

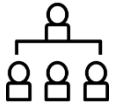
Water and Sewer Board

Regular Meeting

City Council Chambers – City Center South

1001 11th Avenue – Greeley, Colorado

June 26, 2024 at 2:00 p.m.



Regular meetings of the Water and Sewer Board are held **in person** on the 3rd Wednesday of each month in the City Council Chambers, 1001 11th Avenue, Greeley, Colorado.



Members of the public may attend and provide comment during public hearings.



Written comments may be submitted by US mail or dropped off at the

Water and Sewer office located at 1001 11th Avenue, 2nd Floor, Greeley,



CO 80631 or emailed to wsadmin@greeleygov.com. All written

comments must be received by 10:00 a.m. on the date of the meeting.

Meeting agendas and minutes are available on the City's meeting portal at <https://greeleyco.portal.civicclerk.com/>

IMPORTANT – PLEASE NOTE

This meeting is scheduled as an **in-person session only**. If COVID, weather, or other conditions beyond the control of the City dictate, the meeting will be conducted virtually and notice will be posted on the City's CivicClerk meeting portal by 10:00 a.m. on the date of the meeting (<https://greeleyco.portal.civicclerk.com/>).

In the event it becomes necessary for a meeting to be held virtually, use the link below to join the meeting via Zoom. <https://greeleygov.zoom.us/j/84218093588>

For more information about this meeting or to request reasonable accommodations, contact the administrative team at 970-350-9801 or by email at wsadmin@greeleygov.com



June 26, 2024 at 2:00 PM

1001 11th Avenue, City Center South, Greeley, CO 80631

Agenda

1. Roll Call: _____ Chairman Harold Evans _____ Vice Chairman Mick Todd
 _____ Ms. Cheri Witt-Brown _____ Mr. Fred Otis
 _____ Mr. Joe Murphy _____ Mr. Tony Miller
 _____ Mr. Matthew Anderson _____ Mayor John Gates
 _____ Mr. Raymond Lee _____ Ms. Tyra Litzau
2. Approval of Minutes
3. Approval of the Agenda
4. Welcome New Employees and Promotions
5. Approve Resolution of Appreciation for Board Member Sisneros
6. Approve a Resolution Authorizing and Approving a Loan from Colorado Water Resources and Power Development Authority for the Lead Service Line Replacement Program
7. Recommend Council Approve an Ordinance Prohibiting Lead Pipes
8. Discussion of Backflow Tier 2 Reporting Violation
9. Water Supply and Runoff Update
10. Terry Ranch Update
11. Review Water and Sewer Organization Chart
12. Legal Report
13. Director's Report
14. Such Other Business That May Be Brought Before the Board Added to This Agenda by Motion of the Board.
15. Adjournment



If, to effectively and fully participate in this meeting, you require an auxiliary aid or other assistance related to a disability, please contact the Water and Sewer Department administrative staff at 970-350-9801 or wsadmin@greeleygov.com

**City of Greeley
Water and Sewer Board
Minutes of May 15, 2024, 2024
Regular Board Meeting**

Chairman Harold Evans called the Water and Sewer Board meeting to order at 2:01 p.m. on Wednesday, May 15, 2024.

1. Roll Call

The Clerk called the roll and those present included:

Board Members:

Chairman Harold Evans, Vice Chairman Mick Todd, Tony Miller, Cheri Witt-Brown, Fred Otis, Manuel Sisneros, Joeseeph Murphy, Mayor John Gates, Finance Director Tyra Litzau, Deputy City Manager – Chief Financial Officer Allena Portis on Behalf of Raymond Lee

Water and Sewer Department staff:

Director Sean Chambers, Chief Engineer Adam Prior, Deputy Director of W&S Operations and Maintenance Rebecca Andrus, Office Manager Gigi Allen, Administrative Assistant III Lisa Van Vorous, Civil Engineer II Keri Fishlock, Administrative Assistant II Dana Ortiz, Intern II Mitch Zombek, Water Conservation Manager Dena Egenhoff, Water Resource Administrator II Alex Tennant, Water Resource Administrator II Megan Kramer, Communication Specialist II Cory Channell, Interim Deputy Director of Water Resources Randy Gustafson, Water Conservation Seasonal Reeves Wester, Water Conservation Seasonal Shannon Vestecka, Engineering Technician III Eliel Aguinaga, Water Resource Administrator III Matt Sparacino, Water Resource Administrator II Samantha Harshbarger, Water and Sewer Asset Analysis Sophie Glaubius, Water Conservation Specialist I Jake Robinson

Legal Counsel:

Supervising Senior Environmental and Water Resources Attorney Jerrae Swanson, Senior Environmental and Water Resources Attorney Dan Biwer, Environmental and Water Resources Attorney I Arthur Sayre, Counsel to Water & Sewer Board Attorney Jim Noble

Guests:

James Sutherland from Wingfoot, , PC Specialist Alik Cummins, Council member Deb DeBoutez

2. Approval of Minutes

Vice Chairman Todd made a motion, seconded by Mr. Miller to approve the April 2024 Water and Sewer Board meeting minutes. The motion carried 7-0.

3. Approval of Agenda

There were no changes to the Agenda.

4. Welcome New Employees and Promotions

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

5. Lead and Copper Rule Private System Update

Keri Fishlock presented an update to the EPA's Lead and Copper Rule Revisions (LCCR) which require the city to develop an inventory of all public and private water service line materials and remove lead service lines. The city is offering a free program to replace customer service lines that are found to contain lead. The City has reviewed the potential lead water services lines within the existing private water systems with an update. The City also proposed a draft policy for the Water & Sewer Board to review and provide input for the lead service line inventory and replacements program.

6. Non-Potable Infrastructure Plan & Equalizer Project Review

Adam Prior discussed that the City started examining opportunities to exchange water from the WPCF to points on the Big Thompson River and to the GLIC ditch in 2005. As Greeley advanced its planning on water resources and non-potable irrigation water, several different concepts were developed and evaluated through the years. In 2016, the upper equalizer concept started developing to pump water from the GIC ditch at 71st Ave and put water into the GLIC ditch near HWY 34. This concept has been advancing in planning and design with much of the new alignment going along 83rd Ave to be coordinated with road widening and improvement projects to reduce project costs. Design and construction of the first phase started in 2021 with construction along 35th Ave to connect Poudre Ponds to the GIC ditch. An Operations Agreement with GIC was completed in 2022 to allow inputting water into the ditch at 35th Ave and removing water at 71st Ave. The design for phase 2 work for this project was started in 2022 with Brown & Cadwell preliminarily being awarded the design work. This has been delayed until 2024 to accommodate evaluating other alternatives.

7. Tri Annual Water Court Review of Cases

Sam Harshbarger presented an update to the Board regarding its participation in water court cases during the first four months of 2024. The City of Greeley Water and Sewer Department is active in numerous Water Court matters to develop additional water supply

and to protect existing water rights. In the four months of 2024, Greeley filed five statements of opposition and stipulated out of six cases. Greeley is a co-applicant in Case No. Water court legal costs equaled \$118,013 and engineering costs equaled \$113,955 for a total annual cost of \$231,968. CW3158 (change of WSSC shares), 22CW3220 (Lower Poudre diligence), and 23CW3158 (Lower Poudre stewardship project diligence).

8. Legal Report

James Noble provided the Legal Report. Based on a review of the March 2024 Water Division 1 Resume, Mr. Noble recommended that the Water and Sewer Board authorize filing a statement of opposition to the following water court application:

1. **Case No. 24CW3041:** This case involves a claim for nontributary groundwater rights in the Upper Laramie aquifer in Weld County. Applicant claims an annual average amount of 16,116.64 acre feet per year from the aquifer. The overlying land for this claim consists of approximately 11,631 acres, located in Townships 11 and 12 North, Range 65 West. This is about six miles east of the Terry Ranch and north of Greeley. Mr. Noble recommended that Greeley file a statement of opposition to evaluate the nontributary claims and to ensure that Greeley's water rights are not adversely affected.

Vice Chairman Todd moved that the Board authorize filing a statement of opposition in Case No. 24CW3041 and for staff and legal counsel to seek resolution of issues raised by this case consistent with Water and Sewer Board Resolution No. 3-15. Mr. Murphy seconded the motion. The motion carried 7-0.

9. Director's Report

Education, Advocacy and Events Calendar

**Greeley Water & Sewer Board / City Council Annual Water Utilities Tour –
Friday, June 7th from 8:30 am to approx. 4:30 pm
Includes stops at SCADA and controls, Gold Hill, Bellvue Filter Plan and Chimney Hollow construction site.**

Colorado Interbasin Compact Committee – Triannual Meeting – June 18th

June 20, 2024 • 5-9pm • Hillside Vineyard & Event Center
<https://www.poudrewatershed.org/take-me-to-the-river>

The Colorado River District's Annual Water Seminar
Friday, September 20th, 2024 at Colorado Mesa University in Grand Junction
<https://www.coloradoriverdistrict.org/annual-water-seminar-2024/>

Colorado Water Conservation Board Annual all basins summit (C-9 Summit) – Oct. 1-2, 2024, in Crested Butte
<https://cwcb.colorado.gov/events/c9-summit>

Regional Water Initiatives:

On May 8th, City of Thornton obtained Larimer County BoCC approval of the 1041 land use permit for their Northern Water Project pipeline from WSSC Reservoir No. 4 out to the Weld Co line. More at <https://coloradosun.com/2024/05/09/larimer-county-thornton-water-pipeline-approval/>

Greeley and Ft. Collins completed an IGA covering a shared engineering study to further analyze water quality and operational impacts to Greeley's Milton Seaman Reservoir and Bellvue Treatment Plant that would be a result of Ft. Collins Halligan Reservoir expansion project on the North Fork of the Poudre River. AECOM will undertake the analysis, and to the extent infrastructure changes need be made at Milton Seaman's outlet gates to manage water quality and / or facilitate operations necessary to Ft. Collins, AECOM will consider how those modification would tie into the gate replacement project that Greeley has planned for 2025-2026.

Utility Billing Customer Information System Project Update

Replacing Greeley's legacy CIS system is ready to move forward with Spry Point contract fully executed.

SpryPoint CIS project kick off on June 11th. Working to contract with Invoice Cloud for 3rd party secure payment processing. An external communications PFQ is posted and the project will bring on communications support to augment the project team, vendors and City Communications and Engagement Dept. staff. Krystal Dilka is Greeley's staff project manager, and she will leverage external project support as needed from Plante Moran consultants.

10. Such Other Business That May Be Brought Before the Board Added to this Agenda by Motion of the Board

11. Executive Session

Chairman Evans moved that the Board adjourn the public portion of the May 15, 2024 Water and Sewer Board meeting and 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 § 2-151(a)(1), (2), and (5):

1. For the purpose of obtaining legal advice, determining positions relative to matters that may be subject to negotiations, developing strategy for negotiations, and instructing negotiators on matters related to the purchase and sale of non-potable irrigation infrastructure and associated real property interests.

Cheri Witt-Brown seconded the motion. The motion passed.

Present during Executive Session were:

Chairman Harold Evans, Vice Chairman Mick Todd, Manuel Sisneros, Tony Miller, Cheri Witt-Brown, Fred Otis, Joe Murphy, Director of Finance Tyra Litzau, Deputy City Manager Allena Portis, Director of Water and Sewer Sean Chambers, Senior Environmental and Water Resources Attorney Daniel Biwer, Supervising Senior Environmental and Water Resources Attorney Jerree Swanson, Water Resource Attorney I Arthur Sayre, Chief Engineer Adam Prior, Deputy Director of Operations and Maintenance Rebecca Andrus, Interim Deputy Director of Water Resources Randy Gustafson, Counsel to Water and Sewer Board Attorney Jim Noble

This executive session is authorized by Subsections (a) and (e) of Section 24-6-402(4) of the Colorado Revised Statutes, and Subsection(s) (1) and (5) of Section 2-151 (a) of the Greeley Municipal Code.

12. Adjournment

The Board came out of executive session and the meeting ended at 3:41 p.m.

Harold Evans, Chairman

Raymond Lee, Board Secretary



Water & Sewer Agenda Summary

June 26, 2024

Key Staff Contact: Sean Chambers, Water & Sewer Director

Title:

Welcome New Employees and Promotions

Summary:

New Hires: Reeves Wester – Intern – Water Conservation
 Hayden Buscha - Intern - Water Conservation
 Reilly Crawford – Intern - Engineering
 Scott Wood – Laborer
 Eric Froening – Laborer
 Zachary White - Laborer
 Martin Barger – Plant Operator A – Bellvue
 John Davenport – Plant Operator A – Boyd

Promotions: Jason Clark – T&D Superintendent
 Brandon Valenciano – T&D Maintenance Team Manager
 Tia Miller – Cross Connection Supervisor
 Devin Meyer - Maintenance Mechanic

Recommended Action:

Informational only

Recommended Motion:

N/A

Attachments:

None



Water & Sewer Agenda Summary

June 26, 2024

Key Staff Contact: Sean Chambers, Water & Sewer Director

Title:

Approve Resolution of Appreciation for Board Member Sisneros

Summary:

With the pending retirement of Water & Sewer Board member Mr. Manual (Manny) Sisneros, the city would like to recognize Board Member Sisneros for his exemplary service and dedication to the business of the city's water and sewer utilities.

Board member Sisneros has served the city in the capacity of Water & Sewer Board member since June of 2014. Over his 10 years of service, Mr. Sisneros has been an essential voice in the Board's deliberations on utility policy decisions, long-range planning, water storage and acquisitions and prioritization of system rehabilitation and expansion.

Mr. Sisneros' service is greatly appreciated and recognized.

Recommended Action:

Recommend approval of the Resolution as presented.

Recommended Motion:

"I move that the Board adopt this Resolution of Appreciation to Board member Sisneros for his years of service to the Water and Sewer Department, Water and Sewer Board, and the citizens of the City of Greeley."

Attachments:

1. Sisneros Resolution of Appreciation

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

RESOLUTION _____, 2024

**A RESOLUTION OF APPRECIATION TO MANUEL SISNEROS FOR YEARS OF SERVICE
TO THE WATER AND SEWER DEPARTMENT, WATER AND SEWER BOARD, AND THE CITIZENS OF
THE CITY OF GREELEY**

WHEREAS, Mr. Manual (Manny) Sisneros has served on the Water and Sewer Board since June of 2014; and

WHEREAS, Mr. Sisneros regularly provided informed policy feedback and strategic input on a wide range of water and sewer utility matters including infrastructure investments, long-range water supply planning, water acquisitions and storage development, raw water dedication policy, non-potable system development, water efficiency programs, and cost of service rate and fee setting; and

WHEREAS, Mr. Sisneros served on the Water and Sewer Board during an important era where the water utility has undertaken a modernization through technology upgrades, policy updates, numerous infrastructure investments, water resource acquisitions, water storage projects, and master planning were undertaken, which included:

- a) the modernization of SCADA systems, controls and cybersecurity protections that allow for enhanced remote monitoring and water system resiliency,
- b) the investment in a senior rights from a variety of sources, including the Water Supply & Storage Co., that will be essential to serving the city long-range growth,
- c) the phased construction of a 60-inch welded steel water transmission pipeline designed to meet Greeley's long-range potable water conveyance needs from Bellvue WTP to the city,
- d) The securing of a \$13.8 million FEMA grant that will support the final phase of the 60-inch water transmission pipeline from Windsor to Gold Hill, which will be completed in 2026 and serve Greeley reliably for another 150+ years,
- e) the policy and code transition of raw water dedication requirements that provide for dedication of water off the farms or cash-in-lieu of raw water dedication with an established portfolio-based valuation of cash in lieu,
- f) acquisition of Terry Ranch aquifer storage and recovery project assets that will provide future residents of Greeley with drought proof water supplies and extensive aquifer storage, adding significant resiliency to the city's water system,
- g) The permitting and construction of the Chimney Hollow regional reservoir project that will add nearly 10,000 AF of storage for Greeley's Windy Gap water rights,
- h) initiation of non-potable system development to serve large irrigable areas of the city with lower cost readily available raw water, including storage acquired at Overland Trail Ponds and Poudre Ponds, and thereby extending the potable system infrastructure capacity to support the continued growth of the City,
- i) the revisions of Code to allow for the use of local improvement districts (LIDs) to address water infrastructure needs in subareas of the city where infrastructure investment and replacement would have important but insolated value,

- j) The development of low-income assistance program and low-income water conservation strategies that support customers most in need.
- k) the development of an industry leading water conservation program, life after lawn programs and education and the implementation of water budget billing methodology that provides equitable water rates and tiers for all sizes of families,
- l) the investment in watershed health and fire recovery from the 2013 High Park Fire and from the state's largest wildfire, the 2020 Cameron Peak Fire that burned more than 208,000 acres of watershed across the Poudre and Big Thompson basins that collect and deliver water to the Greeley system.
- m) the celebration of the 150-year anniversary of the No. 3 ditch and the Greeley Water system, commemorated with the release of our history book, *Confluence, The Story of Greeley Water*

WHEREAS, during Board member Sisneros terms, major renovations to existing infrastructure were undertaken to extend the life of critical systems, meet changing regulations, add seasonal resiliency to the Boyd WTP, and ensure system capacity for current and future residents of Greeley. These investments include:

- a) the construction of 20 million gallon per day Water Treatment Building No. 1 at the Bellvue WTP to replace water filters from the 1940's and adding capacity,
- b) the upgrade and installation of settling plate filters at the Boyd Lake WTP,
- c) upgrade pumps, variable frequency drives, and power equipment at all three-city water and wastewater treatment facilities,
- d) the extension of the Poudre Trunk sewer main from 83rd Ave. west to 95th Ave. to extend backbone sewer collections to a thriving area of the city,
- e) the securing of \$3.4 million in BoR Water Smart grant funds to support a complete replacement of aging water meter infrastructure, updating all City of Greeley water meters with advanced metering technology, and thereby providing real time data to staff and customers that provide for a better customer experience,
- f) the development of a lead service line identification and replacement program, and loan and grant funding for lead service line replacements through CDPH&E,
- g) the development of water line replacement programs to replace back yard lot line water lines before they fail and cause major problems for the city,
- h) the construction of Ashcroft Lift station to provide for sewer service in upper Ashcroft Draw area of the city, replacing capacity limits and reliance on Evans,
- i) the major upgrades to the city's Wastewater Treatment and Reclamation Facility that are allowing the city to meet the much more stringent wastewater discharge regulations and nutrient limitations, and preparing the wastewater treatment facility for the next phase of urban growth, and
- j) the implementation of CityWorks asset management and work order system to better track system assets, prioritize infrastructure investments and standardize asset condition assessments understand life cycle costs,

WHEREAS, during Board member sisneros term, significant knowledge management and master planning was undertaken to ensure that Board, staff and city leadership would have well developed strategic plans, prioritized capital plans, and insights into how much rate revenue would be required to maintain, replace and expand the city's water and sewer systems. Those plans included:

- a) Update of the 2003 Water Supply Master Plan
- b) 2016 Bellvue Water Treatment Plant Plan and Treatment Needs Assessment
- c) 2019 Wastewater Treatment Regulatory Compliance and Expansion Plan
- d) 2020 Non-Potable Water System Master Plan
- e) 2021 Water Distribution Master Plan
- f) 2021 Wastewater Collections Master Plan
- g) 2023 Integrated Water Resources Plan was developed to chart Greeley's water future for the next fifty years.
- h) 2024 SCADA, Controls and Cyber-security Master Plan

WHEREAS, during Board member Sisneros terms, the city's water team worked diligently to improve the treatment system processes and resiliency, and related thereto won the AWWA Best Tasting Water Award for both the Rocky Mountain Section and National AWWA competition in 2018.

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 Mr. Manual Sisneros to the Water and Sewer Department, Water and Sewer Board, and the citizens of the City of Greeley, Colorado.

PASSED AND ADOPTED, SIGNED AND APPROVED THIS ____ DAY OF JUNE 2024.

ATTEST

CITY OF GREELEY
WATER AND SEWER BOARD

Mr. Raymond Lee III
Secretary, Water and Sewer Board

Mr. Harold Evans
Chairman, Water and Sewer Board



Water & Sewer Agenda Summary

June 26, 2024

Key Staff Contact: Virgil Pierce, Rates and Budget Analyst

Title:

Approve a Resolution Authorizing and Approving a Loan from Colorado Water Resources and Power Development Authority for the Lead Service Line Replacement Program

Summary:

The CWRPDA has authorized a \$21M loan from the Colorado Drinking Water Revolving Fund for the city's Lead Service Line Identification and Replacement efforts. The CWRPDA provides public drinking water systems in Colorado with low interest loans from federal and state funds for drinking water infrastructure. The CWRPDA approval includes \$10M in principal forgiveness for the loan.

Recommended Action:

Approve the Resolution authorizing a loan from the Colorado Water Resources and Power Development Authority for the Lead Service Line Replacement Program.

Recommended Motion:

"I move that the Board approve the Resolution authorizing a loan from the Colorado Water Resources and Power Development Authority for the Lead Service Line Replacement Program."

Attachments:

1. CO DWRF Loan Presentation



Colorado Drinking Water Revolving Fund Loan – Lead Service Replacement and Identification

**Water & Sewer Board
June 26, 2024**

Drinking Water Revolving Fund Loan

DWRF uses seed money from the US EPA to make low interest loans to Public Drinking Water Systems in the state. Payments on the loans are then leveraged for further loans.

- Applications reviewed and approved by the Colorado Water Resources and Power Development Authority;
- Administered by Colorado Department of Public Health and Environment;
- Credit reviews by the Colorado Department of Local Affairs.

The 2021 Bipartisan Infrastructure Law added additional funding to states' revolving funds (\$11.7B) and funded loan forgiveness of Lead Replacement projects (\$15B).

Drinking Water Revolving Fund Loan

Our loan application for the Lead Service Identification and Replacement project was approved:

- \$20,910,725 loan at 3.5% interest rate for up to 30 years.
- \$10,000,000 in principal forgiveness from the BIL funding.

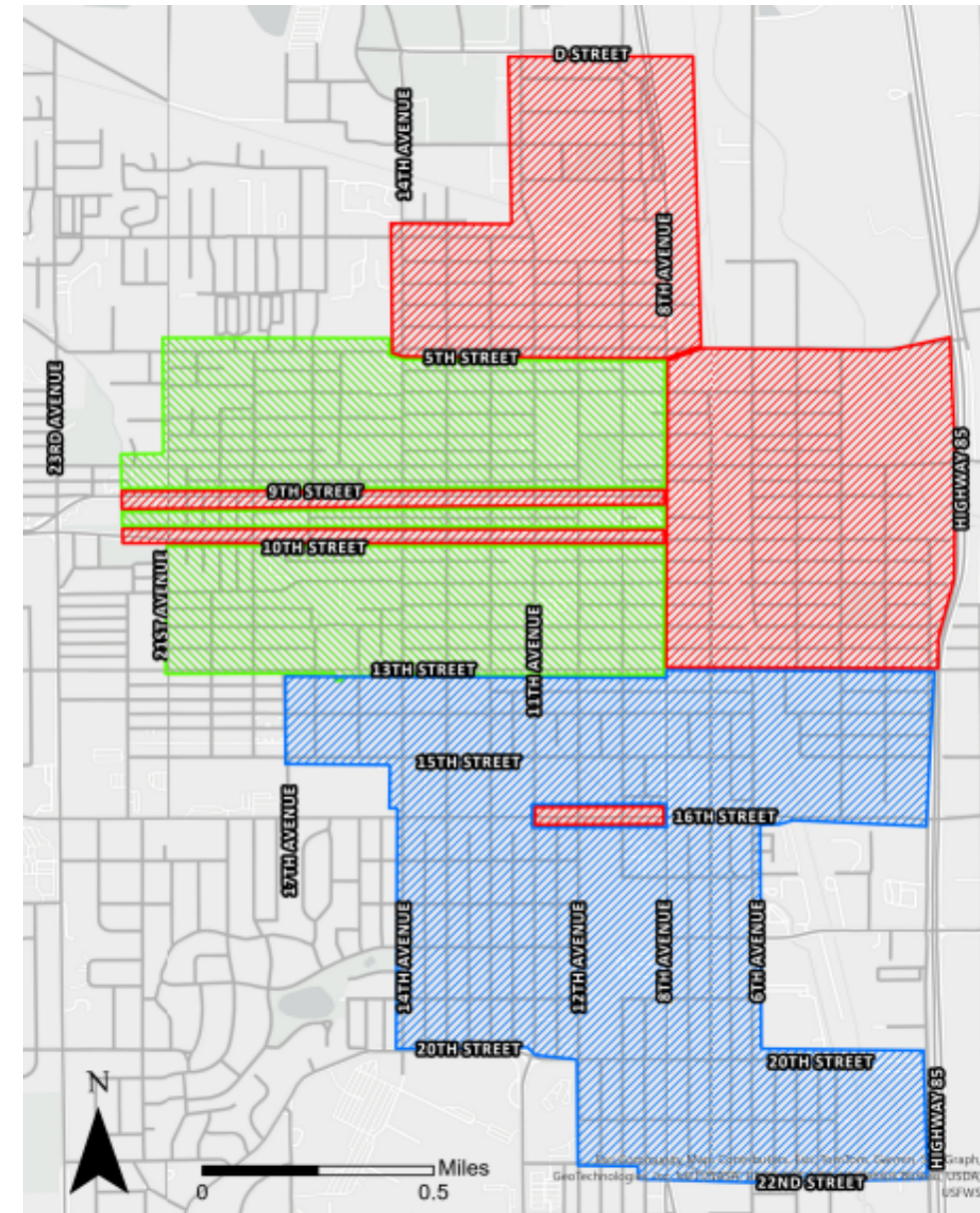
Federal Funding Requirements:

- Davis Bacon Wages, Disadvantaged Enterprises Six Good Faith Efforts, Buy America-Build America, and
- **State Historical Preservation Office Review**

We separately have received a \$250,000 grant from the WQCD for Lead Service Identifications.

SHPO Region

- Estimate for total project cost for Lead Service Identification and Replacement and associated work citywide is \$27M (2023 – 2026+).
- Phase 1 (not pictured) and Phase 2 (red) Potholing work being done prior to funding.
- Phases 2 (red) Replacements, 3 (green), and 4 (blue) SHPO Review Region: \$21M costs for the loan represents the At-Risk Region not already done. Area of the city considered most at risk for service lines needing replacement.
- Phase 5: outside the at-risk region and not included in funding.
- Additional project components such as the Pipe Loop Study were deemed not eligible by the CDPHE.



Timing

- Water and Sewer Board Resolution – June 26
- City Council Ordinance - July 16 (first reading) and August 6 (final reading)
- SHPO Review and Clearance to Proceed – Expected in July 2024 with updates for each phase to be provided in the future.

Thank you





Water & Sewer Agenda Summary

June 26, 2024

Key Staff Contact: Keri Fishlock, Engineer

Title:

Recommend Council Approve an Ordinance Prohibiting Lead Pipes

Summary:

The Environmental Protection Agency's (EPA) Lead and Copper Rule Revisions (LCRR) require the city to develop an inventory of all public and private water service line materials and remove lead service lines. Department staff and the City Attorney's Office have prepared a new ordinance to help achieve the City's goal to replace all the lead service lines in the City. Consistent with the proposed ordinance, staff has prepared a policy that describes the city's lead pipe service line replacement program and the financial assistance available to the City's residents and private water systems.

Recommended Action:

Recommend City Council adopt an ordinance prohibiting lead water service lines substantially in the form attached.

Recommended Motion:

"I move that the Board recommend City Council adopt an ordinance prohibiting lead water service lines substantially in the form attached."

Attachments:

1. 8. Lead Ordinance and Policy Recommendation
2. Lead Program Policy (for information)
3. Lead Ordinance for Recommendation
4. Lead Protection Phasing & Schedule Map



Lead Service Line Ordinance (For Recommendation)

Adam Prior
Chief Engineer

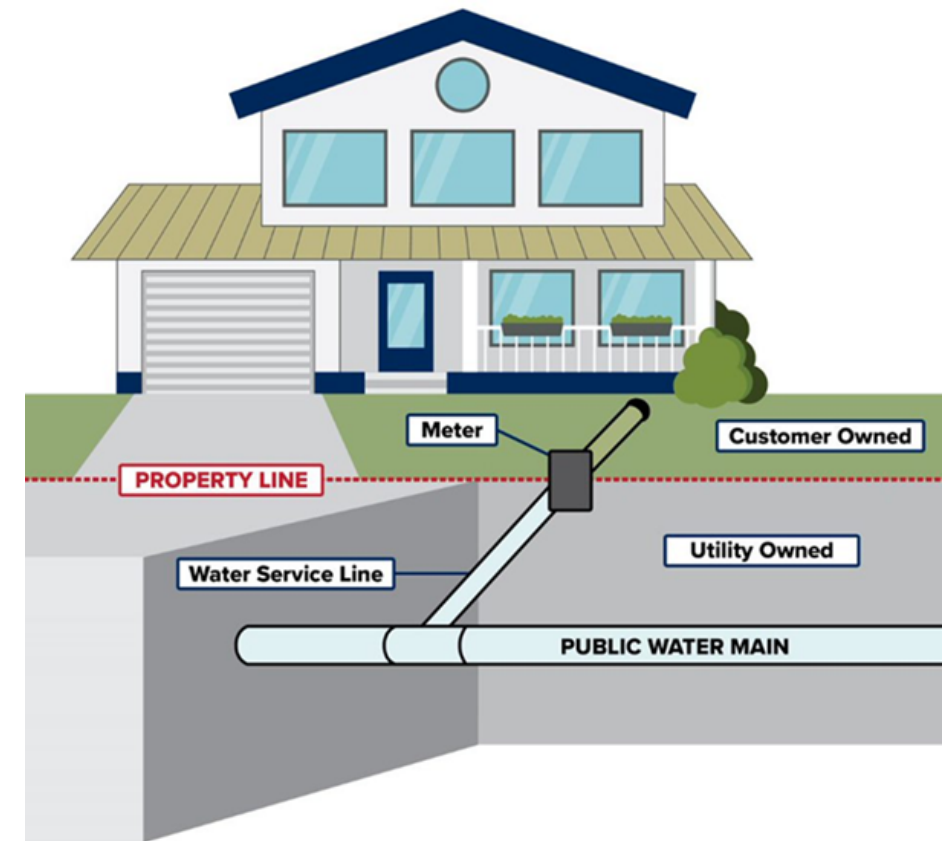
Keri Fishlock
Project Manager



Water & Sewer Board Presentation
June 26th, 2024

Lead Protection

- The Lead and Copper Rule Revision (LCRR) issued by the EPA requires the city to develop an inventory recording the material status of every water service line in the city.
- This includes the utility owned and customer owned portions of the service line.
- The LCRR dictates a mandatory rate of replacement. If water quality tests exceed LCRR that would trigger additional requirements.
- The City of Greeley aims to replace all lead by the end of 2026.



Lead Protection Program Approach:

W&S Individual Customers:

- Public and Private Side Service lines are included in city investigation and inventory.
- Methods of investigation include basement inspections, potholing and recorded date of installation.
- The city will replace customer-owner service lines containing lead up to value of \$10k.

Private Systems:

- Responsible to submit their own investigation and inventory – with reimbursement available for potholing (if required)
- Responsible to preform any replacements required – with reimbursement available up to value of \$10k per service line replaced.

Lead Protection Program Plan

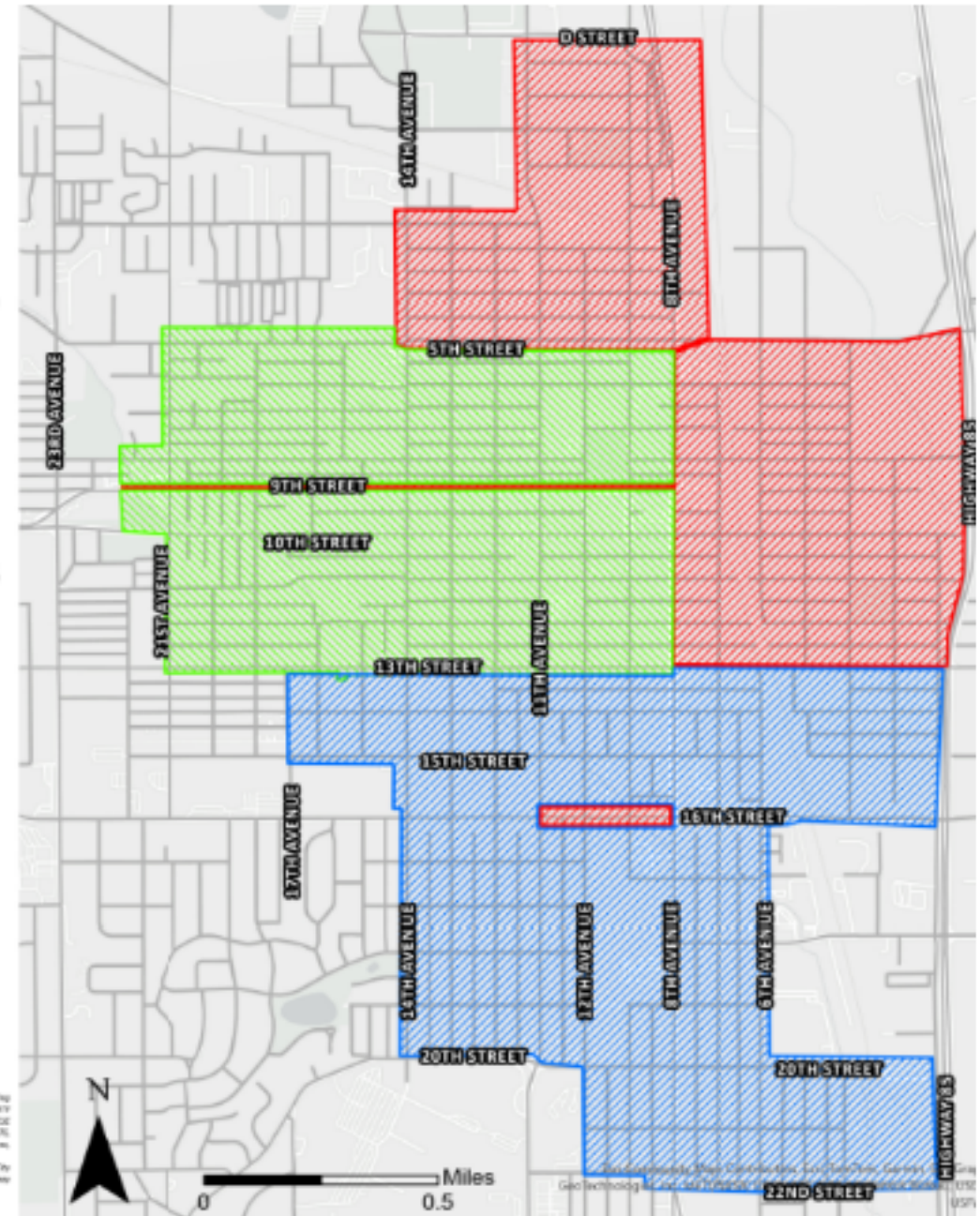
Phase boundaries and timing are subject to changes and delays.

-  **Phase 2** - Potholing: Winter 2023/Spring 2024
- Replacements: Spring/Summer 2024
-  **Phase 3** - Potholing: Fall 2024
- Replacements: Winter 2024/Spring 2025
-  **Phase 4** - Potholing: Spring/Summer 2025
- Replacements: Summer/Fall 2025

Phase 5 includes select properties outside these phased boundaries. Potholing is scheduled for Winter 2025/Spring 2026 and replacements in Summer/Fall 2026



The City makes no representation or warranty as to its accuracy or completeness, and in particular, its accuracy in labeling or displaying dimensions, various property boundaries, or placement or location of any map features shown. THE CITY OF GREELEY MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND OR FOR ANY PARTICULAR PURPOSE, EXPRESS OR IMPLIED, WITH RESPECT TO THESE MAP PRODUCTS OR THE UNDERLYING DATA. Any users of these map products, map applications, or data, accepts same AS IS, WITH ALL FAULTS, and assumes all responsibility for the use thereof, and further warrants and agrees to hold the City harmless from and against all damages, loss, or liability arising from the use of this map product. In consideration of the City's having made this representation and disclaimer, and in full and complete satisfaction of all claims and demands, the user of these map products, or the underlying data, The City disclaims, and shall not be held liable for any and all damages, loss, or liability, whether direct, indirect, or consequential, which arises or may arise from these map products or the use thereof by any person or entity.



Gaining Consent for Replacements

- The city requires the property owner to provide written consent before replacing the customer-owned portion of the service line.
- During our first replacement phase, 12 of 62 property owners did not provide their consent.
- An additional 3 property owners could not provide safe access for the replacement to take place.



Lead Ordinance

- We propose a new City Ordinance to support the Lead Protection Program.
- We are seeking Water Board recommendation to take the ordinance to City Council for approval.
- The Lead Protection Program Policy is also provided for informational purposes.



Proposed City of Greeley Ordinance

- Mandates that all potable lead service lines are prohibited and must be **replaced**.
- Prevents irrigation or other non-potable service lines being **repurposed**, unless proof is provided that they are constructed from approved materials.
- Defines the terms of our **access** to properties for the identification of lead service lines through potholing and other testing methods.



Proposed City of Greeley Ordinance

- Gives property owners 60 days to **respond** to City of Greeley notification of lead service line, and requires they **replace** any lead service lines before December 31, 2026
- Makes Private Water Systems responsible to provide an **inventory** of their system within 60 days when requested; and **replace** any lead lines before December 31st 2026.
- Makes Contractors responsible to report any lead they find in the City of Greeley.



Enforcement, Violations and Penalties

- If a property owner fails to comply:
 - The City may record a notice of lead service line against the property
 - The property may be charged a monthly administrative fee set by resolution of the water and sewer board.
- The city may require the property owner to replace the lead service line prior to:
 - Transfer of water account to new tenant or owner
 - Issuing a permit

Enforcement, Violations and Penalties

After December 31, 2026, the director may also, upon providing six months notice to the property owner, turn off water to the structure or building that is being served by the lead service line until it has been replaced.

Enforcement, Violations and Penalties

- The director may adopt rules, regulations, programs, or policies consistent with this section as may be reasonably necessary to assist property owners in the replacement of any lead service line or water line, including but not limited to in-kind services, or to aid in the administration and enforcement of this section.
- A violation of this section shall be deemed an administrative code violation and shall be subject to penalties set forth in chapter 10 of title 1 of this Code.

City Ordinance - Alternatives Considered

Alternative Considered:	Comments
1. Take No Action	This could result in lead service lines being connected to our system indefinitely & potential health impacts of lead to residence.
2. Adopt city ordinance mandating replacements without the need for property owner consent.	This could be perceived as an overly authoritarian from City.
3. Adopt city ordinance that strategically supports Lead Program	This approach seeks a middle ground to strengthen the lead protection project and protecting residence.

Recommendation

- Staff recommends that the Water and Sewer Board approve and recommend that City Council adopt the changes to the Greeley Municipal Code in the form of the enclosed ordinance.

Future Steps



Proposed Ordinance to City Council

- July 16th (1st Reading)
- August 20th (Final Reading)

Thank you & Questions





Lead Service Lines: Inventory & Replacement Program Policy

06.18.2024

Reference Documents

- Consent Form
- Proposed City Ordinance
- Lead Protection Program Plan
- CDPHE LCCR Regulations

Introduction

As part of our Lead Inventory & Replacement Program, the City of Greeley is working to find and replace private water service lines that contain lead or are lead contaminated. Under Section 20-122 of the Greeley Municipal Code, the property owner is responsible for the installation, maintenance, and repair of the water service line and fittings from the property line to the residence, including the meter pit. However, under the Revised Lead and Copper Rule (LCRR) issued by the Environment Protection Agency (EPA), the City of Greeley is required to create an inventory recording the material of these service lines. Where lead service lines are discovered, the city is assisting customers with replacement of these.

This document lays out our policy for administering this program, and our approach to both individual customers and private systems (such as HOA's, trailer parks and other entities).

All Customers / General

The following applies to all Water & Sewer Customers (including those designated as private water systems):

1. All customers are included in the water service line inventory performed by City of Greeley. All properties will be assigned a status of non-lead, lead or unknown by October 2024.
2. Properties identified with private-side water service lines constructed of lead or galvanized steel requiring replacement (GRR) will be eligible for a free or subsidized replacement performed by the City of Greeley or representatives.
3. Properties identified with galvanized steel private-side water service lines that are documented as always being downstream of non-lead materials are not considered GRR. These properties do not qualify for a free or subsidized replacement.
4. Any state or federal funded facilities will not receive City financial assistance since they have other State and Federal funding available.
5. If a customer has access to additional federal or state funding, and the City performs the replacement, the City may request their assistance to claim these funds.

Individual Water & Sewer Customers

1. Customers may be requested to allow access to their building for an inspection of their water service line.
2. Customers will be notified 2 weeks prior to potholing activities taking place on their property unless in an emergency.
3. Permission from the customer is not required per Greeley Municipal Code Sec. 20.85 to perform a pothole on their property.
4. Where feasible, potholes will be positioned in a location that will cause the least disturbance/damage to the property. For example, placing a pothole in softscape instead of on a concrete driveway.
5. If a customer refuses water service line material determination options, their water service line will be recorded as UNKNOWN and will be treated as a possible lead service line. The owner who opposes water service line material determination options shall fall under the same consequences as an owner who declines consent for a replacement.
6. The City will replace private service lines up to a maximum cost of \$10,000. Beyond this cost, the property owner shall be required pay the additional amount.

Private Systems

1. Private Systems that are registered as Public Water Systems with the CDPHE are responsible to follow CDPHE regulations and submit their inventory to directly to CDPHE. In addition to their statutory requirements to the CDPHE, the City of Greeley Ordinance will require these systems to submit an inventory to the City of Greeley to ensure the public health of its citizens.
2. Private Systems that are not yet registered with the CDPHE will be required to submit an inventory to the City of Greeley. The City of Greeley will include these properties in the City of Greeley inventory.
3. All Private Systems are responsible to conduct their own inventory of their system. The inventory shall include each individual water service line. The inventory should comply with the current CDPHE requirements and guidelines.
4. An initial inventory is due October 2024 including the following items:
 - List of service lines and addresses served,
 - List of construction dates for buildings.
 - Full review of available water system records
 - Visual inspection results
5. For Private Systems constructed from January 1st, 1981, the system can be considered as non-lead.
6. If the historical review and inspections provide evidence that non-lead materials were used for buildings constructed after 1960 then all buildings built after this date can be considered “non-lead”. If lead is found, then further verification and investigation will be required according to CDPHE protocol.
7. Properties built before 1960 shall require full verification, that is a trustworthy historical record, visual inspection, physical potholing verification or combination thereof.
8. If potholing is required to remove “unknowns” from the initial inventory, this shall be the responsibility of the Private System but will be reimbursable at up to \$1,000 per property if completed by December 2025. The City of Greeley shall provide Private Systems with an inventory form and a guidance handout on verification methods.
9. The Private System are responsible for their own water service line replacements. The City of Greeley will reimburse them up to \$10,000 per service line connection or at fair

market value of the actual replacement costs. The work must be completed to City of Greeley Water & Sewer Criteria by a licensed plumber and approved by City of Greeley Building Inspections. All pipes, fittings and materials must be compliant with plumbing code for potable drinking water. City of Greeley Design Criteria and Construction Specifications, Volume 3 and their most recent addition.

10. The City may assist Private Systems with removal of additional lead within their system at the discretion of the Water & Sewer Director or designee.
11. All replacements must be completed by December 2026 to receive reimbursement.
12. Failure to complete the inventory and all necessary replacements before 2026 shall result in further actions detailed in the ordinance including the option to turn off their water supply.

CITY OF GREELEY, COLORADO
ORDINANCE NO. _____, 2024

**AN ORDINANCE AMENDING TITLE 20, CHAPTER 3 OF THE GREELEY
MUNICIPAL CODE RELATING TO THE PROHIBITION OF LEAD PIPES**

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

WHEREAS, Section 17-4 of the City Charter and Section 20-30 of the Greeley Municipal Code authorize and require the Board to acquire, develop, convey, lease, and protect water and sewer assets, supplies, and facilities; and

WHEREAS, under Colorado Revised Statute 31-15-401, City Council is authorized to do all acts and make all regulations which may be necessary or expedient for the promotion of health; and

WHEREAS, the United States Environmental Protection Agency (the "USEPA") adopted regulations to control lead and copper in drinking water and the Colorado Department of Public Health and Environment (CDPHE) directed the City to replace lead service lines in accordance with the USEPA's lead and copper rule; and

WHEREAS, the City believes that providing clean, lead-free drinking water to its residents is a public purpose beneficial to the City as a whole and any benefit to any private landowner in accomplishing this purpose is incidental and subordinate to this primary public and governmental purpose; and

WHEREAS, in 2023, the City created a comprehensive plan to protect residents that may be exposed to lead in their drinking water due to lead pipe service lines or lead pipe within or connected to a private potable water system; and

WHEREAS, in addition, the City created a program to replace lead pipes on private property ("Lead Service Line Replacement Program") and to protect its residents from the potential dangers of lead in the water; and

WHEREAS, some property owners with lead pipes are not providing consent for the Lead Service Line Replacement Program as fast as is necessary to immediately and effectively achieve regulatory compliance and protect the health and safety of its residents; and

WHEREAS, for the health, safety and welfare of its residents, City Council desires to maintain compliance with the lead and copper rule and all other related state and federal regulations by requiring all property owners to replace lead pipe service lines or any lead pipes within or connected to a private potable water systems at their own expense.

**NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF GREELEY,
COLORADO:**

Section 1. That Section 20-193 contained in Chapter 3 Article III Division 3 of Title 20 of the Greeley Municipal Code shall be amended as shown in Appendix A, attached hereto and incorporated herein.

Section 2. Except as explicitly modified in Appendix A, all other provisions of Title 20 of the Greeley Municipal Code shall remain in full force and effect.

Section 3. This Ordinance shall take effect on the fifth day following its final publication, as provided by Section 3-16 of the Greeley City Charter.

**PASSED AND ADOPTED, SIGNED AND APPROVED ON THIS ____ DAY OF _____,
2024**

ATTEST

THE CITY OF GREELEY, COLORADO

By: _____
City Clerk

By: _____
Mayor

APPENDIX A

ORDINANCE AMENDING TITLE 20, CHAPTER 3 OF THE GREELEY MUNICIPAL CODE RELATING TO THE PROHIBITION OF LEAD PIPES

Section 1. That Section 20-193 contained in Chapter 3 Article III Division 3 of Title 20 of the Greeley Municipal Code be amended to read as follows:

Sec. 20-193—~~Reserved~~ Lead Pipe Prohibited.

(a) Definitions. The following words, terms, and phrases, when used in this section, shall have the meaning ascribed to them in this subsection (a):

Lead pipe service line or lead pipe water line means all or any portion or component of a pipeline that is made of lead, galvanized steel that is or may have been previously located downstream from a pipeline made of lead, or an unknown or unverified material.

Private potable water system means a water system, located wholly within the city, that is connected to the city's water system but privately owned and maintained. A private potable water system includes systems that are: (1) connected to the city's water system through a master meter, (2) designated as a "private potable water system" by the property owner during development of the property, or (3) considered a "public water system" under Colorado Department of Health and Environment policies and regulations.

(b) Prohibition. Lead pipe service lines or water lines that are used to provide potable water service to any property within the city are prohibited and any existing lead pipe service line or water line used for potable water service must be replaced in accordance with this section. No water line, including but not limited to fire, irrigation, or non-potable water lines, may be repurposed for potable water service or any other type of water service until the city determines, based on satisfactory evidence provided by the property owner, that the line is not a lead pipe water line.

(c) Access. The city is authorized to access any property in such areas as it deems necessary and appropriate to identify lead pipe service lines or water lines through potholing or other appropriate testing techniques. Without limiting the city's authority under section 20-85, the City will provide no less than forty-eight (48) hours notice to the property owner if testing requires potholing or similar ground disturbance, except in cases of emergencies. Upon receipt of such notice, the property owners shall ensure safe access to any areas the city deems necessary and appropriate to conduct such testing.

(d) Service Lines. Beginning [effective date of ordinance], all property owners shall contact the city within sixty (60) days if they receive notice or knowledge that their property is being served by a lead pipe service line. After receiving such notice or knowledge, the property owner shall replace the lead pipe service line at their own expense with a service line made from materials approved by the city on or before December 31, 2026, or within six (6) months of receiving such

notice or knowledge, whichever occurs later in time. Within thirty (30) days of replacing the lead service line, the property owner shall submit evidence satisfactory to the city that the lead service line has been replaced. This section does not apply to property owners with a private potable water system.

(e) *Private Potable Water Systems.* Beginning [effective date of ordinance], all property owners with a private potable water system shall inspect and account for any lead pipe service lines or water lines within or connected to their system. Upon notice and request, the property owner shall have sixty (60) days to provide the city with an inventory of any lead pipe within or connected to their system. If the property owner identifies any lead pipe service lines or water lines within or connected to its system, then the owner shall replace the same at their own expense with a material approved by the city on or before December 31, 2026. Within thirty (30) days of replacing the lead service lines or water lines within or connected to its system, the property owner shall submit evidence satisfactory to the city that the lead service line has been replaced.

(f) *Contractors.* Any contractor conducting work on any property within the city shall notify the city within sixty (60) days if they obtain notice or knowledge that the property for which they have been hired to provide services is being served by a lead pipe service line or water line.

(g) *Enforcement, Violations, and Penalties.*

- (1) If a property owner fails to comply with section (d) or section (e), as applicable, and the city receives notice or knowledge that the property is being served by a lead pipe service line or water line, then the city may record a notice of lead pipe service line or water line against the property and charge the owner a monthly administrative fee until the owner replaces all lead pipe. The administrative fee shall be set by resolution of the water and sewer board. In addition to the notice and fee, the city may require the owner to replace the lead pipe service line or water line prior to transferring the property's water service account to a new owner or tenant or issuing any permit for the property required by this Code. After December 31, 2026, the director may also, upon six (6) months notice to the property owner, turn off water to the property or the private potable water system until the identified lead pipe service lines or water lines have been replaced.
- (2) The director may adopt policies or establish programs consistent with this section as may be reasonably necessary to assist property owners in the replacement of any lead service line or water line, including but not limited to financial reimbursements and in-kind services, or to aid in the administration and enforcement of this section.
- (3) A violation of this section shall be deemed an administrative code violation and shall be subject to penalties set forth in chapter 10 of title 1 of this Code.

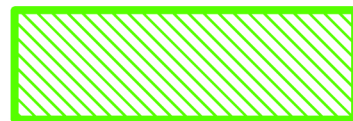
Lead Protection Program Plan

Phase boundaries and timing are subject to changes and delays.



Phase 2

- Potholing: Winter 2023/Spring 2024
- Replacements: Spring/Summer 2024



Phase 3

- Potholing: Fall 2024
- Replacements: Winter 2024/Spring 2025



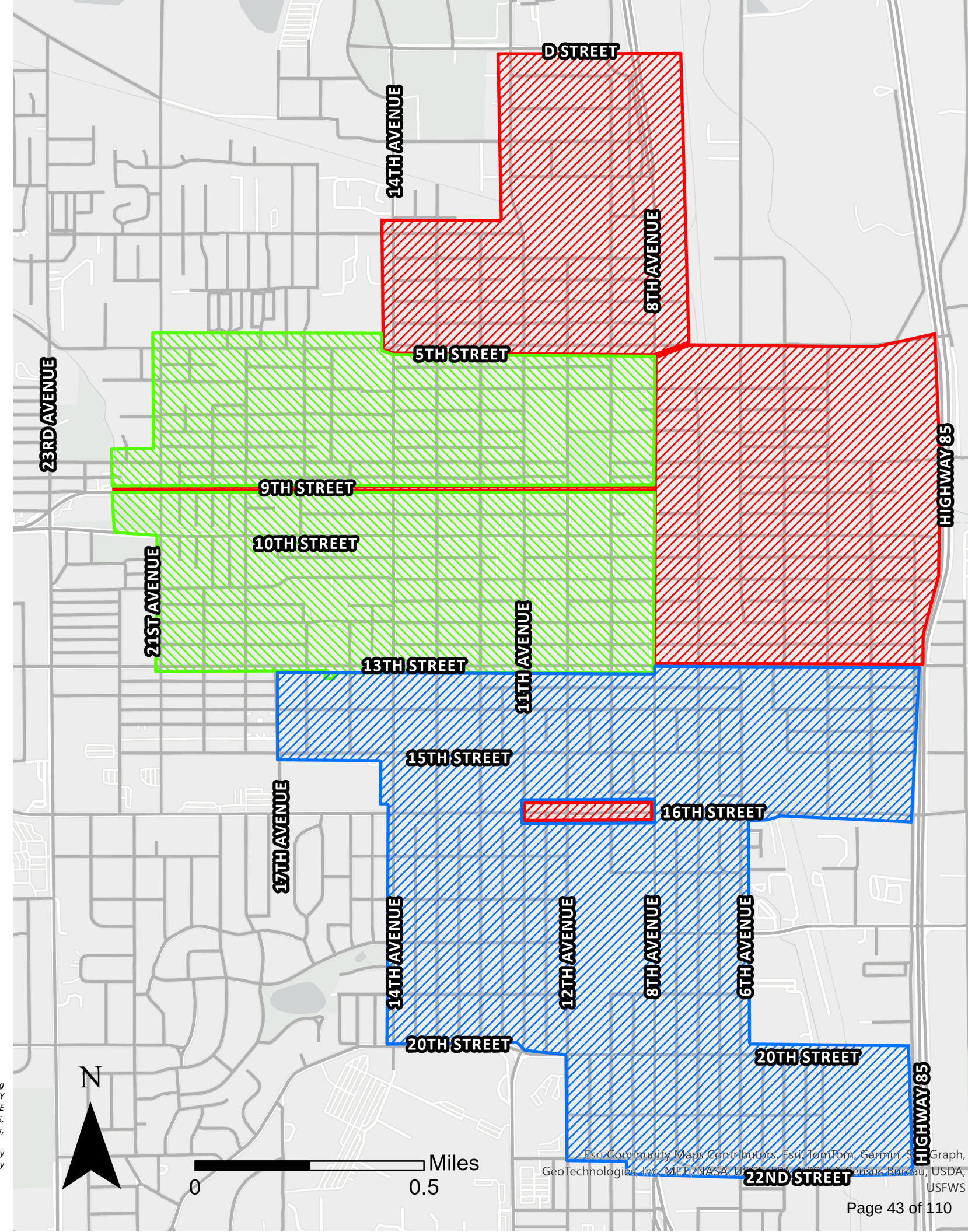
Phase 4

- Potholing: Spring/Summer 2025
- Replacements: Summer/Fall 2025

Phase 5 includes select properties outside these phased boundaries. Potholing is scheduled for Winter 2025/Spring 2026 and replacements in Summer/Fall 2026



The City makes no representation or warranty as to its accuracy or completeness, and in particular, its accuracy in labeling or displaying dimensions, contours, property boundaries, or placement or location of any map features thereon. THE CITY OF GREELEY MAKES NO WARRANTY OF MERCHANTABILITY OR WARRANTY FOR FITNESS OF USE FOR A PARTICULAR PURPOSE, EXPRESSED OR IMPLIED, WITH RESPECT TO THESE MAP PRODUCTS OR THE UNDERLYING DATA. Any users of these map products, map applications, or data, accepts same AS IS, WITH ALL FAULTS, and assumes all responsibility for the use thereof, and further covenants and agrees to hold the City harmless from and against all damage, loss, or liability arising from any use of this map product, in consideration of the City's having made this information available. Independent verification of all data contained herein should be obtained by any user of these map products, or the underlying data. The City disclaims, and shall not be held liable for, any and all damage, loss, or liability, whether direct, indirect, or consequential, which arises or may arise from these map products or the use thereof by any person or entity.





Water & Sewer Agenda Summary

June 26, 2024

Key Staff Contact: Rebecca Andrus - Deputy Director of Water and Wastewater Operations

Title:

Discussion of Backflow Tier 2 Reporting Violation

Summary:

On May 1, 2024, Water and Sewer Staff submitted the annual Backflow Prevention and Cross-Connection Control Program (BPCCC) report to CDPHE. On June 7, 2024, CDPHE issued 2 violations. Water and Sewer Staff are responding to the violations and enhancing the BPCCC program to prevent future violations.

Recommended Action:

Informational Only

Recommended Motion:

N/A

Attachments:

1. 9-Backflow Drinking Water Public Notification
2. 1. Backflow Public Notice on WS letterhead
3. 2. Revised Public Notice FAQ



Backflow Drinking Water Public Notification

Water and Sewer Board – June 26, 2024



High Performance Government

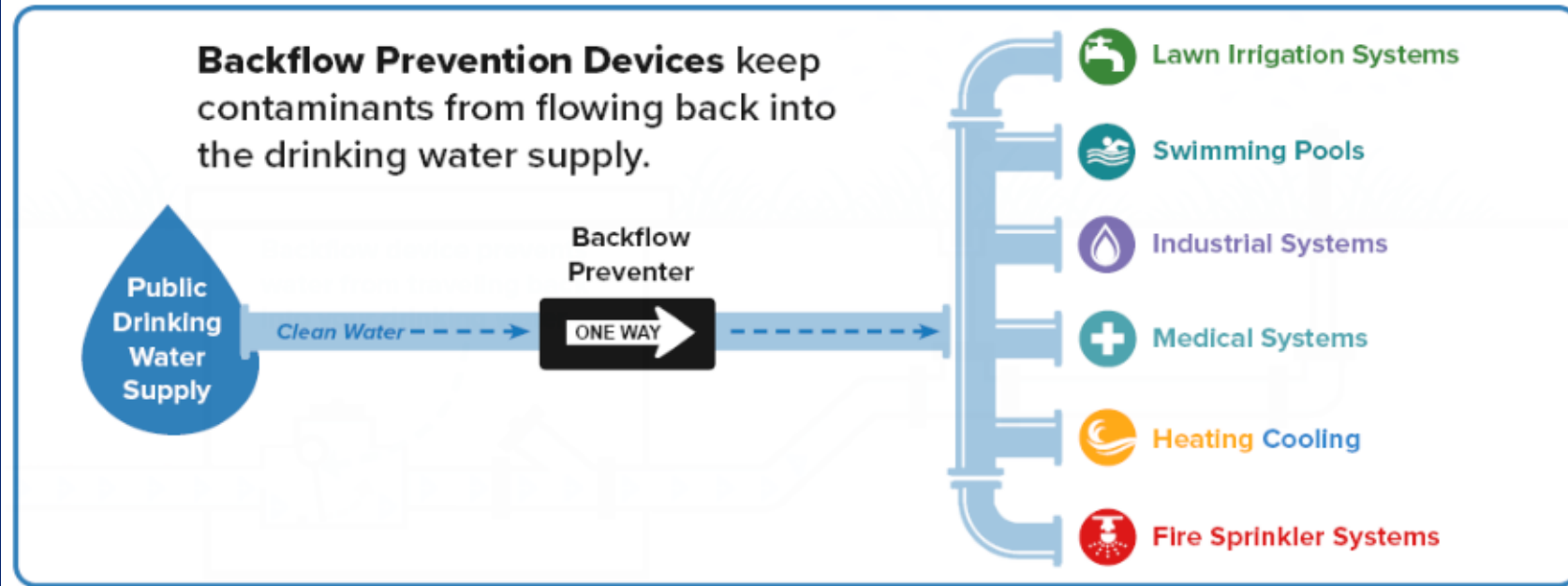
Agenda



- Background
- Timeline for violation notification
- Greeley Response
- Purpose - Sharing Information

Background

Backflow Prevention and Cross-connection Control Program (BPCCC)



- A backflow prevention device is used to protect potable water supplies from the potential for contamination or pollution that could impact water quality due to backflow.
- Backflow assemblies are an added line of defense to ensure that water only flows one way through water pipes.
- Regulations require certified testers to perform annual tests on backflow prevention assemblies to verify they work correctly.
- City is required to ensure that these tests are performed regularly and correctly

Background



- Drinking water is and has been safe
- No indications of any backflow event
- CDPHE updated BPCCC Program in October 2023
- Software Change and Configuration
- Staffing BPCCC Program

Timeline

May 1

W&S Staff submitted BPCCC report to CDPHE and self-reported violations for 2023

June 7

CDPHE issued two Backflow Drinking Water violations to Greeley

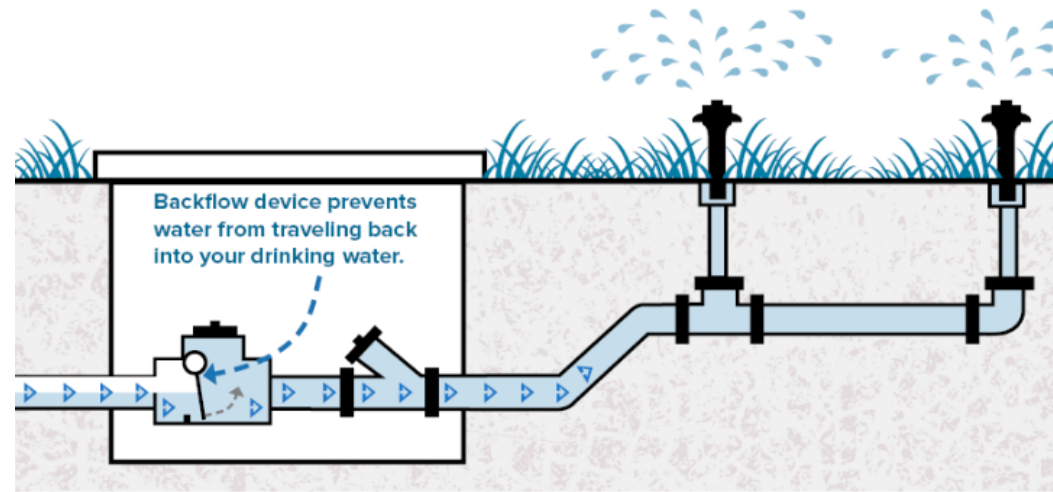
By July 7

Greeley is to provide Public Notification to all customers for the Backflow Drinking Water Violations – Notifications are being provided in Utility Bills and by direct mail

**Before
September 5**

Greeley W&S staff will correct violations per the response plan provided to CDPHE

Response



W&S Staff is adhering to all CDPHE requirements for notification and response.



Increased Staffing – added Backflow Supervisor, another Cross Connection Technician, and Administrative Staff



Updating Ordinance, design standards, web page, and program documents



Working with CIS to move Backflow Database into SpryBackflow for better integration

Questions





IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

City of Greeley – CO0162321

Dear Greeley Water customer,

The City of Greeley's water system recently self-reported violations of State of Colorado drinking water requirements. This notification provides details to let you know what happened and what we are doing to correct the violations.

The City of Greeley received the following violations and is working quickly to bring the record keeping into compliance:

1. Failure to address uncontrolled cross connections within regulatory timelines.

- Explanation: Some backflow assemblies that failed their annual test in 2023 were not repaired, replaced, or disconnected from the system within the required 120 days.
- Resolution: Since then, most of these assemblies have passed annual testing. The city expects that all of these assemblies will comply by August 1, 2024.

2. Failure to meet annual backflow prevention compliance ratio of 0.90.

- Explanation: The city must ensure that 90% of all backflow prevention assemblies are tested each year. In 2023, the city fell short of that requirement, testing 83% of backflow prevention assemblies.
- Resolution: The city is ensuring that testing occurs this year on assemblies not tested in 2023. Moving forward, we are implementing procedures to ensure at least 90% of assemblies are tested annually.

3. Failure to show tests for all backflow prevention assemblies and methods within the last two calendar years.

- Explanation: The city did not receive annual tests for a number of backflow prevention assemblies in the last two calendar years.
- Resolution: The city is bringing these assemblies into compliance.

What do these violations mean? What should I do?

- Nothing indicates that a backflow event occurred, the water supply remains safe, and **no action is required of residents at this time.**
- Uncontrolled cross connections can lead to a back pressure or siphonage event that may allow contaminants or disease-causing organisms to enter the drinking water. Contaminants can cause diarrhea, nausea, cramps and associated headaches. If you have an infant, severely compromised immune system, are pregnant, or are elderly, you may be at increased risk. **Again, nothing indicates that a backflow event occurred, however, if you have specific health concerns, please consult your doctor.**
- Learn more about cross connections and backflow prevention at greeleygov.com/cross-connection.



No action is required of residents

What is being done?

The City of Greeley is prioritizing a return to compliance by requiring testing and repairing or replacing noncompliant backflow prevention assemblies. As the city prepares to implement a new Customer Information System (CIS), staff is assessing all backflow prevention and cross connection control data. The new CIS will incorporate utility billing and cross connection compliance, allowing better data management practices.

We anticipate resolving all violations by **August 31, 2024**. For updates, please go to greeleygov.com/cross-connection. If you have further questions, please contact Greeley Water at backflow@greeleygov.com or **970-350-9811**.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

Backflow Drinking Water Public Notice

Frequently Asked Questions

The City of Greeley takes great care in treating and protecting your water supply. Controlling cross-connections with backflow prevention is an important risk management strategy. The city has dedicated water utility staff who work with commercial, industrial, multi-family, and large irrigation customers to ensure these users consistently maintain and test their backflow prevention devices.

The following FAQs help you understand the city's backflow prevention and cross-connection control program and the current public notice for backflow violations. Our customers deserve to know what happened and what we are doing to correct this situation.

1. Is my water safe to drink?

Yes! The city's water has been consistently safe, and there are no indications of a backflow event. Greeley regularly monitors water quality throughout the distribution system and ensures all parameters are within regulatory limits. The city's water remains safe for drinking, cooking, bathing, and irrigating.

2. Why is the city sending a public notice and what do these violations mean?

The City of Greeley is sending public notices to all customers because the city's public water system received two violations from the state in our Backflow Prevention and Cross-Connection Control program. These violations stemmed mainly from record-keeping issues. The city is responsible for ensuring that customers with backflow assemblies maintain them properly. The City of Greeley is working diligently to strengthen the Backflow Program data, has hired additional staff, and has directly contacted properties with untested assemblies to ensure they comply.

3. What is a backflow prevention device?

A backflow prevention device is used to protect potable water supplies from the potential for contamination or pollution that could impact water quality due to backflow.



4. How do backflow assemblies protect my water quality?

Backflow assemblies are an added line of defense to ensure that water only flows one way through water pipes, from the public water system into businesses and homes, never the other way around. Regulations require certified testers to perform annual tests on backflow prevention assemblies to verify they work correctly.

If you have further questions about the notice's content, please contact Greeley Water at backflow@greeleygov.com or 970-350-9811, Option 2.

For more information about backflow and cross-connections, please visit Greeley's Backflow and Cross-Connection Control Program webpage at greeleygov.com/cross-connection

Aviso público sobre el retroflujo en el agua potable

Preguntas frecuentes

City of Greeley trata y protege el suministro de agua con sumo cuidado. Controlar las conexiones cruzadas para la prevención del retroflujo es una estrategia importante para la gestión de riesgos. La Ciudad cuenta con personal especializado en servicios públicos que trabajan con clientes comerciales, industriales, multifamiliares y grandes clientes de irrigación para asegurarse de que estos clientes hagan un mantenimiento sistemático de sus dispositivos de prevención del retroflujo y los sometan a pruebas.

Las siguientes Preguntas frecuentes lo ayudarán a comprender el programa de prevención del retroflujo y de control de las conexiones cruzadas de la Ciudad, además del aviso público actual por incumplimientos de los requisitos respecto del retroflujo. Nuestros clientes merecen saber qué sucedió y qué estamos haciendo para enmendar esta situación.

1. ¿Es seguro beber el agua potable?

¡Sí! El agua de la Ciudad es segura y no hay indicios de que haya habido un retroflujo. Periódicamente, Greeley controla la calidad del agua en todo el sistema de distribución y se asegura de que todos los parámetros estén dentro de los límites que establecen las reglamentaciones. El agua de la Ciudad sigue siendo segura para beber, cocinar, bañarse y regar.

2. ¿Por qué la Ciudad envía un aviso público y qué significan estos incumplimientos?

City of Greeley ha enviado un aviso público a todos los clientes porque el sistema público de agua de la Ciudad recibió dos incumplimientos del Estado como parte del Programa de Prevención del Retroflujo y Control de las Conexiones Cruzadas. Estos incumplimientos se originaron, principalmente, en temas de registro. La Ciudad es responsable de asegurarse de que los clientes con conexiones de prevención del retroflujo las mantengan adecuadamente. City of Greeley está haciendo todo lo posible por mejorar los datos del Programa de Prevención del Retroflujo, ha contratado más personal y se ha comunicado directamente con las viviendas que tienen conexiones no probadas para asegurar su cumplimiento.

3. ¿Qué es un dispositivo para la prevención del retroflujo?

Se usa un dispositivo para la prevención del retroflujo para proteger los suministros de agua potable de posibles contaminaciones o suciedad que pudiera afectar la calidad del agua por retroflujos.



4. ¿De qué manera las conexiones de prevención del retroflujo protegen la calidad del agua?

Las conexiones para la prevención del retroflujo son una línea de defensa adicional para garantizar que el agua solo fluya en una dirección dentro de los caños de agua, desde el sistema público de agua a los locales comerciales y las viviendas, y nunca a la inversa. Las reglamentaciones exigen que personal certificado haga pruebas anuales de las conexiones de prevención del retroflujo para verificar que funcionen correctamente.

Si tiene más preguntas sobre el contenido del aviso, puede comunicarse con Greeley Water en backflow@greeleygov.com o por teléfono al 970-350-9811, Opción 2.

Si necesita más información sobre el retroflujo y las conexiones cruzadas, visite el sitio web del Programa de Prevención del Retroflujo y Control de Conexiones Cruzadas de Greeley en greeleygov.com/cross-connection



Water & Sewer Agenda Summary

June 26, 2024

Key Staff Contact: Alex Tennant, Water Resource Administrator II

Title:

Water Supply and Runoff Update

Summary:

Runoff has peaked in the South Platte River basins. So far, the expected flows are at or slightly below average for total runoff. However, due to above average reservoir storage leading into last fall and winter, most of the Northern Colorado reservoirs entered irrigation season at full capacity. As we move through the summer, warm temperatures and variable projections for precipitation indicate abnormally dry to drought conditions could set in to Colorado. Staff is projecting that despite the variability, Greeley's system will remain above the action level of 21,300 ac-ft outlined in the Drought Response Plan.

Recommended Action:

Informational only

Recommended Motion:

N/A

Attachments:

1. Water Supply and Runoff Update

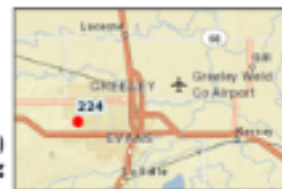
Water Supply and Runoff Update: June

Alex Tennant, Water Resources Admin II

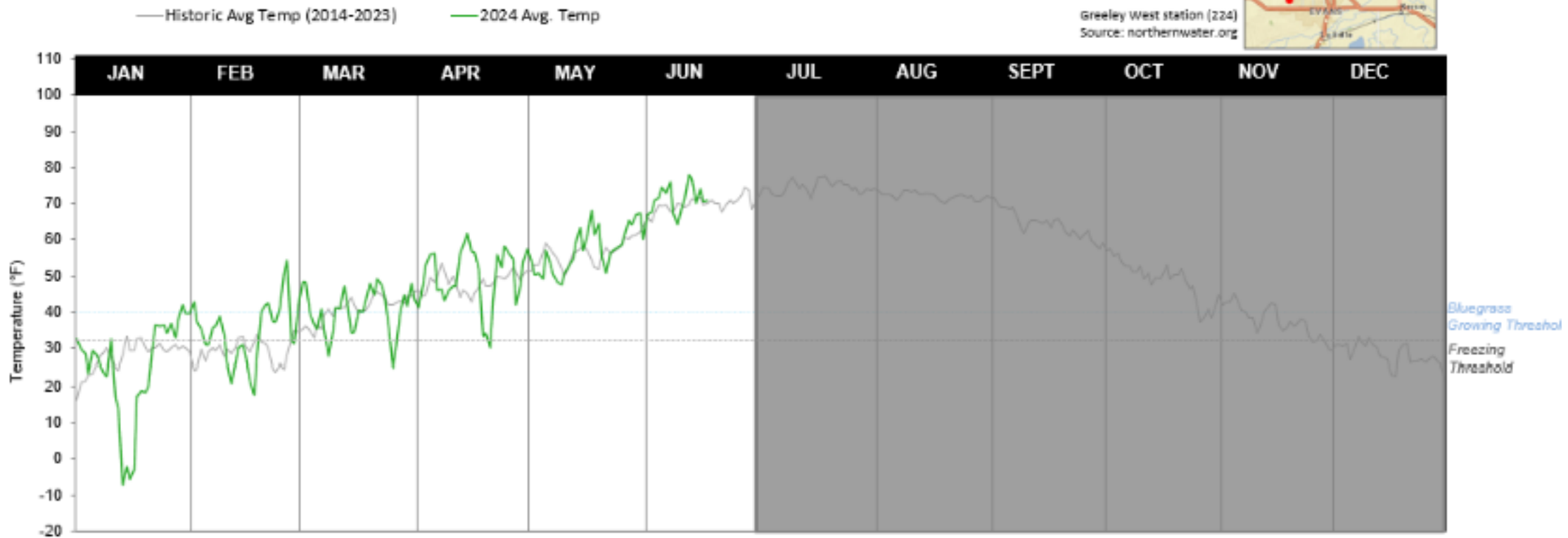
June 26th, 2024



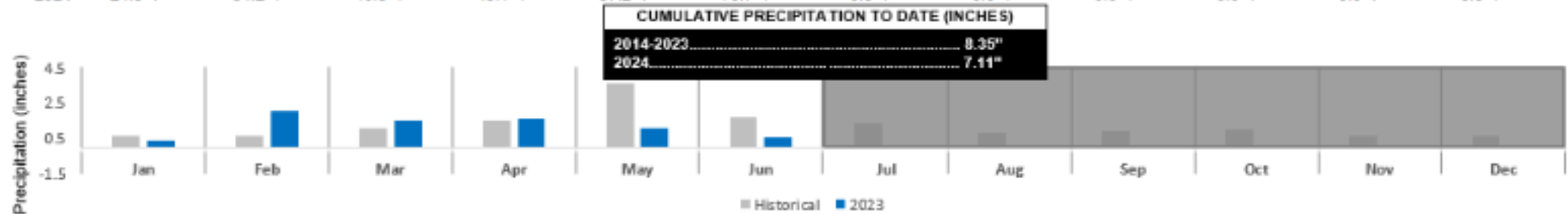
City of Greeley: Temperature (°F) and Precipitation 2024



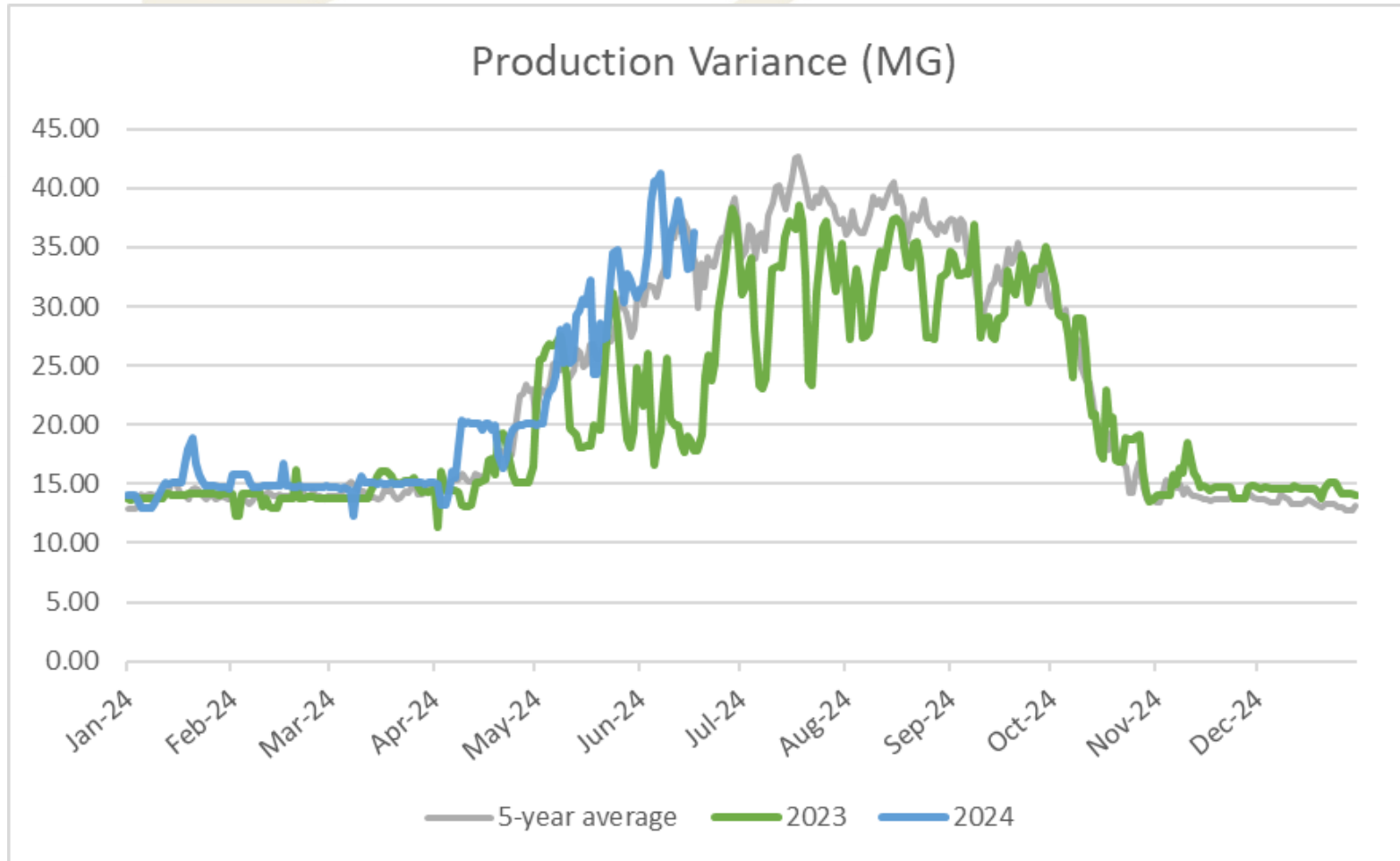
Greeley West station (224)
Source: northernwater.org



MONTHLY AVERAGE TEMPERATURE												
2014-2023	24.6° F	34.5° F	40.4° F	49.6° F	57.3° F	70.0° F	0.0° F	0.0° F	0.0° F	0.0° F	0.0° F	0.0° F
2024	24.6° F	34.2° F	40.3° F	49.1° F	57.2° F	70.7° F	0.0° F	0.0° F	0.0° F	0.0° F	0.0° F	0.0° F

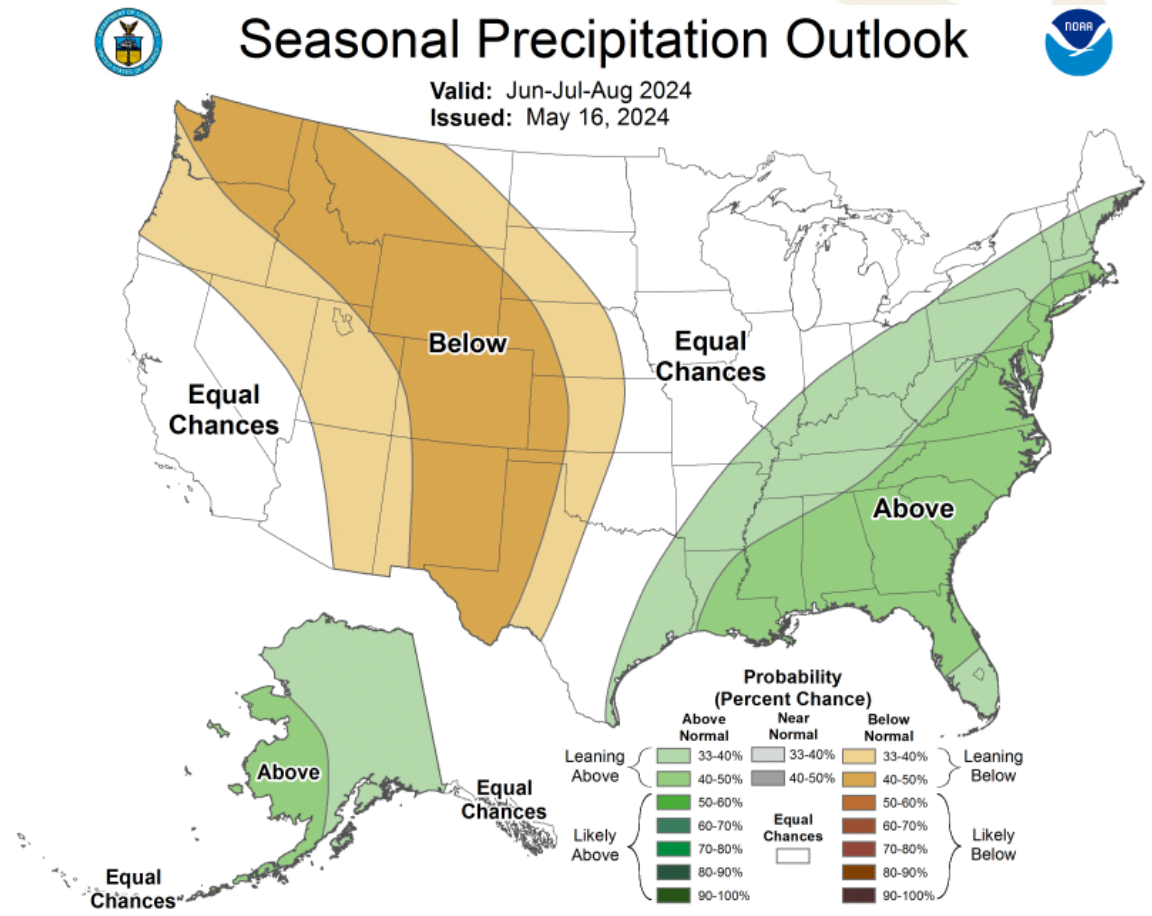
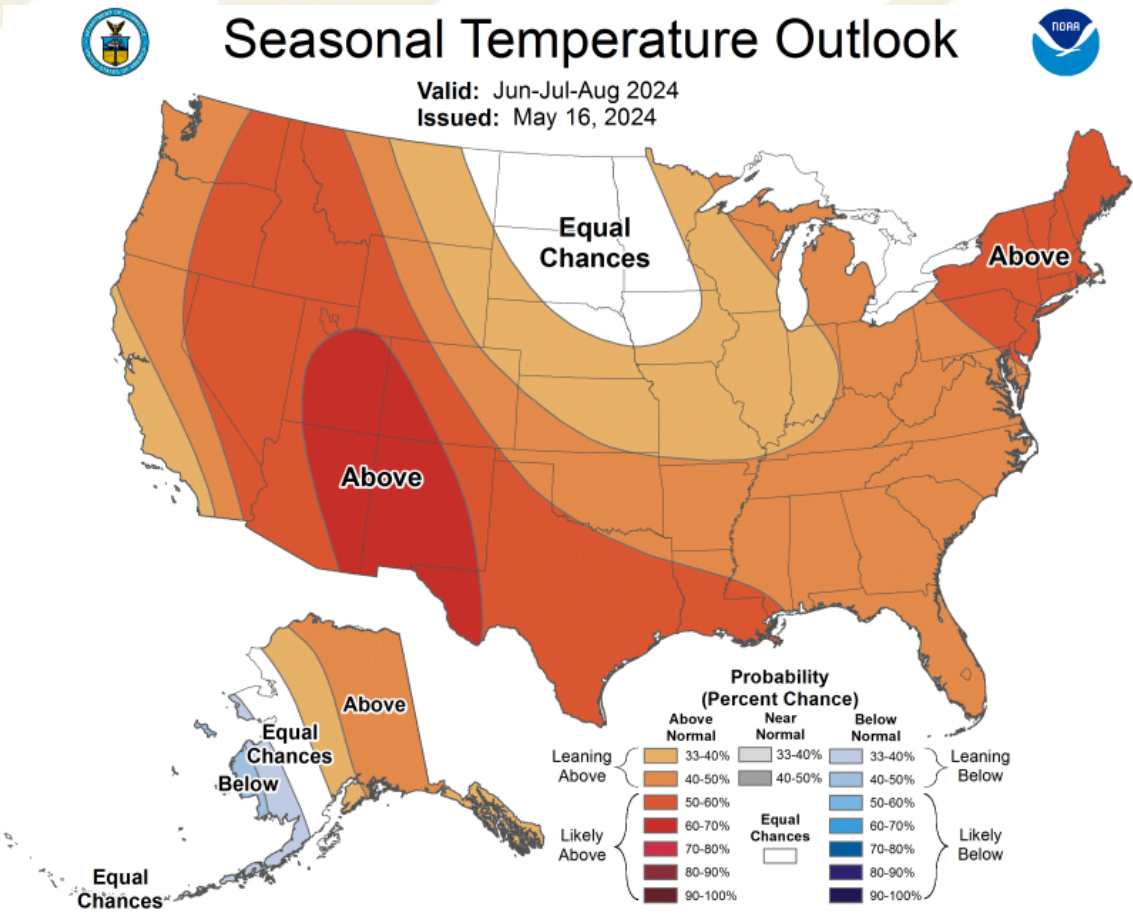


Production



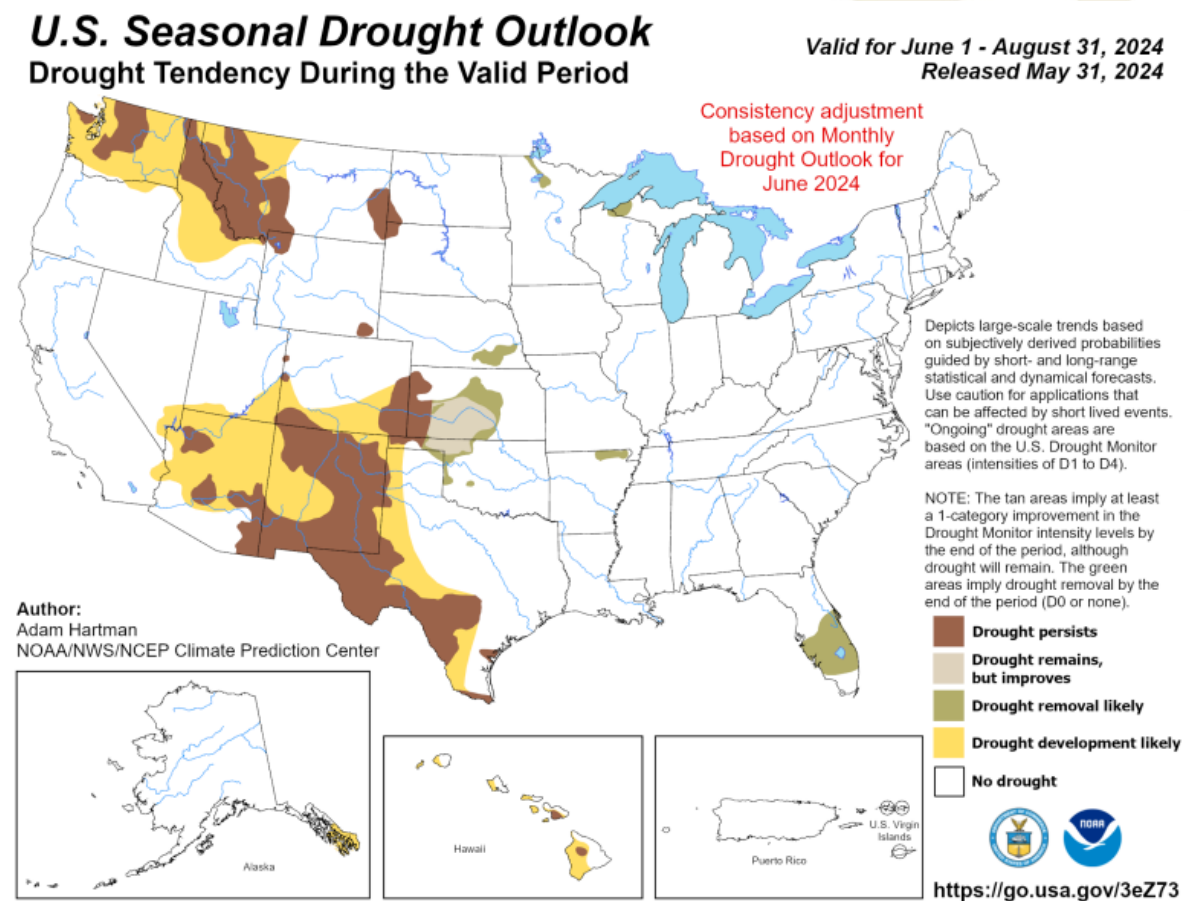
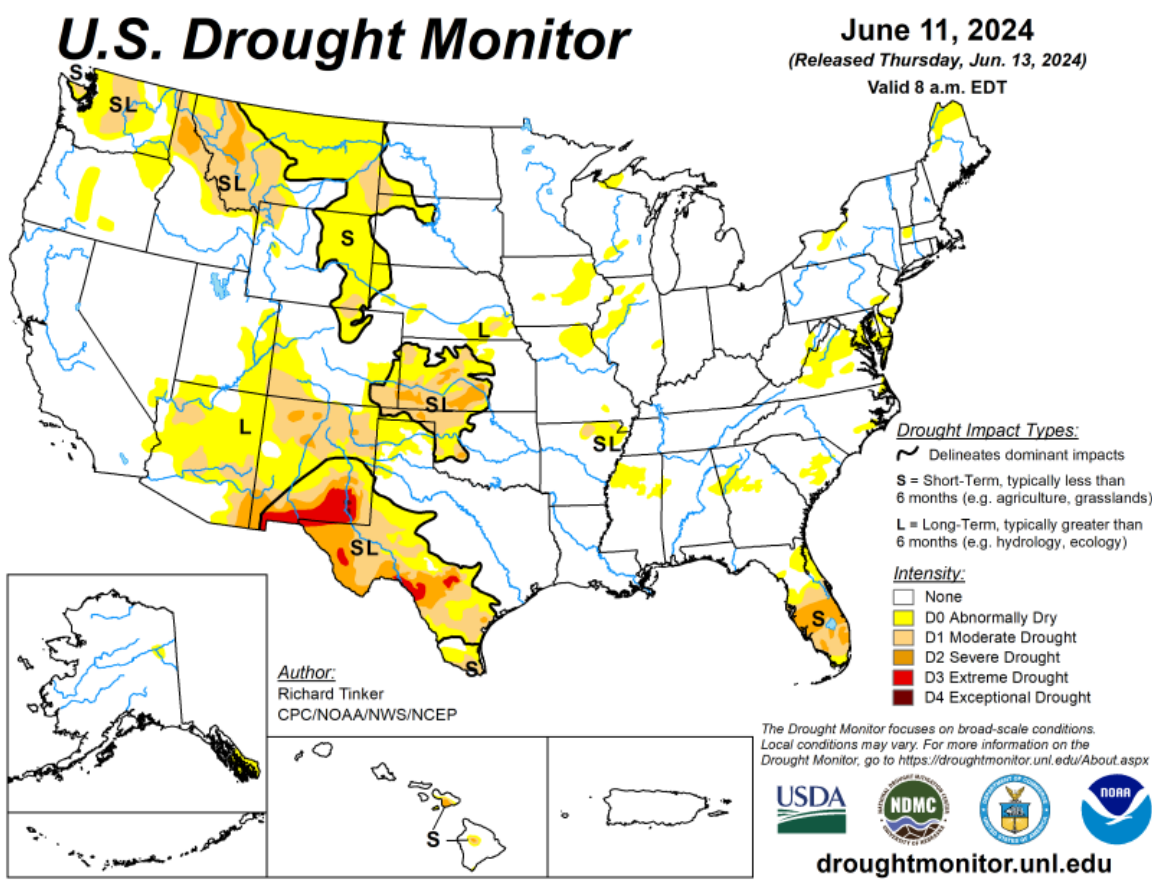
Treatment through June 17 th MG (AF)	
5-yr Avg	3,176 (9,751)
2023	2,804 (8,610)
2024	3,382 (10,384)

Outlook - Climate



Warm temperatures with progressively greater chance of below average precipitation

Outlook - Drought

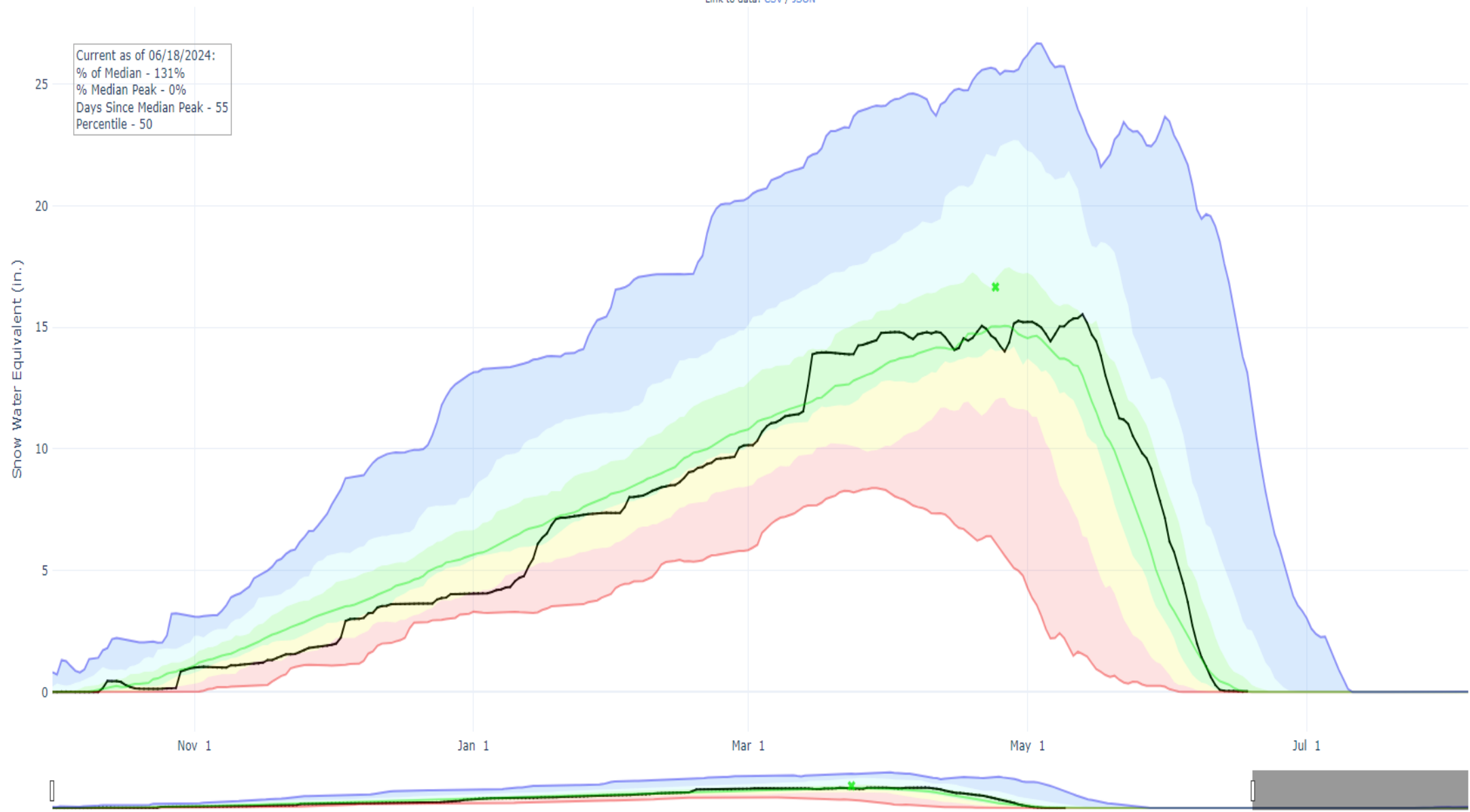


SNOW WATER EQUIVALENT IN SOUTH PLATTE

Reset Range

Link to data: [CSV](#) / [JSON](#)

Current as of 06/18/2024:
% of Median - 131%
% Median Peak - 0%
Days Since Median Peak - 55
Percentile - 50

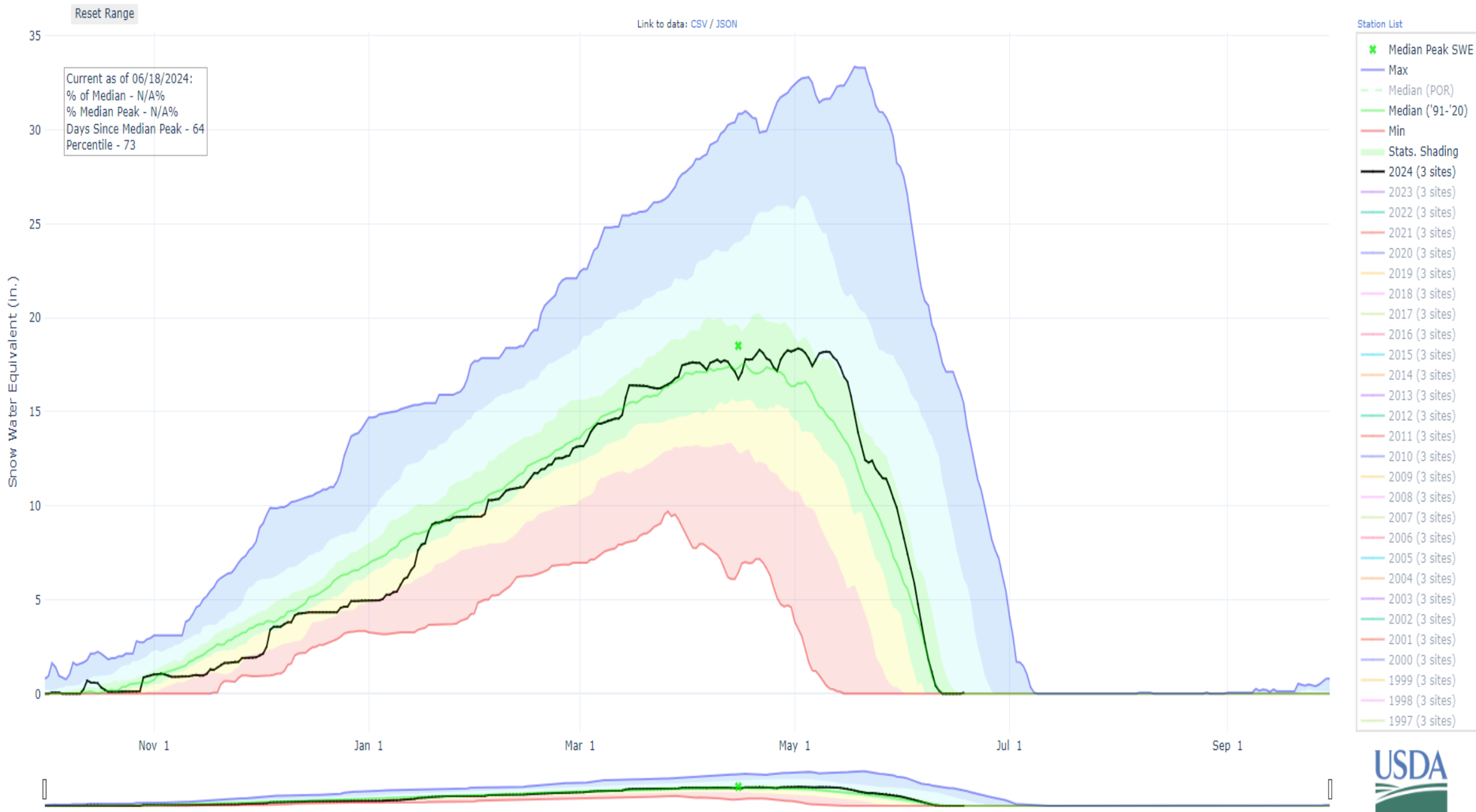


Station List

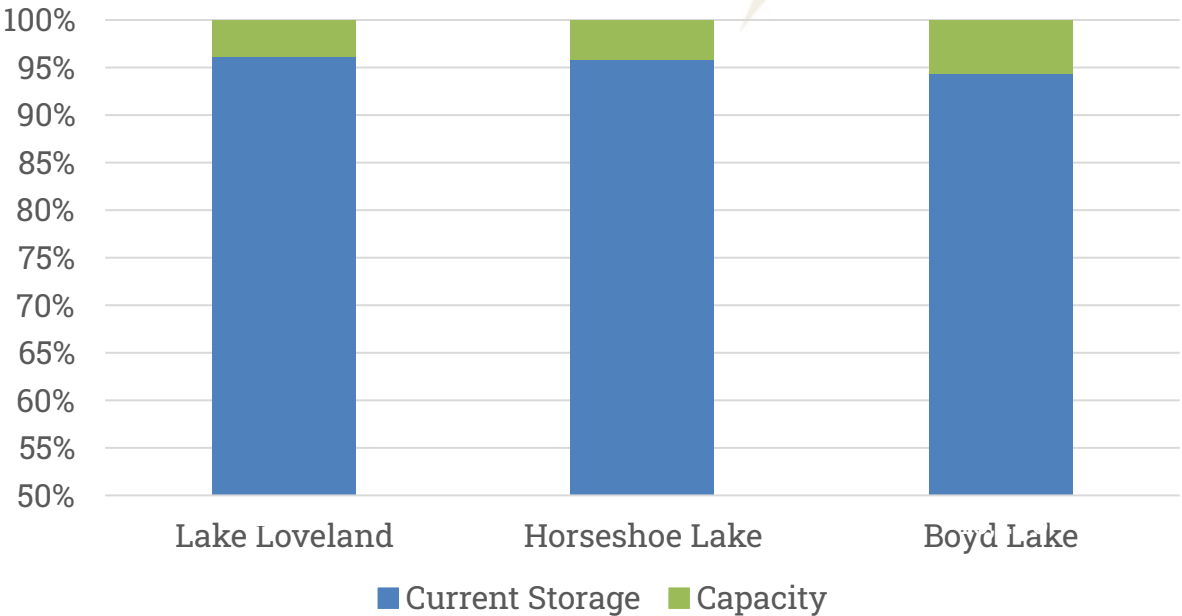
- ✕ Median Peak SWE
- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2024 (21 sites)
- 2023 (21 sites)
- 2022 (21 sites)
- 2021 (21 sites)
- 2020 (21 sites)
- 2019 (21 sites)
- 2018 (21 sites)
- 2017 (21 sites)
- 2016 (21 sites)
- 2015 (21 sites)
- 2014 (21 sites)
- 2013 (21 sites)
- 2012 (21 sites)
- 2011 (21 sites)
- 2010 (20 sites)
- 2009 (19 sites)
- 2008 (18 sites)
- 2007 (18 sites)
- 2006 (18 sites)
- 2005 (17 sites)
- 2004 (17 sites)
- 2003 (17 sites)
- 2002 (17 sites)
- 2001 (17 sites)
- 2000 (17 sites)
- 1999 (16 sites)
- 1998 (12 sites)
- 1997 (12 sites)



SNOW WATER EQUIVALENT IN HEADWATERS COLORADO



System Storage Volumes - GLIC

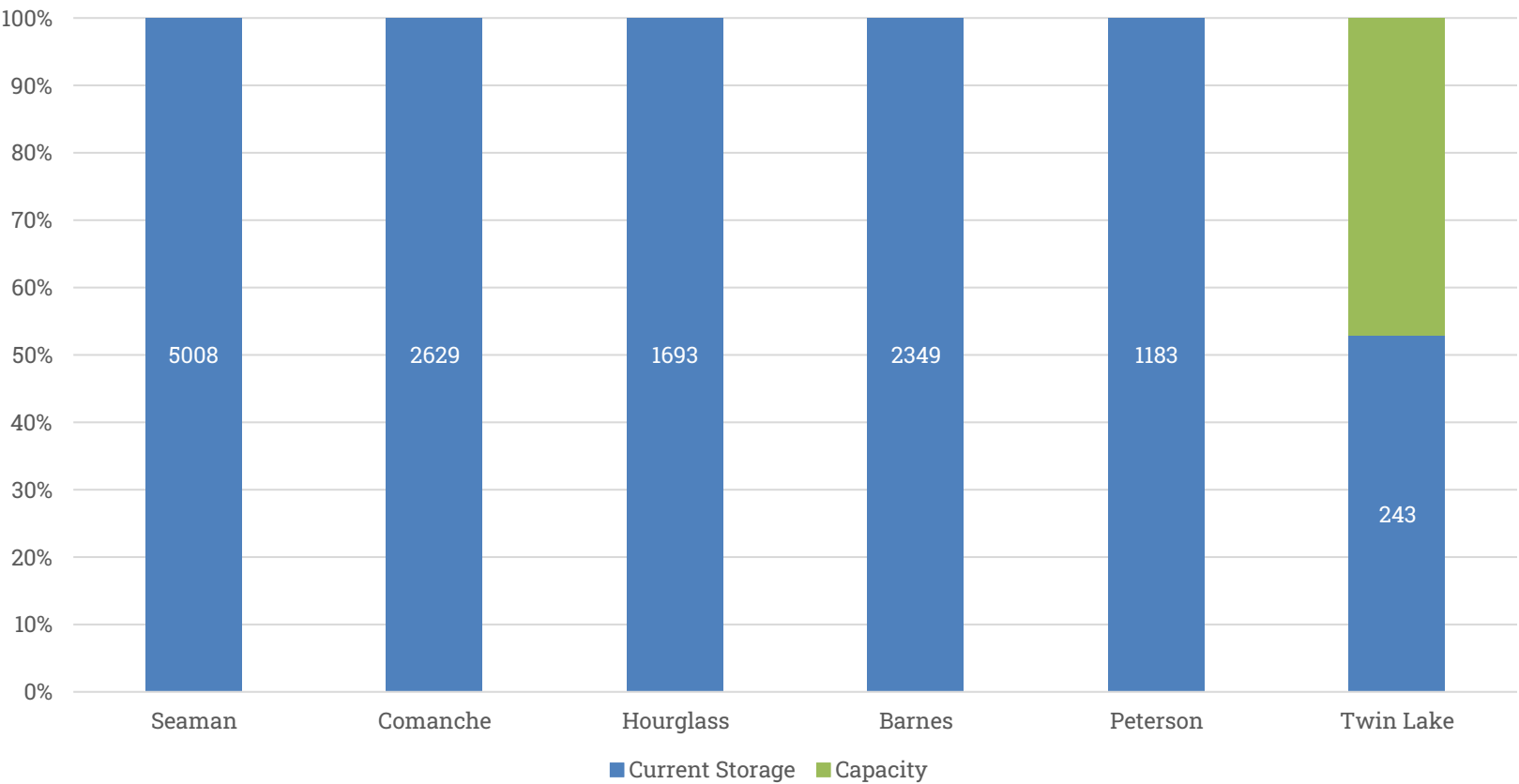


Lake Loveland	Horseshoe	Boyd Lake
12,248AF	7,476 AF	4,296 AF
96%	94%	95%
Total in the system: 66,020 AF 95%		



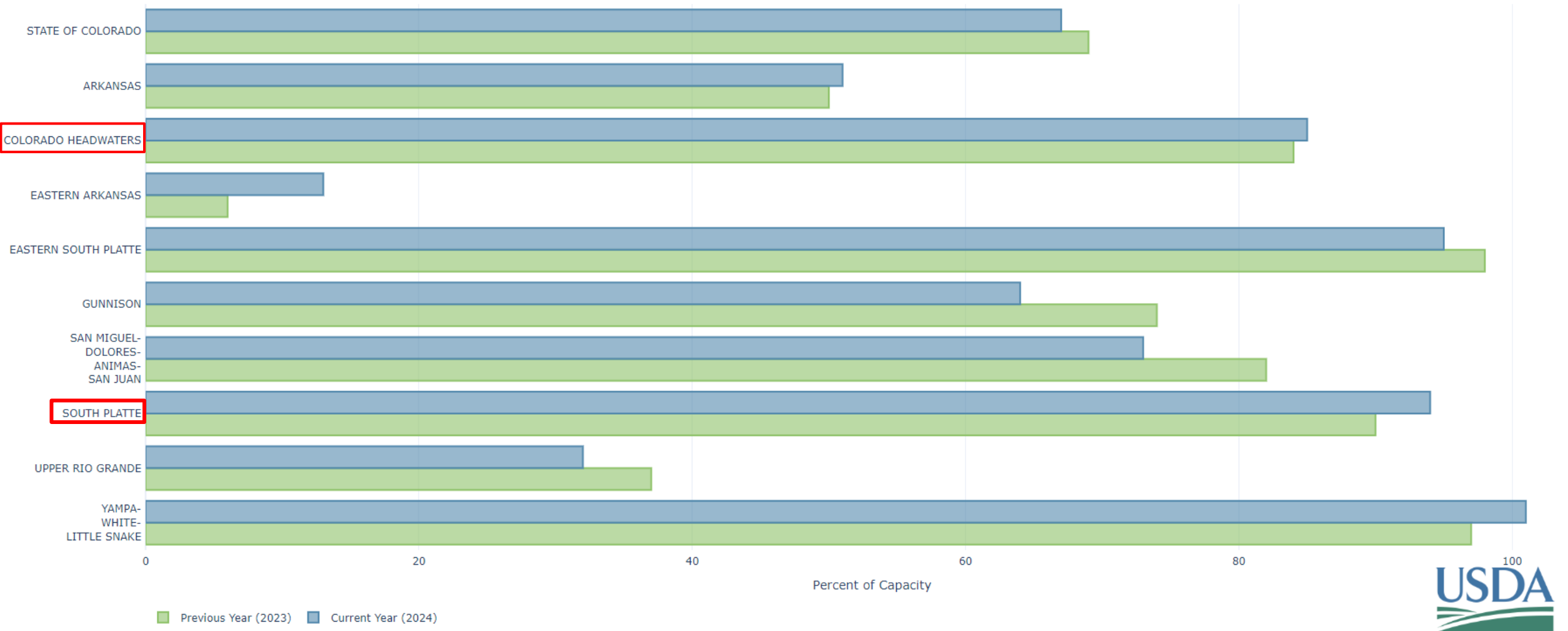
System Storage Volumes - Poudre

Seaman	Comanche	Hourglass	Barnes	Peterson	Twin	Poudre Ponds
5,008 AF	2,629 AF	1,693 AF	2,349 AF	1,183 AF	243 AF	1,420 AF
Full	Full	Full	Full	Full	53%	95%



Colorado Reservoir Storage

RESERVOIR STORAGE IN COLORADO
END OF MAY 2024



Rental Summary

• C-BT	7,000 AF
• GLIC Changed	326 AF
• GLIC Unchanged	1,881 AF
• WSSC	517 AF
• NPIC	184 AF
• HMR	4,300 AF
• Leasebacks	
• WSSC	1,808 AF
• GLIC	8,345 AF
• L&W	2,874 AF
• New Cache	813 AF

27,548 AF



Target Storage

	April 2024 Storage (acre-feet)	Demands/ Losses (April 2024 - March 2025) (acre-feet)	Yields (April 2024 - March 2025) (acre-feet)	April 2025 Projected Storage (acre-feet)
Source	(1)	(2)	(3)	(4)
NCWCD (C-BT)	18,085	12,272	11,402	17,215
WINDY GAP	452	2,682	0	0
GLIC SYSTEM	13,576	9,861	9,525	13,240
TUNNEL	884	1,000	1,000	884
TOTAL	32,997	25,851	21,927	31,339

- C-BT: Carryover approx. 5,500AF + 11,402AF
- Windy Gap: No guaranteed pumping for projections



Through the Irrigation Season

- “Adequate Water Year” continue
- Maintain target storage volume at 21,300 AF
- Local reservoir storage is projected to end irrigation season above average
- Northeastern Colorado is projected to remain drought free through October



Questions?



Water & Sewer Agenda Summary

June 26, 2024

Key Staff Contact: Jim Paulson - Water & Sewer Engineer IV

Title:

Terry Ranch Update

Summary:

The City of Greeley Water and Sewer Department is currently working on development of the Terry Ranch Water Supply Project. Five phases are expected as follows:

1. State Land Board Wells
2. Pipeline Construction
3. Well Field Development (TBD)
4. Collection/Distribution Pipeline Network (TBD)
5. Treatment Plant Design and Construction (TBD)

The first phase involves drilling test production wells on State Land Board parcels to affirm the viability of supply from those parcels.

The second phase involves the design and construction of the Terry Ranch Water Supply Pipeline. Pipeline design and construction is further divided into five segments A through F. The first segment is approximately seven miles starting at the southern connection to the existing Bellvue sixty-inch water transmission pipeline located at approximately northwest of Weld County Road 15 and 72. The first section will travel northeast and end approximately ½ mile north of Hwy 14 and Weld County Road 19.

The first section is currently broken into three work packages, A, B, and C. Construction began in May 2023 and is nearly complete on all work packages.

The future segments of the pipeline, between Hwy 14 and the treatment plant location located at the Terry Bison Ranch, will have a 60% design completed in 2024. Segment 2 will go to 100% design in 2024 with procurement and construction budgeted and scheduled to start in early 2025.

The next segments of the pipeline, Segments 3, 4, and 5 will be taken to 100% design and construction as funding becomes available and the need for completion becomes clearer.

Recommended Action:

Informational only

Recommended Motion:

N/A

Attachments:

1. 11. Terry Ranch Presentation



TERRY RANCH WATER SUPPLY PROJECT

Jim Paulson, Civil Engineer IV
jim.paulson@greeleygov.com, 970-590-5338
Water & Sewer Board – June 26, 2024



Infrastructure and Mobility

Agenda



MULTI-PHASE DEVELOPMENT PLAN

1. State Land Board Wells
2. Pipeline Construction
3. Status Update – No Board Action Required

TERRY RANCH WATER SUPPLY PROJECT PHASES

MULTI-PHASE DEVELOPMENT PLAN

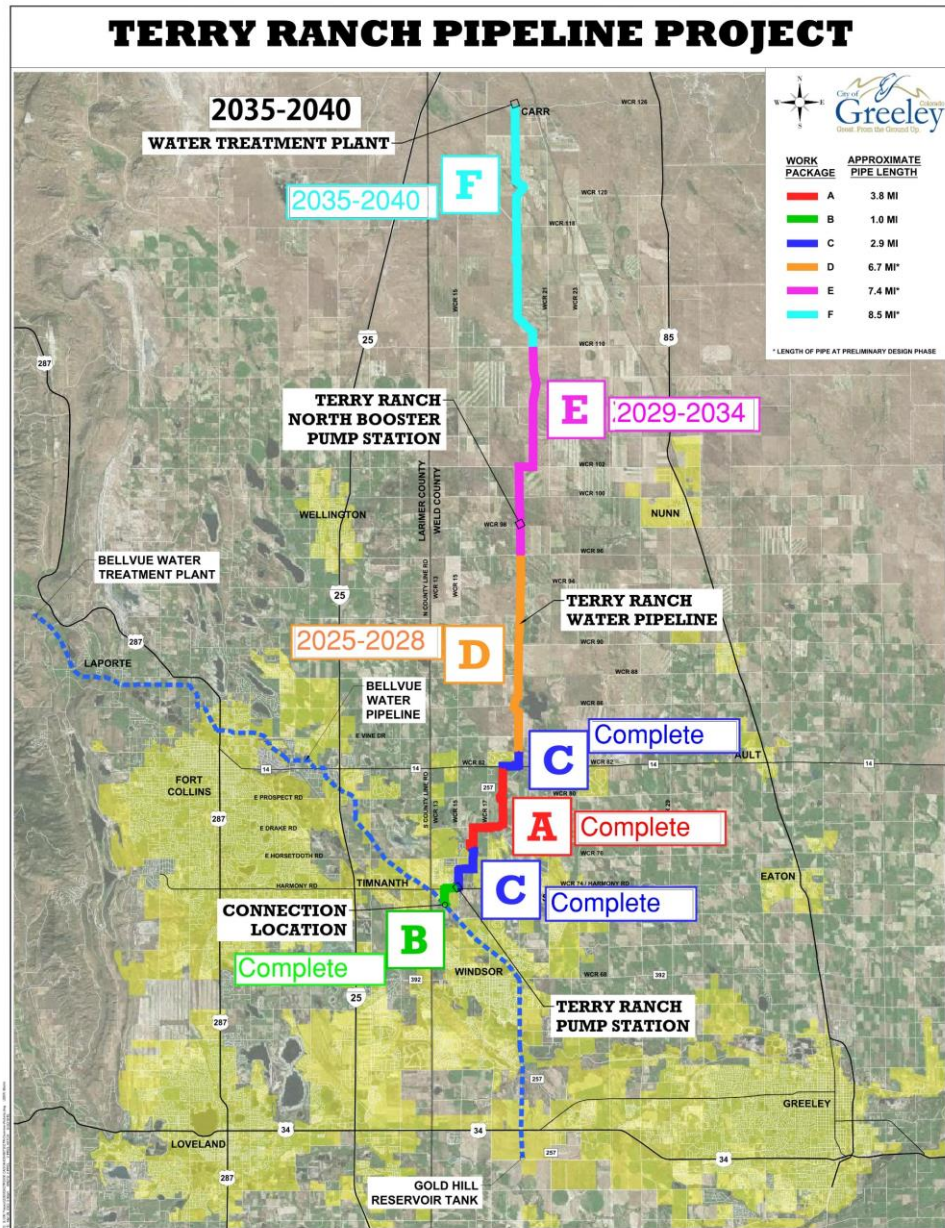
1. State Land Board Wells
2. Pipeline Construction
3. Well Field Development (TBD)
4. Collection/Distribution Pipeline Network (TBD)
5. Treatment Plant Design and Construction (TBD)



Phase 1 - Terry Ranch/State Land Board Drilling Update

- CAO and Legal Counsel
 - Ensure drilling program satisfies lease obligations
 - Meets long-term City objectives.
- Hydrogeology consultants
 - Assisting with RFP Response Reviews
- Updated Timeline:
 - RFP Issued, site visit conducted Jun 13, 2024
 - 5 Drilling Firms Attended
 - Proposals due July 12, 2024
 - Begin drilling Q4 2024
 - 9-12 Months to Drill 16 Wells





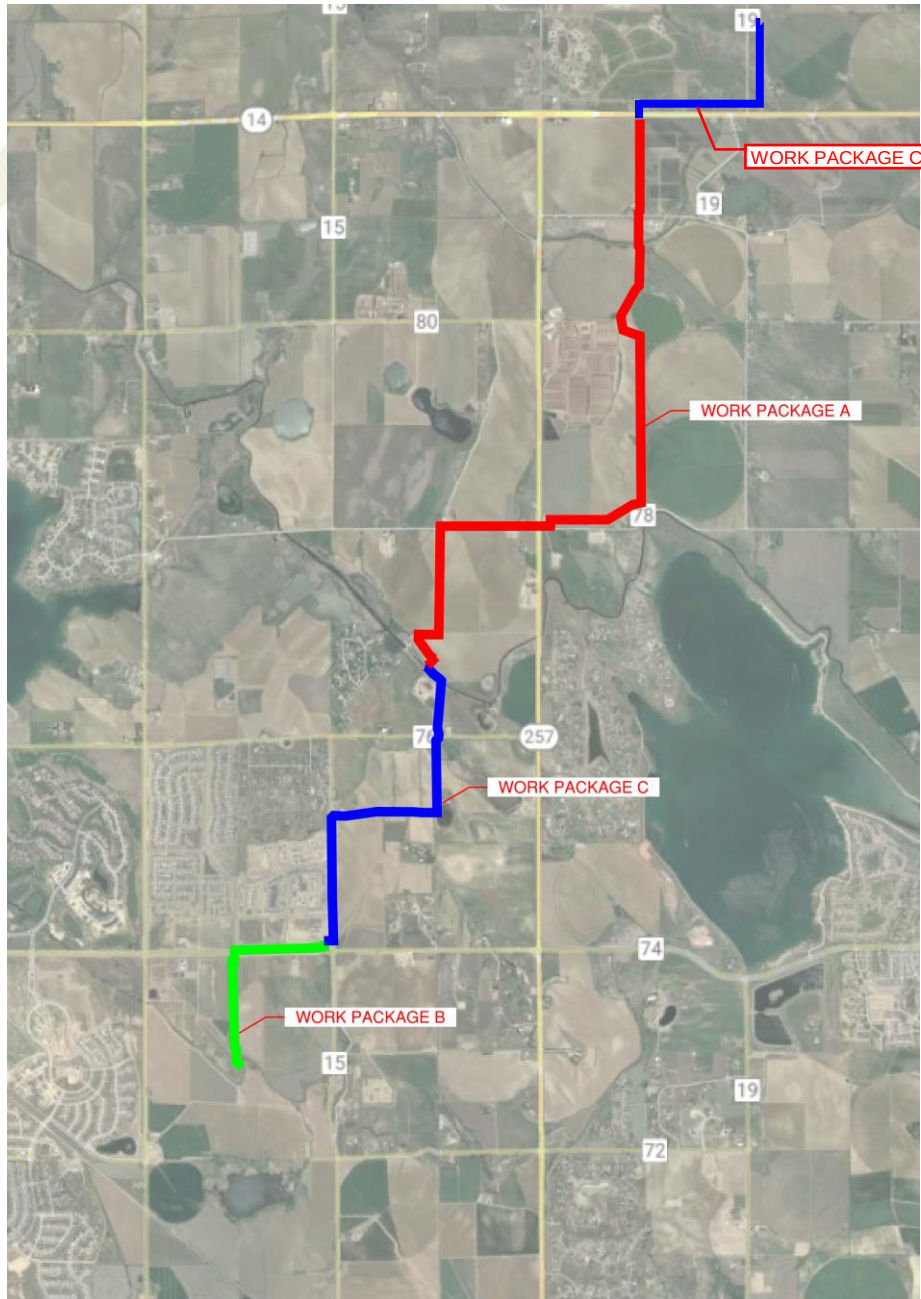
Phase 2 – Pipeline Construction

Broken into 5 Segments

- From Bellvue 60" Tie-in to Carr
- To Be Constructed As Funding Allows
- Construction started May 6, 2023
- Segment 1 Completion in 2024
- Segment 2
 - At 60% Design – Review in Progress
 - 100% Design by Q4 2024
- Segment 3, 4, 5
 - 60% Design by End of 2024

Segment 1

- Segment 1 Broken into 3 Work Packages (WP)
 - WP-A: Larimer and Weld County Canal Crossing to HWY 14
 - WP-B: Bellvue 60" Line connection to Harmony Rd/CR 15
 - WP-C
 - South: Harmony Rd/CR 15 to Larimer and Weld County Canal Crossing
 - North: Crossing Hwy 14 to 1/2 mile north on CR 19



Some Construction Photos



Unloading vault at Hwy 14 and CR 15



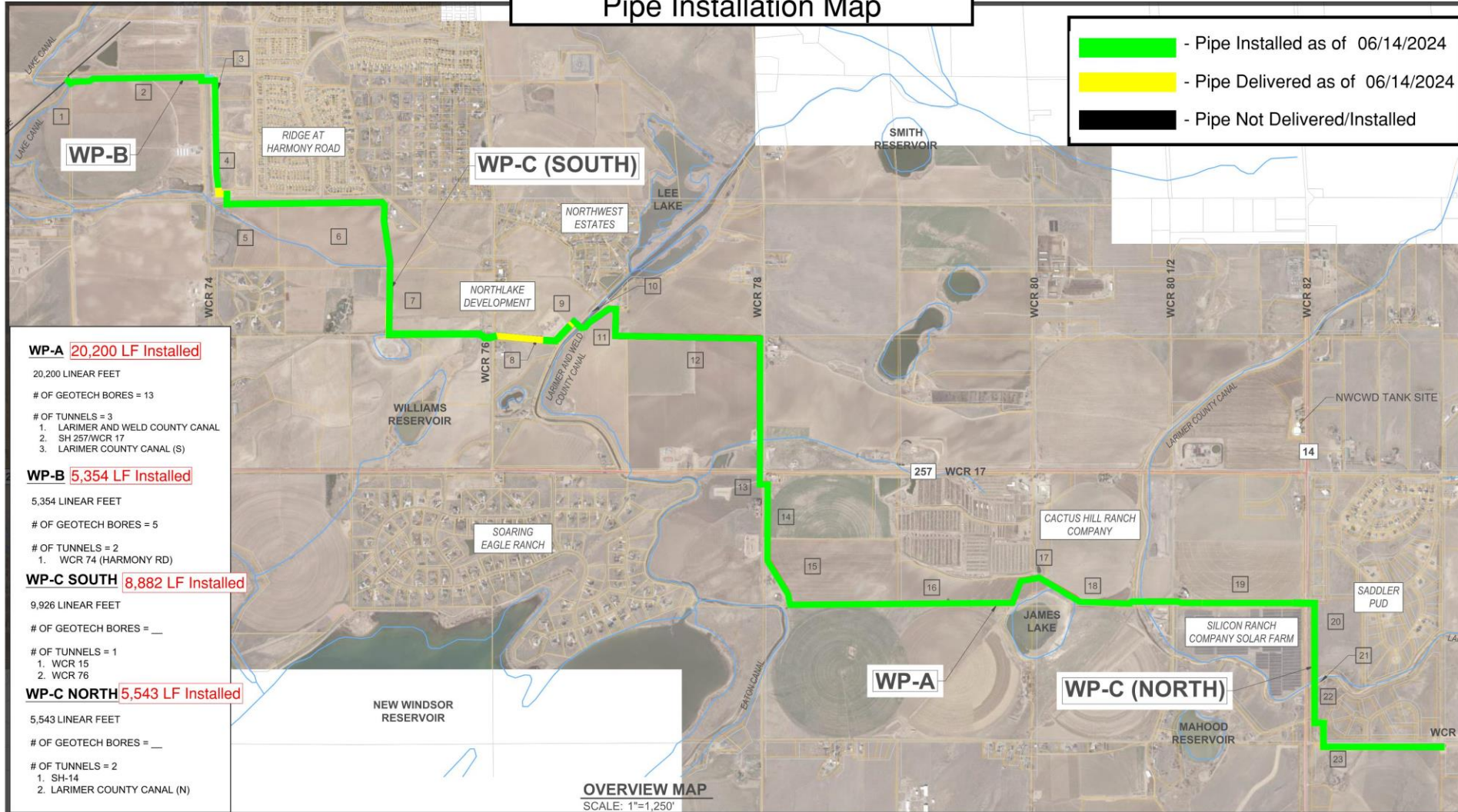
Installing blowoff at LWIC



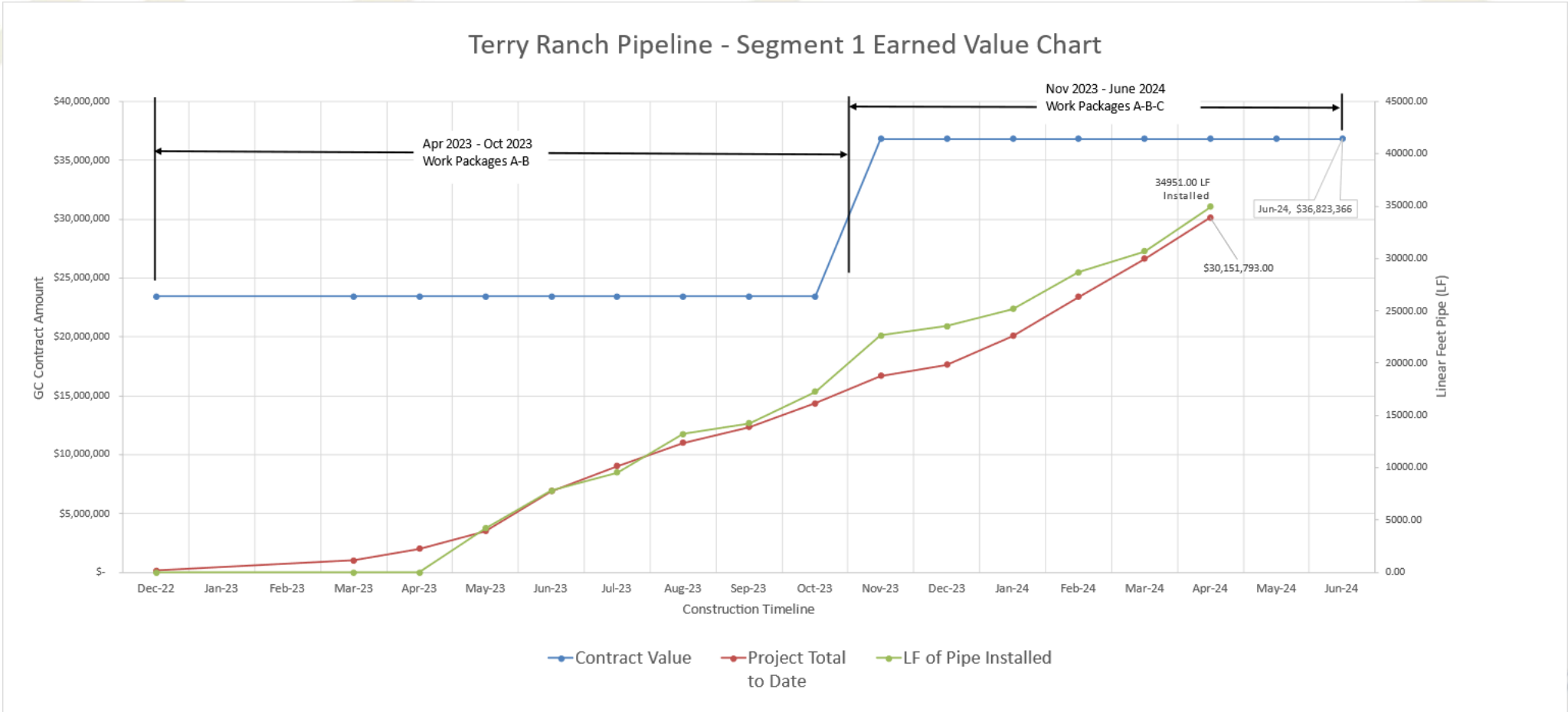
Bedding and covering pipe

Segment 1 - Progress

Terry Ranch Pipeline - Segment 1
Pipe Installation Map



Construction Progress – Earned Value



Segment 1 - Budget to Date

- \$43M Appropriated in 2022 and 2023
- Contracts To Date (\$42M):
 - \$36M for Pipe and Installation (Segment 1 just past CO 14)
 - ~7.7 Miles Total
 - WPA, WPB, WPC-South, WPC-North, NWCWD Interconnect
 - \$4M Professional Services (Includes Design [Segment 1-100% and Segments 2-4-60%], CM, Land Acquisition Services)
 - Land Acquisition = ~\$1.26M to Date

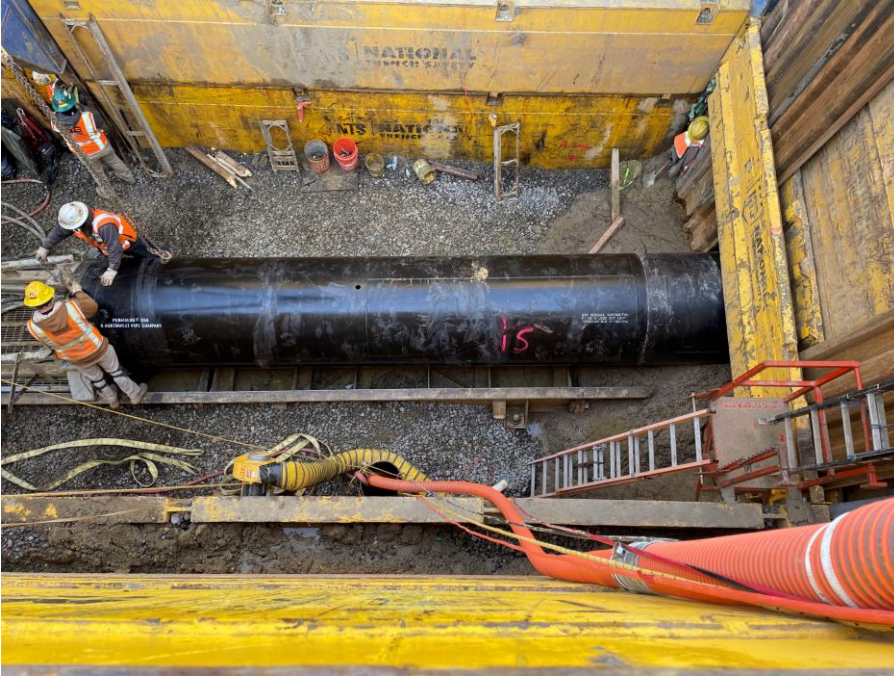


Segment 1 – Cost Reimbursement

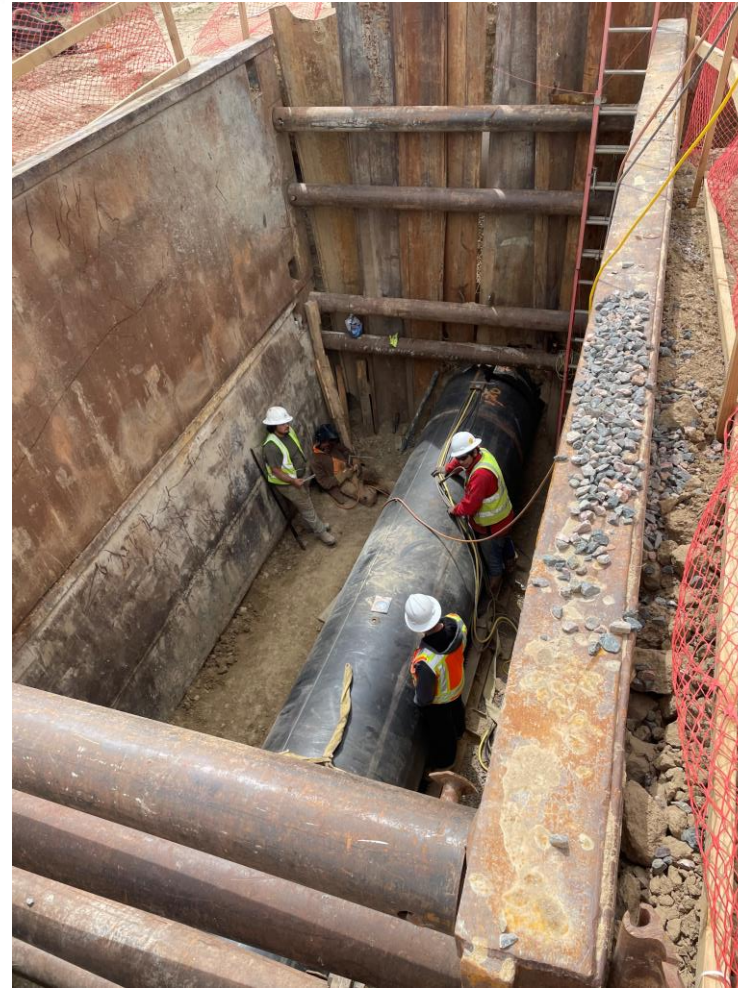
- \$125M in Construction Escrow from Wingfoot
 - 1st 50% Split: 80%-Wingfoot (\$62.5M), 20%-Greeley Match (\$12.5M)
 - 2nd 50% Split: 50%-Wingfoot (\$62.5M), 20%-Greeley Match(\$62.5M)
- Reimbursement Requests from Construction Escrow (\$20.5M)
 - Wingfoot \$16.4M (80%)
 - City of Greeley \$4.1 (20%)
- Reimbursement from NWCWD (Invoices sent)
 - \$1.09M (of \$1.28M)



Tunneling and Placing Pipe



Tunneling under LWIC



Tunneling under Hwy 14



Laying pipe at Hwy 14 and CR 19



CHALLENGES

- Timely Easement/Access Acquisition
 - Eminent Domain Process
 - Negotiations
- Potential Claims
 - Harmony Tunnel-DSC
 - LWIC Tunnel-Dewatering
- Construction
 - High water table/dewatering
 - Restoration timing restrictions

WPD

- Recent Annexation of CR 19 and Several Adjacent Parcels by Severance
- Obtaining easements before letting construction contract.



Questions?





Water & Sewer Agenda Summary

June 26, 2024

Key Staff Contact: Sean Chambers, Water & Sewer Director

Title:

Review Water and Sewer Organization Chart

Summary:

The Water & Sewer Utilities team undertake a wide variety of activities to operate, maintain, protect and plan for the city's water and wastewater infrastructure and its water resources. Much work goes into attracting, developing, training and retaining high quality staff that can develop and leverage their institutional knowledge of the Greeley system.

As the water utility regulatory environment has evolved, with more stringent requirements for water quality testing, dam safety, cross connection and backflow prevention testing, utility locating, wastewater nutrient removal, lead identification and contaminants of emerging concern, our utility team has grown to be responsive to meet those obligations. Additionally, the system's aging infrastructure has been requiring more and more attention each year, and with escalating capital project volume and escalating construction costs, we've added significant project management engineering staff and we are in the process of building out our water distribution O&M team with a new construction crew to manage smaller projects and save city resources.

Recommended Action:

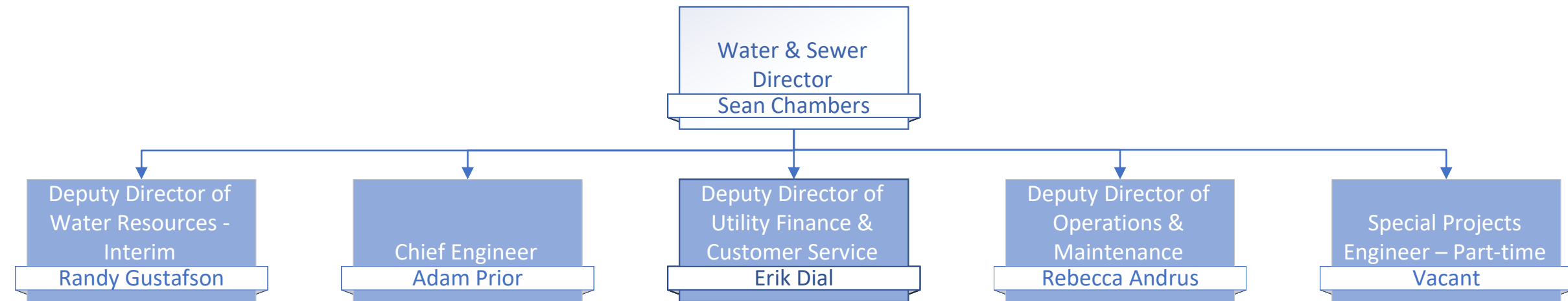
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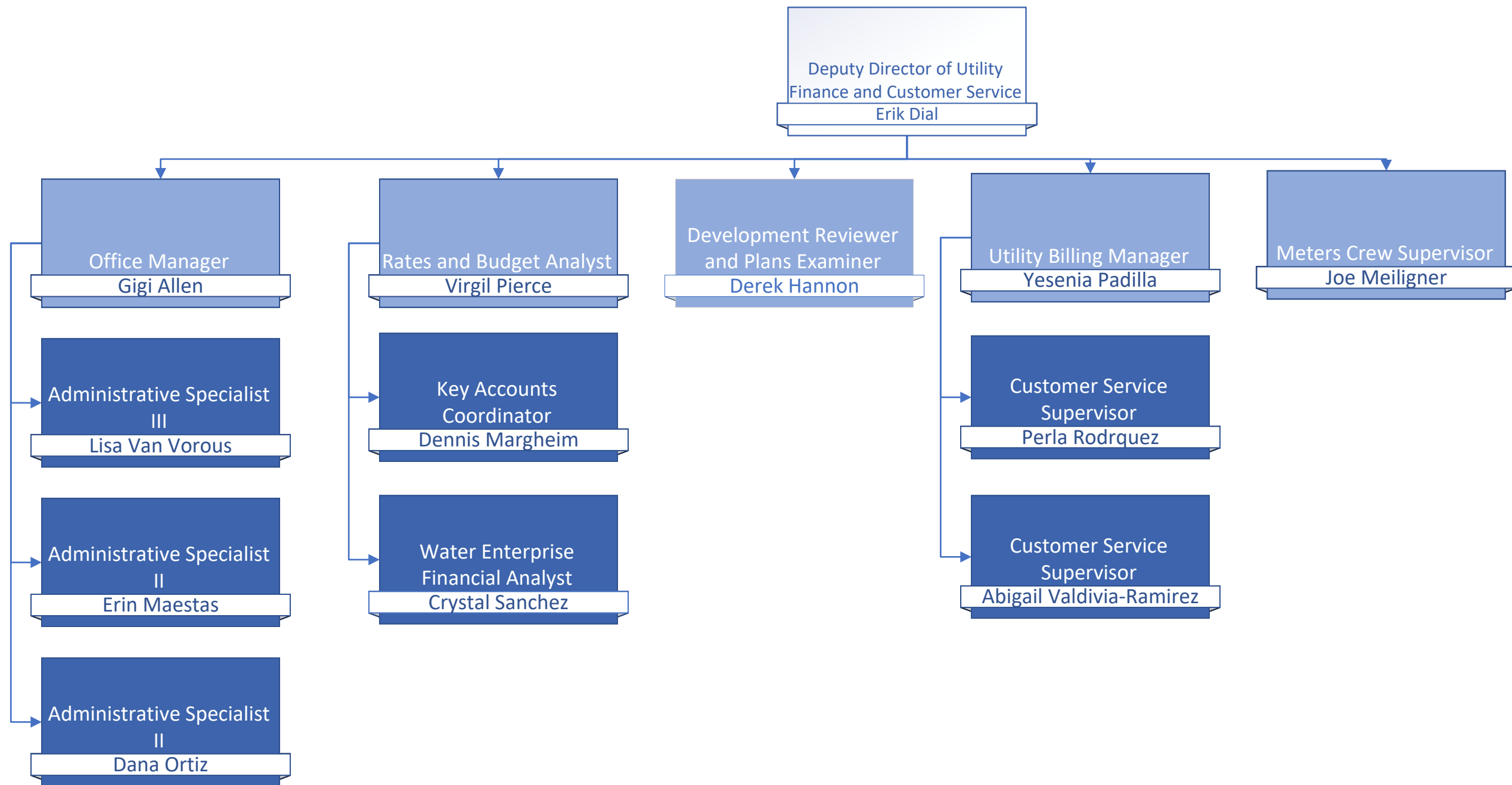
Recommended Motion:

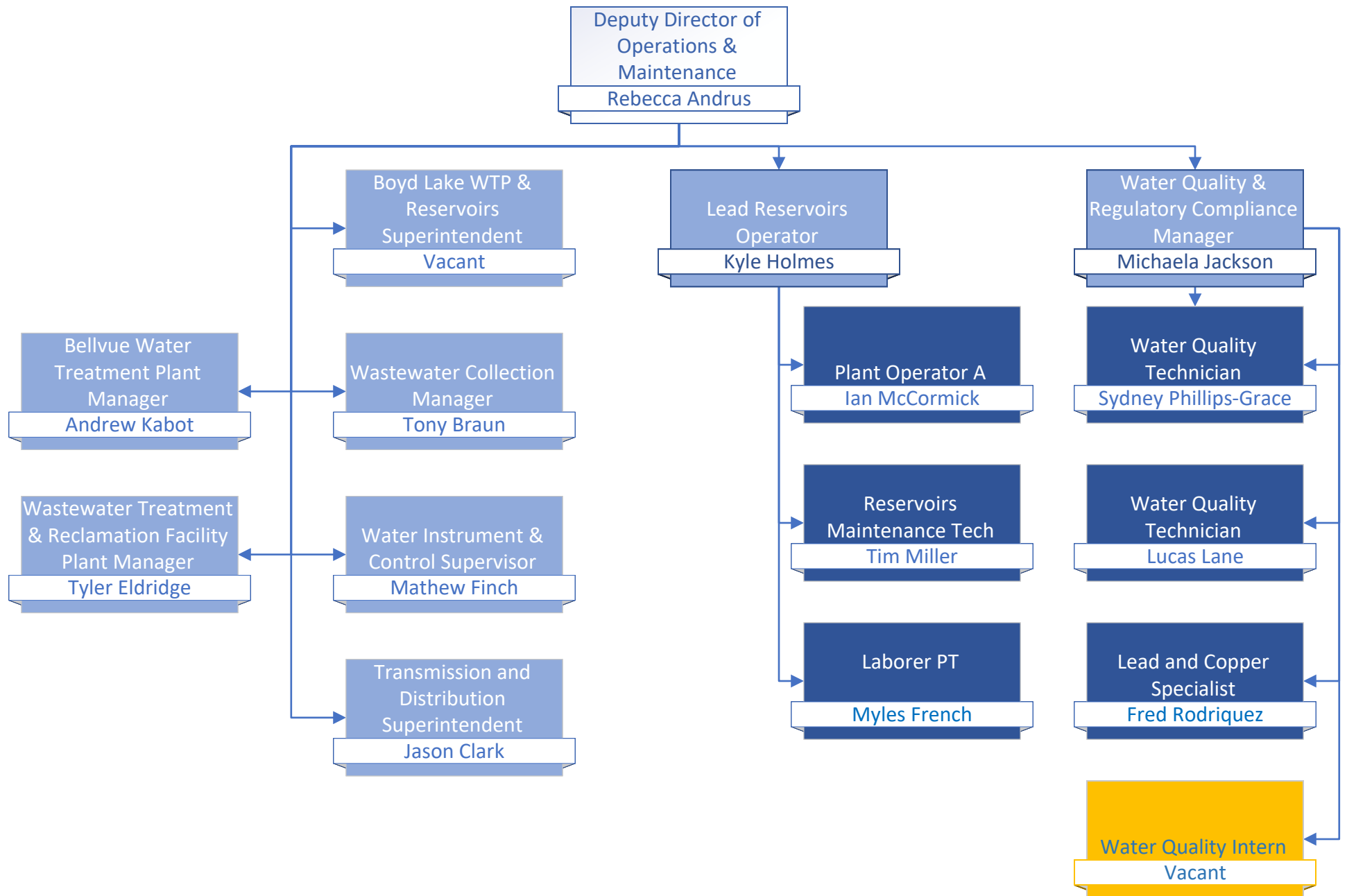
N/A

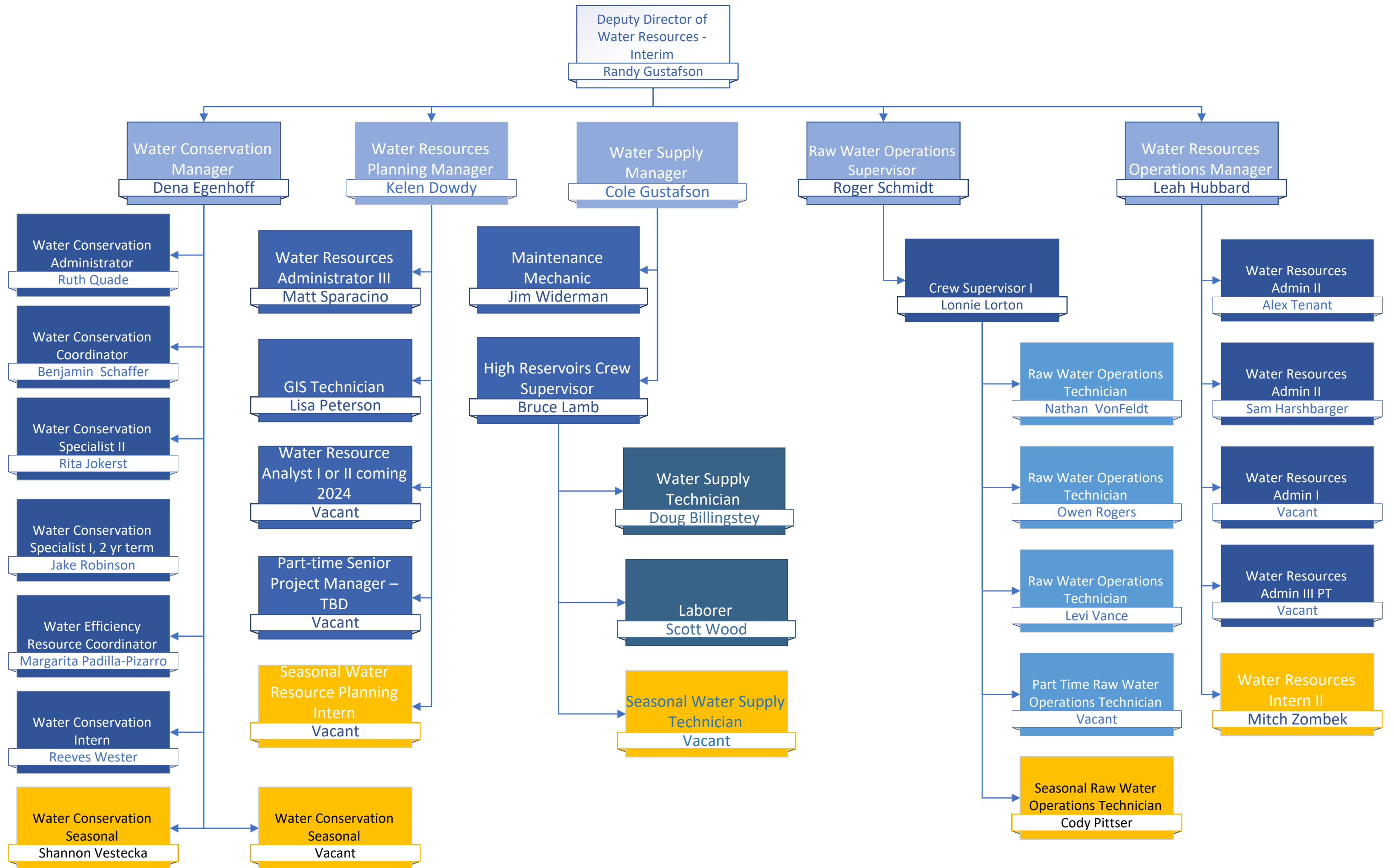
Attachments:

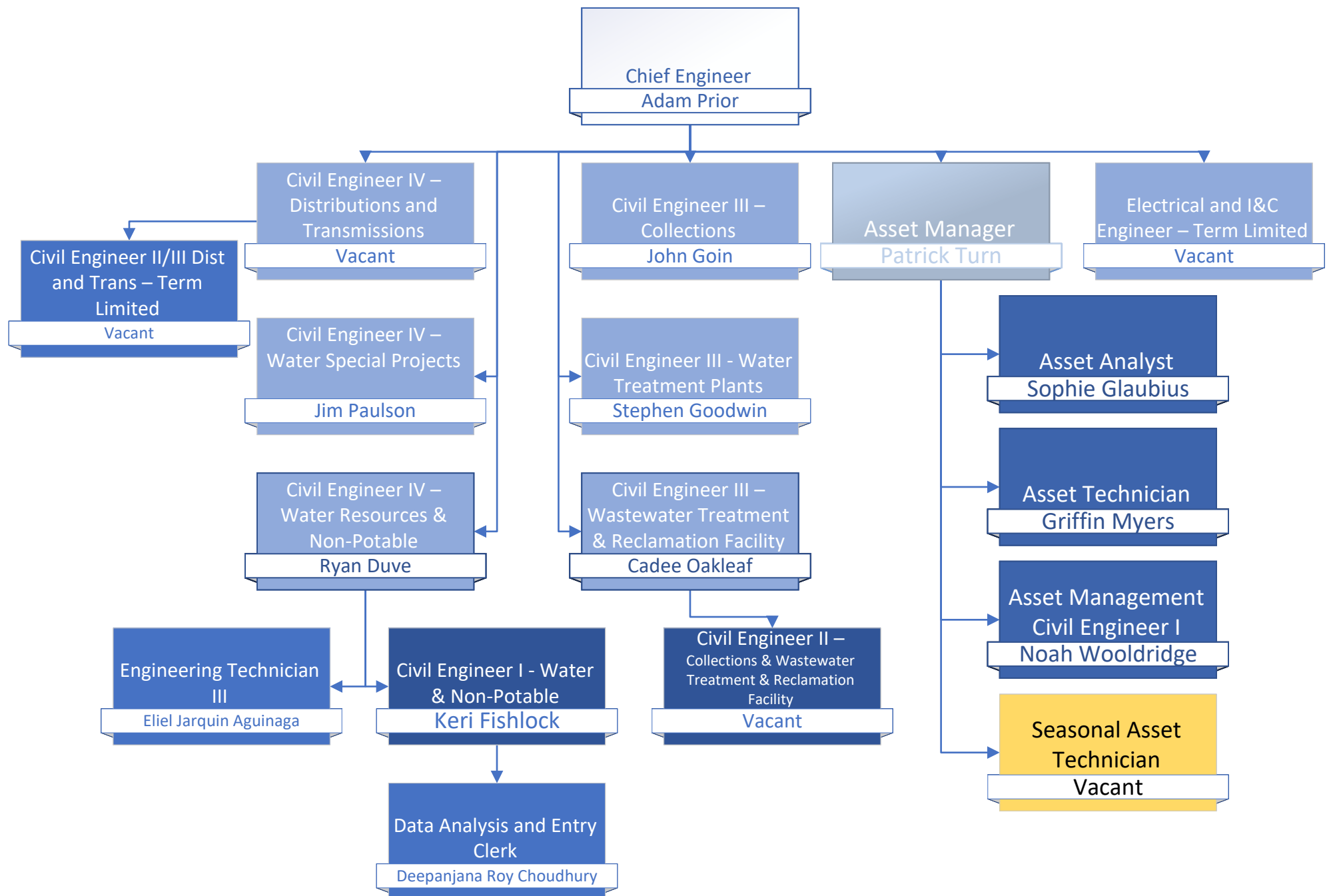
1. Water and Sewer Org Chart

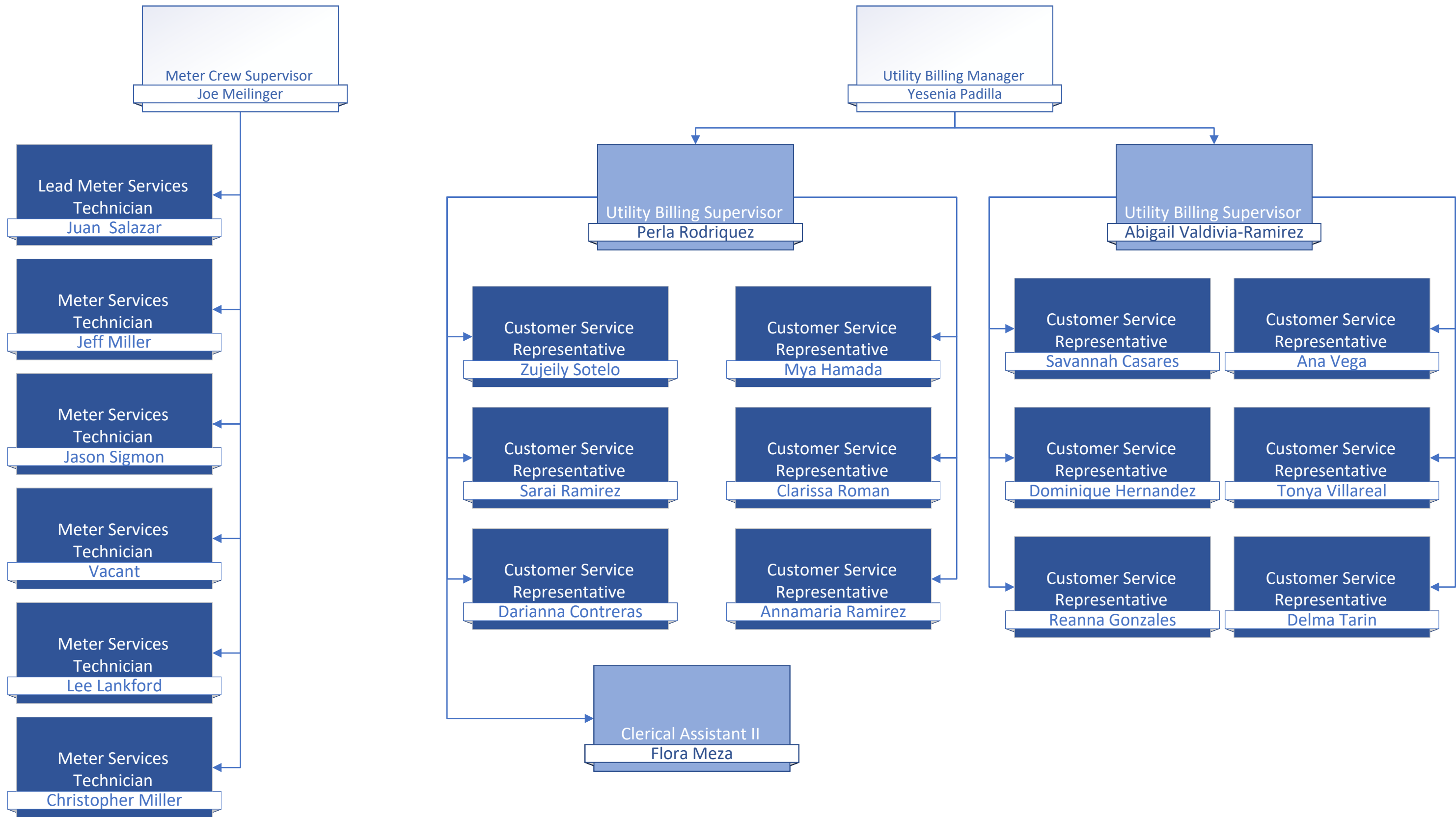


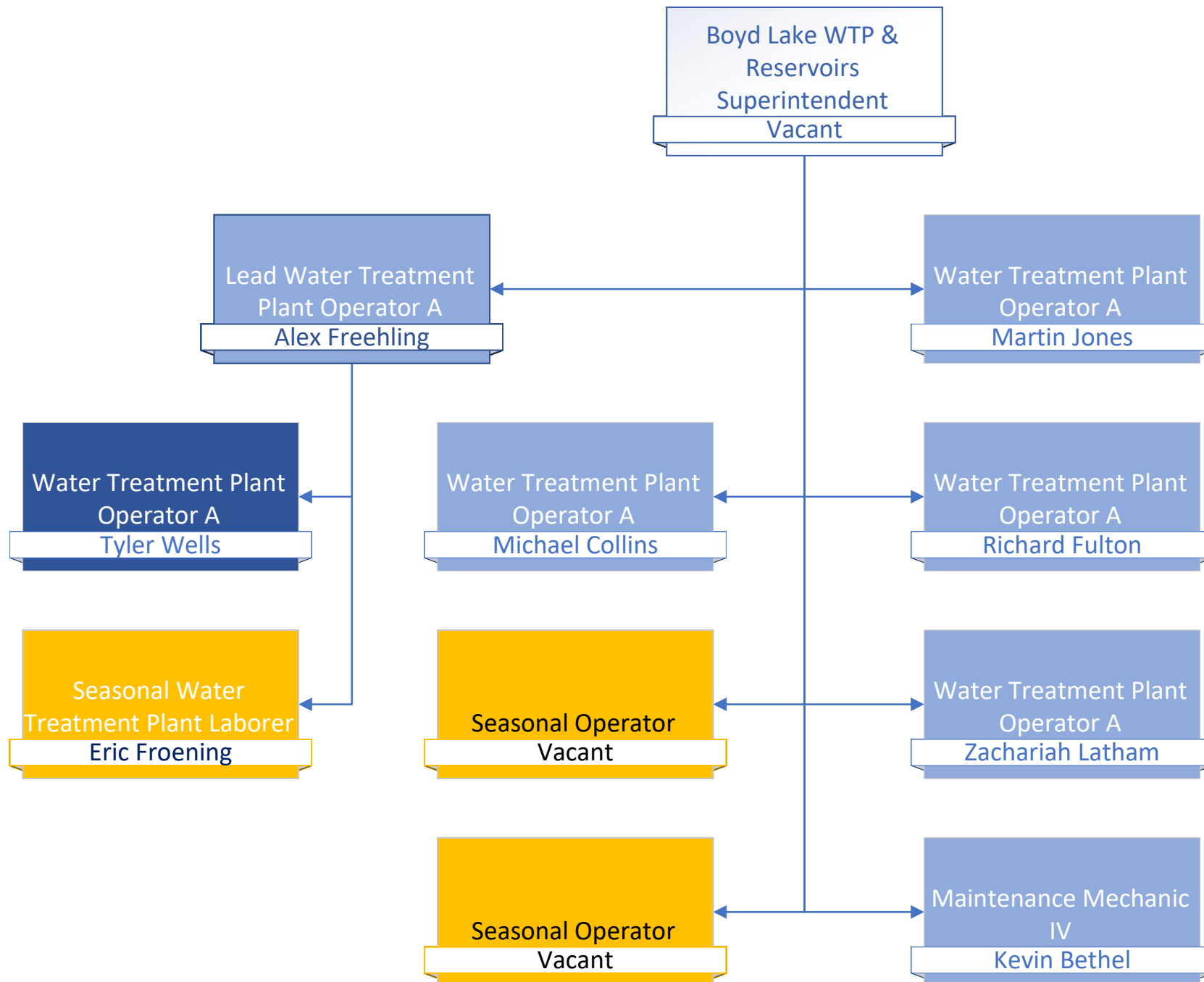


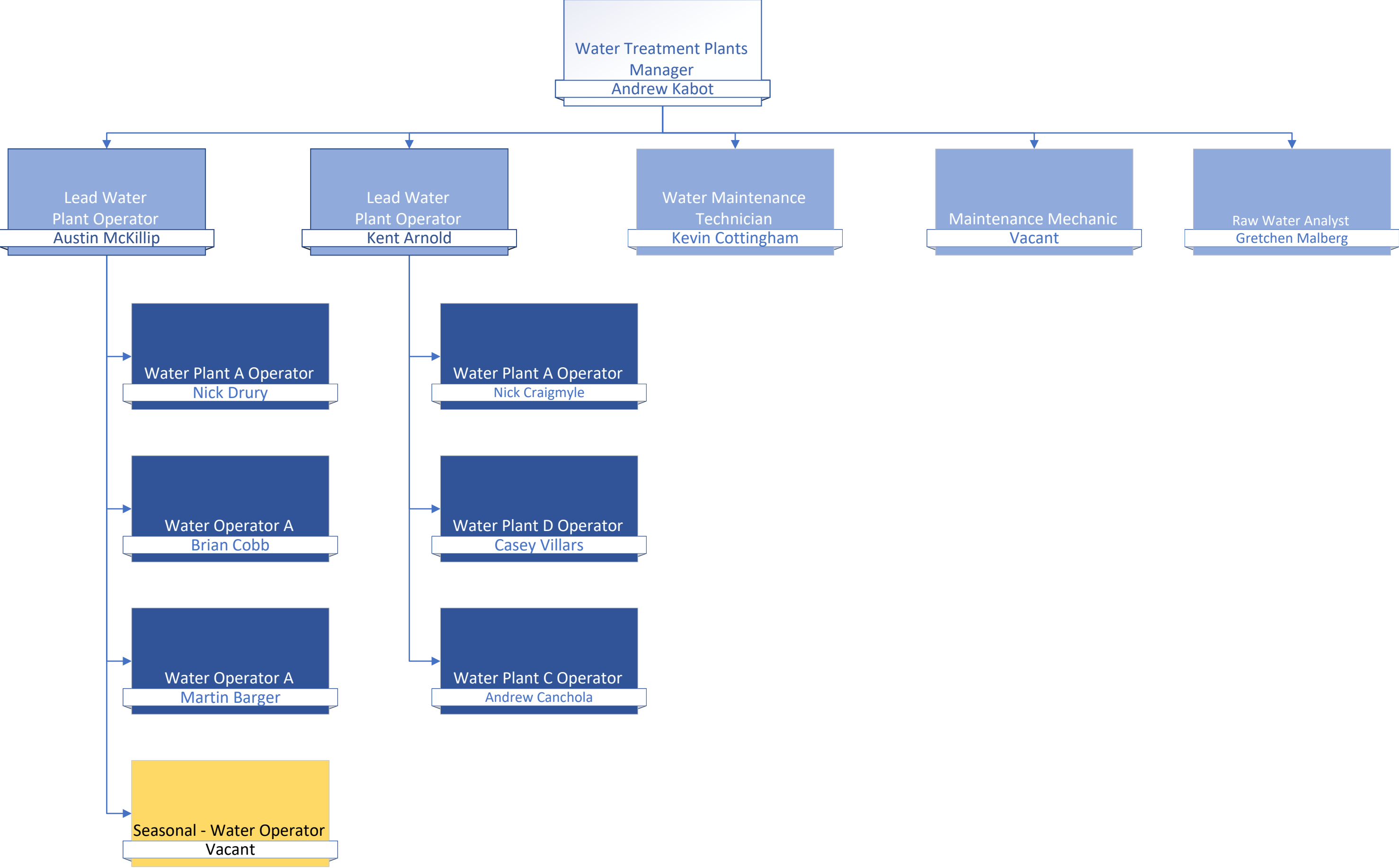


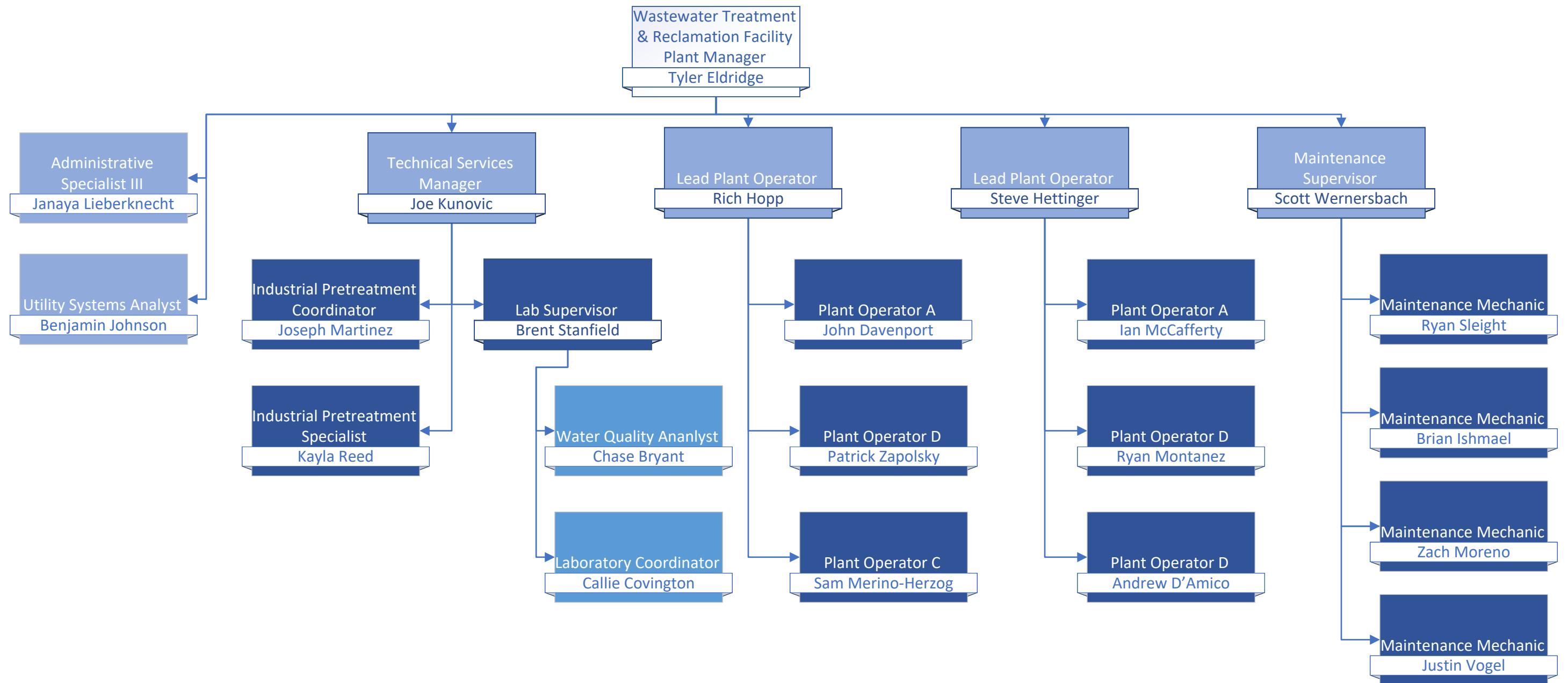


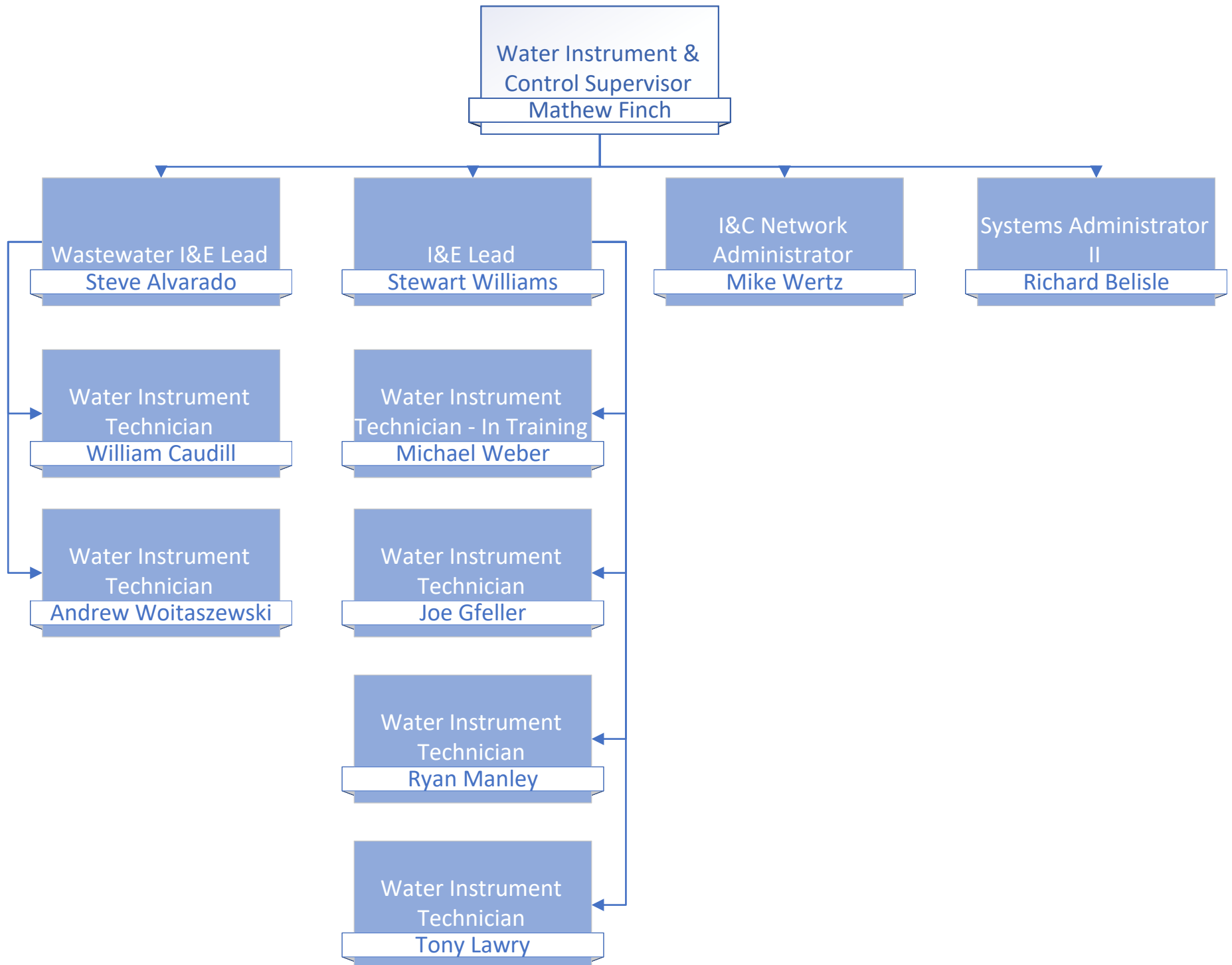


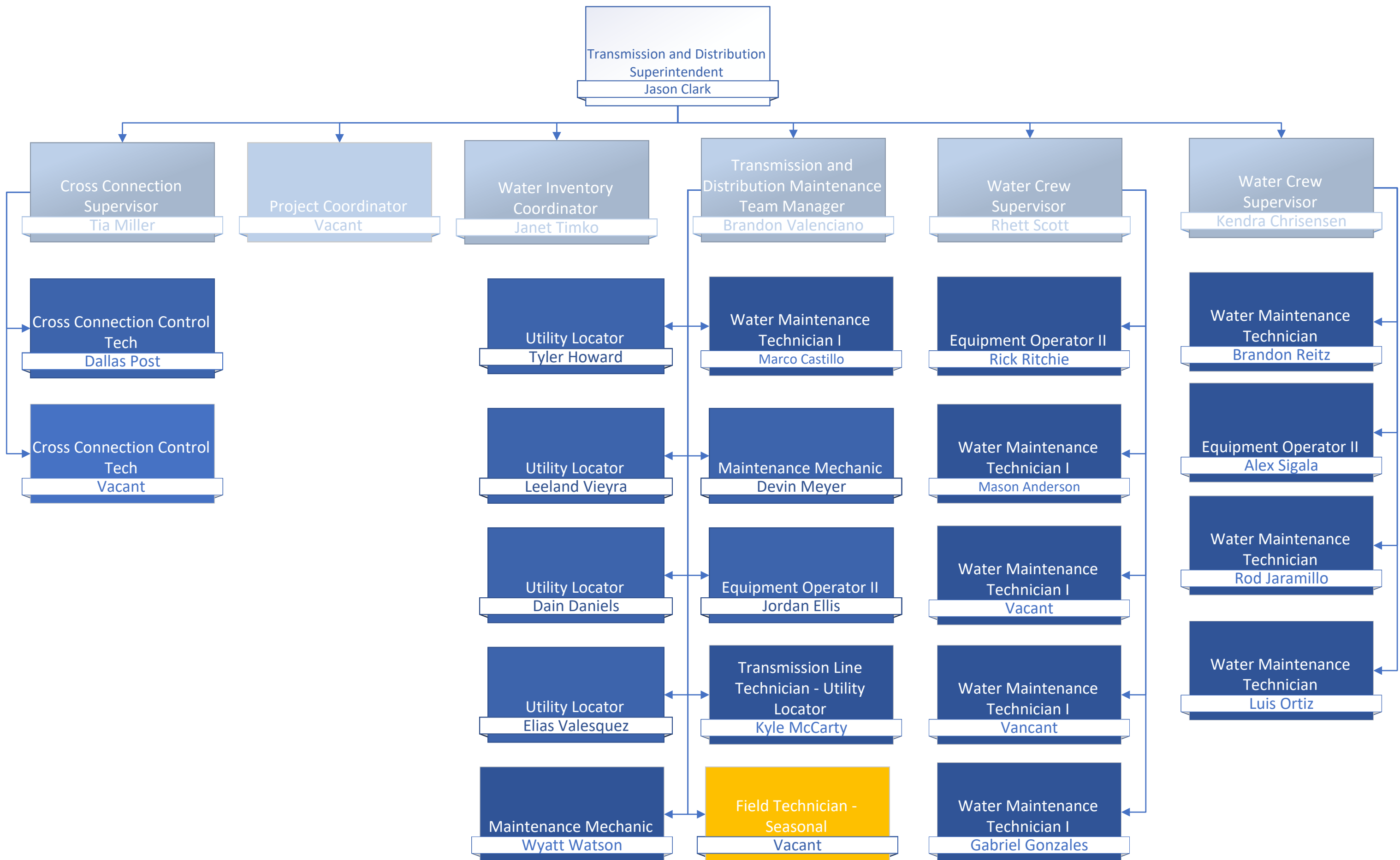




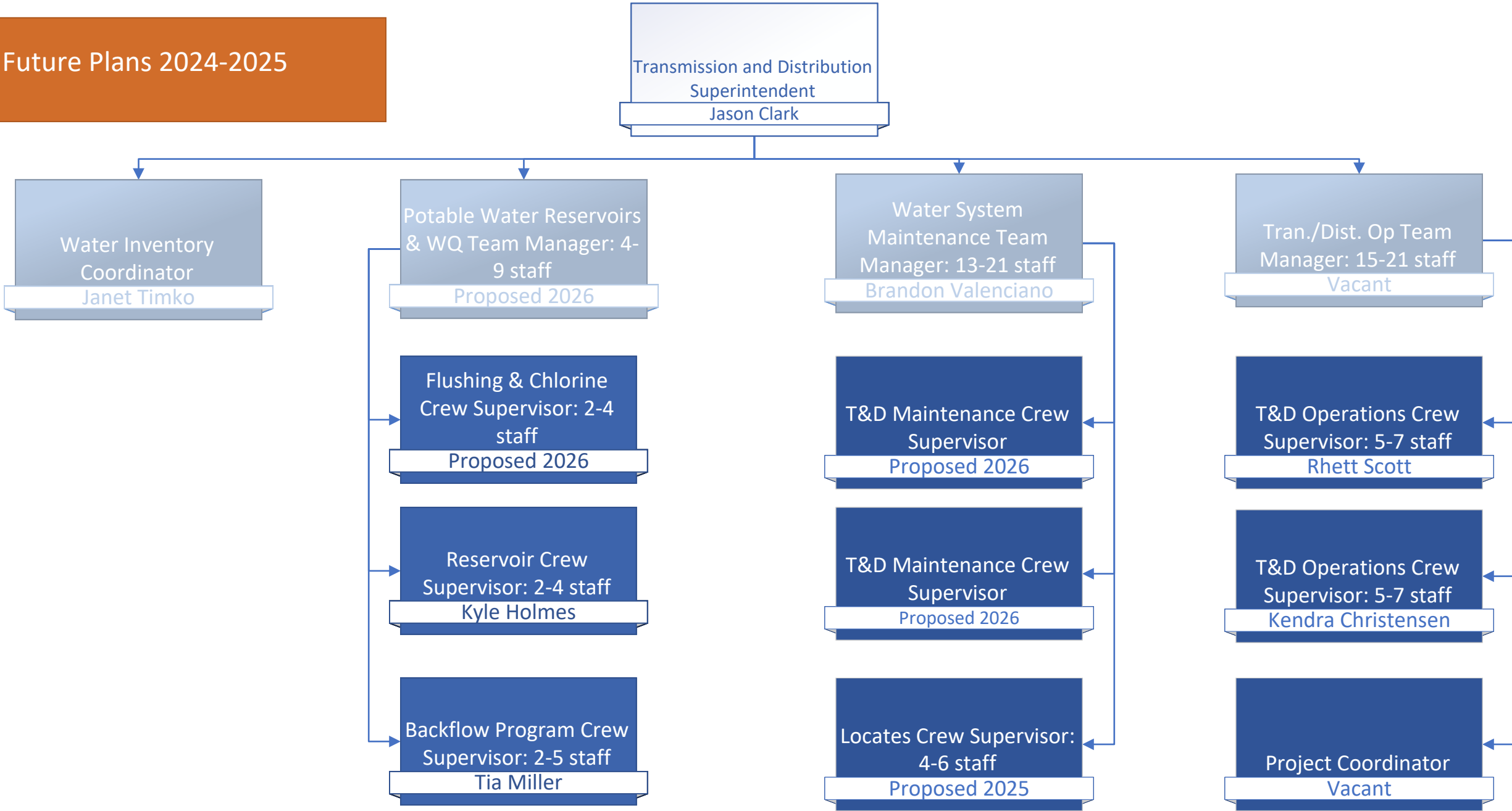


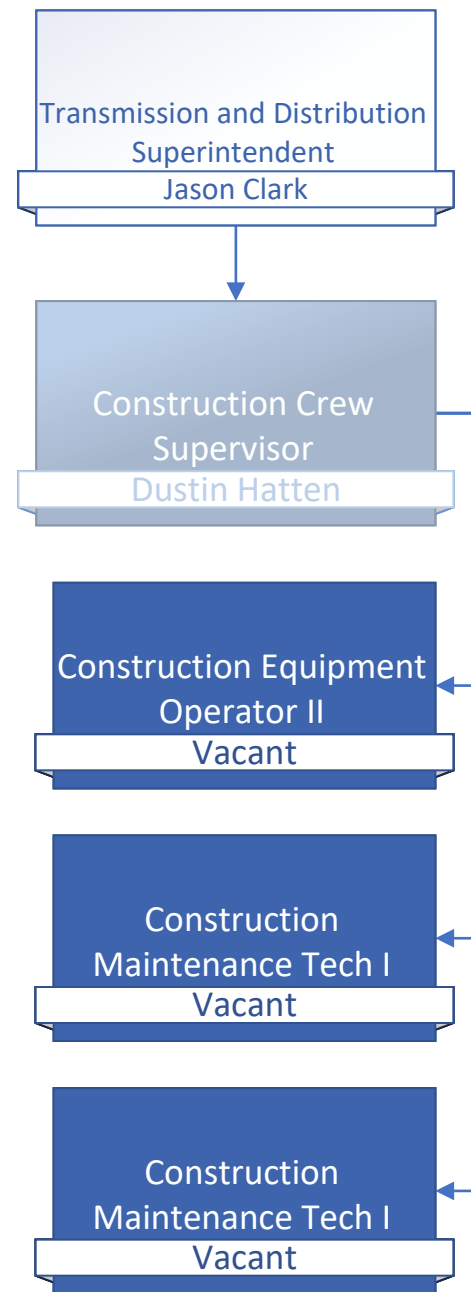


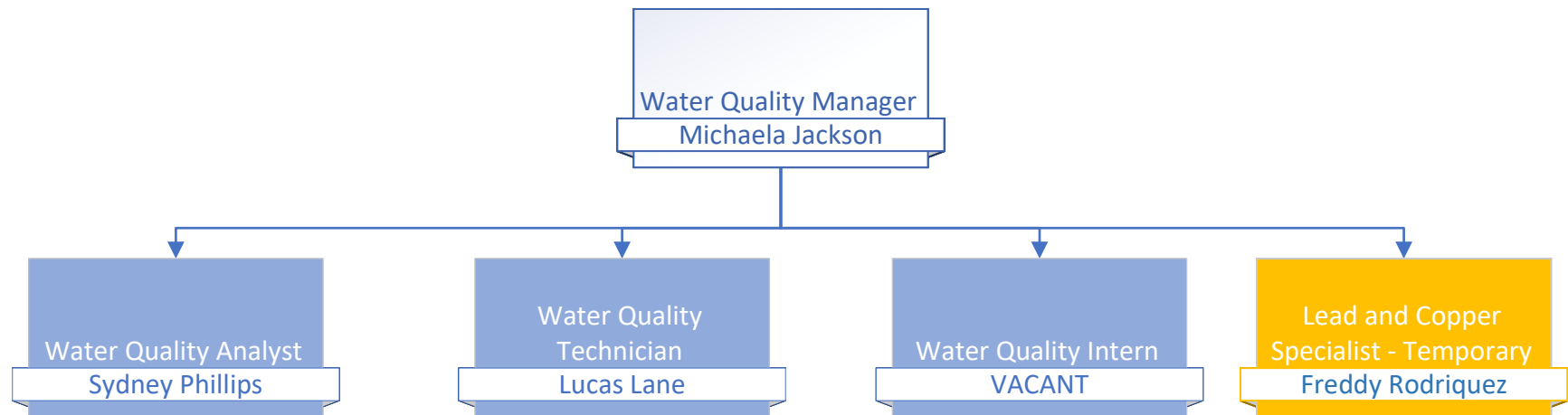


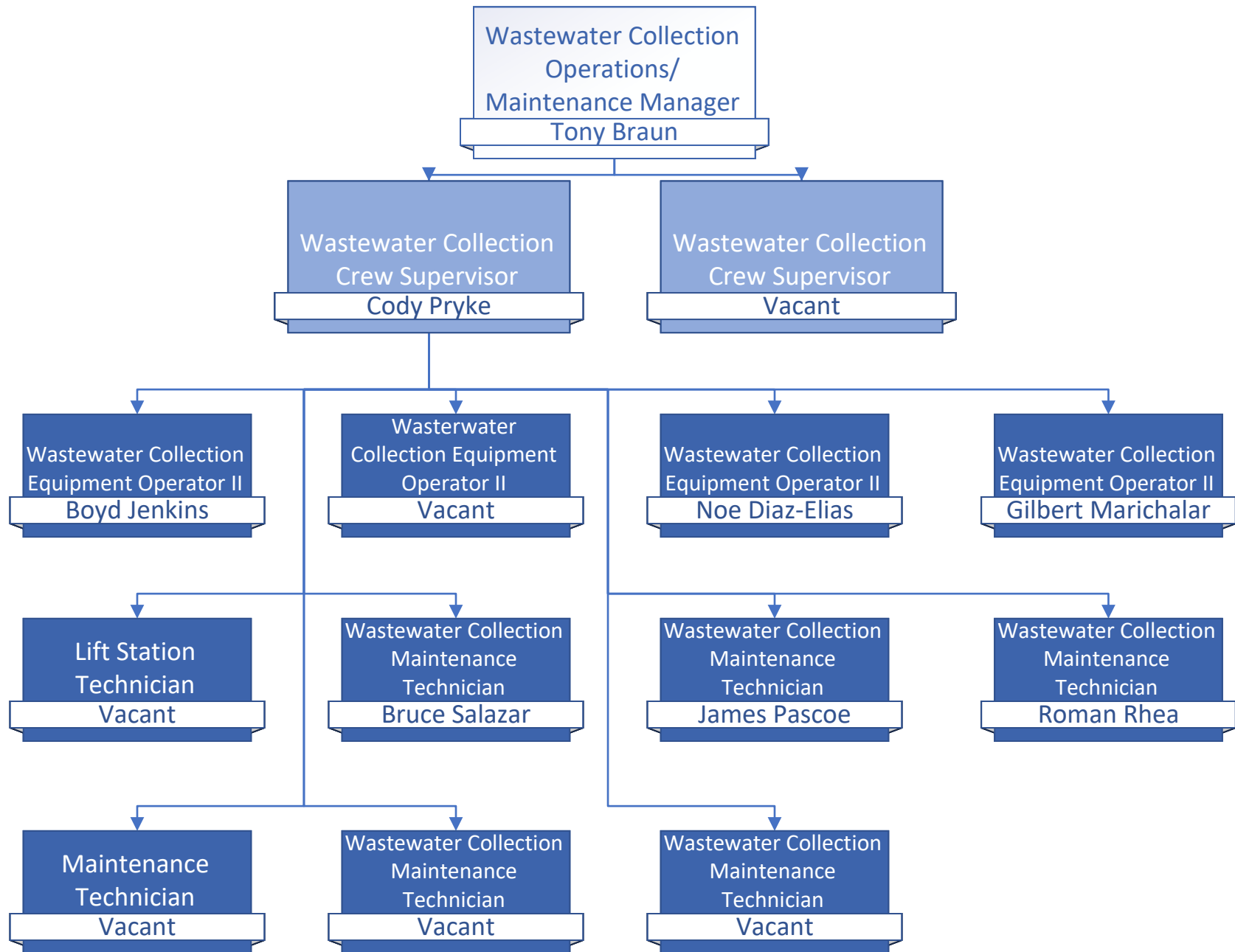


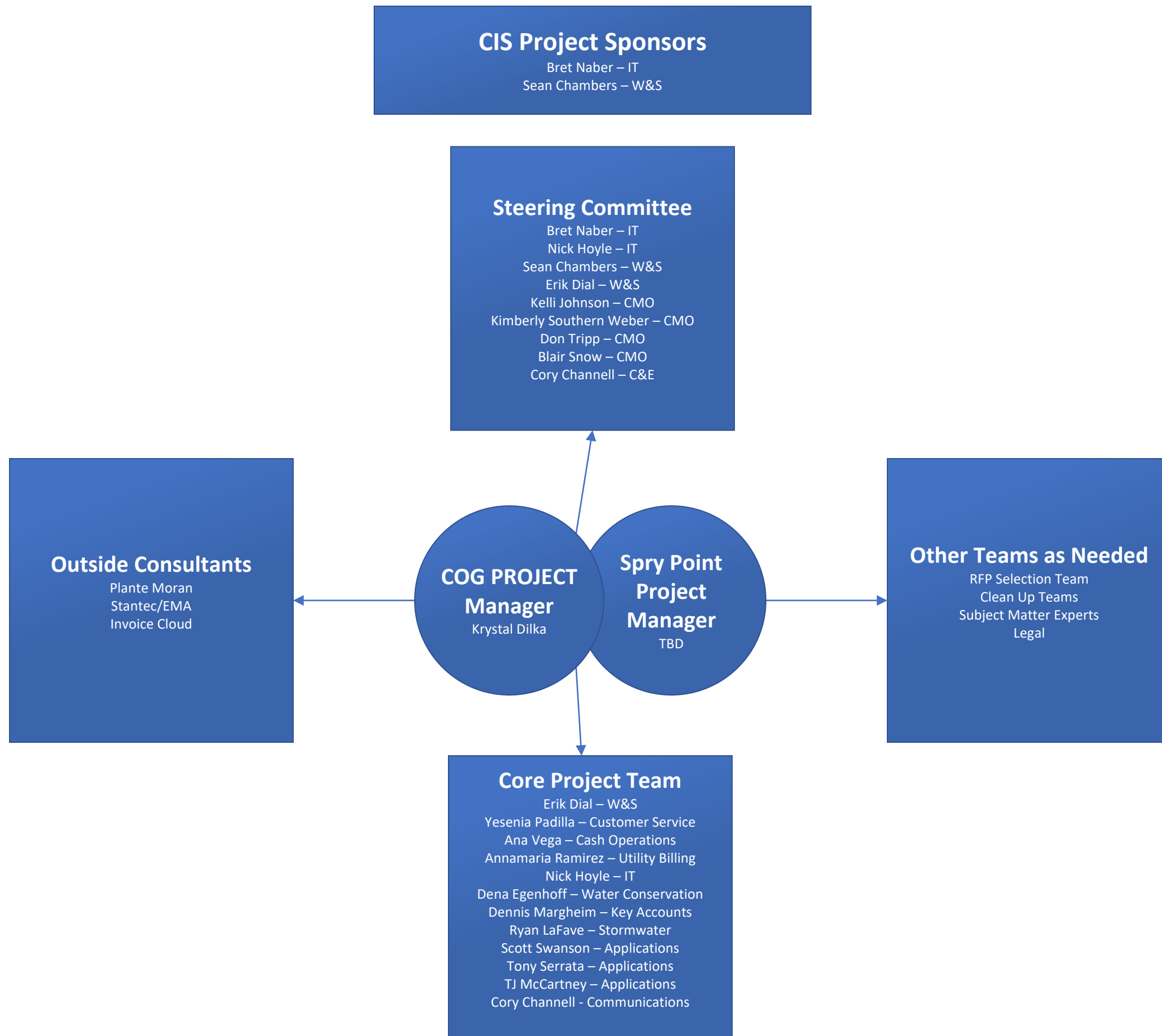
Future Plans 2024-2025













Water & Sewer Agenda Summary

June 26, 2024

Key Staff Contact: Leah Hubbard, Water Resource Operations Manager

Title:

Legal Report

Summary:

This report has been provided by Dan Biwer, Senior Environmental and Water Resources Attorney, City Attorney's Office.

Based on our review of the April 2024 Water Division 1 Resume, staff and water counsel recommend that the Water and Sewer Board authorize filing statements of opposition by the end of June 2024 to the following water court applications:

Case No. 24CW3059: The applicant, the Groundwater Management Subdistrict of the Central Colorado Water Conservancy District (GMS) is seeking a finding of reasonable diligence and to make a water right partially absolute. The water right involved is a junior storage right for La Poudre Reservoir Nos. 3 and 4 in the total amount of 1,600 a.f., with points of diversion from the B.H. Eaton Ditch, the Whitney Ditch, two pumps, and seepage inflows. GMS is seeking to make 674.5 a.f. of the storage right absolute. This case is related to another recent Central application, in which it made absolute a storage right for Jo Dee Reservoir No. 1, which also fills from the B.H. Eaton Ditch and pumps on the Poudre River, and may be stored in La Poudre Reservoir Nos. 3 and 4. Given the total amount of storage being claimed absolute, and Greeley's concerns with Central's accounting in the recent Jo Dee Reservoir case, we recommend that Greeley file a statement of opposition in this case to ensure Central's operation of its junior storage rights does not injure Greeley's rights on the Poudre River.

Case No. 24CW3060 (16CW3059): This case concerns a diligence application filed by United Water & Sanitation District (United) for junior storage rights and exchanges originally decreed in Case No. 16CW3059. United is seeking to make portions of its storage rights in Milliken Reservoir and 70 Ranch Reservoir absolute and to make certain of the exchanges partially absolute. We recommend that Greeley file a statement of opposition in this case to ensure that United's claims to make portions of these water rights absolute are supported, and to continue monitoring United's system-wide operations, which include water resources on the Poudre and South Platte Rivers, to ensure Greeley's rights are not injured.

Recommended Action:

Staff and water counsel recommend authorizing filing statements of opposition in Division 1 Case Nos. 24CW3059 and 24CW3060.

Recommended Motion:

"I move that the Board authorize filing statements of opposition in Case Nos. 24CW3059 and

24CW3060 and for staff and legal counsel to seek resolution of issues raised by these cases consistent with Water and Sewer Board Resolution No. 3, 2015.”

Attachments:

None



Water & Sewer Agenda Summary

June 26, 2024

Key Staff Contact: Sean Chambers, Water & Sewer Director

Title:

Director's Report

Summary:

The Director will provide a summary report including educational opportunities and updates on various operations activities

1. Education, Advocacy and Events Calendar

CWCB Colorado River Commissioner's July Webinar

July 11, 2024 <https://cwcb.colorado.gov/events/a-colorado-river-webinar-july-2024>

The Colorado River District's Annual Water Seminar

Friday, September 20th, 2024 at Colorado Mesa University in Grand Junction

<https://www.coloradoriverdistrict.org/annual-water-seminar-2024/>

Colorado Water Conservation Board Annual all basins summit (C-9 Summit) – a meeting of the state's 9 basin roundtables as guided by the Water for the 21st Century Act; Oct. 1-2, 2024, in Crested Butte

<https://cwcb.colorado.gov/events/c9-summit>

Recommended Action:

Informational only

Recommended Motion:

N/A

Attachments:

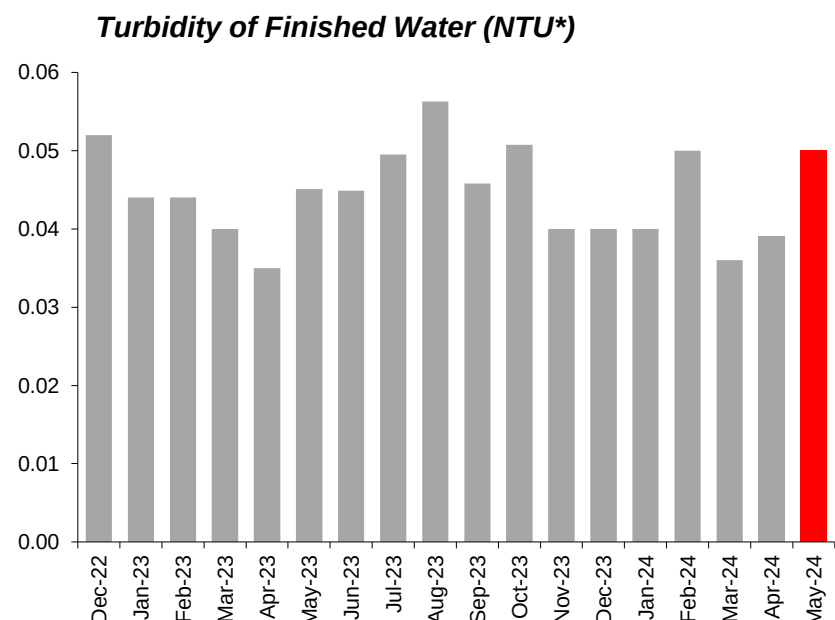
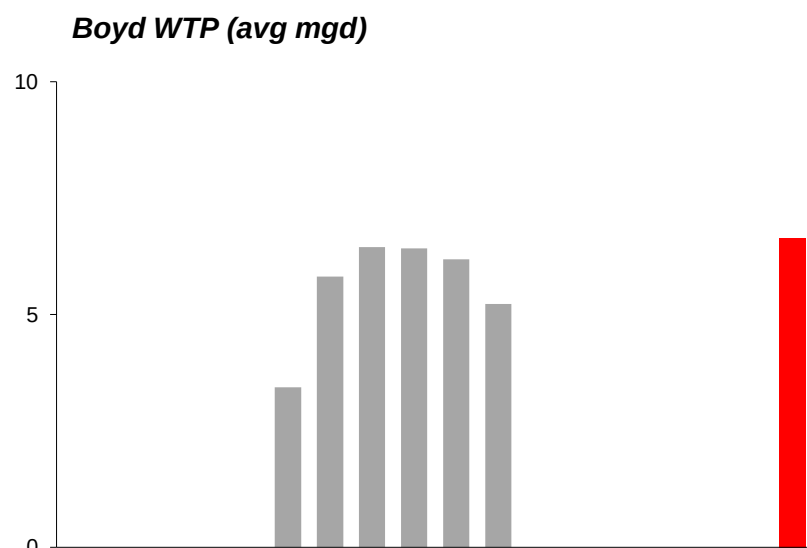
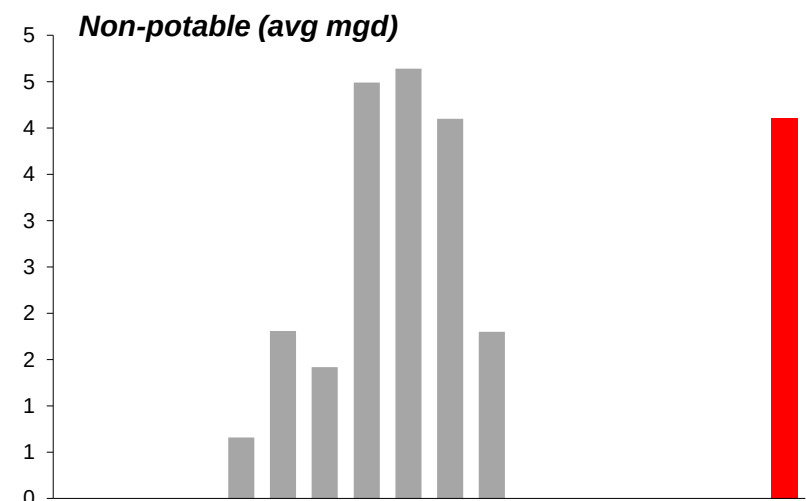
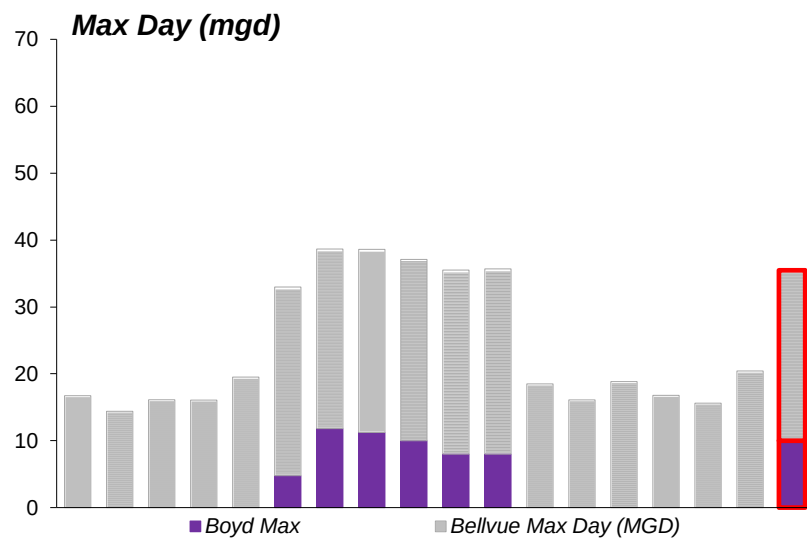
1. Copy of Board Meeting Charts_2024

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).

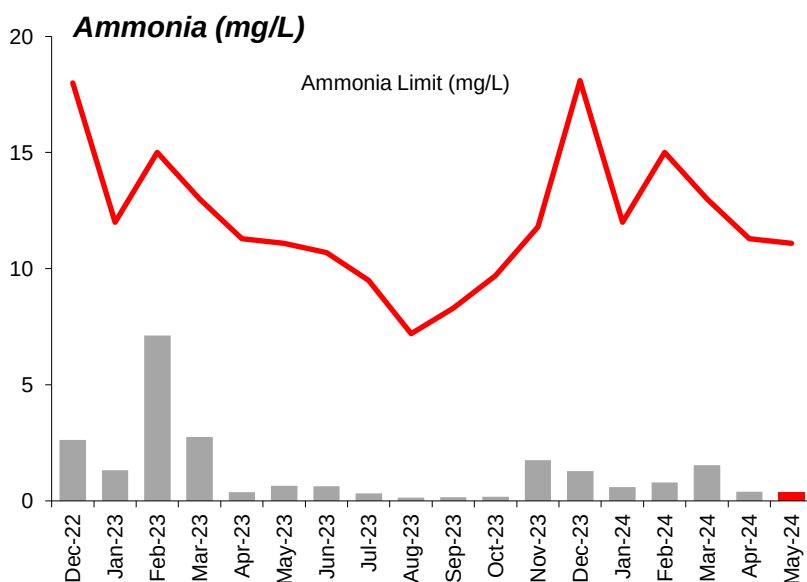
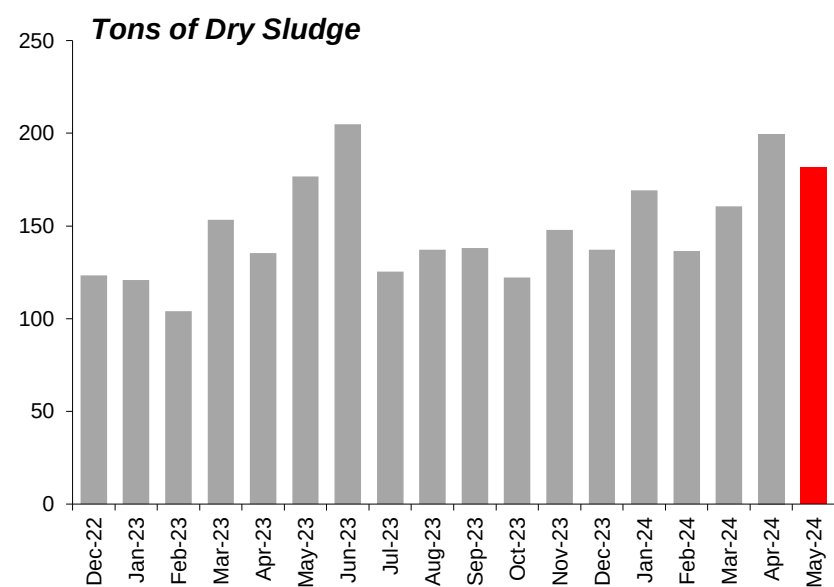
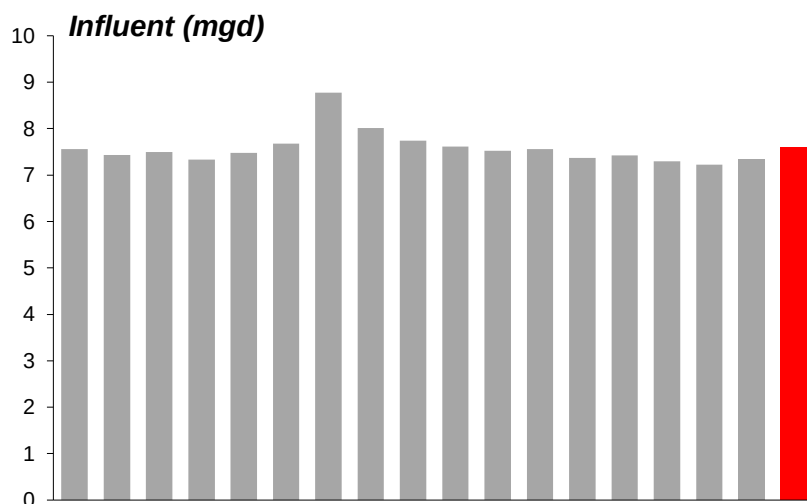
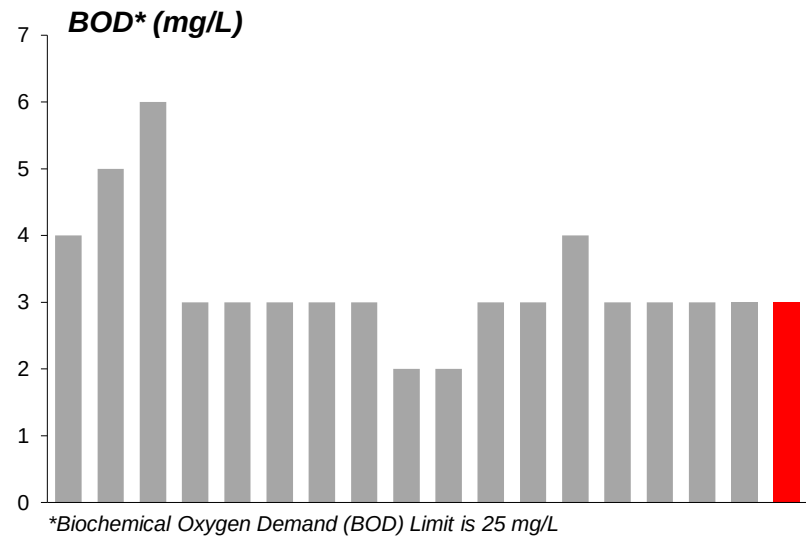
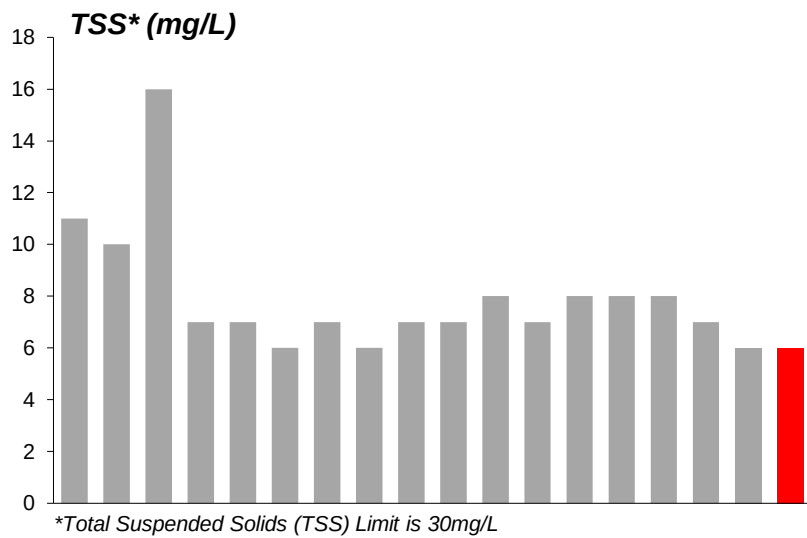


Wastewater Treatment

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.



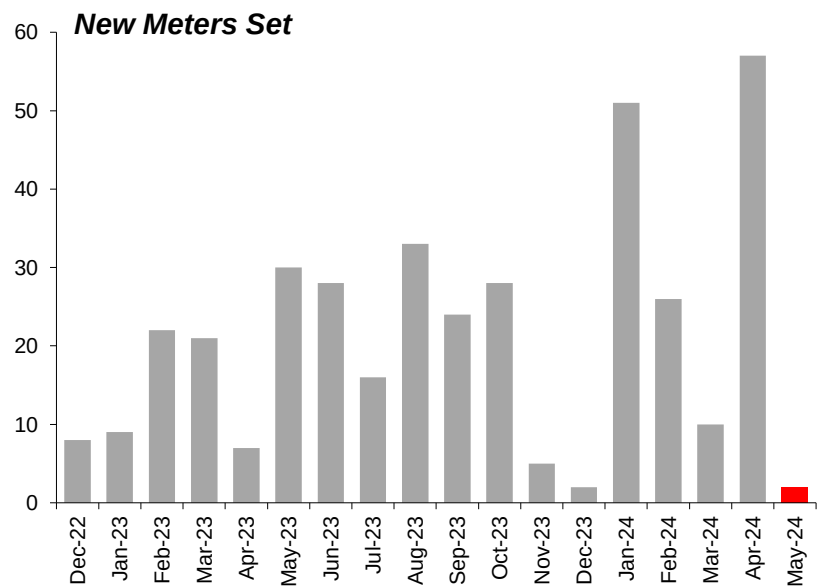
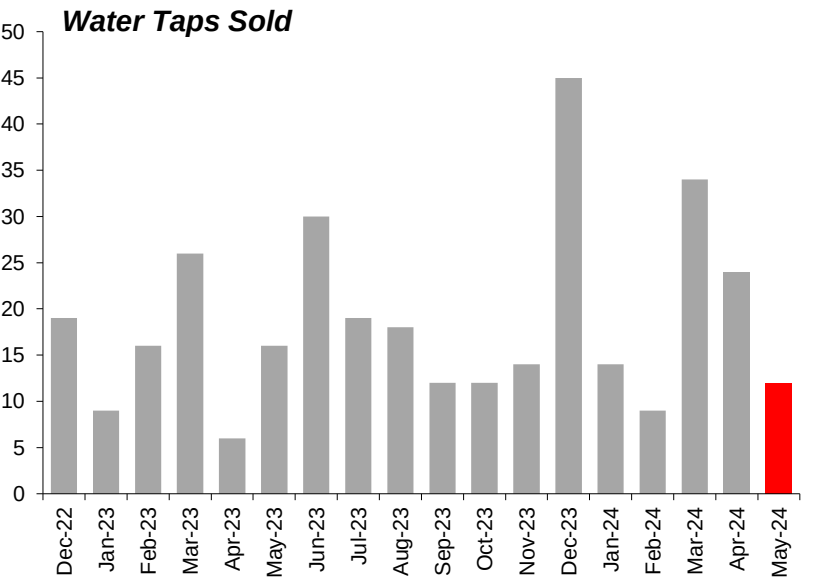
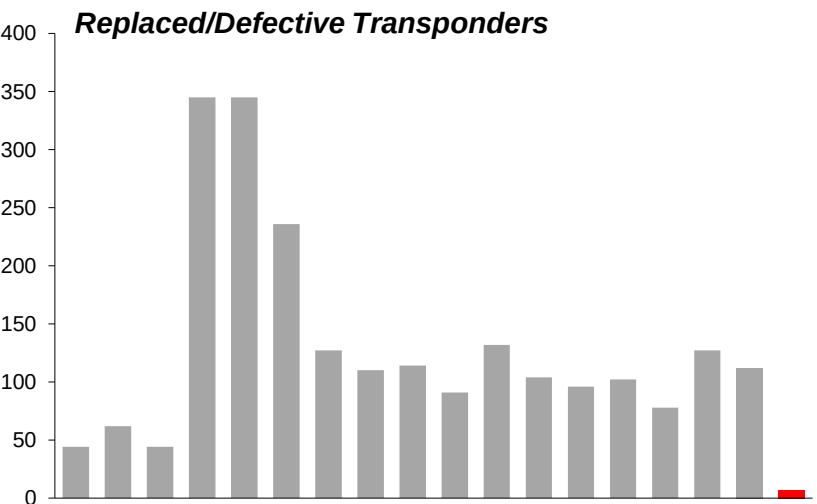
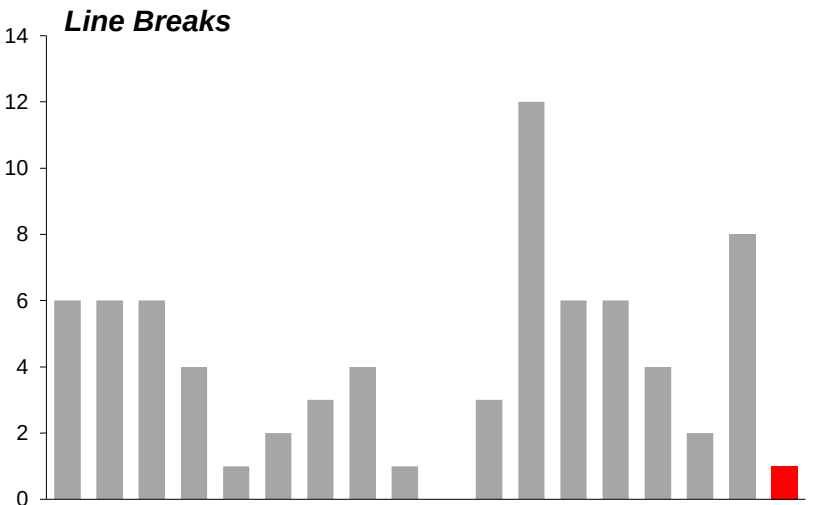
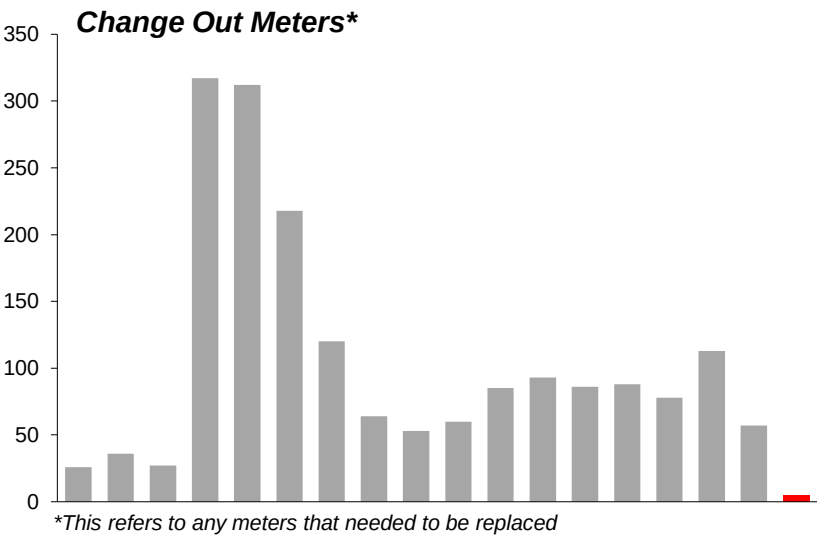
Water Distribution

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.



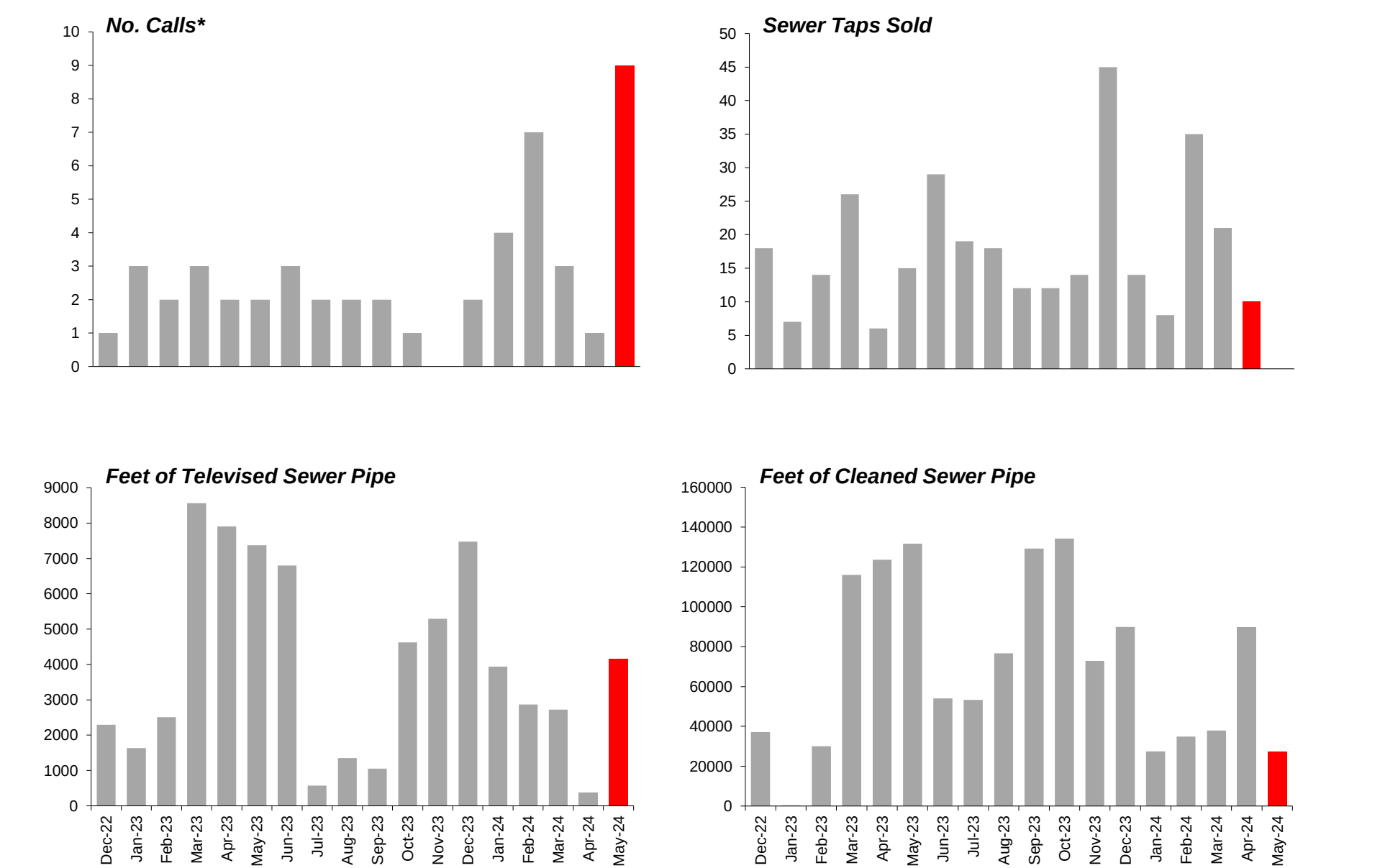
Wastewater Collection

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.

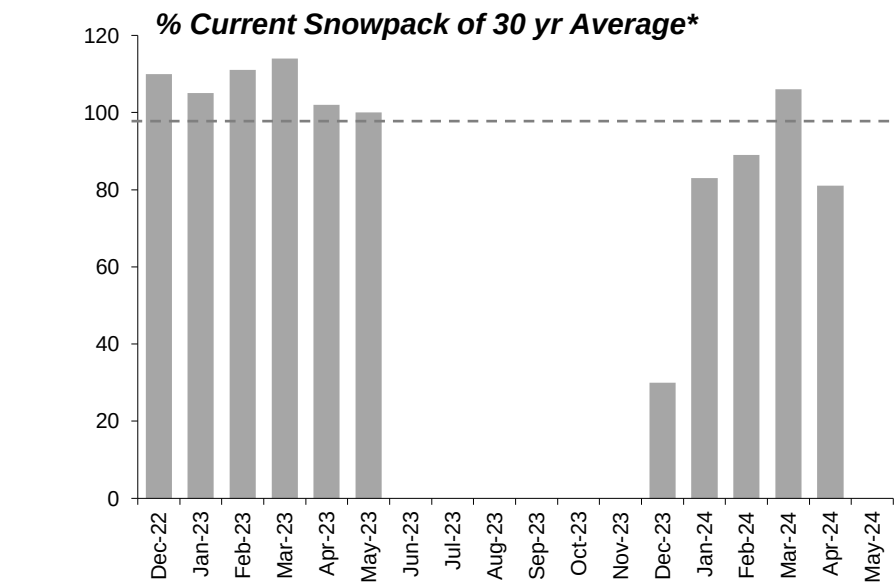
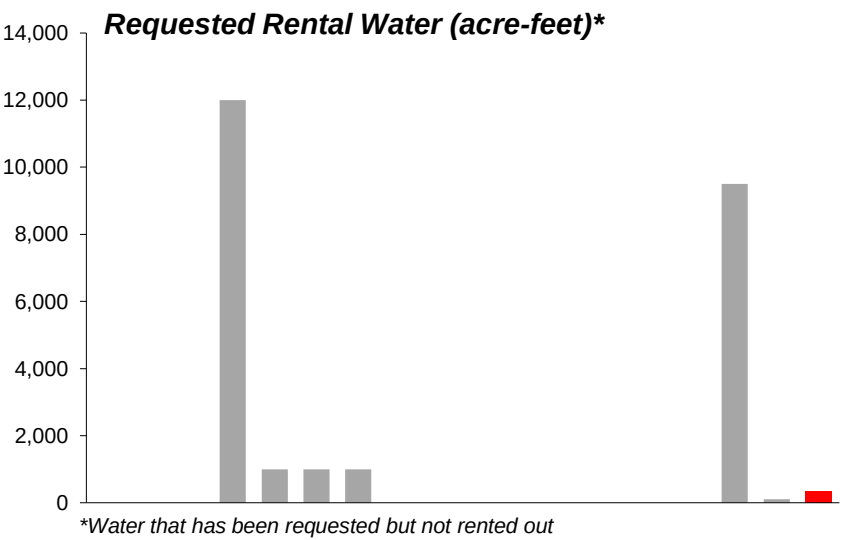
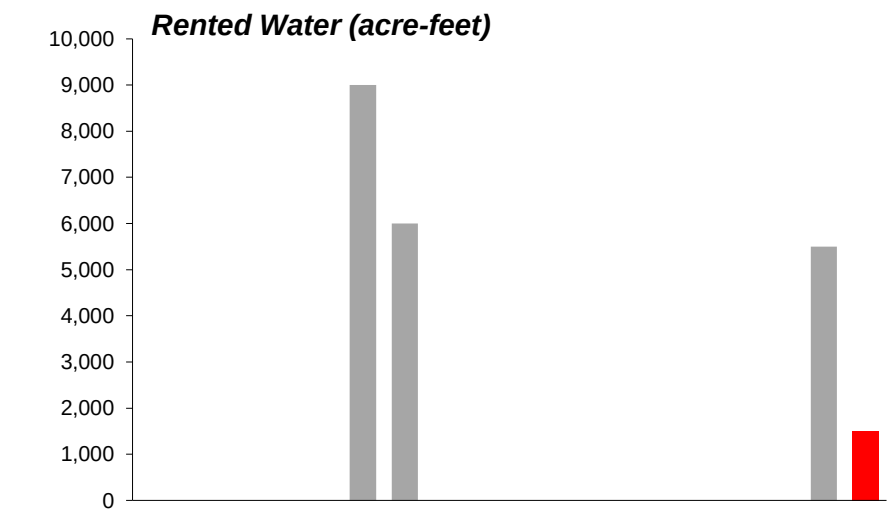
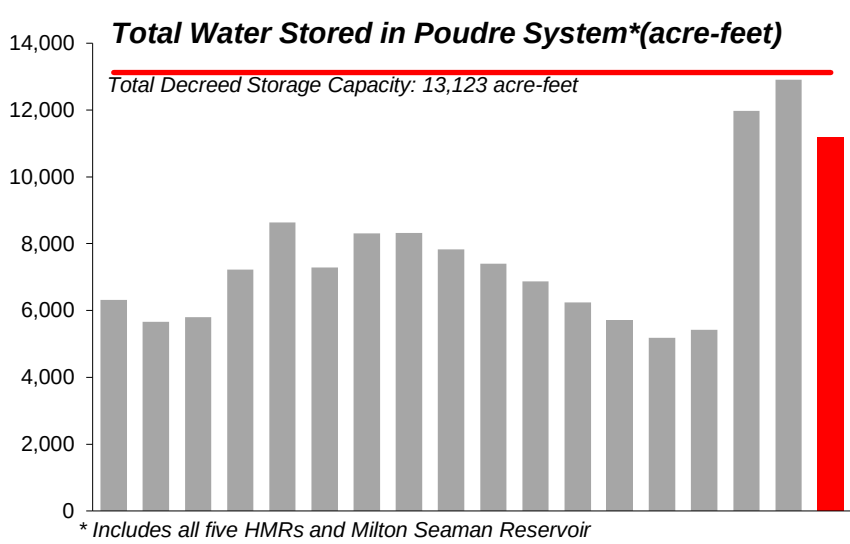
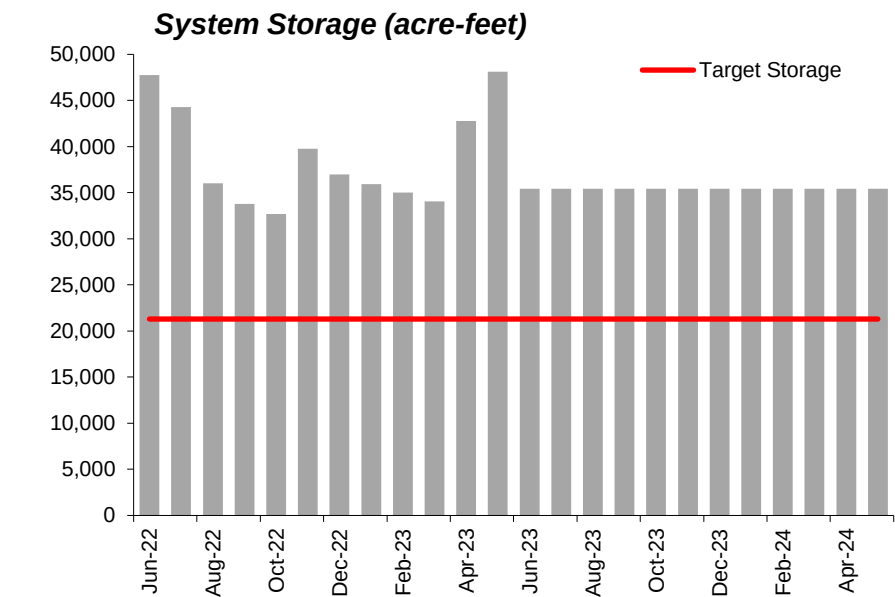


Water Resources

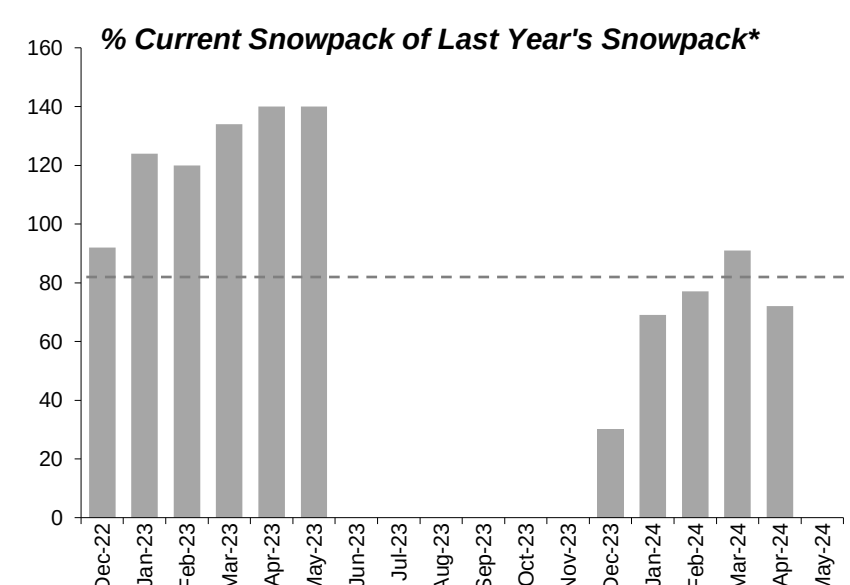
Greeley has numerous water rights in four river basins; the Upper Colorado River, Cache La Poudre, Big Thompson and Laramie River. The Water Resource staff must account for all of this water and comply with the rules of the Colorado Water Court and the State Engineer's Office which is in charge of allocating 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 was a cold month with an aveage temperature of 24.63°F. Temperatures warmed up in February with an average temperature of 34.52°F. The average teperature was 40.38°F in March and 49.62°F in April. May signaled the start of summer with an average temperature of 57.27°F.

Greeley received 0.35 inches of precipitation in January. A big snow storm brought 2.03 inches of precipitation in February. Greeley received 1.5 inches of precipitation in March and 1.6 inches in April. May brought less precipitation than expected, with 1.07 inches for the month.

