercial 1	\$2.91	19.0%	\$3.48
Commercial 2	\$3.94	22.5%	\$4.85
Commercial 3	\$4.99	24.0%	\$6.21
Commercial 4	\$6.05	25.0%	\$7.58
Commercial 5	\$7.13	25.0%	\$8.97

- Monthly service charge increase from \$12.05 to \$14.00 (+ \$1.95)

TENTATIVE Sewer Rate Changes – Industrial

Customer Class	Existing Rate/kgal	%Increase	Proposed Rate/ kgal
Industrial SIC 2026	\$28.85	0.0%	\$28.85
Industrial SIC 2013	\$19.46	(15%)	\$16.54
Industrial SIC 7218	\$7.23	12.0%	\$8.10
Industrial SIC 2034	\$5.57	(8%)	\$5.12
Industrial SIC 2873	\$24.03	47%	\$35.42
Industrial SIC 4212	\$3.53	(1%)	\$3.46
Industrial SIC 2047	\$12.47	15%	\$14.35
Industrial SIC 5169	\$3.75	(7%)	\$3.47
Industrial SIC 7542	\$5.56	(3%)	\$5.40

TENTATIVE 2022 Monthly Residential Bill Estimate

	Service Charge	Average Volume (kgal)	Volume Charge	Bill Total
Annual Average Water	\$17.50	10.0	\$53.43	\$70.93
Summer Water	\$17.50	21.5	\$122.02	\$139.52
Winter Water	\$17.50	3.9	\$18.74	\$36.24
Sewer	\$14.00	3.9	\$13.46	\$27.46

- 2022 Water Service Charge: \$17.50 (\$3.10 increase from 2021)
- 2022 Sewer Service Charge: \$14.00 (\$1.95 increase from 2021)



TENTATIVE 2022 Monthly Residential Bill Estimate

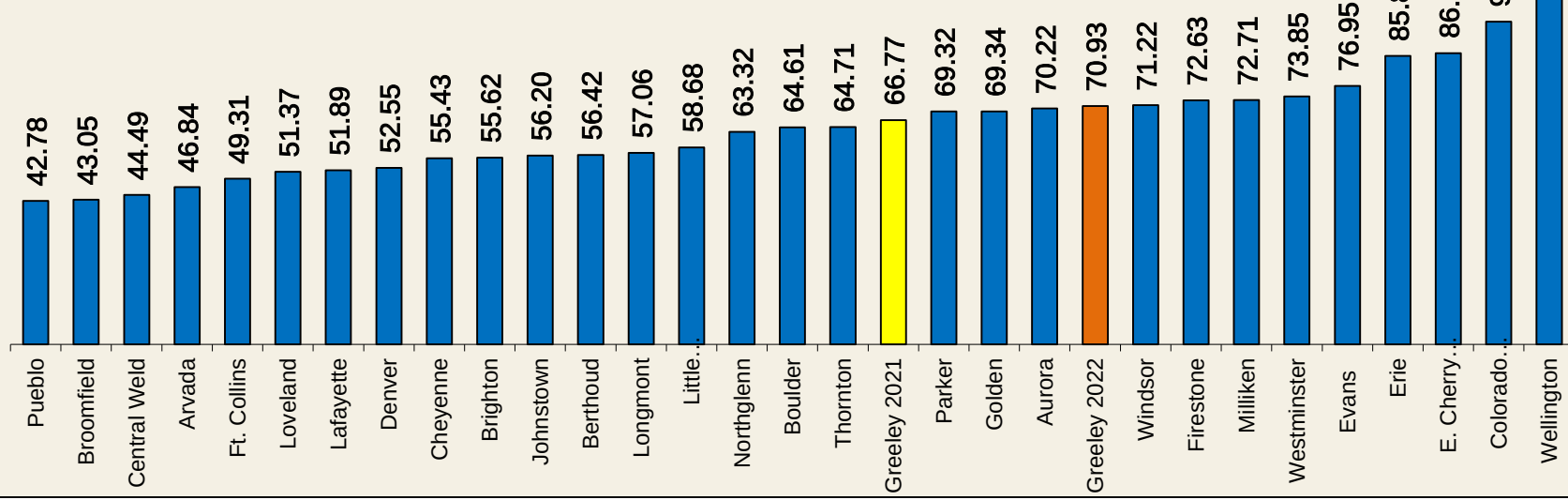
Average Bill	2021	2022	Change
Water	\$66.77	\$70.93	+ \$4.16
Sewer	\$23.24	\$27.46	+ \$4.22
Total W&S	\$90.01	\$98.39	+ \$8.38

Stormwater	\$10.29	\$11.83	+ \$1.54
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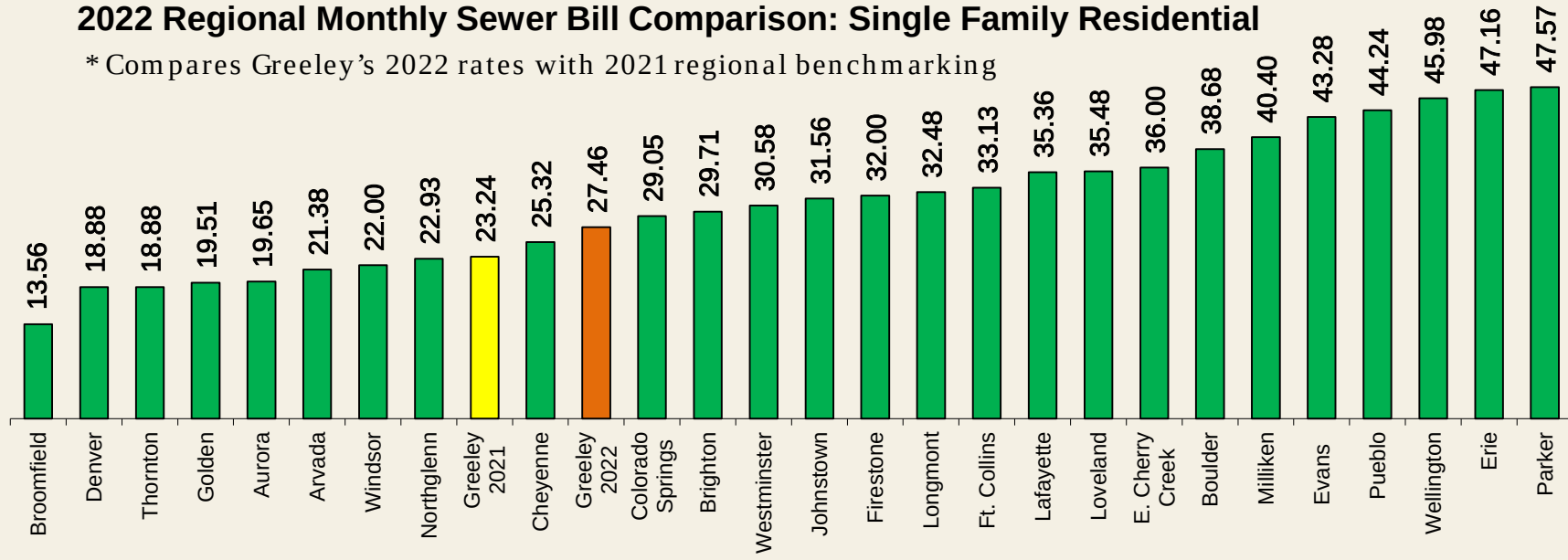
2022 Regional Monthly Water Bill Comparison: Single Family Residential

* Compares Greeley's 2022 rates with 2021 regional benchmarking



2022 Regional Monthly Sewer Bill Comparison: Single Family Residential

* Compares Greeley's 2022 rates with 2021 regional benchmarking



Plant Investment Fees – ¾” Tap

	2021	2022
Water	\$11,200	\$11,200
Sewer	\$6,800	\$6,800
Total	\$18,000	\$18,000

Thank You

July 21, 2021



WATER & SEWER BOARD AGENDA JULY 21, 2021

ENCLOSURE X NO ENCLOSURE

ITEM NUMBER: 9

TITLE: WATER SUPPLY UPDATE

RECOMMENDATION: INFORMATIONAL ONLY

ADDITIONAL INFORMATION:

Staff will provide presentation on the current water supply, weather forecast, and agricultural rental summary.





MEMORANDUM

TO: Sean Chambers, Water and Sewer Director
FROM: Jen Petrzelka, Water Resources Operations Manager
DATE: July 15th, 2021
RE: July 2021 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's goal is maximize rentals, maximize storage and minimize spill by closely monitoring drought conditions, associated hydrologic conditions, and storage levels. Previous modeling analysis has shown that the target storage level needed to provide adequate drought protection for the citizens of Greeley is approximately 21,300 acre-feet. 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 it is adequate to supply the citizens of Greeley.

The Greeley System Storage Analysis excel application is used for projecting the target storage level over a 12-month period. 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 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

Despite entering the 2021 water year with moderate to severe drought conditions, spring in Northern Colorado experienced average temperatures and precipitation with the South Platte snowpack reaching 102 % of average. The snowpack melted out around June 10. Cumulative precipitation as of July 9th in Greeley is above the 1997-2020 historical average by 2 inches at a total of 9.51 inches.

The monsoon season has begun bringing ash and sediment into the Poudre River from the Cameron Peak fire burn area. Thus far, fire impacts to the Poudre River water quality have caused Bellvue to shut off its diversion from the river 9 days which equates to approximately 223 acre-feet. However, due to an agreement that was entered into with the North Poudre Irrigation Company (NPIC), Greeley has been able to continue treating water during these times of low water quality. In exchange for CBT that NPIC owns in Horsetooth Reservoir, and can be directly delivered to the Bellvue Water treatment plant, Greeley's sends their Poudre river direct flow water rights to

SERVING OUR COMMUNITY • IT'S A TRADITION

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

NPIC. This allows Greeley to avoid water quality impacts and NPIC to receive the water they need for irrigation.

Reservoirs are in good shape with the Colorado and South Platte rivers at 94% and 109% of average, respectively. The Colorado SWSI¹ report for June showed the South Platte Basin at slightly above normal supply levels (0.6).

Greeley's High Mountain Reservoir (HMR) system yielded over 2,600 acre-feet of supply which is lower than historically because we did not fill Comanche or Hourglass reservoirs due to concerns about sedimentation from the Cameron Peak fire burn area surrounding these reservoirs. Most of this water was rented out to agriculture.

As of July 1, there is approximately 17,000 acre-feet of storage attributable to Greeley's unleased, changed ownership in the Greeley Loveland System (GLIC). Given the reservoirs are at 95% of capacity, it is likely some of these supplies will spill in the spring of 2022. Northern water was able to pump some Windy Gap this year. Greeley's portion was 892 acre-feet and staff has had to collateralize 2,919 acre-feet of our Colorado Big Thompson (C-BT) supplies to meet our Windy Gap demands.

Through July 8, staff has rented approximately 25,796 acre-feet of water to agriculture. The Greeley System Storage Analysis table shows the April 2021 storage level will be approximately 21,436 acre-feet.

While our current water supplies are in good condition, forecasts are predicting above average temperatures, below average precipitation and below average precipitation through September. Staff will continue to monitor weather and water supply closely.

RECOMMENDATION

Projected storage remains above the 21,300 acre-feet target storage level; therefore, the Adequate Water Year conditions declared in April 2021 remain valid.

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.

April 1, 2021 Storage (acre-feet)	
CBT	18,835
Windy Gap	0
GLIC	16,355
HMR	425
Seaman	2,008
Total	37,623
Demands (April 1, 2021-April 1, 2022) (acre-feet)	
CBT	19,374
CBT carryover	6,127
Windy Gap (collateralized)	2,919
Windy Gap (pumped)	892
GLIC	8,616
Seaman	1,423
HMRs	1,993
GLIC carryover/spill	5,000
Total	46,344
Yields through April 2022 (acre-feet)	
CBT (Nov. 2022-April 1, 2022)	11,406
Windy Gap	892
GLIC	14,759
HMRs	2,000
Seaman	1,100
Total	30,157
April 2022 Storage	21,436
Target Storage Volume	21,300



Water Supply Update

July 21, 2021

Water & Sewer Board



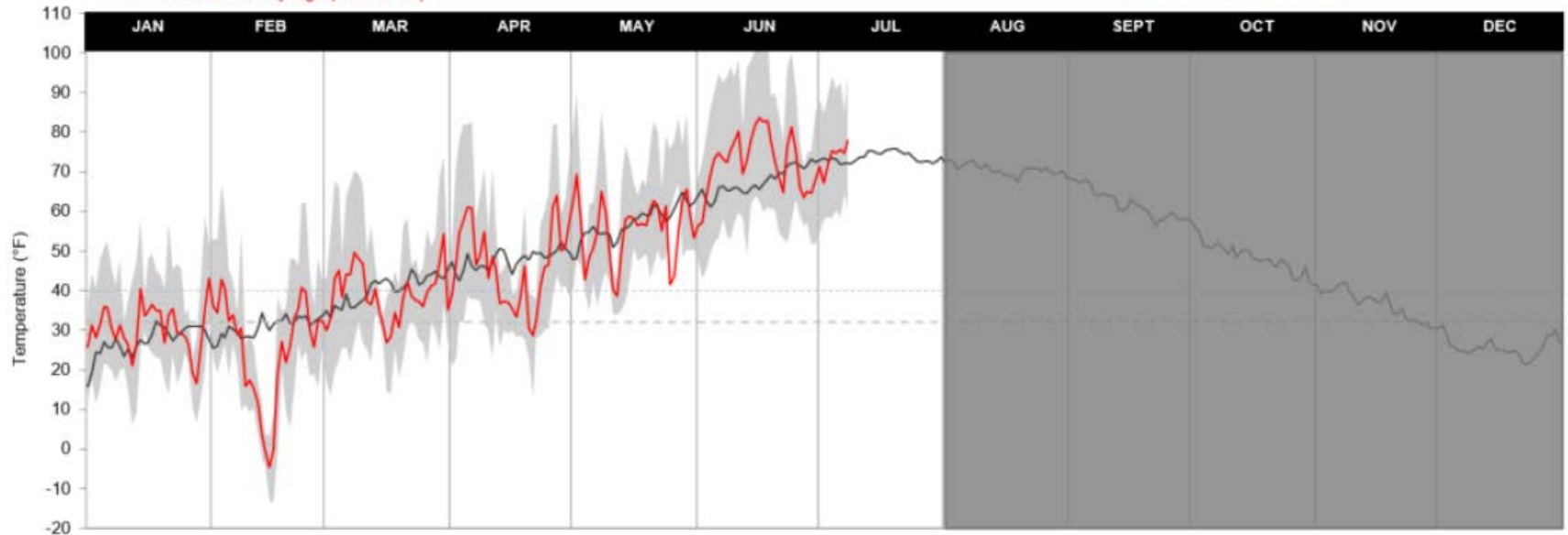
Temperature & Precipitation

City of Greeley: Temperature (°F) and Precipitation 1997-2021

- 1997-2020 Average Temperature
- 2021 Average Daily Temperature
- 2021 Daily Temperature Range
- R** Record monthly high (1997-2020)



Greeley West station (224)
Source: northernwater.org

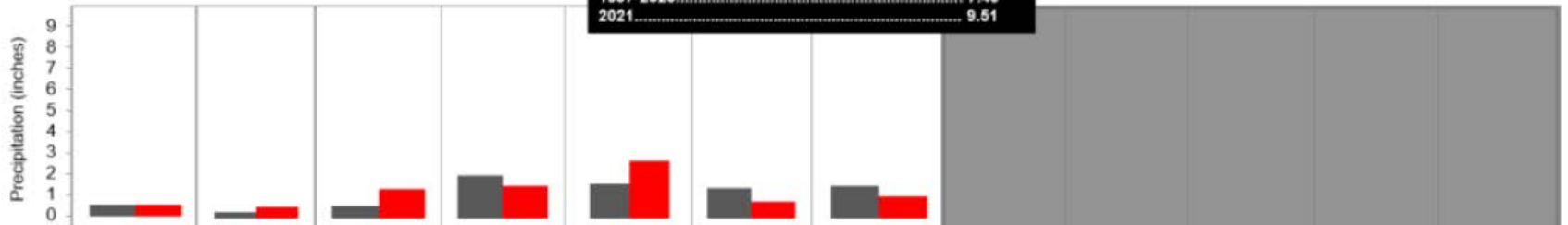


MONTHLY AVERAGE TEMPERATURE (°F)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
1997-2020	27.1	30.8	40.4	47.8	57.0	67.5	73.7	70.6	62.1	48.6	36.6	25.8
2021	30.5	25.1	39.1	46.0	55.4	72.3	73.6	0.0	0.0	0.0	0.0	0.0

CUMULATIVE PRECIPITATION TO DATE (INCHES)

1997-2020.....	7.49
2021.....	9.51



July 2021 Snowpack Summary

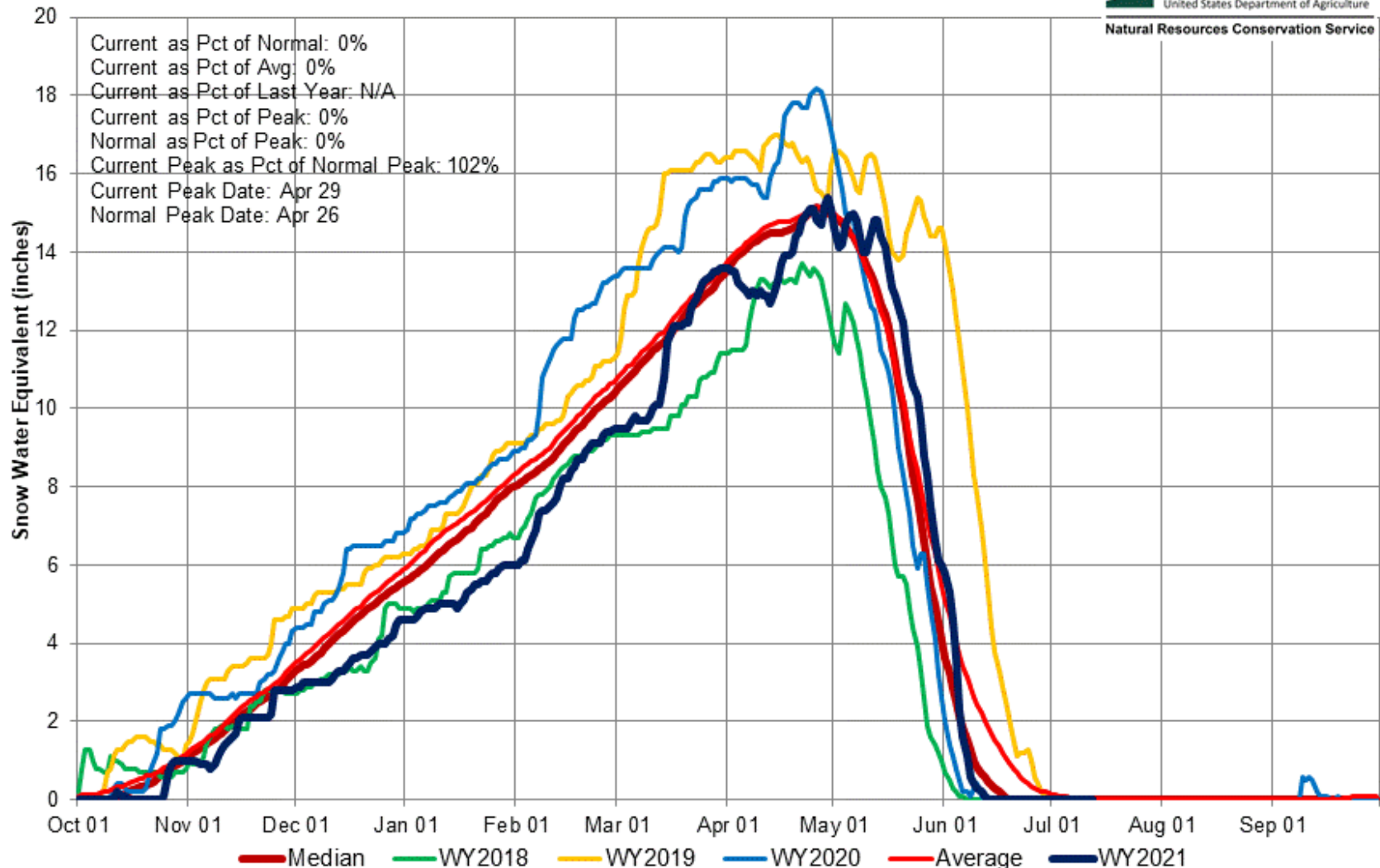
South Platte River Basin Time Series Snowpack Summary

Based on Provisional SNOTEL data as of Jul 12, 2021



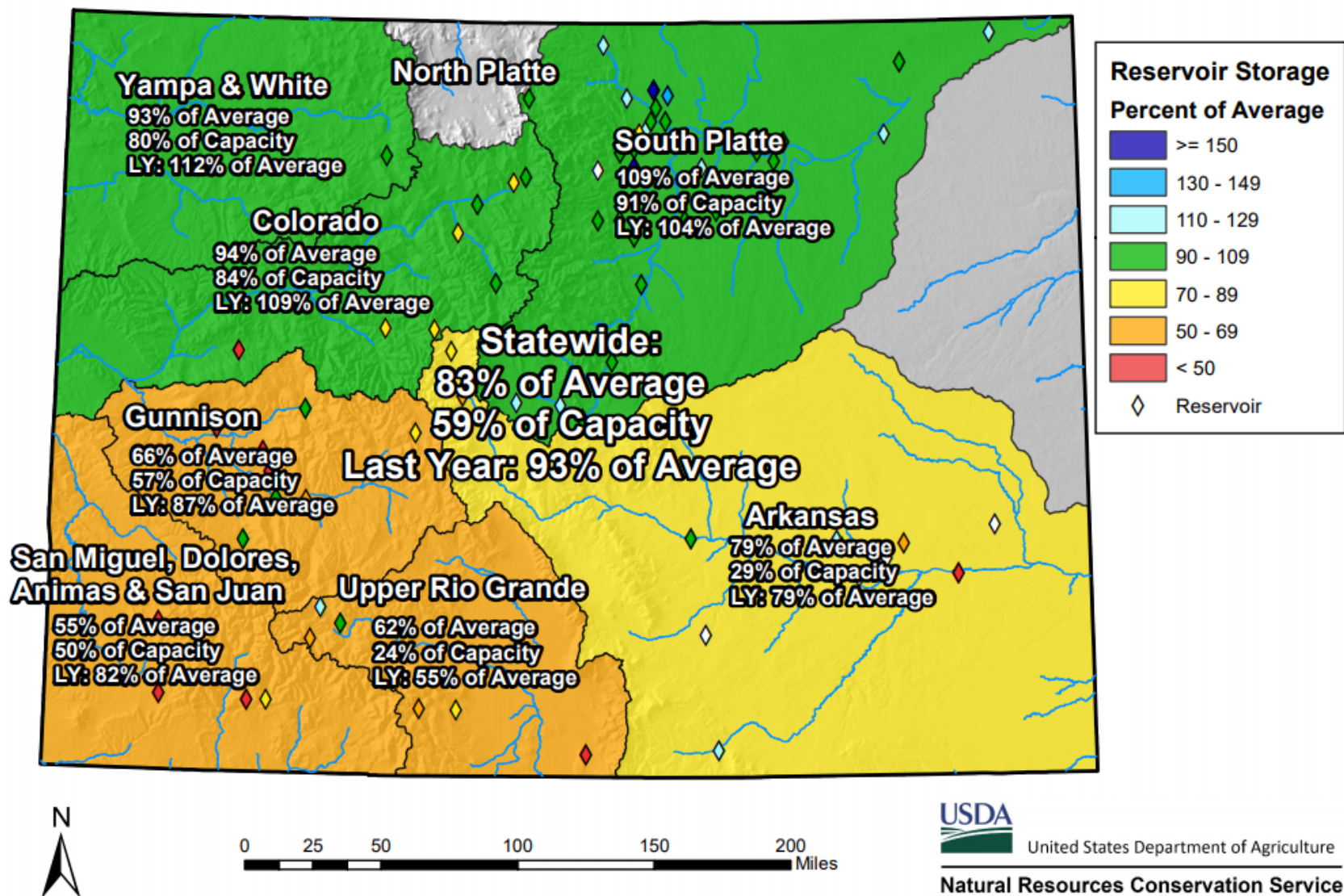
United States Department of Agriculture

Natural Resources Conservation Service



Colorado Monthly Reservoir Storage Summary

End of June 2021



Lake Loveland

Horseshoe

Boyd Lake

GH: 40

12,249 AF

GH: 26.4

7,796 AF

GH: 54.8

96%

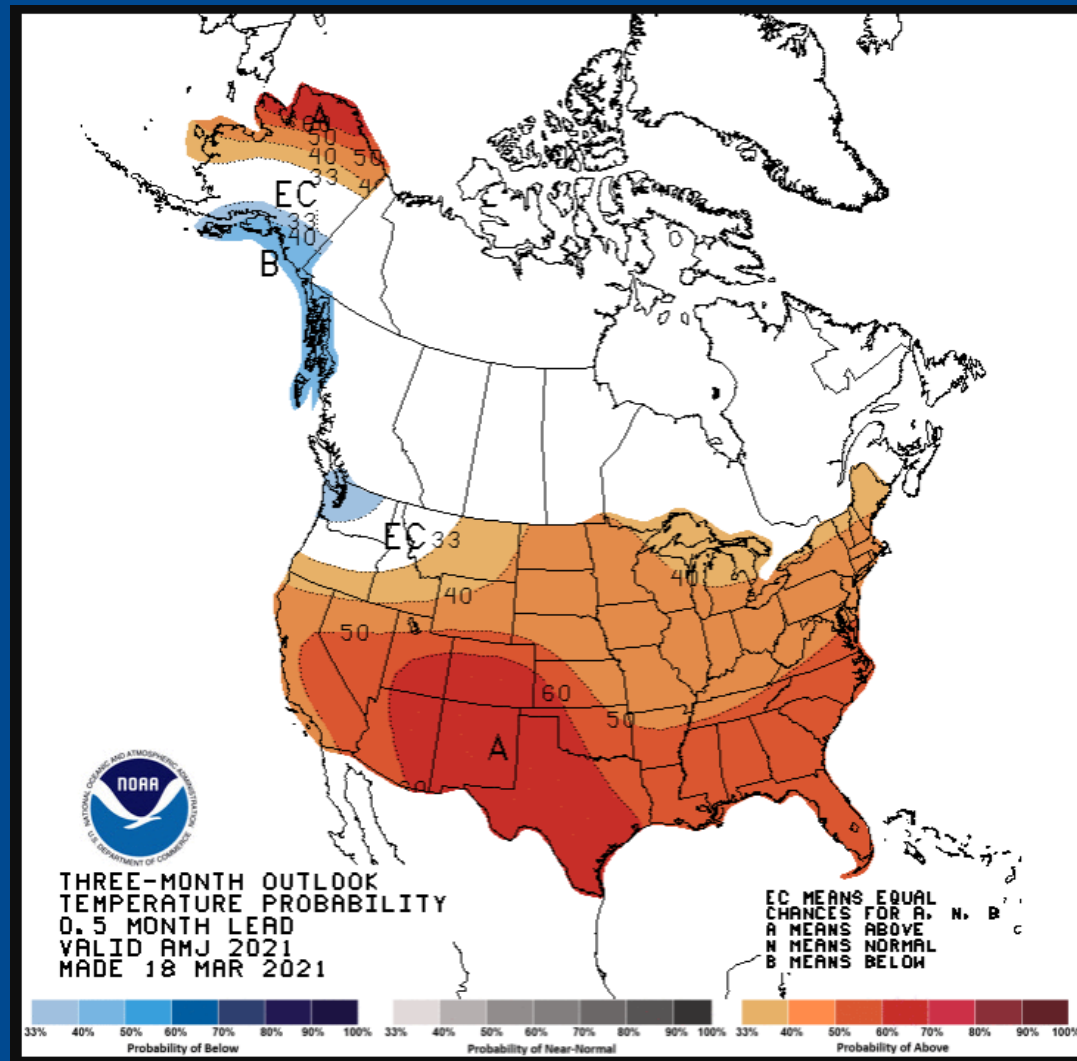
100%

93%

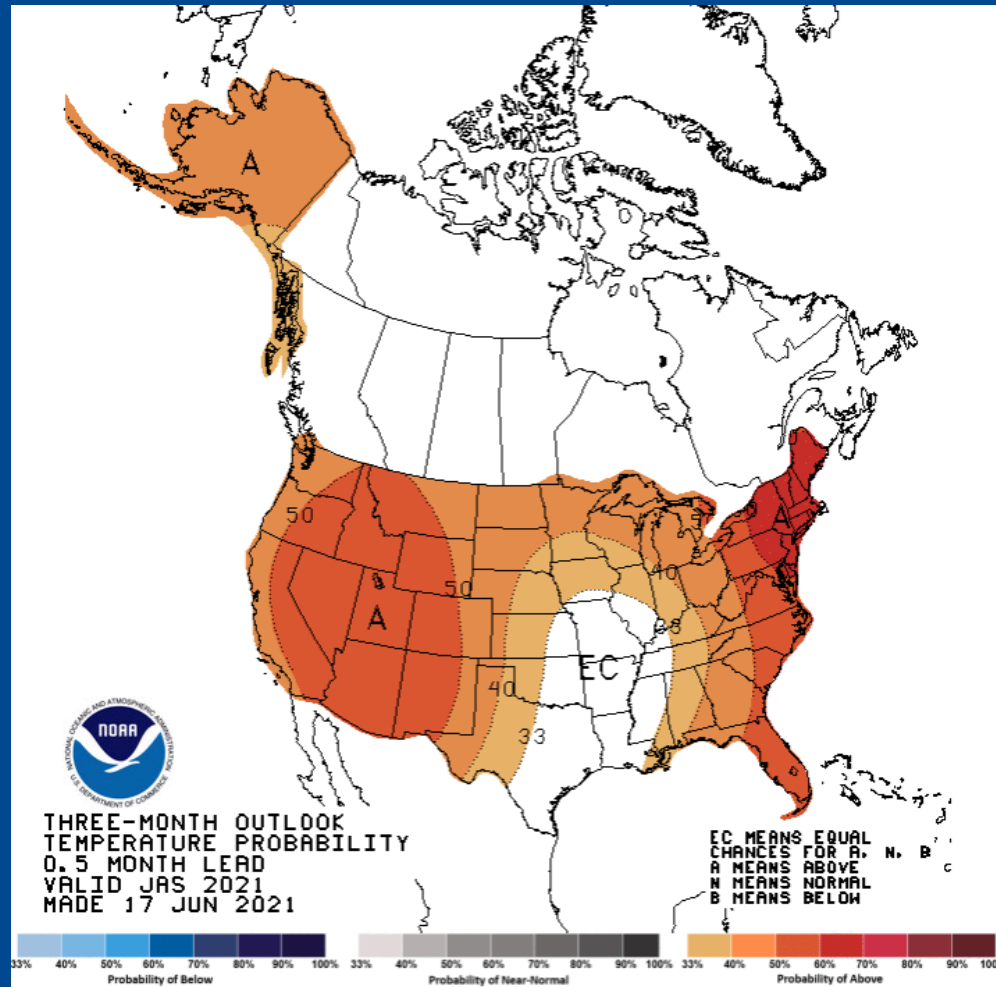
Total in the system: 65,681 AF 95%



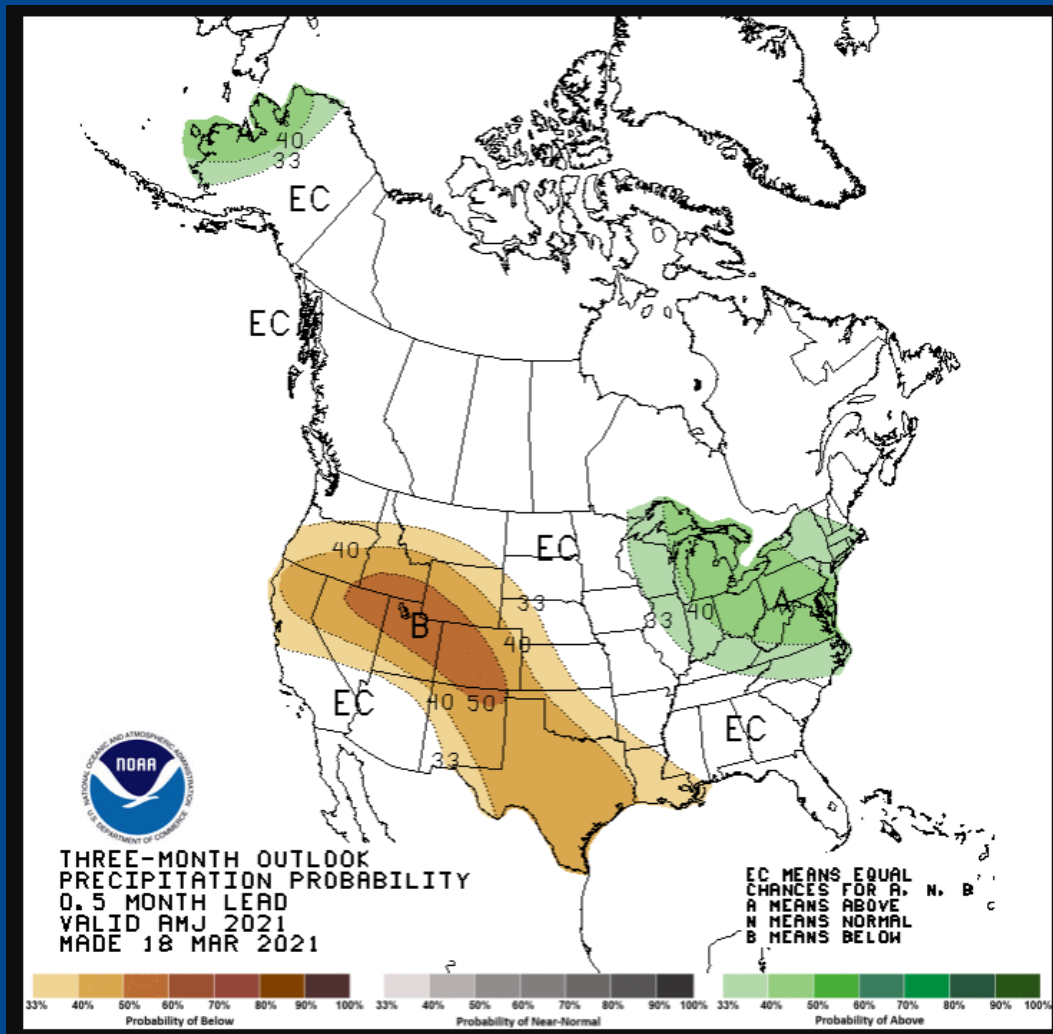
3-month Temperature Projections (April-June)



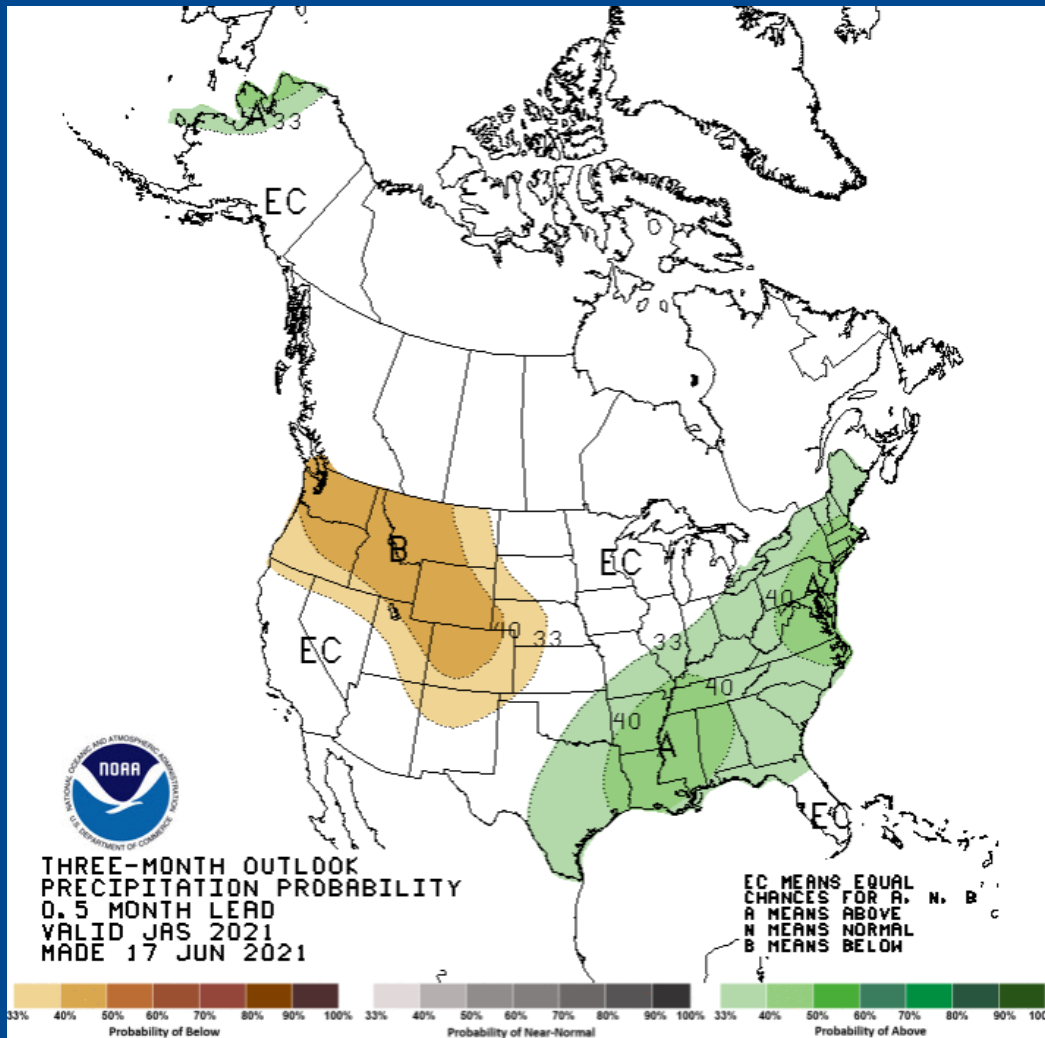
3-month Temperature Projections (July to September)



3-month Precipitation Projections (April to June)



3-month Precipitation Projections (July to September)



Rental Summary

• C-BT	6,199 AF
• GLIC Changed	1,015 AF
• GLIC Unchanged	3,218 AF
• WSSC	517 AF
• NPIC	207 AF
• HMR	900 AF
• Leasebacks	
• WSSC	1,808 AF
• GLIC	8,245 AF
• L&W	2,874 AF
• New Cache	813 AF
	25,796 AF



Current Target Storage (April 2022)

April 1, 2021 Storage (acre-feet)	
CBT	18,835
Windy Gap	0
GLIC	16,355
HMR	425
Seaman	2,008
Total	37,623
Demands (April 1, 2021-April 1, 2022) (acre-feet)	
CBT	19,374
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HMRs	2,000
Seaman	1,100
Total	30,157
April 2022 Storage	21,436
Target Storage Volume	21,300



Fire impacts & water supply

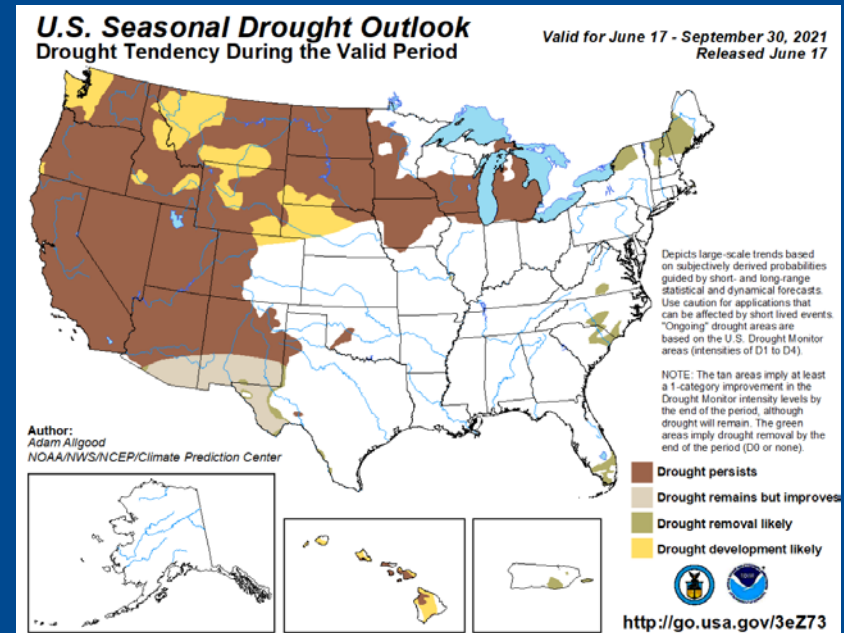
- 9 days off diversion (~223 AF)
- Agreement with NPIC & Northern to operate trade
- So far, successful



Photo 3. Sediment, ash & debris from stream overtopping HWY 14 on June 25, 2021

Moving into Fall

- “Adequate Water Year” continue
- Maintain target storage volume at 21,300 AF
- Northeastern Colorado is drought free
- Drought persists on the West slope and CBT system
- Condition to monitor fire impacts





WATER & SEWER BOARD AGENDA JULY 21, 2021

ENCLOSURE X NO ENCLOSURE

ITEM NUMBER: 10

TITLE: 2ND QUARTER WATER COURT UPDATE

RECOMMENDATION: INFORMATIONAL ONLY

ADDITIONAL INFORMATION:





Water & Sewer Department

MEMORANDUM

TO: Greeley Water & Sewer Board
FROM: Leah Hubbard, Water Resources Administrator I
DATE: July 21, 2021
RE: 2nd Quarter Water Court Cases Update

This memorandum is a review of the Water and Sewer Department's legal activities from April of 2021 through June of 2021. 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 zero statements of opposition and stipulated in zero cases. Therefore, the current number of pending Water Court cases in which Greeley is an opposer is 32.

Statements of Opposition filed:

Case	Applicant
None	-

Stipulations filed:

Case	Applicant
None	-

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GREELEY AS APPLICANT

A summary of pending Water Court cases in which Greeley is the applicant is as follows:

19CW3191 (Equalizer diligence, Case No. 05CW326)

On September 30, 2019, Greeley filed its application for a finding of reasonable diligence for conditional surface rights and right of exchange, including storage, of its Lower Equalizer rights decreed in Case No. 05CW326. No absolute claims are being made in this application and all rights remain conditional. No statements of opposition were filed, however, the Greeley Irrigation Company (GIC) filed a motion to intervene which was granted by the court. Greeley resolved GIC's comments and a final decree was entered in this case on June 3rd, 2021.

19CW3239 (Overland Ponds Diligence, Case No. 00CW251)

On December 20th, 2019, Greeley and the Tri-Districts jointly filed this application for a finding of reasonable diligence to make a conditional water right partially absolute. This application concerns the conditional water storage right and conditional appropriative rights of exchanges decreed in Case No. 00CW251. In this application, Greeley and the Tri-Districts are claiming 6.22 cfs diversion rate and 257.3 acre-feet of storage absolute. Seven statements of opposition were filed. After an initial round of comments, five opposing parties remained. Greeley and the Tri-Districts have now settled with all parties. The final decree will be filed soon.

20CW3004 (GLIC Exchange Diligence, Case No. 87CW329)

On January 28th, 2020, Greeley filed its application for a finding of reasonable diligence for the conditional appropriative right of exchange originally decreed in Case No. 87CW329. Under this exchange, Greeley may divert excess municipal return flows from GLIC, Seven Lakes, and Lake Loveland water rights changed in Case No. 87CW329 released from Greeley's WTRF and the Lone Tree wastewater treatment plant by exchange to the headgates of the ditch companies. Statements of opposition were filed by the Cache la Poudre Water Users Association and the Ogilvy Irrigating and Land Company. Greeley worked with both opposers to address their concerns and they filed their stipulations on June 15th, 2021. A final decree should be entered soon.

20CW3149 (GLIC Diligence, Case No. 99CW235)

On October 26th, 2020 Greeley filed this application for a finding of reasonable diligence for a conditional exchange originally decreed in Case No. 99CW235. The exchange provides for the use of return flows from certain water rights in Case 99CW235 as a substitute supply for diversions at the headgates of the Greeley-Loveland Irrigation Company. No absolute claim was made in this application, and the right will remain conditional. One statement of opposition was filed in this case by the Big Thompson Water Users Association. The opposer has no additional comments in this case but no stipulation has been filed at this point.

20CW3174 (WSSC Exchange Diligence, Case No. 07CW190)

On November 25th, 2020, Greeley filed this application for a finding of reasonable diligence for several conditional appropriative rights of substitution and exchange previously decreed for Greeley in Case No. 07CW190. Statements of opposition were filed by the City of Fort Collins

and the McMurry Trust. Both parties stipulated quickly, and an Unopposed Motion for Entry of Final Decree was submitted on July 1st, 2021. The final decree will be filed soon.

21CW3003 (GLIC Exchange Diligence, Case No. 95CW42)

On January 27th, 2021, Greeley filed its application for a finding of reasonable diligence for the conditional appropriative right of exchange originally decreed in Case No. 95CW42. Under this exchange, Greeley may divert excess municipal return flows from GLIC, Seven Lakes, and Lake Loveland water rights changed in Case No. 95CW42 released from Greeley's WTRF and the Lone Tree wastewater treatment plant by exchange to the headgates of the ditch companies. Three parties filed statements of opposition; Cache La Poudre Water Users Association, Ogilvy Irrigation and Land Company, and Thompson Water Users Association. An upcoming status conference is scheduled for August 26th, 2021.

21CW3056 (CWCB et al., Poudre River Instream Flows Augmentation)

On May 3rd, 2021, the Colorado Water Conservation Board (CWCB), City of Fort Collins, City of Thornton, and the City of Greeley filed its application for a plan of augmentation for instream flows in the Poudre River. The purpose of the plan is to preserve and improve the natural environment downstream of the Cache la Poudre Canyon Mouth near Fort Collins to the confluence of the South Platte River. The Memorandum of Agreement for this project was approved in January, 2020, by the Water and Sewer Board, and was signed by City Manager Otto on February 8th, 2020. Nineteen statements of opposition have been filed, no further deadlines have been set.

LEGAL & ENGINEERING EXPENSES:

The Water Resource Division's outside legal and engineering expenses from January through June of 2021 totaled \$222,630, which is 35% of the total \$645,069 spent in 2020. See table on following page.

2021 Water Resources Legal and Engineering Costs

<u>1st quarter</u>	
Legal	\$34,979
Engineering	\$26,524
<i>Total</i>	<i>\$61,503</i>
<u>2nd quarter</u>	
Legal	\$91,445
Engineering	\$69,682
<i>Total</i>	<i>\$161,127</i>
<u>3rd quarter</u>	
Legal	\$0
Engineering	\$0
<i>Total</i>	<i>\$0</i>
<u>4th quarter</u>	
Legal	\$0
Engineering	\$0
<i>Total</i>	<i>\$0</i>
<i>Annual Total</i>	<i>\$222,630</i>

2nd Quarter Water Court Cases Update

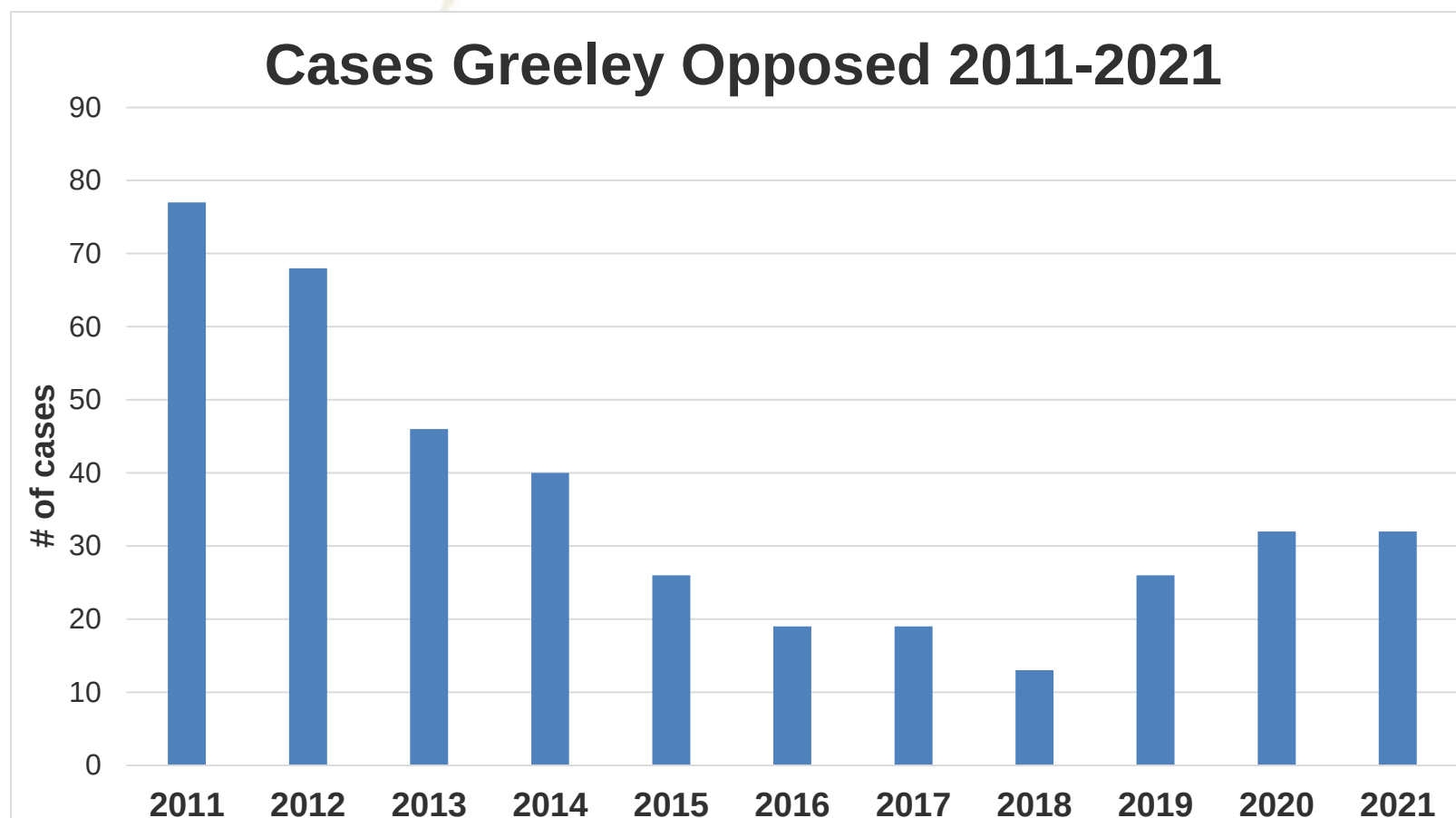


Leah Hubbard, Water Resources Administrator I
July 21st, 2021



Statements of Opposition

- Since April, no SOO were file and there were no stipulations
- Number of cases Greeley is currently an opposer: **32**



Greeley as Applicant

Lower Equalizer Diligence (19CW3191)

- Conditional surface rights, storage rights and exchange rights
- Not seeking absolute claims in this application
- 1 Opposer (GIC)
- Final decree was entered June 3rd , 2021



Greeley as Applicant

Overland Ponds Diligence (19CW3239)

- Filed application December 31st
- Conditional storage rights and exchange rights
- Seeking absolute claims for:
 - 18.6 cfs diversion rate
 - 283.58 acre-feet storage
- 7 statements of opposition were filed
- Received comments on initial proposed decree
- Provided comments end of August
- **Settlement has been reached with all parties and final decree should be filed soon**



Greeley as Applicant

GLIC Exchange Diligence for Case No. 87CW329 (20CW3004)

- Filed application January 28th
- Finding of reasonable diligence toward the conditional appropriative right of exchange originally decreed in Case No. 87CW3294
- Exchange of effluent from Greeley's WWTP and Lone Tree WWTP to the GLIC system
- No absolute claims
- 2 statements of opposition were filed
- Exchanged 2 round of comments
- **Both opposers to stipulate out of this case soon.**



Greeley as Applicant

GLIC Diligence for Case No. 99CW235 (20CW3149)

- Filed application on October 26th, 2020
- Finding of reasonable diligence toward the conditional appropriative right of exchange originally decreed in Case No. 99CW235
- No absolute claims
- 1 statements of opposition
- Stipulated December 2020
- **Final decree entered**

Greeley as Applicant

WSSC Exchange Diligence for Case No. 07CW190 (20CW3174)

- Filed application on November 25th, 2020
- Finding of reasonable diligence toward the conditional appropriative rights of exchange originally decreed in Case No. 07CW190
- 2 Opposers filed SOO
- No major issues
- Motion for entry of final decree was submitted July 1st

Greeley as Applicant

Poudre Instream Flows Augmentation Plan (21CW3056)

- Co-Applicants with CWCB, Fort Collins, and Thornton
- Filed application on May 3rd
- Application for a plan of augmentation for instream flows in the Poudre River
- Preserve and improve the natural environment from Canyon Mouth to confluence with the South Platte
- 19 SOO of opposition have been filed
- No deadlines have been set at this time



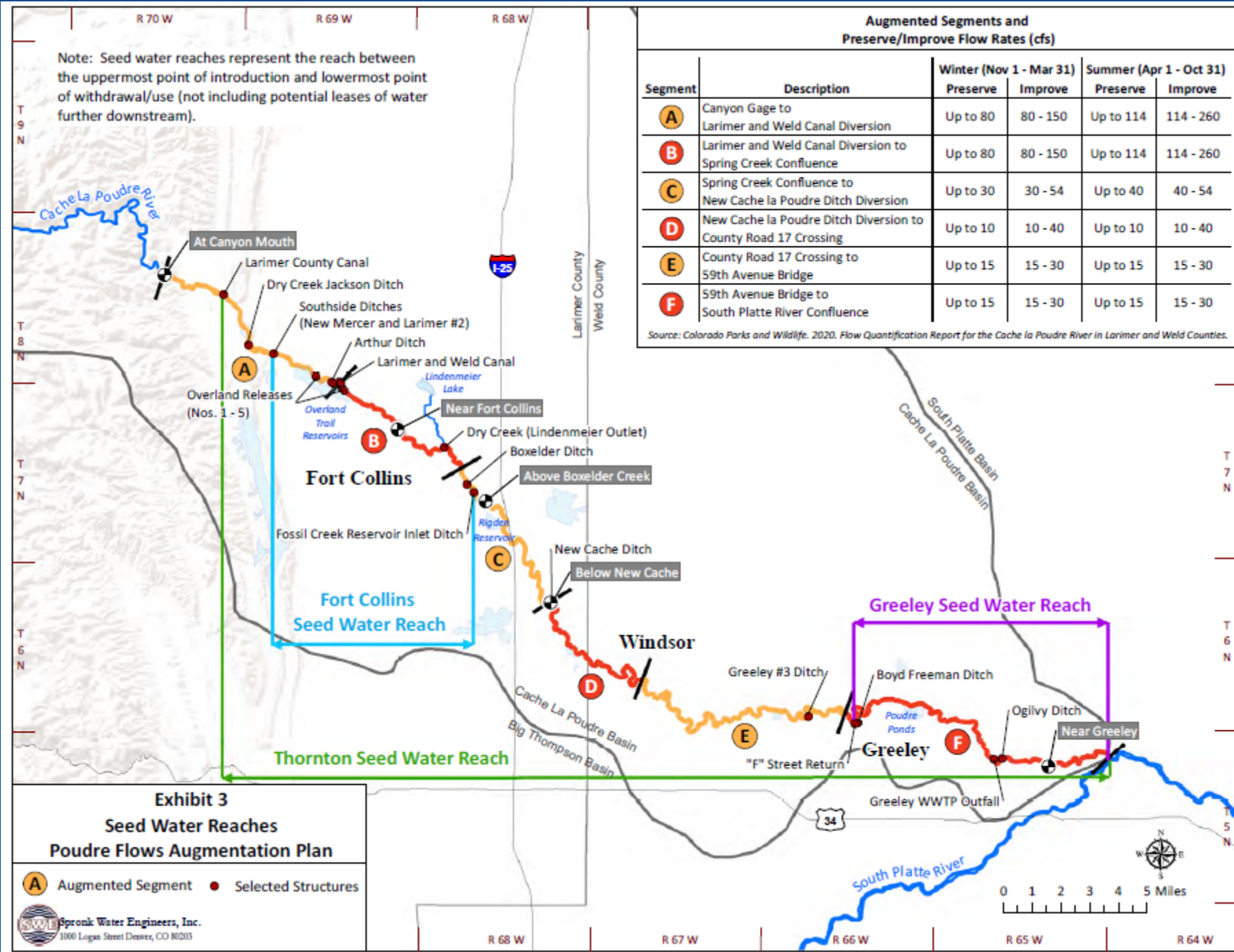


Exhibit 3
Seed Water Reaches
Poudre Flows Augmentation Plan

A Augmented Segment **.** Selected Structures

Greeley Irrigation Co.

- 1870, 1871, 1872, and 1873 priorities
- Historically diverted at the GIC headgate
- Proposed use in plan:
 - Released from F-Street return at the beginning of Segment F
 - Continues to flow through Segment F until the reach terminus where the rights will be used to meet RFO's and/or augmentation obligations at the confluence of the Poudre and South Platte rivers



Legal & Engineering Expenses

2021 Costs to date

Legal	\$ 126,424
Engineering	\$ 96,206
Total	\$ 222,630

This is 35% of the \$645,069 spent in 2020





Questions?



WATER & SEWER BOARD AGENDA JULY 21, 2021

ENCLOSURE X NO ENCLOSURE

ITEM NUMBER: 11

TITLE: APPROVE RESOLUTION IN RECOGNITION OF
ROBERT RUYLE'S SERVICE TO THE
GREELEY COMMUNITY THROUGH
DECADES OF CONTINUOUS SERVICE AND
APPOINTMENT AS AN EMERITUS BOARD
MEMBER TO THE GREELEY WATER &
SEWER BOARD

RECOMMENDATION: APPROVE RESOLUTION

ADDITIONAL INFORMATION:

Mr. Ruyle's generous contributions of time, judgement, wisdom, and insight, over the last 46 years, have been of incalculable value to the City, to the Board and the Water and Sewer Department. His service and generosity has also extended into many other areas in community and have been equally valuable. Mr. Ruyle is one of those rare individuals who truly have made difference in the life of their community. He will be missed.



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

RESOLUTION _____, 2021

**A RESOLUTION OF APPRECIATION TO ROBERT A. RUYLE FOR YEARS OF SERVICE
TO THE WATER AND SEWER DEPARTMENT, WATER AND SEWER BOARD, AND THE CITIZENS OF
THE CITY OF GREELEY**

WHEREAS, Mr. Robert A. Ruyle has served on the Water and Sewer Board since January 1975; during the course of his service, the city's population has grown from 39,000 residents in 1975 to approximately 111,00 residents today; and

WHEREAS, Mr. Ruyle regularly provided guidance and expertise at monthly Board meetings contributing to numerous strategic water and sewer decisions in the areas of water rights and supplies, water storage, water treatment, and transmission, master planning efforts, non-potable water systems and water conservation, sewer collection and wastewater treatment, natural disasters, and system performance awards; and

WHEREAS, Mr. Ruyle has demonstrated an unwavering passion for promoting and protecting the city's water utility assets and the role and responsibilities of the Water and Sewer Board under the City's charter; and

WHEREAS, under Mr. Ruyle's tenure the Greeley Water System has grown to encompass four river basins, two water treatment plants, six mountain water storage reservoirs, 155 miles of transmission pipelines, 470 miles of distribution mains, and 75 million gallons of treated water storage. It is a modern, robust, and redundant system that is looked up to by the Colorado water community. The Water Pollution Control Facility is a state of the art plant that meets or exceeds all discharge requirements; and

WHEREAS, during Mr. Ruyle's tenure Greeley's water rights portfolio has continued to expand and to be protected from outside challenges; significant additions have included the Windy Gap Project, the 1990 GLIC and CBT water purchase, a 1/6th interest in the Laramie Poudre Tunnel, acquisition of shares in the Water Supply and Storage Company, the New Cache Irrigation Company, and the Larimer and Weld Irrigation Company, the Leprino Produced Water Decree and the Terry Ranch Aquifer Storage and Recovery Project. Protection of Greeley's water rights included the Federal Reserved Water Rights case, the resolution of the U.S. Forest Service By-Pass Flow claim and the establishment of the Joint Operations Plan on the Poudre River, the Wild and Scenic Designation on the Poudre River, and the creation on the Cache la Poudre Natural Heritage Area; and

WHEREAS, in the Policy Area the establishment of the Industrial Water Bank and the transition from raw water dedication to cash-in-lieu to meet water dedication requirements are notable. During the term of Mr. Ruyle's service, a number of data driven policy refinements have occurred that refine the yield per share of dedicated water; and development code policy updates to raw water dedication requirements for single family residential development, for commercial and multifamily development,

and to the policy that allows development to buy water from the city in lieu of dedication, known as the cash-in-lieu of raw water dedication policy; and

WHEREAS, during Mr. Ruyle's tenure Greeley's raw water storage capacity was upgraded and added to by, the Seaman Reservoir Spillway Replacement, the rehabilitation of the High Mountain Reservoirs, the multi-year permitting effort to enlarge Seaman Reservoir, the construction of the Poudre Ponds for non-portable storage, the development of the Taft Hill Gravel Pits, the aquifer storage associated with the Terry Ranch project, and the final approval for the Construction of the Chimney Hollow Reservoir as part of the Windy Gap Firing Project; and

WHEREAS, during Mr. Ruyle's tenure there were major additions to the Water Treatment, Transmission, Distribution, and Treated Water Storage capital infrastructure, these additions included, the 15 million gallon Gold Hill Reservoir and a second 5 million gallon tank, the Pleasant Valley Pipeline, expansion of the Bellvue plant in the 1990's, thereafter investing in more than \$75 million from 2017-2021, expansions and updates to the Boyd Lake Plant, the Zone 4 Pressure Zone to serve the Promontory development, a new 60 inch transmission main from Bellvue to Gold Hill, a new 20 MGD Treatment Train at Bellvue; and

WHEREAS, during Mr. Ruyle's tenure there was significant long range planning happening including the 2003 Water Master Plan, 2004 Non-Potable Master Plan, the 2019 Wastewater Master Plan, the 2021 Wastewater Collection Plan, Water Distribution Plan and the Updated Non-Potable Plan, initiating an integrated water resource plan; and

WHEREAS, during Mr. Ruyle's tenure the Water Department and the City invested in the utilization of Non-Potable irrigation systems for the Parks, Golf Courses, Schools, and other large turf areas, along with the adoption of increased use of Non-Potable water was a major effort in water conservation including the adoption of a State of Colorado approved Water Conservation Plan for the City, the creation and implementation of a City wide Residential Water Budget program, the start of the conversion of all water meters to Smart Water Meters, and a turf replacement program called Life After Lawn; and

WHEREAS, during Mr. Ruyle's tenure the Wastewater Treatment Plant performance issue were addressed and corrected, the Sheep's Draw Trunk Sewer was constructed to serve West Greeley, the 1984 -1985 expansion of the Wastewater Plant, the 1994 expansion of the Wastewater Plant, the 2021 Nutrient Removal Project, and a multiyear effort to rehabilitate and epoxy line the sewer collection system in the eastern part of Greeley; and

WHEREAS, during Mr. Ruyle's tenure there were also several Natural Disasters that the Board and Department responded to, these being the Big Thompson Flood of 1976, the 2002-2003 Drought, the High Park and Hewlett Gulch wildfires in the Poudre watershed, the Flood of 2013, and the record size Cameron Peak Fire and the East Troublesome Fires of 2020 which impact all four of Greeley's watersheds; and

WHEREAS, during Mr. Ruyle's tenure Greeley's Water Treatment and Reclamation Facility received numerous awards from the Environmental Protection Agency for Excellence in Waste Water Treatment. In 2017 Greeley's water operations won American Water Works award for Best Tasting Water in the United States by the American Water Works Association at their annual meeting; and

WHEREAS, Mr. Ruyle's generous contributions of time, judgement, wisdom, and insight, over the last 46 years, have been of incalculable value to the City, to the Board and the Water and Sewer Department. His service and generosity has also extended into many other areas in community and have been equally valuable. Mr. Ruyle is one of those rare individuals who truly have made a difference in the life of their community. He will be missed.

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

Section 1. The Water and Sewer Board hereby acknowledges, and wishes to express its sincere gratitude for, the dedication and contributions of Robert A. Ruyle to the Water and Sewer Department, Water and Sewer Board, and the citizens of the City of Greeley.

Section 2. The Water and Sewer Board hereby recommends that the City Council adopt an ordinance appointing Robert A. Ruyle as a member emeritus of the Water and Sewer Board.

PASSED AND ADOPTED, SIGNED AND APPROVED THIS ____ DAY OF JULY 2021.

ATTEST

CITY OF GREELEY
WATER AND SEWER BOARD

Roy Otto
Secretary, Water and Sewer Board

Harold Evans
Chairman, Water and Sewer Board



WATER & SEWER BOARD AGENDA JULY 21, 2021

ENCLOSURE X NO ENCLOSURE

ITEM NUMBER: 12

TITLE: LEGAL REPORT

RECOMMENDATION: INFORMATIONAL ONLY

ADDITIONAL INFORMATION:



Legal Report
Greeley Water and Sewer Board Meeting
July 21, 2021

Statements of Opposition: Based on our review of the May, 2021 Water Court Resume, staff and water counsel do not recommend that the Water and Sewer Board file statements of opposition to any water court applications that would be due in the month of July, 2021.

Other Matters: Water counsel will provide an explanation of Greeley's participation in Division 1 Case No. 21CW3046, *Parker Water and Sanitation District et al. v. Kevin G. Rein, State Engineer, et al.*, at the Water and Sewer Board meeting.



**Legal Report:
Water Court Case
21CW3046**

James M. Noble



Background

- In early 2020, the Colorado State Engineer's Office initiated rulemaking proceedings to revise and update the Statewide Nontributary Groundwater Rules, which haven't changed since 1986.
- Because of Greeley's pending acquisition of nontributary groundwater supplies at the Terry Ranch, we participated in the initial stakeholder process for these rules, and also became parties to the formal rulemaking process in late 2020.
- Greeley did not have major concerns with the proposed rules as they were presented.

Background (Cont'd)

- Unlike water rights in tributary aquifers, nontributary groundwater rights are determined based on the volume of water underlying the land owned by the claimant.
- The nontributary groundwater rules include a formula for calculating the “Allowed Annual Average Amount of Withdrawal,” which is based on the total volume of water in the aquifer under the overlying land. The annual average withdrawal amount is calculated as 1% of the total volume of water, based on an aquifer life of 100 years.
- Early this year, two parties raised a novel issue in the rulemaking proceedings, claiming that there should be no total limit on withdrawals of nontributary groundwater, once a party has withdrawn the total calculated amount. In their view, the total volume of water available is only used to calculate the average annual withdrawal rate, and not a total volume limit.

Background (Cont'd)

- The State Engineer and other parties, including Greeley, disagreed with this position.
 - We believe it is inconsistent with Colorado Statutes.
 - We believe it would have negative effects on parties who seek to conserve their nontributary groundwater supplies for times of need.
 - If those parties would succeed in their proposed approach, it could result in a “race to the bottom” where nontributary groundwater rights are pumped to their maximum amount until they are depleted.
- One of the parties decided to file a lawsuit against the State Engineer while the rules were pending, asking the court to enter an injunction precluding the State Engineer from imposing total withdrawal limits on its nontributary groundwater permits.

Case No. 21CW3046

- The Plaintiff in this case is Parker Water and Sanitation District.
- The water court will be called on to resolve the legal issue. Therefore the State terminated the rulemaking proceedings until the court case is resolved.
- Several parties aligned with Parker in the Rulemaking intervened in the case to support Parker's position. All of these parties hold nontributary groundwater interests in the Denver Basin.
- The City of Aurora intervened in the case to support the State's position.
- Greeley also intervened in the case. The court granted our motion to intervene on June 23rd.

Case No. 21CW3046

- Reasons this case is important to Greeley:
 - Protect the nontributary groundwater resources at Terry Ranch from potential depletion by neighboring nontributary groundwater right holders.
 - Greeley is the only party in the case that has nontributary groundwater rights outside of the Denver Basin.
 - Protect Greeley's plans for aquifer storage and recovery or "ASR" at the Terry Ranch.

Case No. 21CW3046

- Next Steps
 - The Water Court will set a trial date and a schedule for proceeding with the case.
 - Greeley's counsel will coordinate with the other parties aligned with Greeley's interests to the extent that is appropriate.
 - We will provide updates on the progress of the case as it develops.
- Any questions?



WATER & SEWER BOARD AGENDA JULY 21, 2021

ENCLOSURE _____ NO ENCLOSURE X

ITEM NUMBER: 13

TITLE: EXECUTIVE SESSION

RECOMMENDATION: INFORMATIONAL ONLY

ADDITIONAL INFORMATION:



WATER & SEWER BOARD AGENDA JULY 21, 2021

ENCLOSURE X NO ENCLOSURE

ITEM NUMBER: 14

TITLE: DIRECTOR'S REPORT

RECOMMENDATION: INFORMATIONAL ONLY

ADDITIONAL INFORMATION:

- Bizwest Confluence Water Summit – July 22
- Colorado Water Center – Climate & Adaptation
- Wildfire Recovery Status
- Board/Council Systems Tour



Four States Irrigation Council

A Forum for Irrigators in Colorado, Kansas, Wyoming and Nebraska

About Us

Four States Irrigation Council 2021 Summer Tour



July 29
& July 30

Loveland,
Colorado

Registration
\$125

Day 1 will include visits to areas of Northern Colorado impacted by the region's wildfires, and cover their impacts on water quality, infrastructure and ag operations.



Day 2 will examine ongoing infrastructure projects, complexities of the region's water operations, and research and innovative approaches to meet future demands.



We hope you
can join us!

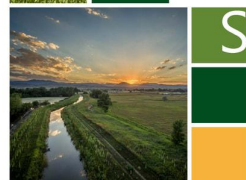
Be sure to visit www.4-states-irrigation.org/summer-tour.html to see agenda details as they're finalized, get registered and learn more about hotel information.

Summer Tour Details and Registration

The FSIC is glad to announce that plans to hold the traditional annual meeting in 2022 are being developed.

Look for details to be posted in the Fall.

For information on the 2020 Annual Meeting
[view the program.](#)



SAVE THE DATE

Jan. 12 & 13, 2022
The Hilton Fort Collins

We can't wait to see
you all again at the

Four States
Irrigation Council's
68th Annual Meeting

Follow us on [Facebook](#) and at www.4-states-irrigation.org

Four States Irrigation Council Leadership - [Board of Directors](#)

Four States Events

[Summer Tour Colorado - July 29 & 30, 2021](#)
Annual Meeting - January 12 & 13, 2022

Sponsors and Exhibitors

Sponsors / Exhibitor Packages
Sponsor/Exhibitor Details
Rules and Regulations Contract

About Four States

[About Four States Irrigation Council](#)
[Board Members](#)
[Contact Four States Irrigation Council](#)



Colorado Water Conservation Board
1313 Sherman St., Room 718
Denver, CO 80203

June 24, 2021

RE: CCA / CAWA Agricultural Infrastructure Assessment and Outreach Project

Dear Colorado Water Conservation Board members:

As Deputy Director for Water Resources at the City of Greeley Water and Sewer Department, I want to share my enthusiastic support for the Agriculture Water User Priorities (2022-2023): Infrastructure Assessment & Outreach Project proposed by the Colorado Cattlemen's Association and the Colorado Ag Water Alliance. This two-year project will include:

- Education and outreach on water issues important to agriculture. The topics of focus will encompass funding for irrigation infrastructure, watershed and stream management planning, drought contingency planning, efficiency and conservation, and Regulation 85 and related water quality issues. Outreach will include workshops, trainings, presentations, webinars, and publications for agricultural producers around the state, as well as an ag water symposium.
- The formation of a statewide Reservoir Rehabilitation Working Group that will identify agricultural / multi-purpose reservoirs in need of sediment removal and infrastructure improvements. The working group will produce a report describing the needs and estimated cost of rehabilitating impacted reservoirs, along with the benefits.
- Irrigation infrastructure assessment in Custer County to help local producers identify where multi-benefit improvements can be achieved. This pilot project will be accomplished in cooperation with and provide funding to the local conservation district.

Specifically, I will be involved in the Reservoir Rehabilitation Working Group, and I commit to providing 20 to 30 hours towards this project. Additional water storage is urgently needed in Colorado to better manage the state's water resources. Rehabilitating water storage infrastructure is a key issue in sustaining irrigated agriculture throughout the state, and Greeley is enthusiastic about the potential of this new working group in improving storage capacity for agriculture and other purposes.

Please feel free to contact me if you have any questions about our support of the proposed project.

Sincerely,

A handwritten signature in blue ink, appearing to read "Adam Jokerst".

Adam Jokerst, PE
Deputy Director, Water Resources

Summer Conference & Membership Meeting

The Steamboat Grand Hotel

August 24 - 26, 2021

The Colorado Water Congress Summer Conference and Membership Meeting takes place annually, in August, for two and a half days at a Colorado resort location. The 2021 conference will be in Steamboat at the Steamboat Grand, beginning on Tuesday, August 24 and ending Thursday, August 26.

SUMMER CONFERENCE HIGHLIGHTS

The high-energy Summer Conference is packed with great topical content. It's a don't miss event for those who wish to stay informed about water issues in Colorado while engaging in numerous professional development activities.

Here is what you can expect for 2021:

- Expert presentations on issues including land use planning, growth, and climate.
- A new, interactive conference format.
- Networking with water industry professionals.
- POND activities.
- Opportunities to earn CLE credits.

Registration

**CLICK
HERE TO
REGISTER**

Registration is now open. Please register prior to August 18. There will be no on-site registrations available and no cancelations available after the August 18 cut-off date.

Member Registration - \$325

NonMember Registration - \$425

The Summer Conference will be a hybrid event. There will be a mix of virtual, recorded, and in-person presentations. We will seek to maximize speaker and audience interaction. Typically, background technical presentations will occur during the virtual Pre-Conference sessions.

The conference will be over 2 weeks - virtual Pre-Conference sessions on Thursday afternoon, August 19 and in-person Conference sessions in Steamboat the following Tuesday through

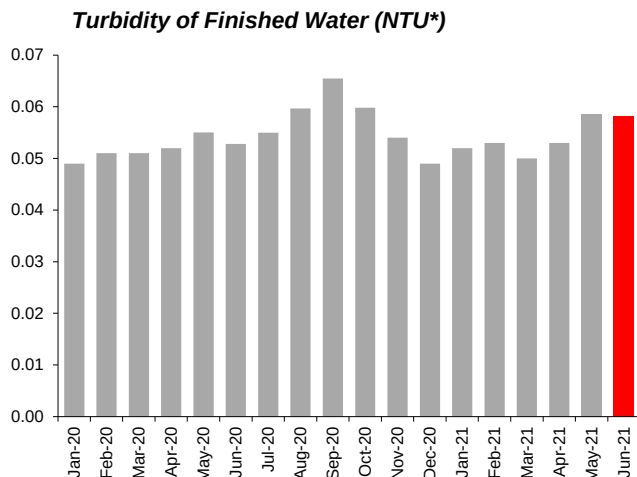
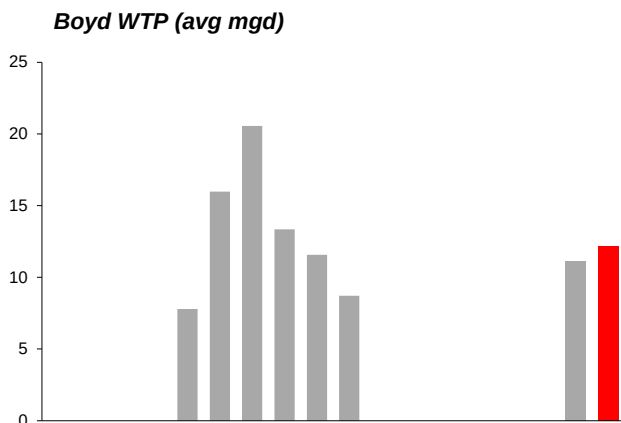
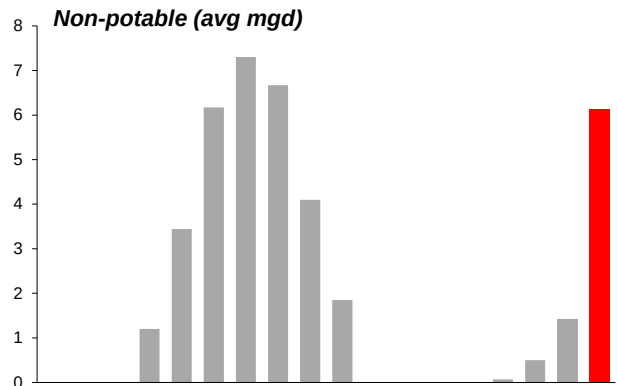
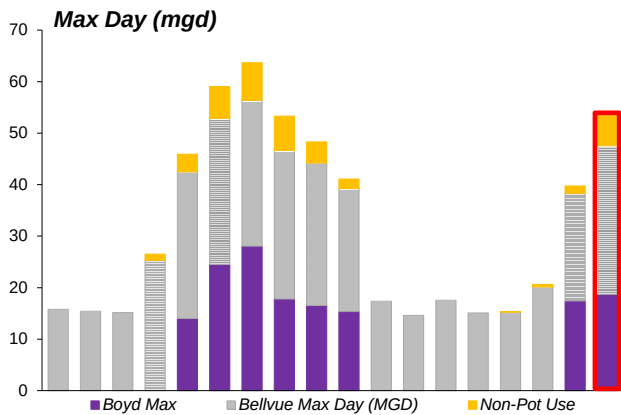


Water Treatment

Bellvue Water Treatment Plant operates year-round with a transmission capacity of 29.1 million gallons per day (mgd) (plant capacity is 32 to 35 mgd). Water sources include Poudre River direct flows, Colorado-Big Thompson (C-BT), Windy Gap, High Mountain Reservoirs, Laramie-Poudre Tunnel, and Water Supply and Storage. Average volume is 19,000 acre-feet a year (2000-2011). The plant was built in 1907, with its last treatment upgrade in 2009. Solar panels were added in 2014.

Boyd Water Treatment Plant operates normally from April to October with a plant capacity of 38 mgd (transmission capacity is 40 mgd). Water sources include Greeley-Loveland Irrigation Company, C-BT, and Windy Gap. Average Volume is 8,200 acre-feet (2000-2011). The current plant was built in 1974, with its last treatment upgrade in 1999. Solar panels were added at Boyd in 2014. In 2016, tube settlers and platte settlers were replaced in the sedimentation basins. In 2018, all old existing chemical lines were replaced with new lines and the piping was up-sized to carry more chemical. A PLC upgrade was done on the SCADA system. Sludge pumps were replaced and hooked into the Trac Vac system that pulls sludge out of the sedimentation basins.

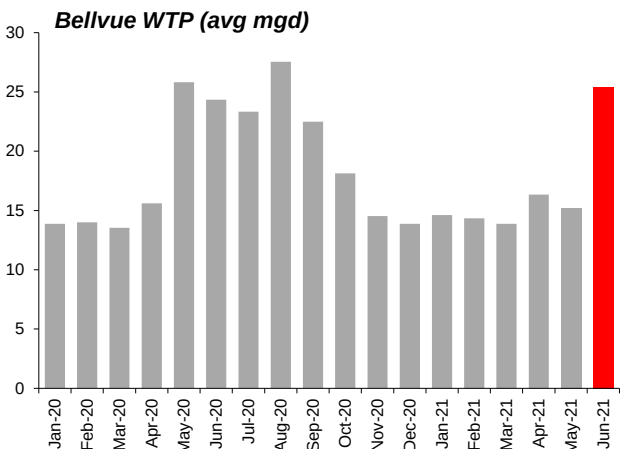
Combined, Bellvue and Boyd can treat a maximum of 70-73 million gallons per day.



Starting May 2016 Bellvue turbidity measurements will use a new method resulting in more accurate readings.

*Turbidity limit: 95% of samples must be below 0.3 NTU.

Turbidity is the measure of relative clarity of a liquid. Clarity is important when producing drinking water for human consumption and in many manufacturing uses. Turbidity is measured in Nephelometric Turbidity Units (NTU).

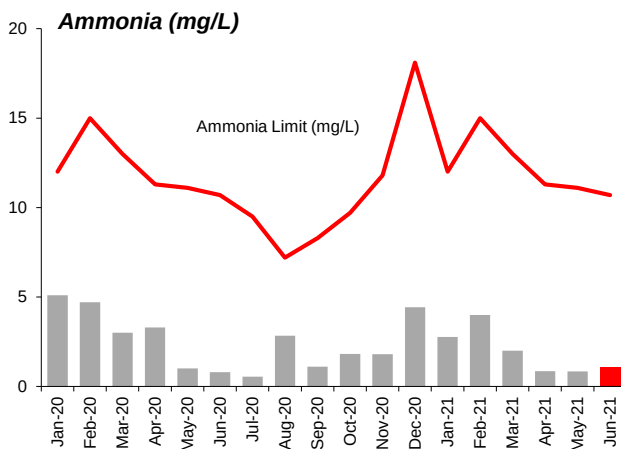
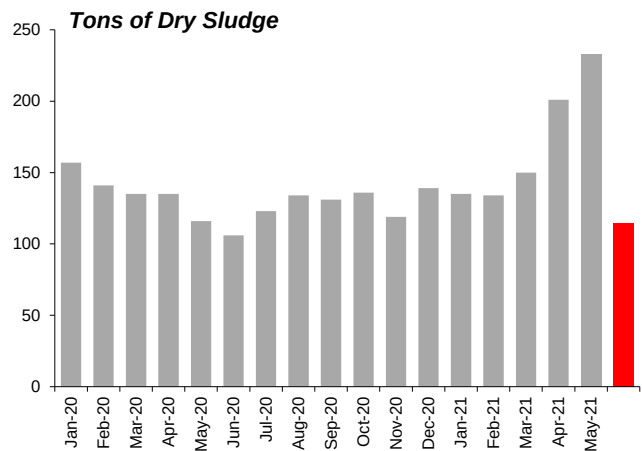
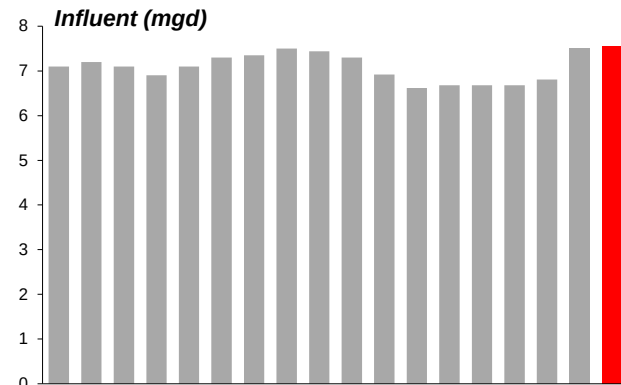
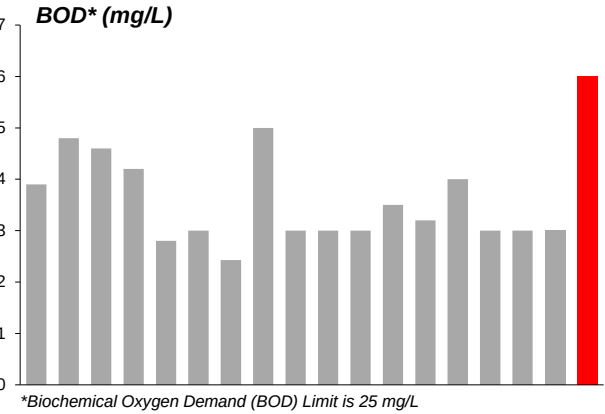
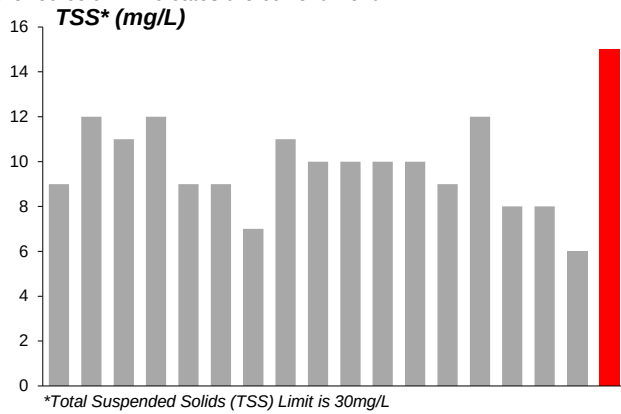


Wastewater Treatment

The Water Pollution Control Facility (WPCF) staff are dedicated environmental professionals who provide quality, safe and cost-effective wastewater treatment services for the citizens of Greeley. The WPCF treats wastewater to meet or exceed Environmental Protection Agency (EPA) and Colorado Department of Public Health & Environment requirements.

In 2011, the WPCF received an Xcel Energy Custom Efficiency Achievement Award for saving 2.78 million kWh and reducing CO2 emissions by 1,584 tons. In 2012, the WPCF received the Rocky Mountain Water Environment Association's (RMWEA) Sustainability Award for Colorado demonstrating excellence in programs that enhanced the principles of sustainability. A Certificate of Achievement from the Colorado Industrial Energy Challenge program managed through the Colorado Energy Office was received in the same year. In 2013, the plant received the City of Greeley's Environmental Stewardship Award for outstanding efforts to reduce energy (watts), conserve energy and water, reduce air and water pollution, and educate and encourage others to be environmental stewards. Also, in 2013, the plant was the recipient of a Bronze Award from the Colorado Environmental Leadership Program. In 2015, after having 5 years without a plant violation, the plant received the 2015 National Association of Clean Water Agencies (NACWA) Platinum Peak Performance award for the City of Greeley Water and Sewer Department.

Note: the red column indicates the current month.



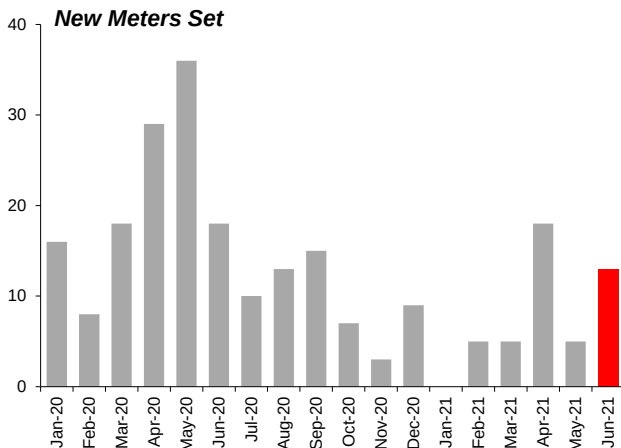
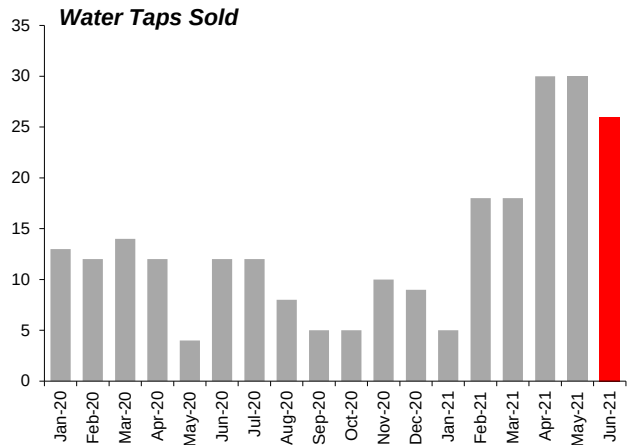
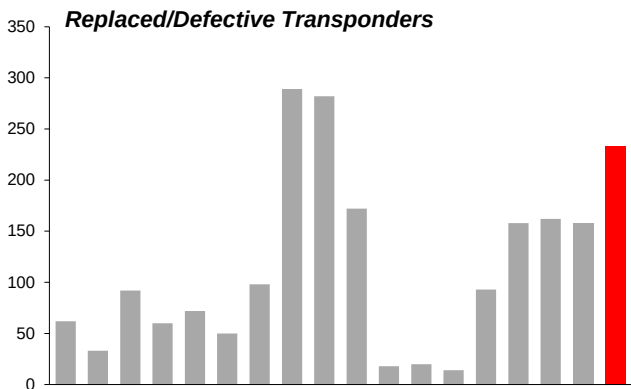
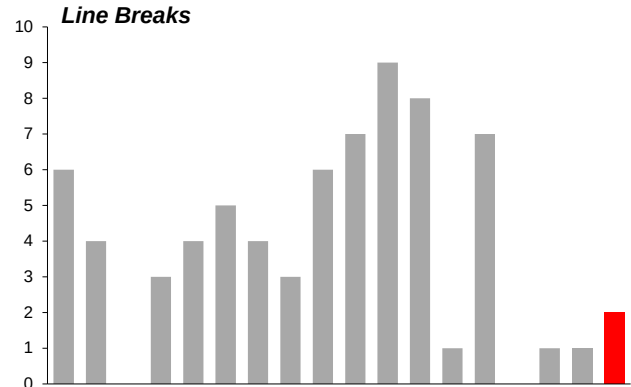
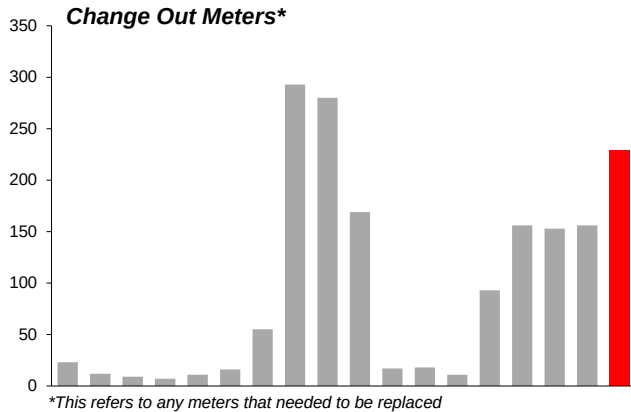
Water Distribution

The Greeley water distribution system consists of various sizes of pipes that generally follow the streets within the City. The distribution system serves residences and businesses in Greeley, Evans and Garden City, and the system is divided into four pressure zones.

There are 69.75 million gallons of potable water storage in Greeley. The water is stored within three covered reservoirs and one elevated tank; 23rd Avenue - 37.5 million gallons, Mosier Hill - 15 million gallons, and Gold Hill - 15 million gallons. The system also has 476 miles of pipeline, 24,233 water meters and 3,378 fire hydrants.

The water pipes in the distribution system vary in size from 4" to 36". Pipe material is steel, ductile iron, cast iron, or polyvinyl chloride. The age of the pipes varies from the 1890's to new installations.

Note: the red column indicates the current month.



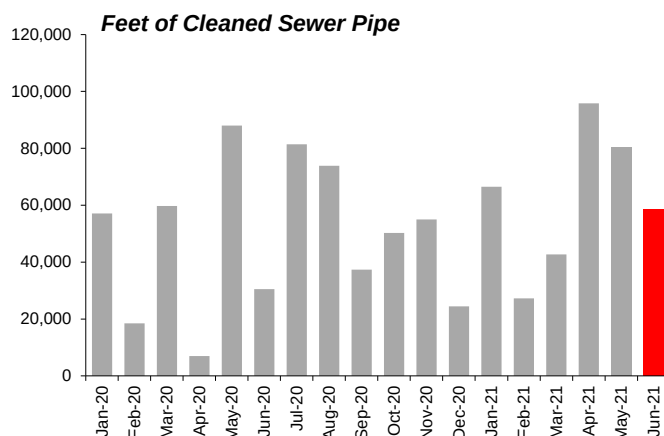
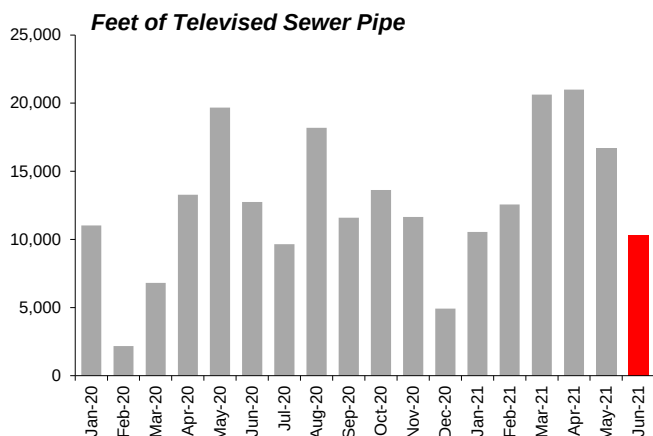
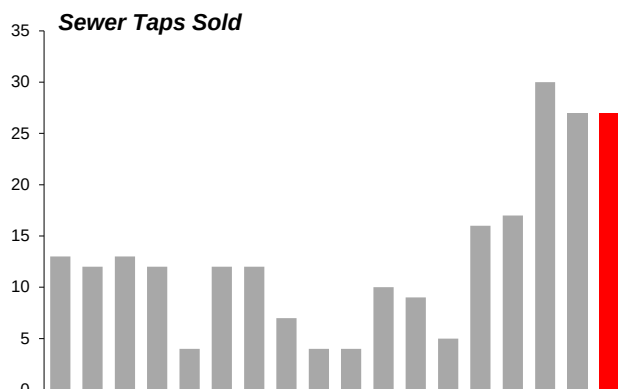
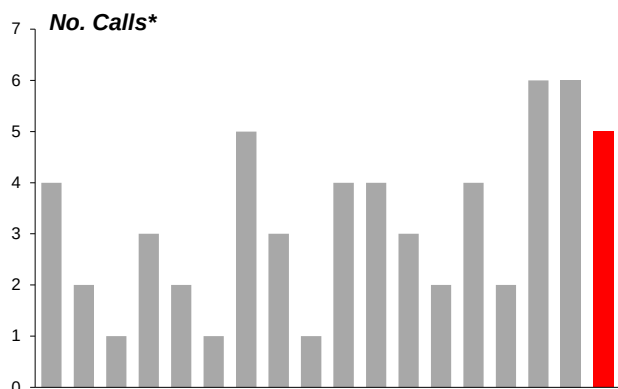
Wastewater Collection

The mission of the Wastewater Collection Division of the Water and Sewer Department is to protect community health by transporting wastewater away from homes and businesses. This includes respecting property values and public safety by reducing the frequency of blockages in the sanitary sewer lines.

A wide variety of work is performed including routine cleaning of sewer lines, inspection of sewer lines, maintenance of the sewage pumping stations, rehabilitation of the system and responding to emergencies.

The wastewater collection system dates back to 1889. At the end of 2017, the system had a total of 364.8 miles of line and 10 sewage pumping stations. The sewer service area is approximately 51 square miles. Over the last 10 years, the system has grown by 17 miles.

Note: the red column indicates the current month.

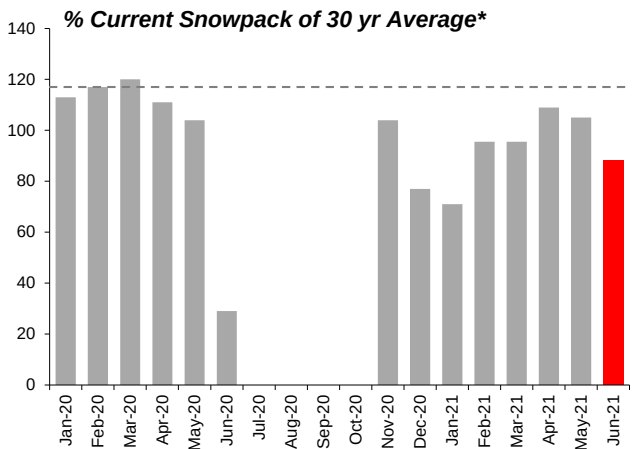
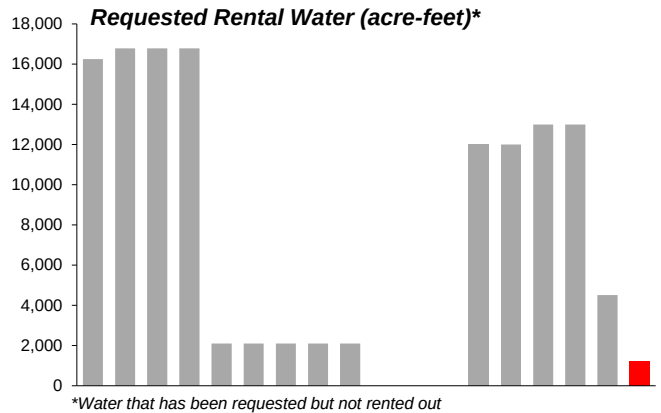
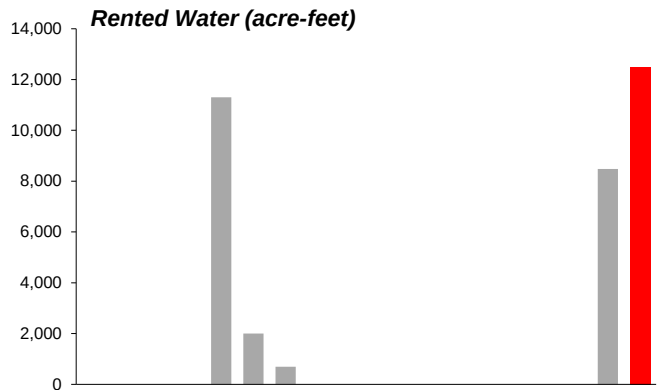
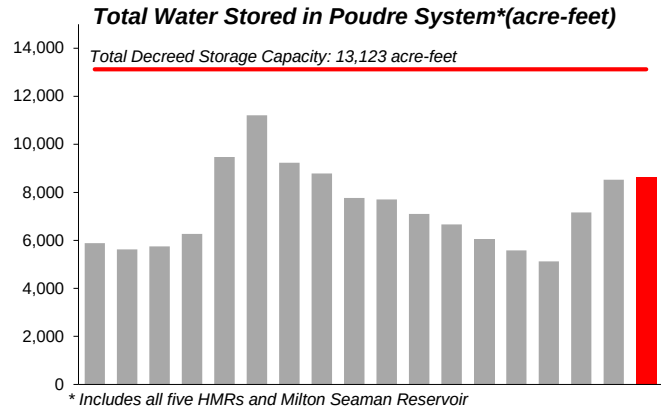
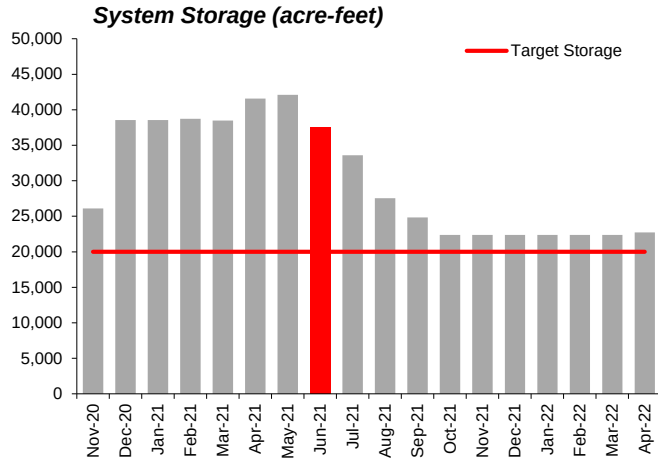


Water Resources

Greeley has numerous water rights in four river basins; the Upper Colorado River, Cache La Poudre, Big Thompson and Laramie River. The Water Resource staff must account for all of this water and comply with the rules of the Colorado Water Court and the State Engineer's Office which is in charge of allocating all of Colorado's water resources. Approximately one-third of the City's water supply comes from agricultural water rights. These water rights must be formally changed to municipal use by a special legal process through the Water Court. In this court, Water Resource staff and attorneys also defend the City's water rights against adverse claims from other parties.

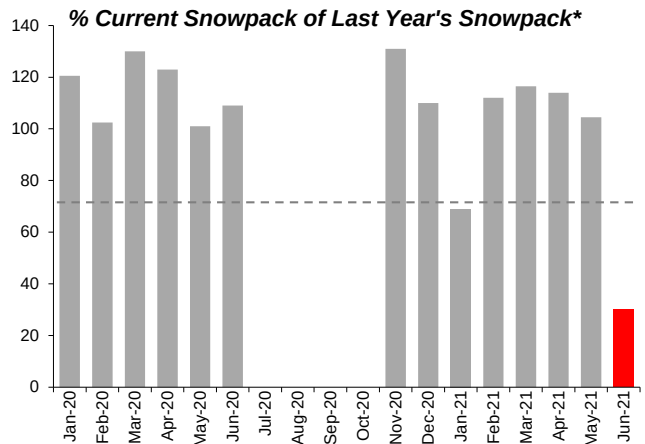
Greeley's goal is to have enough water in carry-over storage to sustain Greeley through a 50-year critical drought. Water in excess of this carry-over drought supply can be leased to agriculture, both for revenue and to support our local agricultural community. Modeling has shown that, given existing population and demand factors, Greeley will have sufficient water for citizens, if at the beginning of the 6-year long, 50-year critical drought, there is 20,000 acre-feet in storage on April 1st of the following year.

Note: the red column indicates the current month.



*Data is from the 1st of the month

**Average of Deadman Hill and Joe Wright



*Data is from the 1st of the month

**Average of Deadman Hill and Joe Wright

Treated Water and Weather Data

January 2021 average temperature was 30.45°F, approximately 3.3°F warmer than average. February average temperature was 25°F which was 6°F colder than average. March and April temperatures were also below average. March 2021 averaged 39.11°F compared to 40.66°F historically and April 2021 averaged 46.03°F compared to 47.86°F. May was also cooler than the historical average, 55.38°F compared to 56.97°F historically. June 2021 temperatures were above average.

Greeley precipitation was 0.53 inches in January, which is slightly above average (0.43 inches). February precipitation was also 0.53 inches compared to 0.42 inches, the historical average. March 2021 precipitation was 1.39 inches compared to 0.66 inches historically. April precipitation was 1.56 inches compared to 1.99 inches historically. May precipitation was much above average. Greeley received 3.64 inches of rain in May compared to 2.78 inches historically. June precipitation was 0.82 inches which keeps Greeley above average for the year.

