



## MEMORANDUM

**TO:** Board of Directors  
**FROM:** Brian Thompson, Government Affairs Administrator  
**DATE:** July 13, 2022  
**RE:** July 28, 2022, Board Meeting

This memorandum shall serve as notice of a Special Meeting of the Board of Directors of the Eagle River Water & Sanitation District:

**Thursday, July 28, 2022  
11:30 a.m.**

**This meeting will be held in-person for Board members**

Walter Kirch Room  
Eagle River Water & Sanitation District Vail office  
846 Forest Road  
Vail, Colorado

Due to concerns regarding COVID-19 and the benefits of limiting in-person contact, this meeting is open to public participants virtually through Microsoft Teams, except during Executive Session pursuant to §24-6-402, C.R.S. Login information is available prior to the meeting by emailing [info@erwsd.org](mailto:info@erwsd.org).

Public comments are welcomed during the meeting's designated public comment period consistent with §18-9-108, C.R.S. Speakers may address the Board on a first-recognized basis by the Chair. Public comments are limited to three minutes per speaker on relevant matters not listed on the agenda.



**BOARD OF DIRECTORS SPECIAL MEETING**  
 Thursday, July 28, 2022  
**11:30 a.m.**  
 Walter Kirch Conference Room

**AGENDA**

- |   | <u><b>Attachment Link</b></u> |
|---|-------------------------------|
| <b>1. Consultant/Guest Introduction</b>   |                               |
| <b>2. Public Comment</b>  |                               |
| <b>3. Public Hearing Concerning Certain Water Service Fees – David Norris</b>   | <a href="#">Action Item</a>   |
| <b>4. Action Items</b>  |                               |
| 4.1. Approval of minutes – June 23, 2022, Regular Meeting   | <a href="#">Action Item</a>   |
| 4.2. Approval of contract log   | <a href="#">Action Item</a>   |
| <b>5. Information reports</b>   |                               |
| 5.1. Development report   | <a href="#">Informational</a> |
| 5.2. Board committees   | <a href="#">Informational</a> |
| 5.3. June Authority meeting summary – draft   | <a href="#">Informational</a> |
| <b>6. Strategy Items</b>  |                               |
| 6.1. Board member input   |                               |
| 6.2. Water budgeting and drought case study – Linn Brooks   |                               |
| <b>7. General Manager Report – Linn Brooks</b>  |                               |
| 7.1. GM information items   |                               |
| 7.2. Business Administration report – David Norris  |                               |
| 7.2.1. Quarterly financials – Jim Cannava   | <a href="#">Informational</a> |
| 7.3. Operations report – Siri Roman   | <a href="#">Informational</a> |
| 7.4. Engineering and Water Resources report – Jason Cowles  | <a href="#">Informational</a> |
| 7.5. Communications and Public Affairs report – Diane Johnson   |                               |
| <b>8. General Counsel Report – Jim Collins</b>  | <a href="#">Confidential</a>  |
| <b>9. Water Counsel Report – Kristin Moseley</b>  |                               |
| <b>Executive Session</b>  |                               |
| <b>10. Motion to adjourn to Executive Session to receive legal advice on the following topics, and that the Session not be recorded, pursuant to §24-6-402(4)(b), C.R.S.:</b> |                               |
| 10.1. Colorado River Cooperative Agreement matters  |                               |
| 10.2. No-fault damages program  | <a href="#">Confidential</a>  |
| 10.3. Mill Creek spill update   | <a href="#">Confidential</a>  |
| 10.4. Upcoming diligence for Red Sandstone Reservoir  | <a href="#">Confidential</a>  |
| 10.5. Housing/real estate update  |                               |
| <b>11. Adjournment</b>  |                               |



## BOARD ACTION REQUEST

**To:** Board of Directors  
**From:** David Norris, Director of Business Administration  
**Date:** July 28, 2022  
**Re:** Resolution Concerning Certain Water Service Fees

**Summary of Subject:** Staff is recommending that the Board approve the attached Resolution and adopt the proposed Water Service fees imposed in Exhibit A.

**Discussion and Background:** The Board reviewed a fee analysis at the June 23, 2022, meeting and unanimously provided direction to schedule a public hearing to consider this resolution. The District provided timely public notice to hold this hearing at the July 28 board meeting.

The following fees are adjustments to current fees:

Delinquent/Non-Compliance Turn off Service
Fire Hydrant Meter Relocation Fee
Lien Fee for Unpaid Charges
Meter Inspection and Reinspection
Returned Check
Service and Inspection Calls Fee
Turn On/Off Service

The following are new proposed fees:

Fee Type	Description
Transfer of Service Fee	Transfers of service upon potential sale of real estate.
Account Reactivation Fee	When an account sits vacant for an extended period and the account needs reactivation.
New Construction Application Fee	When a construction project application is submitted for review.
Enforcement of Encroachments Fee	The service of enforcement of encroachments.
Variances Fee	The reviewing of the application or request and will be assessed regardless of the outcome of the variance being approved or not.
Water Rights Dedication Fee	The reviewing of the application for Water Rights Dedication for a project.
Mainline Extension Fee	The reviewing of the application for a mainline extension application to a project.

Attached are the full resolutions to:

- Adopt the proposed Water Service Fees as presented.

**Legal Issues:** N/A

**Budget Implication:** This will provide revenues to cover costs associated with the services provided.

**Recommendation:** Staff recommends the Board approve the attached resolution.

**Board Actions Requested:**

1. Open the public hearing
2. Consider the Resolution and Motion

Motion to adopt the attached resolution as presented for the purpose of adopting the proposed Water Service fees.

3. Close the public meeting

**Attachments:**

Resolution Concerning Certain Water Service Fees.

**EAGLE RIVER WATER AND SANITATION DISTRICT**  
**A RESOLUTION CONCERNING CERTAIN WATER SERVICE FEES**

**WHEREAS**, the Eagle River Water and Sanitation District (“District”) is a quasi-municipal corporation and political subdivision of the State of Colorado and a duly organized and existing special district pursuant to Title 32, Colorado Revised Statutes; and

**WHEREAS**, the District Board of Directors (“Board”) has the authority to fix and from time to time increase or decrease fees, rates, and charges pursuant to Section 32-1-1001(1)(j), C.R.S., for services, programs or facilities furnished by the District; and

**WHEREAS**, the Board hereby finds and determines that it is in the best interest of the public health, welfare, and safety of the District residents and visitors that the District collect adequate revenues to pay ongoing operation, maintenance, capital improvement, and water rights costs; and

**WHEREAS**, the Board has considered a recent analysis performed by District staff and finds the recommended fees contained therein are reasonably related to these costs; and

**WHEREAS**, more than thirty days advance notice to the District’s customers of the Board’s intent to consider fee increases at the July 28, 2022, special meeting, was provided in accordance with Section 32-1-1001(2)(a), C.R.S.

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Directors of Eagle River Water and Sanitation District as follows:

1. The water service fees, attached hereto as Exhibit A and incorporated herein by this reference, are hereby adopted to be effective August 1, 2022.
2. This Resolution shall supersede any contrary provision contained in the District’s Rules and Regulations, which shall be modified as soon as reasonably practical to conform with the provisions set forth in this Resolution; provided, however, if there is any fee that is set forth in the Rules and Regulations or elsewhere established, which is not changed by this Resolution, said fee is hereby ratified and shall remain in full force and effect.

**WHEREUPON**, a motion was made and seconded, and upon a majority vote this Resolution was approved and adopted by the Board on this 28<sup>th</sup> day of July 2022.

EAGLE RIVER WATER AND SANITATION DISTRICT

By: \_\_\_\_\_  
Dick Cleveland

ATTEST:

\_\_\_\_\_  
Secretary

**EXHIBIT A**

<b>Fee Type</b>	<b>Current Fees</b>	<b>Proposed Fees</b>
Delinquent/Non-Compliance Turn off Service	\$100	\$150
Fire Hydrant Meter Relocation Fee	\$168	\$200
Lien Fee for Unpaid Charges	\$200	\$250
Meter Inspection and Reinspection	\$168	\$200
Returned Check	\$25	\$50
Service and Inspection Calls Fee	\$84	\$200
Turn On/Off Service	\$84	\$100
Transfer of Service Fee	N/A	\$145
Account Reactivation Fee	N/A	\$100
New Construction Application Fee	N/A	\$150
Enforcement of Encroachments Fee	N/A	\$450
Variances Fee	N/A	\$450
Water Rights Dedication Fee	N/A	\$1675
Mainline Extension Fee	N/A	\$1950


## EAGLE RIVER WATER & SANITATION DISTRICT 2022 CONTRACT LOG

Contract	Date	Change Order			Contract	Project	Account	Status and
Number	Executed	signed on	Project Name	Contractor	Amount	Manager	Number	Notes
22.15.053	06/21/33		Various Welding Services	Faultless Fusion LLC	\$50,000.00	N. Nemcanin	10.3.9.20.20.520 & 20.1.9.00.35.500	Open/Contract Expires 12/31/22
22.15.054	07/12/22		Dowd Junction Collection System Improvements	Ground Engineering Consultants, Inc.	\$59,895.00	J. Bearisto	10.3.2.10.01.006	Open/Contract Expires 10/31/23
22.15.055	07/07/22		Diagnostic Health & Wellness Services	Quest Diagnostics Health & Wellness LLC	\$51.00/person	T. Rymph	10.3.9.00.80.755	Open/Contract Expires 1/31/23
22.15.056	07/11/12		Smart Dollar Subscription	SmartDollar	\$10,757.00	K. Wren	10.3.9.00.80.755	Open/Contract Expires 8/31/23
22.15.057	07/12/22		Bolts Lake	Shannon & Wilson	\$1,218,679.00	J. Cowles	10.3.2.20.09.136 & 20.1.2.00.00.136	Open/Contract Expires 12/31/23
22.15.058	07/12/22		Miscellaneous Projects	Western Water Solutions LLC	\$50,000.00	N. Nemcanin	10.3.9.20.30.505 & 20.1.9.00.18.500	Open/Contract Expires 12/31/22
22.15.059	07/13/22		Vail Tank 3 Overflow Pipe Repair	360 Civil, Inc.	\$27,500.00	T. Young	10.3.2.20.09.019	Open/Contract Expires 8/18/22
22.15.060	Pending		Vail Office Bathroom Renovations	LKSM Design, PC	\$3,375.00	J. Bearisto	10.3.9.10.20.500	Open/Contract Expires 12/31/22
22.15.061	Pending		AWWTF Lab Improvements	Moltz Construction, Inc.	\$731,515.00	M. Marts	10.3.2.10.03.701	Open/Contract Expires 9/1/22
22.15.062	Pending		Structural Engineering for the three Buckhorn Homes	Anderson Structural Engineering, Inc.	\$5,855.00	C. Nunley	10.1.2.10.05.052	Open/Contract Expires 8/1/23

**ERWSD New Development Report**

**July 2022**



ERWSD New Development Report July 2022							
							
	Type of Use	SFEs Proposed	Location	Projected Water Demand Annual Acre-Feet Augmentation (AF)	Development Approval Process Step:	Construction Approval Process Step:	
<b>Projects Requiring Water Rights Dedication</b>							
534 E Lionshead Circle - Elevation	Residential	12	Vail	0.49	2. Water Analysis	0. Conceptual	
500 E Lionshead Circle - Legacy	Residential	23	Vail	0.31	2. Water Analysis	2. Plan Approval	
Alura (Miradoro)	Residential	10	Vail	0.83	1. Connection Application	1. Plan Review	
Wolcott PUD	Mixed Use	328 + Com	Wolcott	TBD	0. Conceptual	0. Conceptual	
<b>Projects Under Construction</b>							
Belden Place (1200 Block Main St)	Residential	41	Minturn	N/A	N/A	2 Plan Approval	
Highline (Double Tree Expansion)	Residential	43.65	Vail	0.79	6. Ability to Serve Letter	1. Plan Review	
North Minturn PUD	Residential	184	Minturn	--	N/A	1. Plan Review	
The Residences at Main Vail	Residential	72	Vail	0.81	6. Ability to Serve Letter	2. Plan Approval	
S. Frontage Rd Roundabout	Infrastructure	N/A	Vail	--	N/A	2. Plan Approval	
Vail Mountain View Phase II	Mixed Use	37	Vail	--	6. Ability to Serve Letter	N/A	
VVMC Phase II-East Wing	Commercial	--	Vail	--	N/A	2. Plan Approval	
Vail Marriott Residence Inn	Mixed Use	75	Vail	--	N/A	2. Plan Approval	
<b>Projects In Warranty Period</b>							
3010 Basingdale (Phase II), 841/851 Main St Minturn, Red Sandstone Parking Garage							
<b>Process</b>	<b>Construction Approval Process Steps:</b>	0. Conceptual	1. Plan Review	2. Plan Approval	3. Acceptance	4. Warranty Period	5. Final Acceptance
	<b>Development Approval Process Steps:</b>	1. Connection Application	2. Water Demand Worksheet Analysis	3. Conditional Capacity to Serve Letter	4. Water Rights Allocation	5. Water Service Agreement	6. Ability to Serve Letter



## UERWA New Development Report

June 2022



Type of Use

SFEs Proposed

Location

Projected Water Demand Annual Acre-Feet Augmentation (AF)

Development Approval Process Step:

Construction Approval Process Step:

### Projects Requiring Water Rights Dedication

Edwards River Park PUD	Mixed Use	440+com	Edwards	61.8	3. Cond. Capacity	0. Conceptual
Margaux PUD	Residential	32	Edwards	3.56	3. Cond. Capacity	0. Conceptual
Mountain Hive	Residential	188	Edwards	10.5-15.2	3. Cond. Capacity	0. Conceptual
NorthStar PUD Amendment	Commercial	TBD	Edwards	3.7	5. Water Service Agreement	2. Plan Approval
Riverwalk Edwards Ammendment	Residential	18	Edwards	1.8	3. Cond. Capacity	N/A
Vogelman Parcel (Carwash)	Mixed Use	1.5	Edwards	1.1-2.6	2. Water Analysis	1. Plan Review
Warner Building 2 Conversion	Residential	13.25	Eagle-Vail	0.07	3. Cond. Capacity	N/A
West End PUD Ammendment	Residential	335	Edwards	34.3	3. Cond. Capacity	0. Conceptual

### Projects Under Construction

140 W Beaver Creek Blvd	Residential	112	Avon	--	N/A	0. Conceptual
Avon Hotel Development (Traer Tract J)	Commercial	85.05	Avon	--	6. Ability to Serve Letter	1. Plan Review
CMC Student Housing	Residential	36	Edwards	--	6. Ability to Serve Letter	1. Plan Review
CVC Clubhouse Residences	Residential	9	Edwards	1.34	6. Ability to Serve Letter	2. Plan Approval
ECO School District Housing	Residential	37	Edwards	3.7	6. Ability to Serve Letter	2. Plan Approval
Fox Hollow Amended PUD	Mixed Use	108	Edwards	14	6. Ability to Serve Letter	1. Plan Review
Frontgate (CO World Resorts)	Mixed Use	84	Avon	2.6	6. Ability to Serve Letter	2. Plan Approval
Kudel Parcel	Residential	4	Edwards	2.4	6. Ability to Serve Letter	2. Plan Approval
Maverik Gas Station	Commercial	2.6	Avon	1.03	6. Ability to Serve Letter	2. Plan Approval
McGrady Acres	Residential	24	Avon	--	6. Ability to Serve Letter	2. Plan Approval
Riverfront Lot 1	Residential	53	Avon	--	N/A	2. Plan Approval
Stolport Restaurant (Traer Tract J)	Commercial	TBD	Avon	--	6. Ability to Serve Letter	1. Plan Review
Swift Gulch	Residential	42	Avon	Under Review	1. Connection Application	0. Conceptual
Tract Y- Metcaif Road	Residential	54	Avon	Under Review	1. Connection Application	1. Plan Review

### Projects Completing Warranty Period

6 West Apartments, 185 Elk Tract, Piedmont Apartments, Riverfront Village, Stillwater

Upper Eagle Regional Water Authority

Process

<b>Construction Approval Process Steps:</b>	0. Conceptual	1. Plan Review	2. Plan Approval	3. Acceptance	4. Warranty Period	5. Final Acceptance
<b>Development Approval Process Steps:</b>	1. Connection Application	2. Water Demand Worksheet Analysis	3. Conditional Capacity to Serve Letter	4. Water Rights Allocation	5. Water Service Agreement	6. Ability to Serve Letter



## BOARD COMMITTEES

### DISTRICT

<i>Audit/Budget</i>	Dick Cleveland Steve Coyer
<i>Employee Housing</i>	Steve Coyer Dick Cleveland
<i>Retirement Plans</i>	Bob Warner Linn Brooks David Norris
<i>Organizational Development</i>	Bob Warner Dick Cleveland
<i>Facilities Master Plan</i>	George Gregory Bob Warner

### JOINT

<i>Water Quality</i>	Sarah Smith Hymes (A) Timm Paxson (D)
<i>Rules and Regulations</i>	Kim Bell Williams (A) Bob Warner (D)
<i>Water Supply Planning</i>	Sarah Smith Hymes (A) Mick Woodworth (A) Kate Burchenal (D) Steve Coyer (D)
<i>Climate Action Plan</i>	Sarah Smith Hymes (A) Kate Burchenal (D) Timm Paxson (D)

(A) = Authority, (D) = District

### AUTHORITY

<i>Audit/Budget</i>	Geoff Dreyer George Gregory
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**UPPER EAGLE REGIONAL  
WATER AUTHORITY**

**GOVERNED BY:**

The Metropolitan  
Districts of:  
Arrowhead  
Beaver Creek  
Berry Creek  
EagleVail  
Edwards

The Town of Avon

**M E M O R A N D U M**

**TO:** Board of Directors  
**FROM:** Brian Thompson, Government Affairs Administrator  
**DATE:** July 21, 2022  
**RE:** Summary of Authority's June 23, 2022, Board Meeting

The following is a summary of items discussed at the June 23, 2022, Authority Board Meeting.

Board members present and acting were Chair George Gregory, Secretary Kim Bell Williams, Treasurer Geoff Dreyer, Mick Woodworth, and alternate director Mike Towler. Alternate Director Eric Heil was present and acting for the first portion of the meeting until replaced by Vice Chair Sarah Smith Hymes. Kevin Hillgren was present and not acting.

<b>Oath of Office</b>	Mike Towler was sworn in after being appointed as an alternate director by the Beaver Creek Metropolitan district.
<b>Audited Financial Statement</b>	Matthew Miller (McMahan & Associates) reported that UERWA received an unmodified opinion with no recommendations or concerns reported in the board communication letter. Directors approved the FY 2021 Audited Financial Statement and directed final reports be distributed.
<b>Approval of minutes</b>	Directors approved the May 26, 2022, regular meeting minutes.
<b>Unallocated Water</b>	Jason Cowles said the Authority's unallocated water is still projected at 227.31 acre feet, including 51.19 acre feet of unrestricted Eagle Park Reservoir water (which includes 25AF pledged by the District).
<b>COVID-19 wastewater sampling</b>	Siri Roman said that sampling conducted as part of Colorado's wastewater surveillance program confirmed the presence of BA.4 and BA.5 omicron subvariants in wastewater at the district's treatment facilities.
<b>New Fees</b>	David Norris presented an analysis of service fees and associated costs. Directors supported proposed new fees being assessed to customers receiving direct services rather than the costs being distributed across all ratepayers. The board will consider new and revised fees at a July 28 public hearing.
<b>EPA PFAS health advisory</b>	Kailey Rosema reported on the EPA's June 15 announcement that significantly lowered existing health advisories for PFAS and PFOA substances and said that current laboratory methods cannot detect such low levels.
<b>Avon Wastewater Project</b>	Melissa Marts reported that the Nutrient Upgrade project remains on schedule and within budget.
<b>Fenno Wellhouse</b>	Jeff Schneider reported the capital project was completed within 3% of the original bid price despite experiencing supply chain issues that delayed its completion for seven months. The facility positively affects water quality.
<b>Eagle Park Reservoir Company</b>	The EPRC Board and Shareholders met June 21. Siri Roman said there are new directors, the board approved the FY 2023 budget, and the reservoir is at full pool.

**Managed by Eagle River Water & Sanitation District**

846 Forest Road Vail, Colorado 81657 Tel (970) 476-7480 [erwsd.org](http://erwsd.org)

<b>6 West</b>	Jason Cowles confirmed the completion of the 6 West infrastructure acceptance.
<b>Board training</b>	Diane Johnson discussed workshops, manuals, and water law training available to directors.
<b>Consumer Confidence Reports</b>	Diane Johnson reported that the water department's annual UERWA and ERWSD consumer confidence reports were mailed to customers and will be available online for those who don't receive them directly.
<b>Bolts Lake construction</b>	Kathryn Winn reported that she is awaiting comments from Minturn on a draft intergovernmental agreement for Minturn's 1041 process concerning the construction of Bolts Lake.
<b>Minturn Water Cases Stipulations</b>	Directors approved the stipulation agreement for Case No. 21CW3029 and 21CW3030 and authorized the general manager to address future stipulations unless the stipulation is unique, unusual, or otherwise requires Board approval.



**Fiscal Year 2022  
Quarterly Financial Report  
For the 2nd Quarter Ending June 30, 2022**

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1. Quarterly Financial Report Cover Memo
2. Net Income & Budget Comparisons
3. Revenue Comparisons
4. Bond & Cash Balances
5. Housing Report



**To:** Board of Directors  
**From:** Jim Cannava, Finance Manager  
**Date:** July 22, 2022  
**Re:** Quarterly Financial Reports - YTD June 30, 2022

The 2<sup>nd</sup> Quarter 2022 financial reports are attached. Wastewater and Water operating revenues are tracking 1.6% better than budget and 18% greater than YTD 2021. Operating expenses are tracking 1.2% over budget and 10% greater than YTD 2021. Bond funds are projected to be consumed by year end. The process to secure a bond to fund current and planned bond projects is scheduled to begin in Q4.

Respectfully:

A handwritten signature in black ink, appearing to read "Jim Cannava", written in a cursive style.

Jim Cannava  
Finance Manager  
Eagle River Water and Sanitation District



**Net Income & Budget Comparisons**

**WASTEWATER**

<b>Operating</b>	<b>Annual Budget</b>	<b>YTD 2022 Q2</b>	<b>YTD 2021 Q2</b>
Revenue	\$21,898,087	\$11,430,104	\$9,802,125
Expense	\$18,795,869	\$9,588,223	\$8,347,920
<b>Net Income</b>	<b>\$3,102,218</b>	<b>\$1,841,881</b>	<b>\$1,454,204</b>

<b>Non-Operating</b>	<b>Annual Budget</b>	<b>YTD 2022 Q2</b>	<b>YTD 2021 Q2</b>
Revenue	\$7,419,516	\$4,226,079	\$3,734,486
Expense	\$11,478,747	\$3,506,451	\$3,075,071
<b>Net Income</b>	<b>-\$4,059,231</b>	<b>\$719,628</b>	<b>\$659,415</b>

<b>Net Income</b>	<b>-\$957,013</b>	<b>\$2,561,509</b>	<b>-\$794,790</b>
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<b>Fund Balance</b>	<b>Annual Budget</b>	<b>YTD 2022 Q2</b>
Beginning Balance	\$23,414,392	\$23,414,392
Net Income	-\$957,013	\$2,561,509
Restricted	\$5,851,312	\$5,457,777
<b>Ending Unrestricted Balance</b>	<b>\$16,606,067</b>	<b>\$20,518,124</b>

**WATER**

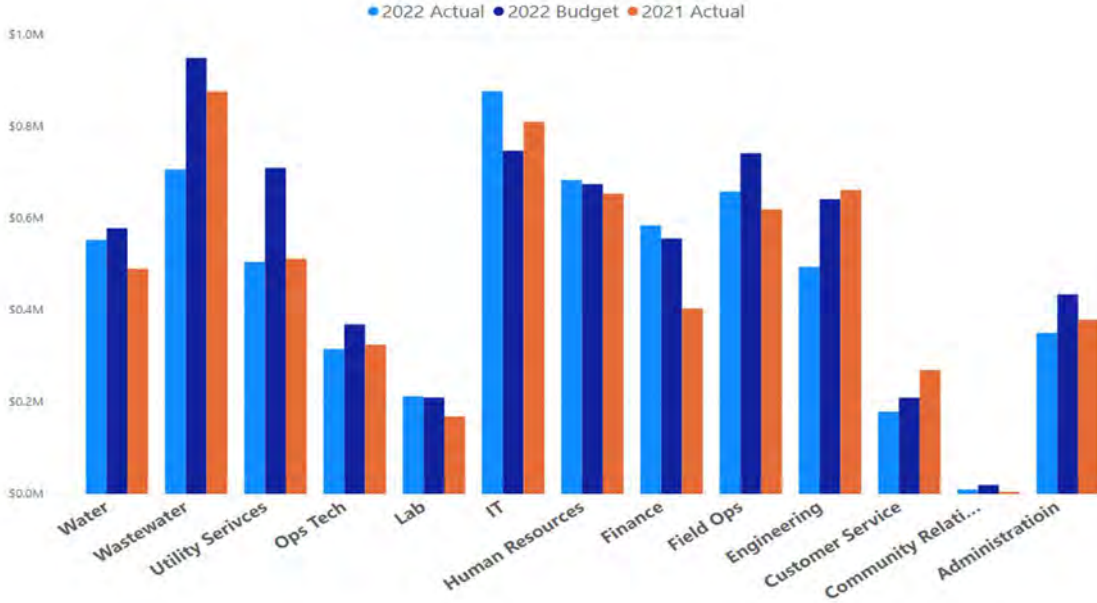
<b>Operating</b>	<b>Annual Budget</b>	<b>YTD 2022 Q2</b>	<b>YTD 2021 Q2</b>
Revenue	\$7,687,772	\$3,567,740	\$3,199,375
Expense	\$6,228,707	\$3,233,297	\$2,877,839
<b>Net Income</b>	<b>\$1,459,065</b>	<b>\$334,443</b>	<b>\$321,535</b>

<b>Non-Operating</b>	<b>Annual Budget</b>	<b>YTD 2022 Q2</b>	<b>YTD 2021 Q2</b>
Revenue	\$2,348,713	\$1,628,417	\$1,717,263
Expense	\$4,437,985	\$1,245,551	\$895,591
<b>Net Income</b>	<b>-\$2,089,272</b>	<b>\$382,865</b>	<b>\$821,673</b>

<b>Combine Net Income</b>	<b>-\$630,207</b>	<b>\$717,308</b>	<b>\$500,137</b>
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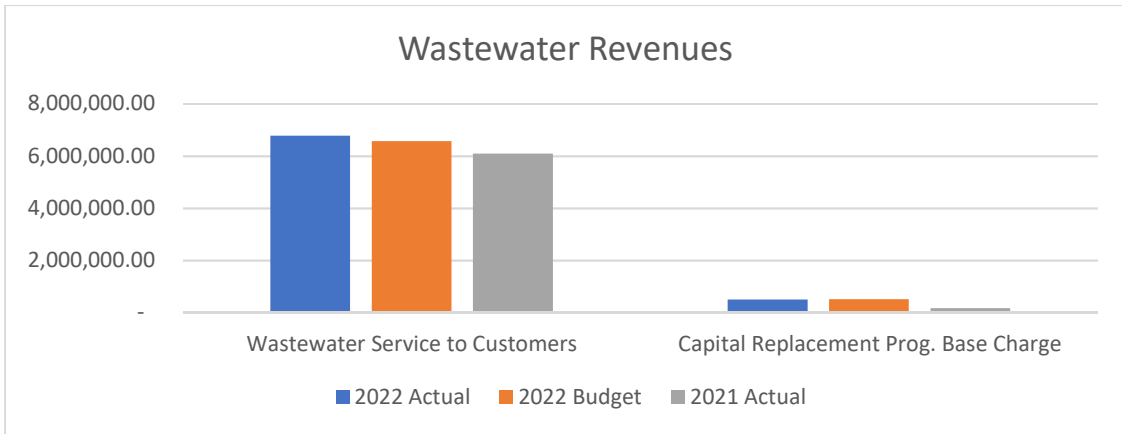
<b>Fund Balance</b>	<b>Annual Budget</b>	<b>YTD 2022 Q2</b>
Beginning Balance	\$3,141,291	\$3,141,291
Net Income	-\$630,207	\$717,308
Restricted	\$1,836,096	\$1,780,941
<b>Ending Unrestricted Balance</b>	<b>\$674,988</b>	<b>\$2,077,659</b>

### Combine Operating Expenses by Department



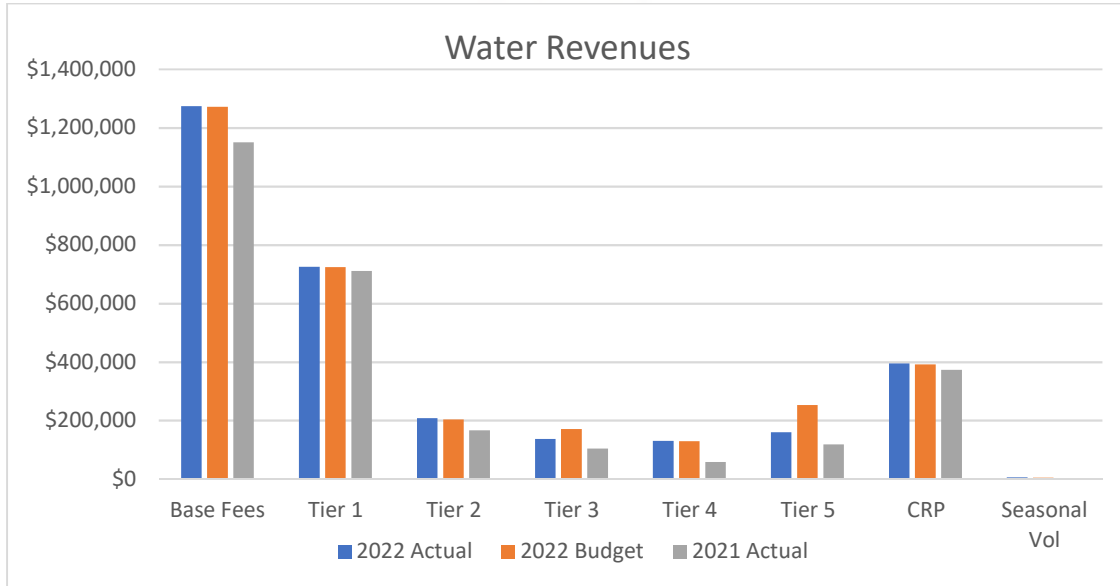
- Utility Services are under budget due to supply chain issues, meters will not be available until 2023
- Wastewater is under budget due to the timing of chemical & utility expenses

### Revenue Comparison



- Wastewater Service to Customers Revenue is 3% better than budget YTD
- Wastewater Capital Replacement Base Fees are tracking within 1% of budget
- Wastewater Impact Fees are \$330K YTD, \$228K over YTD budget and \$103K over YTD 2021





- Water Service to Customers Revenue is 4% under budget YTD due to June consumption is down 19% year-over-year.
- Water Capital Replacement Base Fees are tracking within 1% of budget
- Water Impact fees are \$33K YTD, \$86K under YTD budget, and \$107K less than YTD 2021

**Bond & Cash Balances**

**WASTEWATER**

WW Bond Funds	Annual Budget	YTD 2022 Q2	YE 2021
Beginning Balance	\$14,582,968	\$14,582,968	\$39,339,011
Expense	\$39,449,538	\$5,850,532	\$24,756,043
Bond Balance	<b>-\$24,866,570</b>	\$8,732,436	\$14,582,968

WW Bond Projects	Budget	Expense	Remaining Budget
AWWTF Nutrient Upgrades	\$25,091,818	\$4,971,133	\$20,120,685
Dowd Junction Collection System Improve.	\$7,161,208	\$635,031	\$6,526,177
VWWTF Master Plan Capital Improvements	\$6,309,025	\$224,741	\$6,084,284
AWWTF Fire Flow Improvements	\$887,488	\$19,627	\$867,861
<b>Total</b>	<b>\$39,449,539</b>	<b>\$5,850,532</b>	<b>\$33,599,007</b>

- The negative bond ending balance illustrates the need for a bond as planned. Bonded projects over 6 years require two bond issues due to the 3-year bond spend rule. If all budgeted funds are fully spent a bond will be needed in the next year.

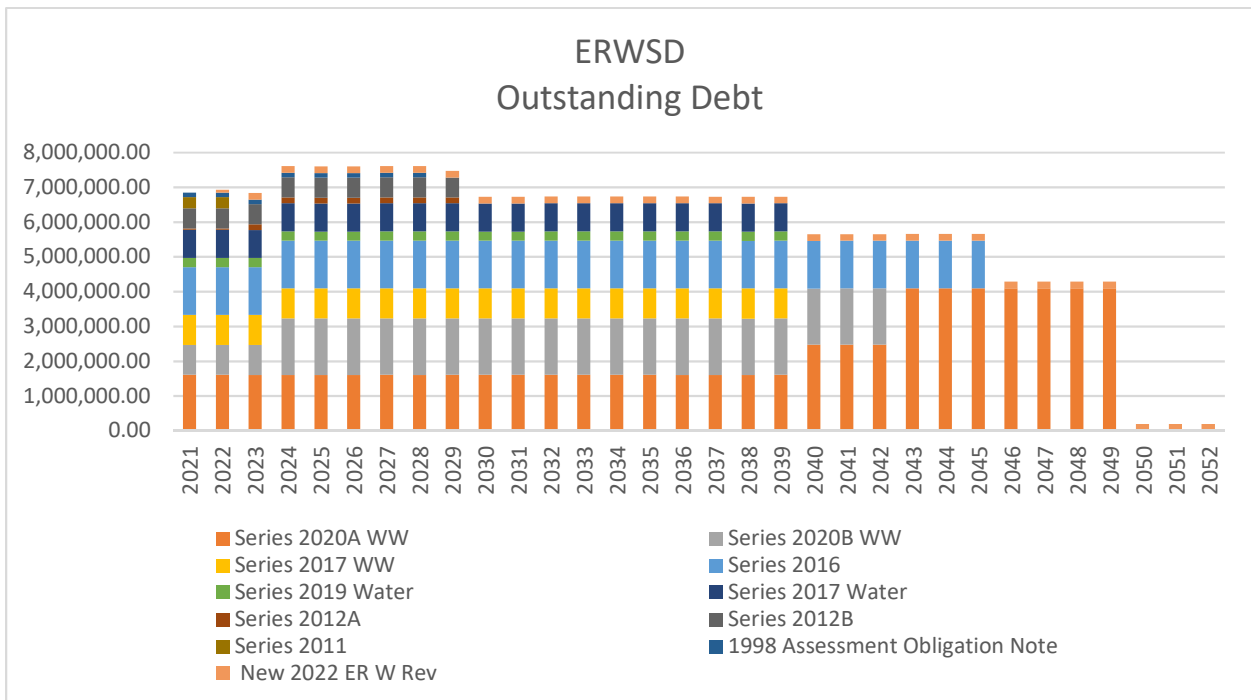


**WATER**

Bond Funds	Annual Budget	YTD 2022 Q2	YE 2021
Beginning Balance	\$2,000,741	\$2,000,741	\$2,435,918
Expense	\$2,158,851	\$1,865,164	\$435,177
Bond Balance	<b>-\$158,109</b>	\$135,578	\$2,000,741

Project	Budget	Expense	Remaining Budget
Bolts Lake Reservoir	\$1,997,892	\$1,865,164	\$132,728
RTU System Upgrade	\$160,959		\$160,959
<b>Total</b>	<b>\$2,158,851</b>	<b>\$1,865,164</b>	<b>\$293,687</b>

- If all budgeted funds are fully spent a bond will be needed in the next year. The updated water master plan and timing of Bolts Lake expenditures will determine the value and timing of the water bond issue.



- Wastewater Debt Outstanding: \$144,408,980
- Water Debt Outstanding: \$25,088,866
- Total Outstanding Debt: \$169,497,846

ERWSD WW & W	2022	2021	2020	2019
Combine Cash Balance	39,078,644	49,525,976	66,182,827	37,469,085

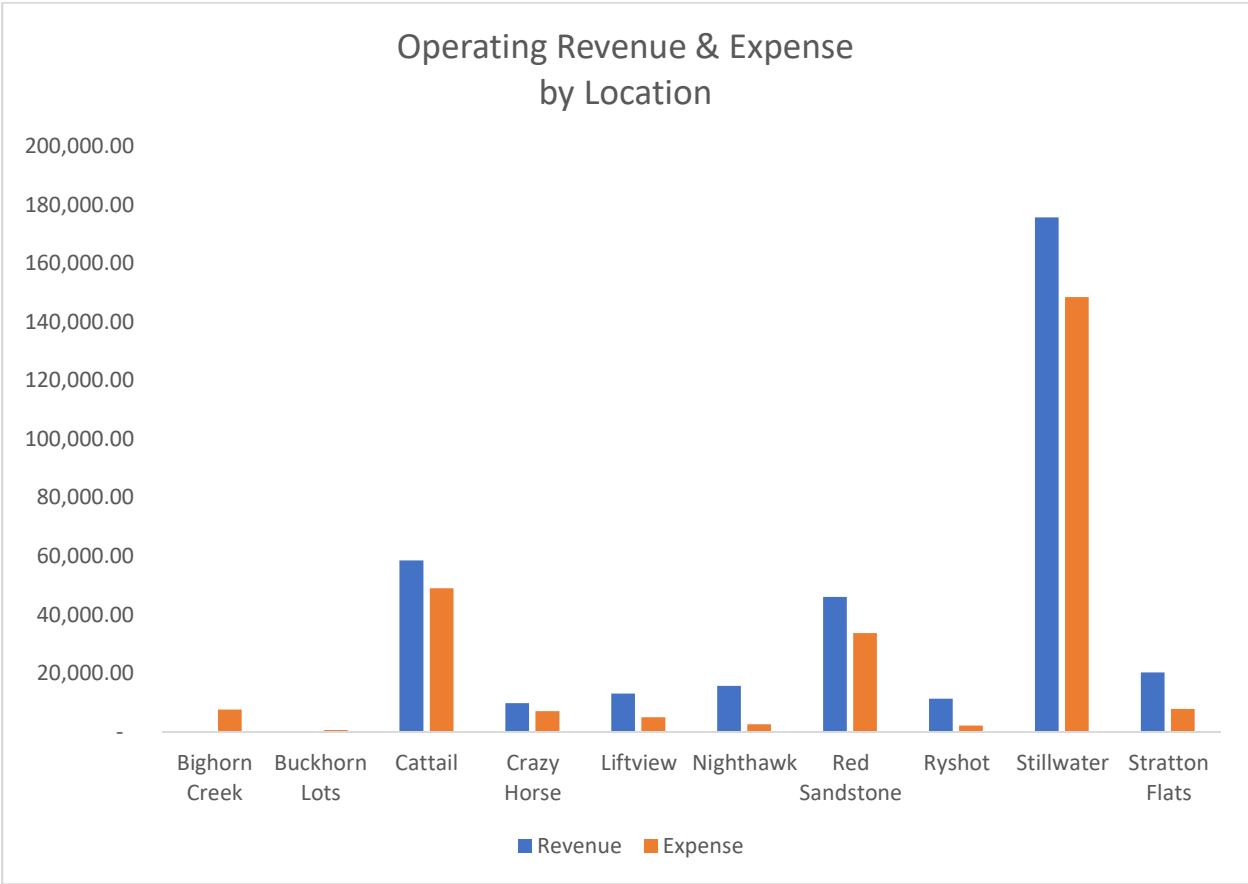
- Combine Cash balance fluctuates primarily due to bond fund changes

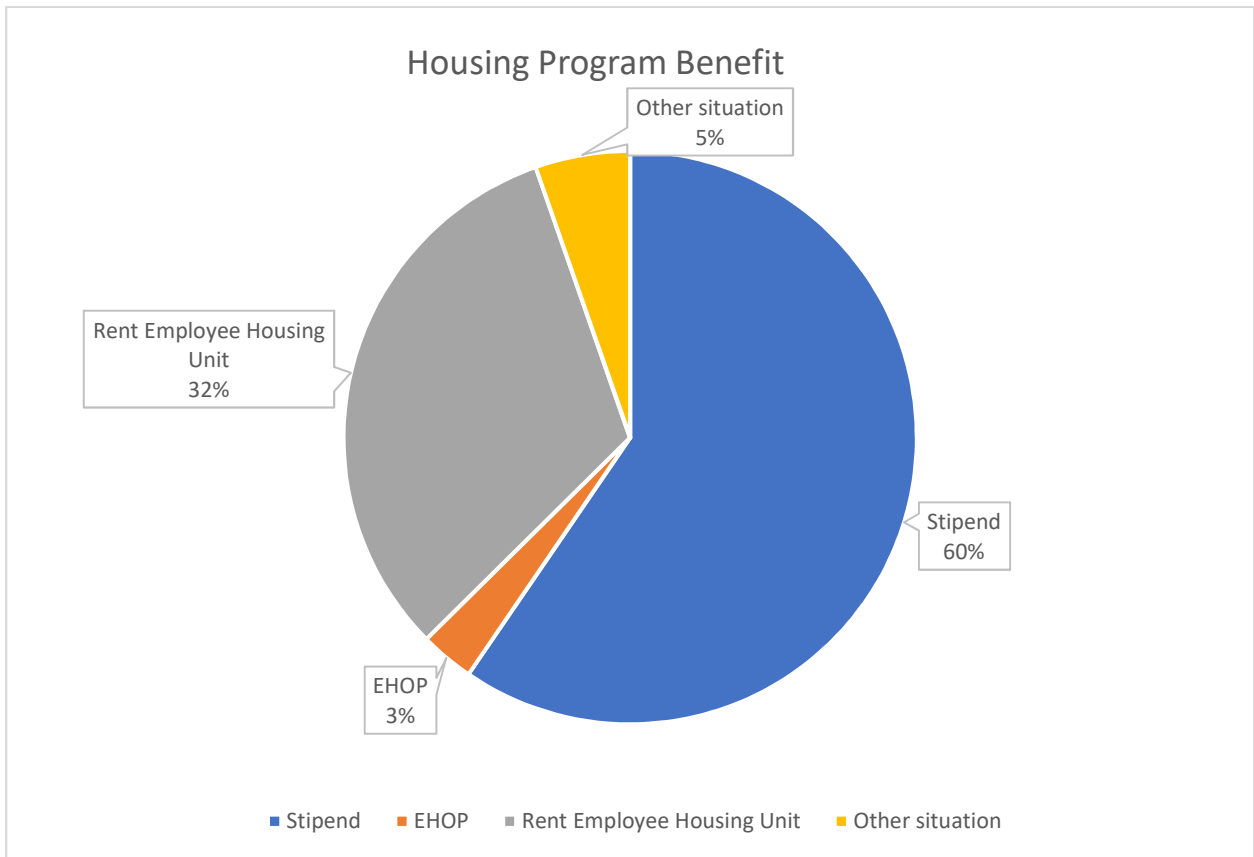
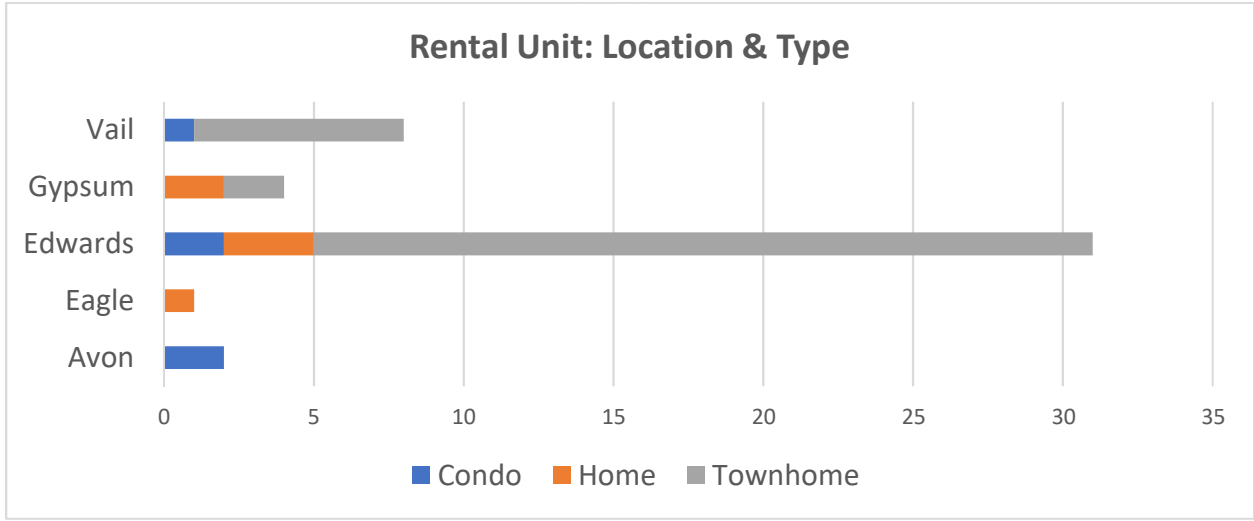


**Housing Report**

Location	Units	Revenue	Expense	Net Income
Bighorn Creek	1.00	-	7,715.82	(7,715.82)
Buckhorn Lots	3.00	-	689.04	(689.04)
Cattail	8.00	58,622.27	49,201.86	9,420.41
Crazy Horse	2.00	9,885.50	7,097.47	2,788.03
Liftview	2.00	13,152.00	5,105.56	8,046.44
Nighthawk	2.00	15,806.50	2,612.81	13,193.69
Red Sandstone	7.00	46,146.98	33,841.75	12,305.23
Ryshot	1.00	11,370.00	2,219.52	9,150.48
Stillwater	21.00	175,886.27	148,670.26	27,216.01
Stratton Flats	2.00	20,355.50	7,929.62	12,425.88
<b>Total</b>	<b>49.00</b>	<b>351,225.02</b>	<b>265,083.71</b>	<b>86,141.31</b>

- Revenues are tracking better than budget with 1 vacancy in Q1. There are currently 3 units vacant as they are prepared for a new tenant.





- Total employees: 131
- Other situations include employees sharing units and employee purchased units

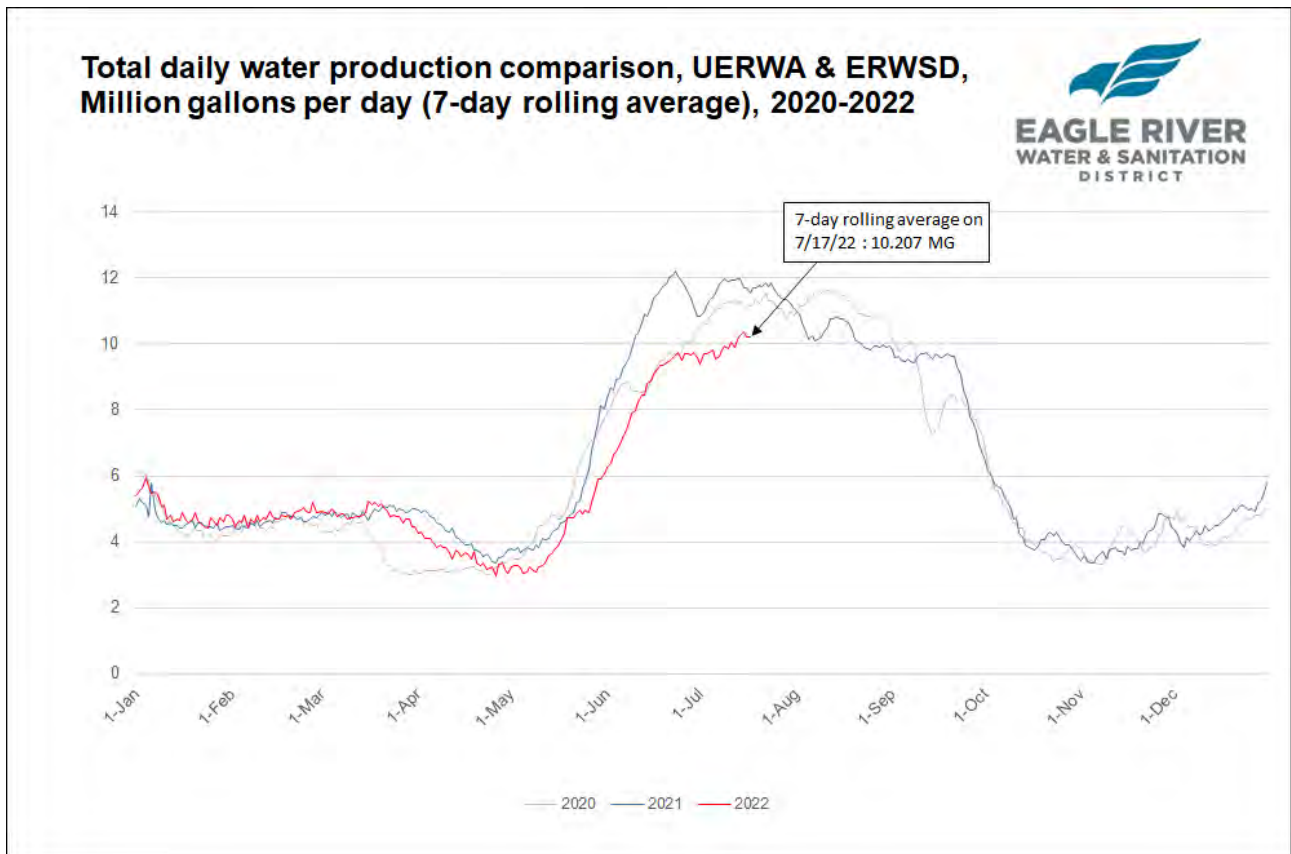


**OPERATIONS MONTHLY REPORT  
JULY 2022**

**WATER**

Brad Zachman

The system-wide water production comparison was updated through Jul. 17. System production is trending lower this year compared to the past several years. The system-wide year-to-date production (through Jun. 30) is 9% lower compared to the 2018-2021 average.



The Water Department is focused on preparing for the upcoming District Sanitary Survey. The data submittals are due at the end of July and the site inspection is scheduled for Aug. 24-26.

Water Department and CIP staff members participated in a 3-day workshop on Jun. 21-24 to kick off the Water Production and Treatment Master Plan project. District staff and the engineering consultant team toured all water production sites to perform baseline condition assessments.



*Water Production and Treatment Master Plan Condition Assessment at ADWF*

The EPA announced new lifetime drinking water health advisory levels (HALs) for four per- and poly-fluoroalkyl substances (PFAS) on Jun. 15 ([EPA press release](#), [CDPHE response](#)). The District and Authority participated in a voluntary CDPHE-sponsored PFAS sampling project in 2020. PFAS was detected at several sites at levels that are above the new HALs (see table, below). There are approximately 100+ water systems across the state in a similar situation. As a next step, the District and Authority systems have proactively registered with CDPHE to perform additional voluntary sampling later this year to further characterize PFAS levels in the source waters and at strategic locations within the distribution system.

UERWA				ERWSD			
FACILITY	ANALYTE	RESULT (ppt)	NEW EPA HEALTH ADVISORY (ppt)	FACILITY	ANALYTE	RESULT (ppt)	NEW EPA HEALTH ADVISORY (ppt)
ADWF	PFOA	0.85	0.004	Well R-1	PFOA	ND	0.004
	PFOS	0.62	0.02		PFOS	ND	0.02
	HFPO-DA (GenX)	ND	10		HFPO-DA (GenX)	ND	10
	PFBS	ND	2000		PFBS	ND	2000
EDWF	PFOA	1.4	0.004	Well R-4	PFOA	ND	0.004
	PFOS	0.81	0.02		PFOS	ND	0.02
	HFPO-DA (GenX)	ND	10		HFPO-DA (GenX)	ND	10
	PFBS	0.59	2000		PFBS	ND	2000
Edwards Well	PFOA	0.66	0.004	Well R-2/R-6	PFOA	ND	0.004
	PFOS	0.82	0.02		PFOS	ND	0.02
	HFPO-DA (GenX)	ND	10		HFPO-DA (GenX)	ND	10
	PFBS	1.6	2000		PFBS	ND	2000
Berry Creek Wells	PFOA	ND	0.004	Well R-7	PFOA	ND	0.004
	PFOS	0.66	0.02		PFOS	ND	0.02
	HFPO-DA (GenX)	ND	10		HFPO-DA (GenX)	ND	10
	PFBS	1.7	2000		PFBS	ND	2000
ND=Not Detected				West Vail Wells 7&8	PFOA	2.6	0.004
					PFOS	1.3	0.02
					HFPO-DA (GenX)	ND	10
					PFBS	1.5	2000

*District and Authority PFAS Detections Compared to New EPA Health Advisory Levels*

The 2021 ERWSD Consumer Confidence Report (CCR) issued in June had an error. The value of the detected fluoride level was incorrectly reported as 0.014 parts per million (ppm). The correct value is 0.14 ppm. A corrected report has been posted on the District’s website and a brief notice of the error will be provided on the August customer bills. No regulatory follow-up is necessary and the original CCR was accepted for compliance by CDPHE.

The annual State of Colorado Black Lakes Dam safety inspection was completed on Jun. 15. There were no violations. The inspector noted in the summary report that the reservoir is well maintained.



*Black Lakes Dam Inspection*

Vail Well R4 installation was completed on Jun. 15 and the facility was placed back into service. The pump, motor, and drop pipe were replaced.



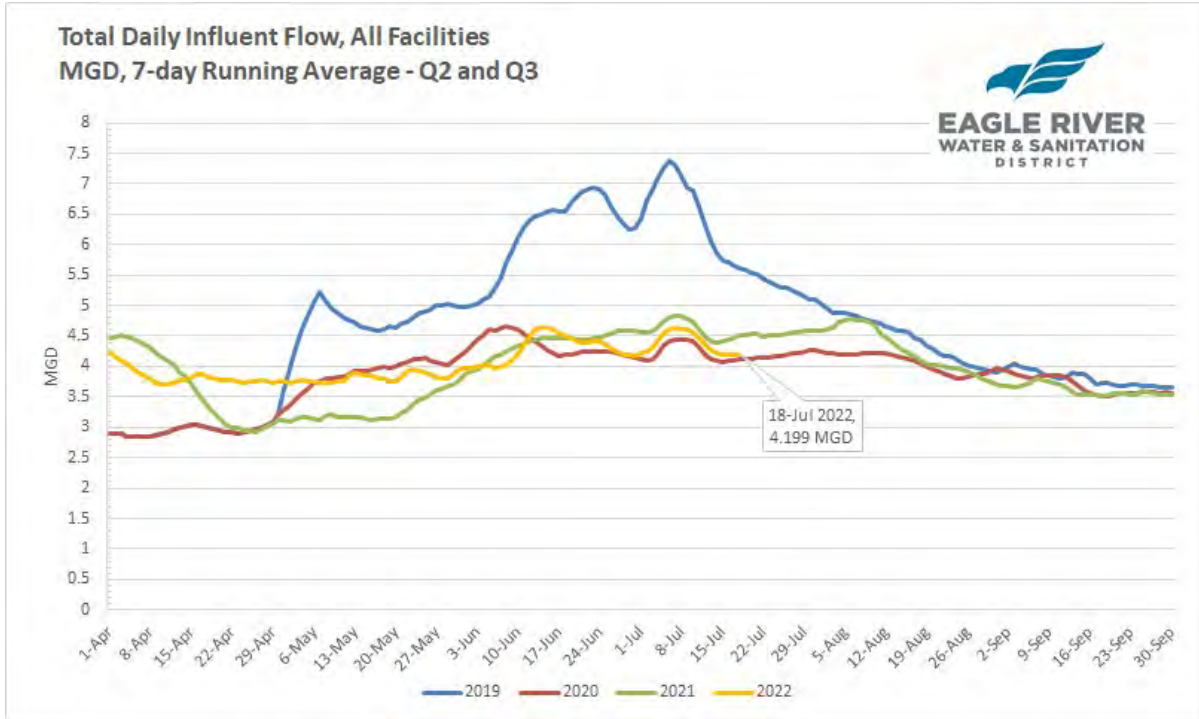
*Vail Well R4 Pump and Motor Installation*

**WASTEWATER**

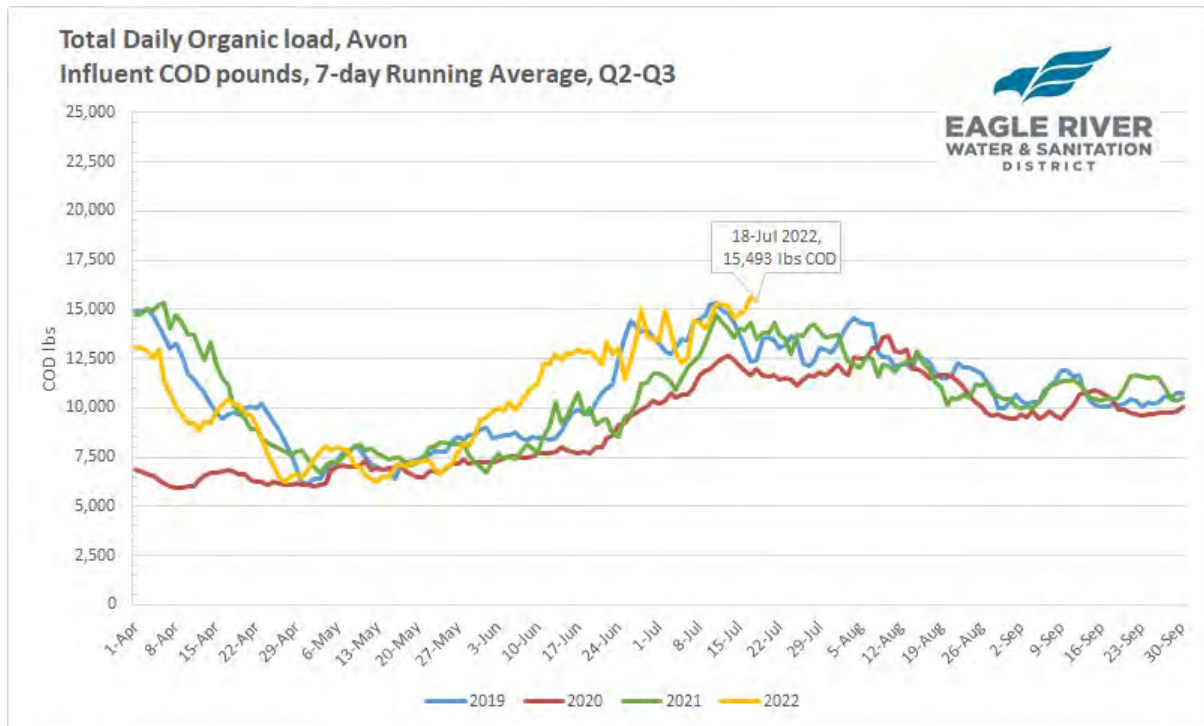
Rob Ringle

Influent flow increased slightly during the transition to the summer season, but has since remained flat. Flows are trending similar to observations from 2020 and 2021.





Influent loading has generally shown a similar story, although the climb from spring to summer loading is more pronounced due to the lack of influence from inflow and infiltration (I&I). The plot shown below represents the 7-day average influent organic loading (pounds of carbonaceous oxygen demand) for the Avon facility.



Organic loading for Avon and Edwards has trended slightly above 2021 for the early summer, while loading to the Vail facility has trended slightly below last year.

Work related to the 2023 WW Master Plan Update is underway. Edwards WW staff converted the secondary treatment system to operation with the treatment process commonly known as A2O (Anaerobic-Anoxic-Aerobic), which facilitates enhanced biological phosphorous removal and denitrification. Staff recently completed improvements to mixer controls and wiring to further improve treatment performance in this configuration. Despite increases in organic loading into early summer, staff have generally been successful in maintaining compliance with the future Regulation 85 effluent limits for nitrogen and phosphorus. Complying with the future limits ahead of the effective date (2029) earns credits that may be used to extend a future compliance schedule related to these nutrient limits. Future capital improvements to add process volume will be needed to maintain performance through the heavier loading during the winter season.

Edwards WW staff played a significant role in recent condition assessment work related to the master plan effort. Carollo led this effort to evaluate the condition and capacity of major plant systems, with the intent of developing recommendations for needed repairs or replacement. This involved adjustments to operations and draining of process systems to facilitate inspection. Recommendation from this master plan effort will inform the upcoming design effort for nutrient improvements at Edwards WW, as scheduled to start in 2024.

The Edwards WW facility experienced a failure of a non-potable water pipeline in the ATAD process area. Non-potable water is heavily relied on throughout the facility for lubrication of pump seals and to supply heat exchangers that govern the heat-producing ATAD process. Water quickly began to fill the pump gallery area.



*(left) Staff promptly cleaned up standing water in the pump gallery.*

*(right) Staff began repairing the pipe after the system was isolated.*

Facility staff responded quickly and isolated the failed non-pot system prior to initiating cleanup. No equipment was damaged, thanks to the quick staff response. District OTS and safety teams also responded rapidly.

All three facilities continue to participate in the CDPHE WW Covid Surveillance Program. This program, and similar programs across the country, have received press coverage recently due to their role in helping public health professionals understand and gauge the rise in community infection rates. The Vail Daily published a [story](#) on Jul. 16 that referenced data from the Vail WW facility.

**FIELD OPERATIONS**

Niko Nemcanin

On Jul. 12, 2022. The FO team replaced a cone at the sewer manhole at Bighorn Rd. in East Vail. Deteriorating manhole condition was noticed during inspection, and due to the stage of deterioration complete cone replacement was needed.





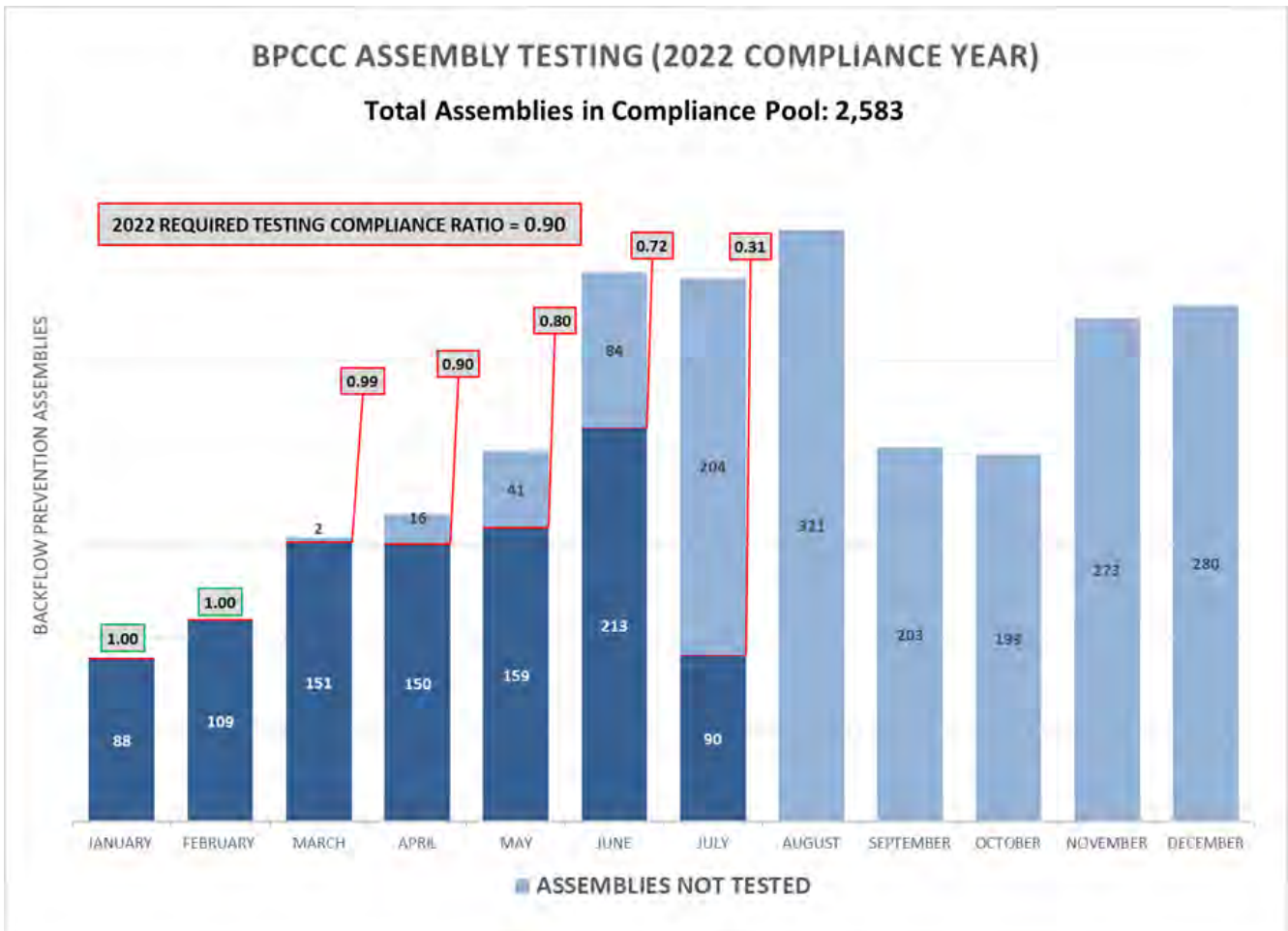
Annual summer field system maintenance is underway. Field Operators have started fire hydrant flushing, system valve maintenance, and booster pump station maintenance. Collection system jetting (five-year rotation) is underway in East Vail and will be followed by closed circuit television (CCTV) of the system.

**UTILITY SERVICES**

Shane Swartwout

**BPCCC Program Compliance Status**

The BPCCC team has successfully completed in-house testing on all irrigation system assemblies within the compliance pool that were not tested in 2021. These assemblies are considered “seasonal assemblies” and are required to be tested within 90 days of activation. Staff has imposed fines on these accounts since these assemblies were past due for testing for several months.



## Meter Services – Advanced Metering Infrastructure Status

Report Date:	7/20/2022
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AMI SYSTEM STATUS	ERWSD	UERWA	TOTAL
(1) Total No. of Meters	3187	6810	9997
(2) No. of AMI Meters	2976	5566	8542
(3) System Percentage of AMI Meters	93%	82%	86%
Meters Remaining to Reach 100% AMI	211	1244	1455

### ENGINEERING

Jeff Schneider

#### WATER PROJECTS

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#### Radio Telemetry Unit (RTU) System Upgrades

Carter Keller

General Project Scope: This project is a systematic approach to install standardized communication equipment to increase the reliability of the telemetry system throughout the distribution system (82 sites) and develop a standard (i.e., non-proprietary) telemetry platform to allow competitive pricing for upgrades, replacement, and system maintenance. Implementation is anticipated over a three-year period with a highly detailed sequence and schedule to limit distribution system disruptions.

Project Update: All spring sites have been commissioned and upgraded to our new radio system. Construction continues during the summer months to erect towers and install conduit on the remaining sites in preparation for fall commissioning.

#### Traer Creek Water Storage Tank

Mark Mantua

General Project Scope: This project consists of the replacement of the Traer Creek Water Storage Tank. In addition to the tank replacement, the scope includes piping, appurtenances, and selective replacement of identified equipment including the RTUs and control cabinets.

Project Update: Electrical improvements and telemetry installation is complete. Commissioning is planned for August. DN Tanks staff re-mobilized to perform crack repair on the poorly consolidated concrete present in the dome roof. The repair methods being employed are crack injection, grinding, patching, and a mortar skim coat. DN will sound portions of the dome for leaks and consolidation issues. Afterwards, the contractor will do a watertightness test to identify additional

leaks. Before demobilizing DN will complete another watertightness test to confirm adequate repairs. We anticipate the tank being ready for service in August.

### **Avon Drinking Water Facility (ADWF) PLC Upgrades**

Jenna Beirsto

General Project Scope: This project includes replacement of two of the programmable logic controllers (PLCs) at ADWF. Additionally, a new server room will be constructed within the facility. All programming and PLC logic will be reverse engineered to determine required updates and improvements associated with the modification and replacement of the existing PLCs.

Project Update: Hensel Phelps has been contracted to complete this work. A preconstruction meeting was held on Jun. 30. Construction of the server room is expected to start later this year. Procurement and submittal generation is underway.

### **Edwards Spur Road Phase 2 Water Main**

Mark Mantua

General Project Scope: The Edwards Spur Road Phase 2 consists of two projects. The first is installation of 1,700 linear feet of water main that was installed in conjunction with the CDOT Edwards Spur Road project. The second is installation of a water main that will run parallel and under the railroad tracks to connect the Edwards Drinking Water Facility to the water main that was previously installed during the 2019 Spur Road project and to a main near Miller Ranch Road. The project will alleviate hydraulic issues in the Edwards low pressure zone.

Project Update: The contractor has installed approximately 1,400 linear feet of 24" pipe which connects a 16" distribution main to the Edwards Drinking Water Facility, leaving approximately 100 linear feet to be installed. Three tie-ins were successfully completed. Each tie-in procedure contained unique operational changes that were closely coordinated with the Water and the Field Operations Department. The new waterline is expected to be online in early August 2022. Remaining work includes testing and commissioning 600 linear feet of water main, asphalt paving, concrete paving, and site restoration.



*New tee and valve assembly near Edwards DWF*

## **Fenno Wellhouse and Raw Water Conveyance**

Jeffrey Schneider

General Project Scope: The project consists of complete replacement of a small treatment facility in Cordillera that treats water from seven groundwater wells and pumps into the distribution system. The previous facility did not meet electrical code, had some safety concerns, and was generally at the end of its useful life. Improvements to the wells and raw water piping are also included in this project.

Project Update: The wellhouse project is in final contract closeout.

Following successful coordination with Cordillera stakeholders, we began the well assessment plan, involving systematically accessing, pulling, inspecting, and repairing (if necessary) each of the seven supply wells. Well F3 was pulled the week of Jul. 5 and some irregularities were discovered in the pump and motor, and the video inspection of the well screen and casing is being evaluated. Next up is a similar scope to access wells F5 and F6. Following the well assessment and repair work, permanent improvements to the raw water conveyance consisting of piping, controls, and electrical will be designed based on the findings of the current effort.

## **Water Production and Treatment Masterplan**

Jenna Beairsto

General Project Scope: The masterplan will be a wholistic look at all production and treatment facilities system-wide including treatment plants and wells. The goal is to do a thorough risk-based analysis and provide a roadmap for future capital project implementation in light of threats from climate change, low stream flows, wildfires, etc. along with a detailed condition assessment of existing assets.

Project Update: Carollo was onsite the week on Jun. 20. The District hosted a visioning workshop with the water department and Carollo's engineering team. The consulting team toured all the surface and ground water production facilities for the condition assessment. The master planning team is drafting the first few sections of the masterplan report and has begun building a specialty model (Blue Plan It) to better analyze the entire water system between ERWSD and UERWA.

## **Avon Wastewater Treatment Facility (WWTF) Fire Flow Improvements** Woodson Spring

General Project Scope: The Avon WWTF Fire Flow Improvements consist of two major components. The first is installation of 1,100 linear feet of 12" water main down Millie's Lane and into the Avon WWTF site. The second is modifications within the Avon Drinking Water Facility (DWF) to transfer water from the high zone to the low zone. The project will bring the Avon WWTF into compliance with fire flow requirements and address a long-standing deficiency.

Project Update: The pipeline subcontractor continued installing 12-inch water main into the Avon WWTP property, stopping at a tee and valve assembly approximately 30 feet inside the gate. To date approximately 865 feet of the total 1136 feet of 12-inch main has been installed. Water main testing was underway the week of July 18. Other portions of work are scheduled for later in the



summer and are tightly coordinated with AWWTF Nutrient Upgrades Project critical precast concrete deliveries and crane demobilization.



*Running pipe through the gate area*

*Setting tee and valve assembly*

## WASTEWATER PROJECTS

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### Avon Wastewater Treatment Facility (AWWTF) Nutrient Upgrades

Melissa Marts

**General Project Scope:** The Avon WWTF requires upgrades to meet Regulation 85, which requires a reduction of the concentrations of nitrogen and phosphorus in the effluent. The scope of this project includes the following: addition of 0.6 million gallons of aeration basin capacity, a new secondary clarifier, structural modifications to the existing aeration basins to remove the existing double-tees and replace with a building structure, a new odor control study and system, and other improvements throughout the facility. This project also includes improvements identified in a 2017 condition assessment in other process areas throughout the facility.

**Project Update:** Moltz continues to make progress on the aeration basin modifications which drive the critical path schedule. They are completing walkways in aeration basin 1 and will start installation of pipe. Painters are working on the exterior of the building and the results can be seen from Nottingham Park. Significant progress has been made on installation of the internal mixed liquor return (IMLR) and return activated sludge (RAS) piping and pump modifications. The project team is working through startup of the odor control system. The project is on schedule and within budget.

## Dowd Junction Collection System Improvements

Jenna Beirsto

General Project Scope: The project consists of four major components, all of which are at the end of their useful lives: the aerial interceptor crossing at Dowd Junction; Lift Station 4, which conveys all of Minturn's wastewater; the aerial interceptor crossing at the Minturn Road bridge; and the force main downstream of Lift Station 4. The project will also include capacity for growth in its respective service areas, most notably the Minturn area improvements.

Project Update: *West Vail Interceptor Aerial Crossing:* The Contractor set the bridge segments and pipe on Jul. 12. Crews are now working on finalizing the sewer and manhole installation on the northeast side of the crossing. A pressure test is anticipated in the following weeks. After utility construction is complete Mueller will be demolishing the old sewer crossing and piers.

*Lift Station 4 and Force Main Replacement:* This project combines three packages of work into one large project. Package A includes the lift station 4 replacement, package B is replacement of the exiting force main with two 8" HDPE force mains, and package C in partnership with Eco Trails (Eagle County) to connect the bike trails from the lift station to the West Vail Interceptor crossing. Gould Construction is under contract for the full scope of work associated with the three work packages and is expected to mobilize the week of Jul. 25. A surveyor and traffic control will be mobilized to the site the same week. Gould had the pipe for the gravity sewer delivered to their storage yard near the site.



*Setting the first bridge segment*



*Setting the second bridge segment in place*

## Avon Lab Improvements

Melissa Marts

General Project Scope: A new inductively coupled plasma mass spectrometer (ICP-MS) purchased by the District will be installed in the lab. This will provide improved analytical capability to our internal and external customers. This device enables District staff to perform in-house metals analyses that are normally outsourced. Lab and architectural modifications will be constructed, including a new gas cabinet, duct chase, and fume hood. During design, the makeup air unit (MAU) serving the lab was identified to be at the end of its useful life; the HVAC system for the lab and lab offices will also be replaced.

Project Update: After receiving no bids for this project after competitive solicitation, Moltz submitted a proposal for the work. The District has awarded the contract to Moltz.

**Vail Wastewater Treatment Facility (VWWTF) Master Plan Improvements**

Melissa Marts

General Project Scope: A condition assessment of the Vail WWTF conducted as part of the 2017 Master Plan identified various upgrades required to keep the facility in reliable and operable condition. The scope includes a new, larger diesel generator and associated electrical, structural repairs in the aeration basin, equalization, and clarifier rooms, replacement of the aging ultraviolet (UV) system, and construction and installation of an external facility bypass.

Project Update: PCL Construction has submitted Guaranteed Maximum Price (GMP) proposal #1 for the early-out generator/ automated transfer switch (ATS). The District and Engineer are in the process of final price and scope negotiation. The District submitted a letter of intent which enabled the electrical submittal process to begin in order to help lock-in pricing without further escalation and compress schedule. Black and Veatch submitted the 60% main package design submittal and PCL Construction submitted the associated pricing model on Jul. 18. The District is currently reviewing the pricing model. Design continues to progress from 60%. Long equipment lead times also necessitate early procurement of membrane diffusers and ultraviolet (UV) disinfection equipment.

**GENERAL CAPITAL**

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**Vail Office Remodel**

Jenna Beairsto

General Project Scope: The project will provide a safe and secure singular entry point for facility visitors by reconfiguring the vestibule entrance. The scope also includes reconfiguring and reorganizing of the Vail Administration Office. Most of the construction will be concentrated on the south half of the first floor; however, reorganization will occur building wide. In addition to the front entrance, the project will provide improved ADA access to the building. Several departments will shift within the lower level to allow for additional office and meeting space. The project includes cubicle and office furniture purchase and replacement for some of the improved areas.

Project Update: C&C Painting finished painting the exterior of the Vail Administration Building. Fine Signs installed a new logo and signs at the front entry.



*Paint on the back of the building*



*New logo and sign at the front entrance*

### **Fleet Maintenance Facility**


Mark Mantua

General Project Scope: The 2020 Overall Facilities Master Plan indicated an opportunity to relocate the fleet maintenance facility, along with large vehicle and equipment storage and water meter testing and storage, to the property known as “Hillcrest” at the corner of Hillcrest Drive and U.S. Highway 6. We are moving forward with that concept but located on a parcel of land immediately east of the Edwards Wastewater Treatment Facility on Lake Creek Village Drive.

Project Update: A request for proposals (RFP) was issued to architecture and engineering firms on Jun. 27. A pre-proposal meeting was held on Jul. 11 and was well attended by representatives from numerous firms. Proposals are due Jul. 22, at which time the internal selection committee will evaluate and move forward with contracting. The scope of work is divided into two phases, with the first phase a study, workshops, and permitting evaluation informing us of the general scope of work and some conceptual designs. The second phase will be preparation of construction drawings for the project.



**MEMORANDUM**

**TO:** District and Authority Boards of Directors  
**FROM:** Jason Cowles, P.E.   
**DATE:** July 20, 2022  
**RE:** Engineering & Water Resources Report

**Authority Unallocated Water Update**

The Authority’s unallocated water projection remains at 227.31 acre feet. This includes 51.19 acre feet of unrestricted Eagle Park Reservoir water, which includes the 25 acre feet pledged to the Authority by the District. It also includes 78.13 acre feet of Eagle Park Reservoir water committed to workforce housing, and 97.98 historic irrigation season consumptive use credits. The current projection is attached.

**Edwards River Park Planned Unit Development (PUD)**

At last month’s Authority meeting there was a question regarding the expiration of the Authority’s conditional capacity to serve letter for the Edwards River Park PUD. The Authority’s conditional capacity to serve letter was updated and reissued on August 18, 2021 and is valid for one year from the date of the letter. Eagle County’s resolution approving the preliminary plan for PUD was effective October 26, 2021. The County’s approval included a condition requiring that the development obtain an ability to serve letter from the Authority within two years of the County’s approval. To date, we have not received a request to extend the term of the conditional capacity to serve letter.

**Bolts Lake Update**

Contracts have been executed with Shannon & Wilson and LRE Water to advance the conceptual design of Bolts Lake reservoir for permitting. Additional field investigations are planned this year that will involve drilling bedrock cores for the design of dam abutments, an evaluation of the District’s 25 acre biosolids containment facility site for clay borrow suitability, and an evaluation of groundwater recharge at the Old Tailings Pile (OTP) site. Field investigations will inform the conceptual design of the reservoir, which should be completed in the summer of 2022. Our goal is to have a conceptual design ready for a permitting consultation with Federal agencies in 2023.

**Homestake Exchange**

Typically, the Shoshone call on the Colorado River goes into effect by mid-July. Unfortunately, the Shoshone Power Plant continues to remain offline this year due to issues with one of the turbines. This has resulted in lower flows on the Upper Colorado River as junior upstream water rights continue to divert in priority. There was some relief when flows on the Colorado River at

Dotsero dropped below 1250 cfs on July 10 causing the Shoshone Outage Protocol (SHOP) to go into effect.

Aurora is a participant in SHOP, and thus forgoes storage in Homestake Reservoir when the Shoshone Power Plant is offline, and the Shoshone call would otherwise be in effect. The Eagle Park Reservoir Company was able to take advantage of SHOP by exchanging water released from Green Mountain and Wolford Mountain Reservoirs into Homestake Reservoir to account for Aurora's forgone storage. The exchange resulted in approximately 137 acre-feet of water stored in Homestake Reservoir for the Reservoir Company between July 10 and July 18. Unofficially, and subject to confirmation from the Homestake Partners, this puts the Reservoir Company's exchange account at approximately 3,088 acre-feet of a possible 4,000 acre-feet. As you will recall from last year, water stored in Homestake above 3,000 acre-feet is subject to reduction proportionate to any spill of Homestake Reservoir in the following year. This is viewed as a very remote risk to the Reservoir Company this year given that Homestake Reservoir is at approximately 73% of capacity and would likely be inconsequential for the Reservoir Company in the unlikely event that a spill does occur.

The latest news from Division 5 is that the Shoshone Power Plant is anticipated to be fully online in the next week.

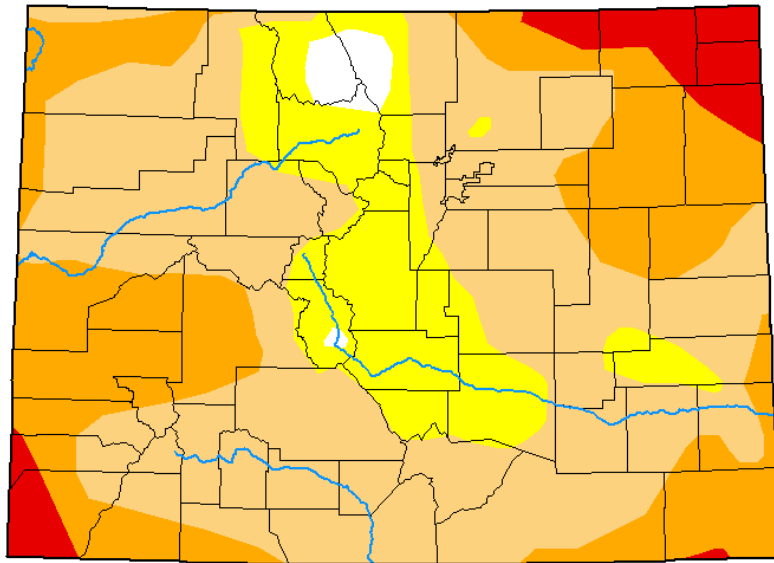
### **Water Resources Update**

Monsoonal precipitation in June and July lead to reductions in drought intensity for the southern portions of the state. The latest U.S. Drought Monitor shows that a nearly all of the state is experiencing drought, as shown below in Figure 1. There has been no change to Eagle County since last month. The County remains nearly completely in "D1" including the entire Eagle River Watershed.







Figure 1: US Drought Monitor, Colorado July 12, 2022 (NDMC)

## U.S. Drought Monitor Colorado

**July 12, 2022**  
(Released Thursday, Jul. 14, 2022)  
Valid 8 a.m. EDT



**Intensity:**

-  None
-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <http://droughtmonitor.unl.edu/About.aspx>*

**Author:**

Brian Fuchs  
National Drought Mitigation Center



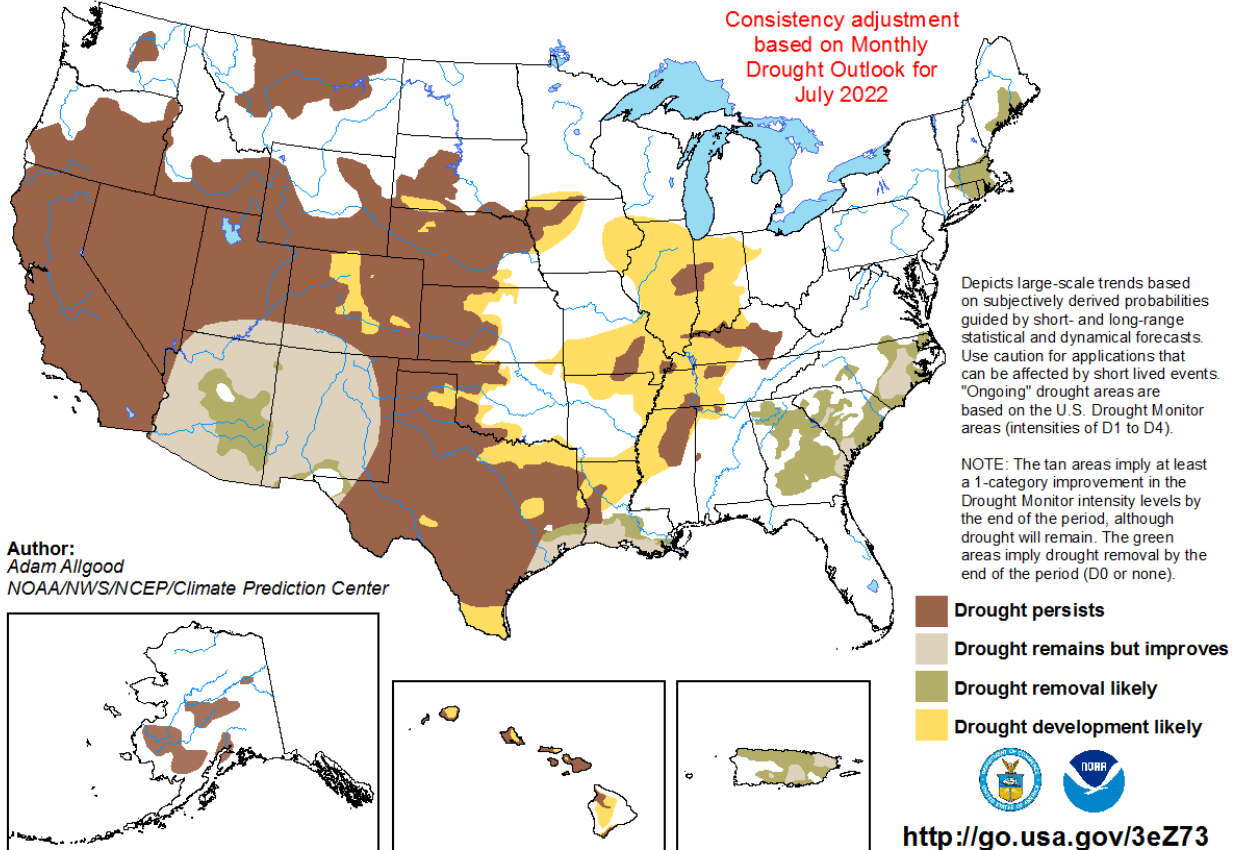
**droughtmonitor.unl.edu**

Little has changed regarding NOAA's seasonal drought outlook. Drought is expected to persist in Colorado through September based on current NOAA climate simulations for temperature and precipitation.

Figure 2: US Seasonal Drought Outlook through September 30, 2022 (NOAA).

### U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for July 1 - September 30, 2022  
Released June 30, 2022





Cumulative water year-to-date precipitation at Vail Mountain and Fremont Pass are shown in Figures 3 and 4. Monsoonal precipitation in the past month had less of an impact on Vail Mountain which is tracking at 7.3 inches below the median value on this date or at 76% of the median. Fremont Pass has fared better over the past month from the monsoonal rains and is now tracking 1.3 inches above the median value on this date or at 106% of the median.

Figure 3: Cumulative Precipitation, Vail Mountain SNOTEL, July 18, 2022 (USDA).

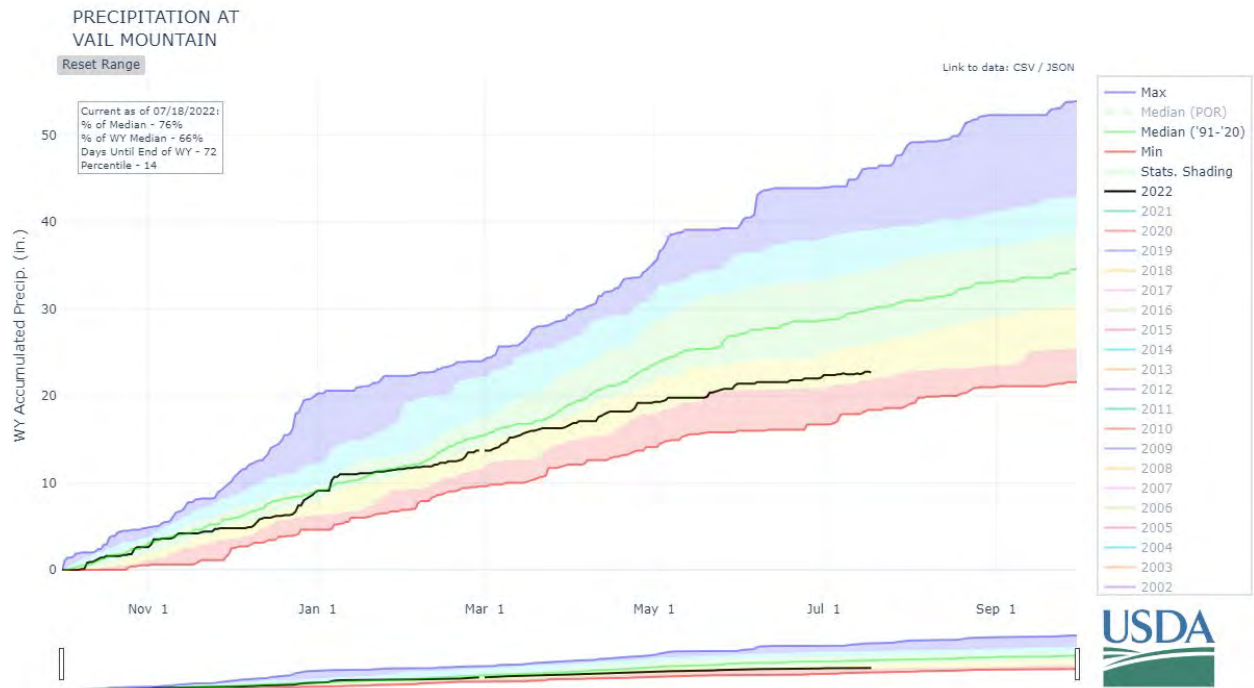
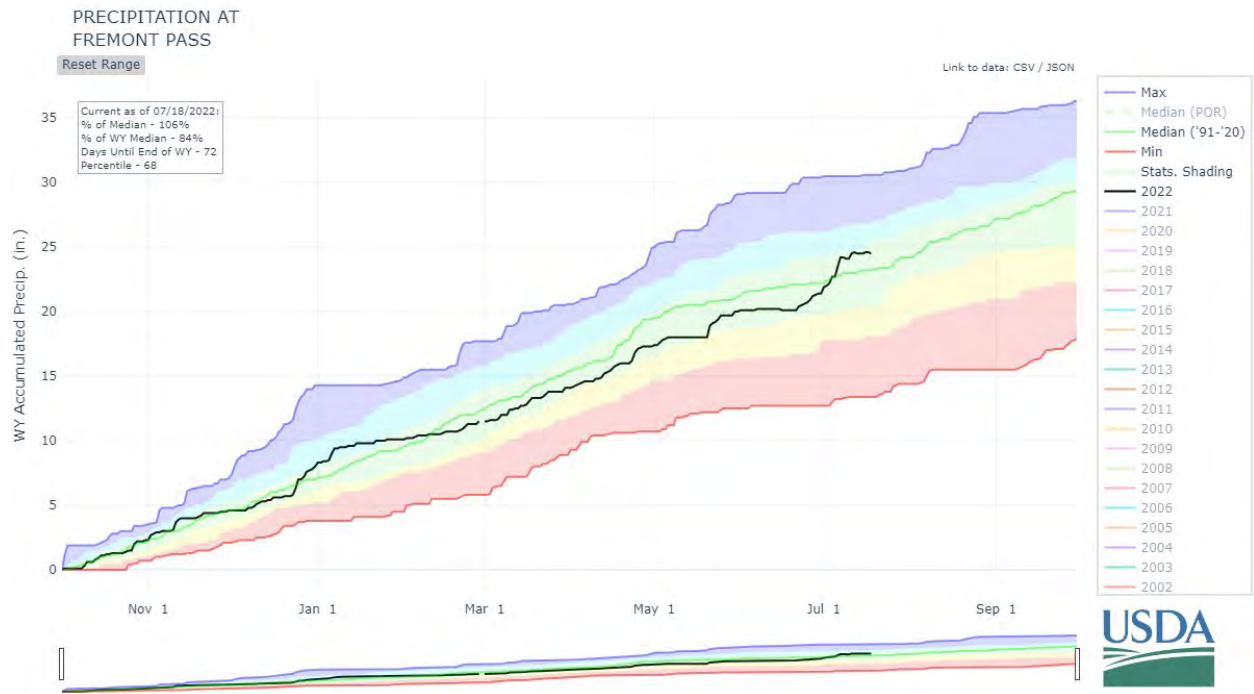


Figure 4: Cumulative Precipitation, Fremont Pass SNOTEL, July 18, 2022 (USDA).



Stream hydrographs plotted from the USGS gages on Gore Creek above Red Sandstone Creek and the Eagle River at Avon are shown in Figures 5 and 6. As expected, streamflow is trending in the lower percentile ranges for these locations. A bump in flows is forecast next week with the anticipated return of more substantial monsoonal moisture.

Figure 5: Streamflow for the USGS station on Gore Creek above Red Sandstone Creek (CBRFC).

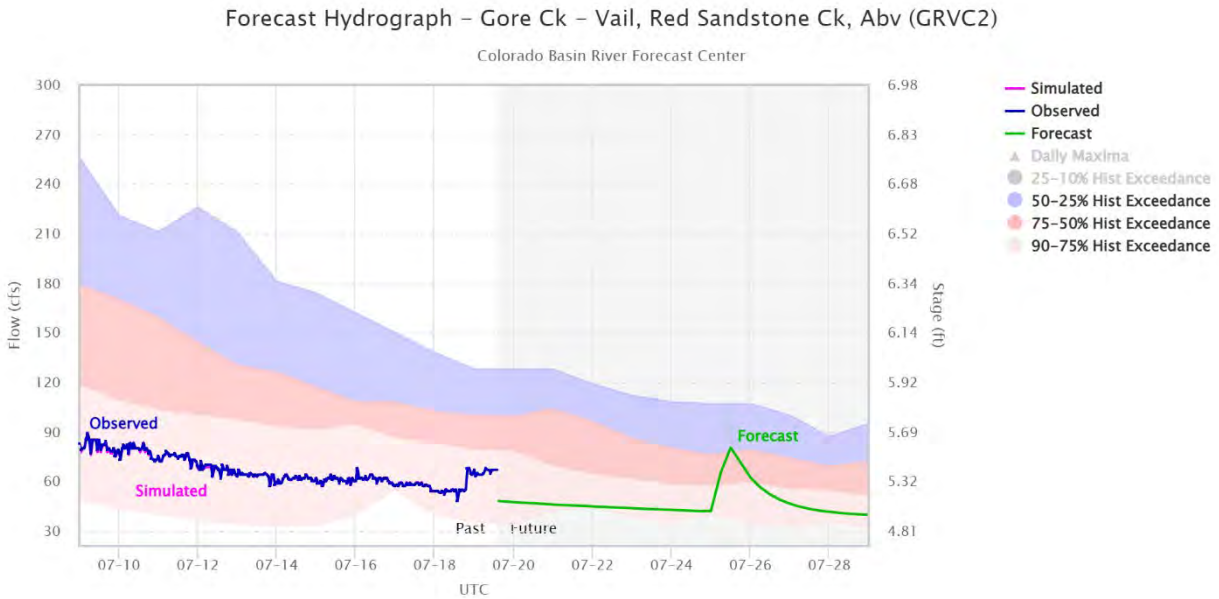
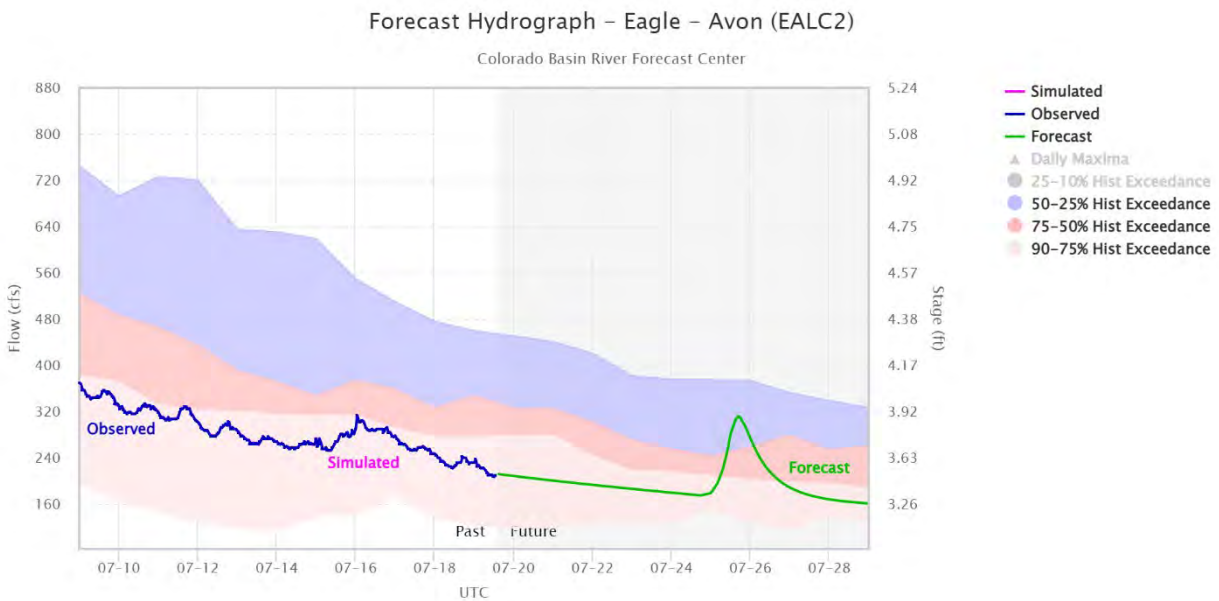


Figure 6: Streamflow for the USGS station on the Eagle River at Avon (CBRFC).



Daytime water temperatures on the lower Eagle River and the Upper Colorado River are peaking above 71° Fahrenheit which is one of Colorado Parks and Wildlife’s (CPW) triggers for voluntary fishing closures. A voluntary all day fishing closure will go into effect on July 20 that includes the Colorado River from State Bridge downstream to Rifle and the Eagle River from Wolcott downstream to the confluence. Temperature plots for the Colorado River at Catamount and the Eagle River below Milk Creek are shown in Figures 7 and 8.

Figure 7: Temperature for the USGS station on the Eagle River below Milk Creek (USGS).

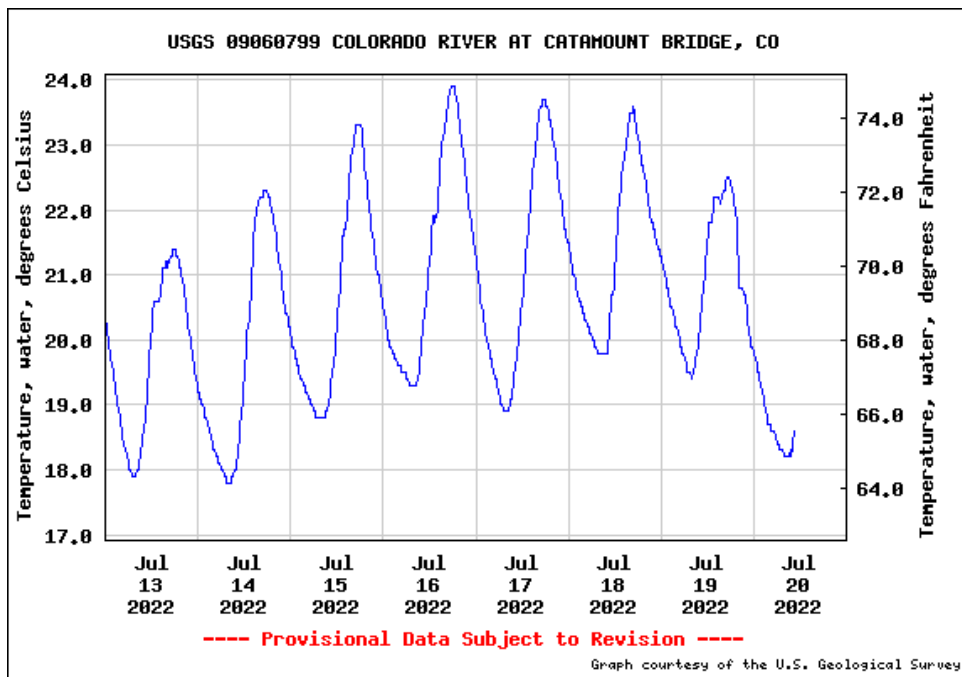
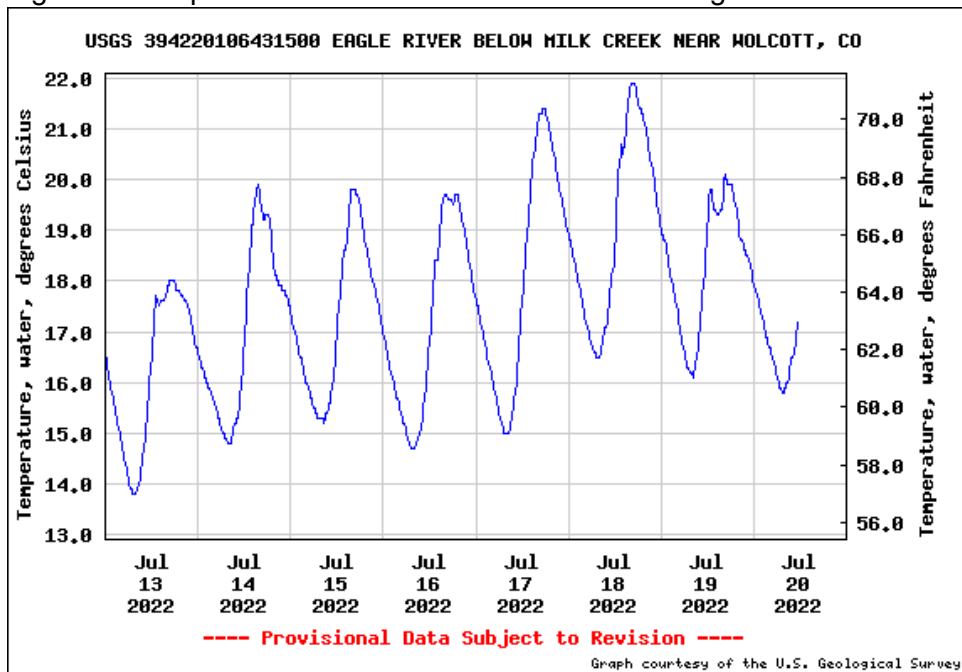


Figure 8: Temperature for the USGS station on the Eagle River below Milk Creek (USGS).



ERWSD and UERWA storage accounts are shown in Table 1 as of July 1, 2022. The storage accounts in Green Mountain, Black Lakes, Homestake Reservoir, and Wolford Mountain Reservoir are full. Eagle Park Reservoir accounts are near full and are anticipated to be filled on September 1 when the conservation storage pool is dispersed to shareholders despite anticipated releases in August to mitigate low streamflows.

Table 1: ERWSD and UERWA Storage accounts as of July 1, 2022 (Helton and Williamsen).

<b>July 1 2022 Volumes in Storage and Percentages of Full:</b>						
<b><u>Reservoir</u></b>	<b><u>ERWSD</u></b>		<b><u>UERWA</u></b>		<b><u>Total</u></b>	
Green Mountain	934.00	100%	548.00	100%	1482.00	100%
Black Lakes	425.00	100%	300.00	100%	425	100%
Eagle Park	426.34	99%	670.58	99%	1096.92	99%
Homestake Res	250.00	100%	256.50	100%	506.50	100%
Wolford Mtn	500.00	100%	710.80	100%	1210.80	100%

Inflow into Lake Powell in water year (WY) 2021 was the second lowest on record, and inflow for WY 2022 continues to trend well below average. Figure 9 shows the most likely unregulated inflow projection for WY 2022 at 5.74 maf, or 60% of the 30-year average. Current Projections for Lake Powell elevations by the US Bureau of Reclamation shown in Figure 10 indicate an increasing likelihood that water levels could drop below the power pool elevation by the Fall 2023 if current trends persist. The green line represents the water elevation if average hydrologic, river and operations conditions persist over the next 24 months and the red dashed line represents the expected reservoir level if the basin snowpack is well below average next two winters.

Figure 9: Lake Powell Unregulated Inflow Forecast (USBR)

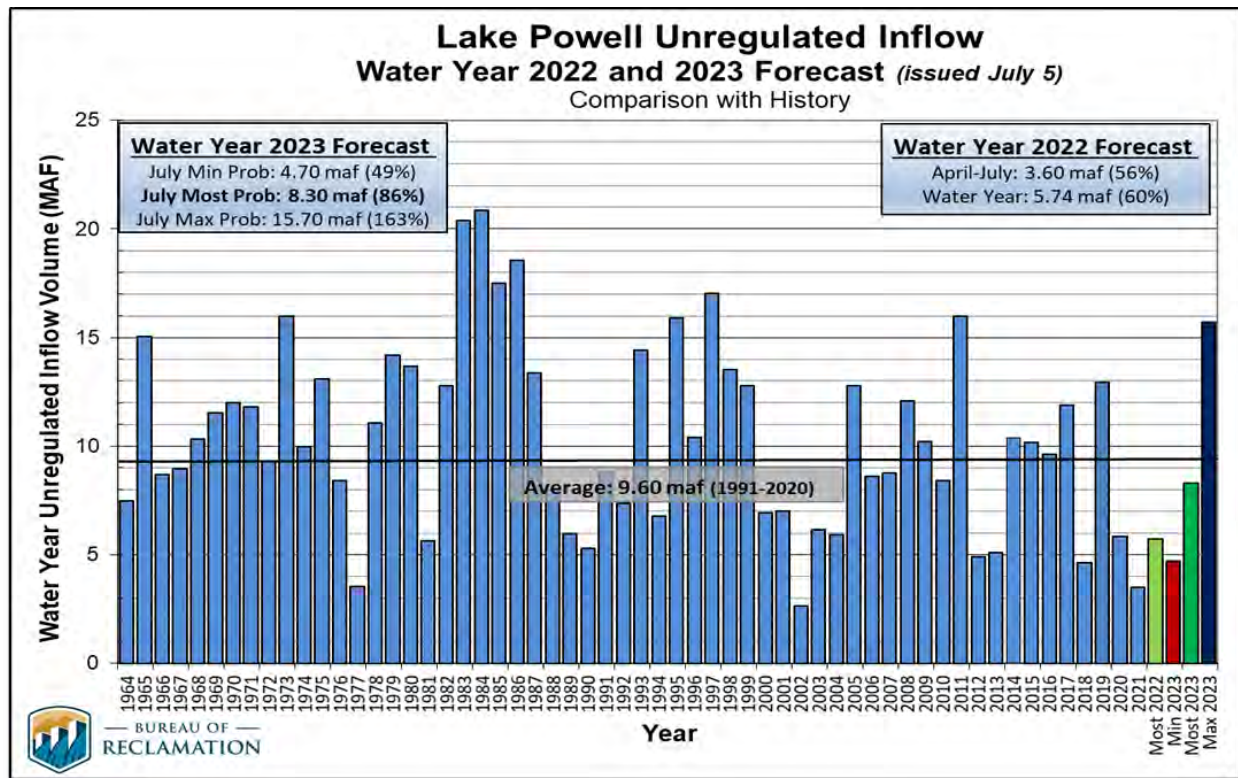
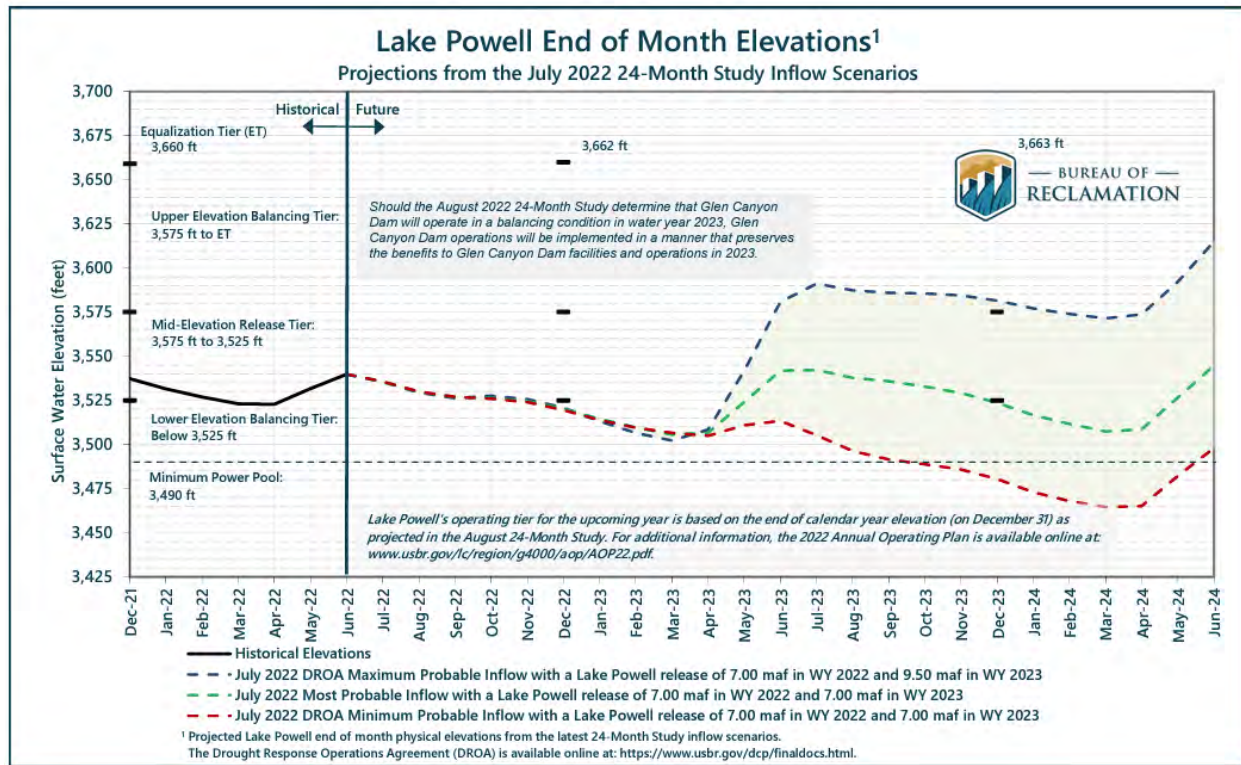
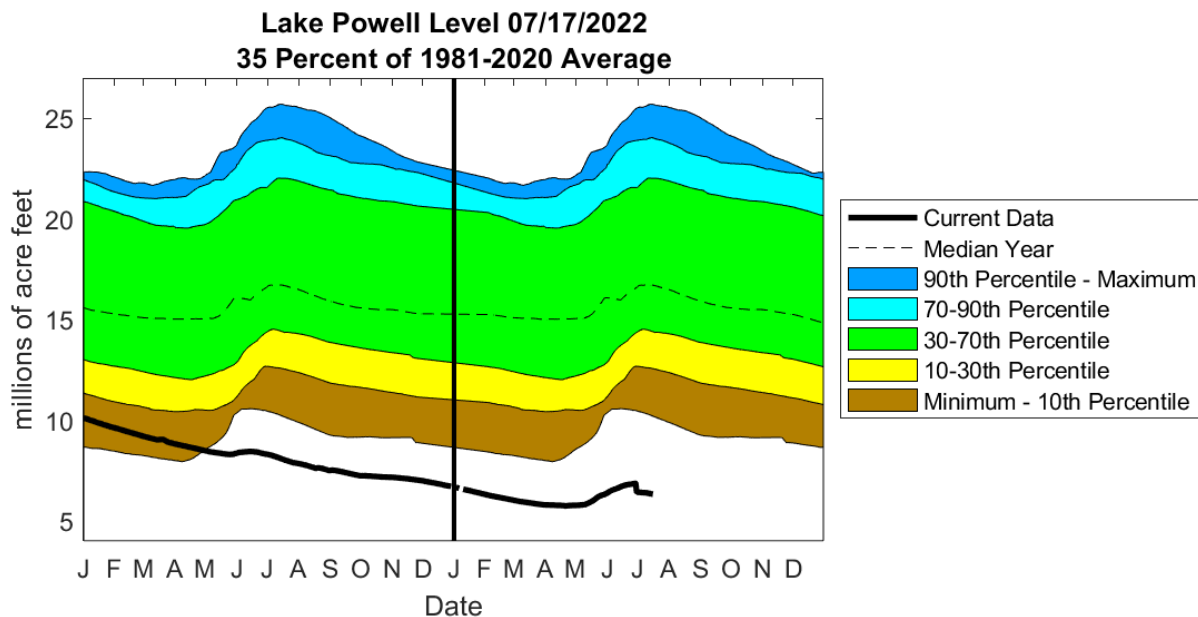


Figure 10: USBR Predicted Water Elevation July 2022 (USBR).



The unprecedented conditions currently seen in Lake Powell are depicted in Figure 11. Current levels (black line) are near historic lows, below the lowest percentile band of previously recorded levels.

Figure 11: Measured and Historic Water Elevation of Lake Powell July 17, 2022 (USBR).



Current long-range forecasts from the National Weather Service Climate Prediction Center show that local precipitation is expected to be below normal, and temperatures are expected to be above normal over the next three months. Current forecasts are shown in Figures 12 and 13.

Figure 12: Three-month precipitation outlook June 16, 2022 (NWS).

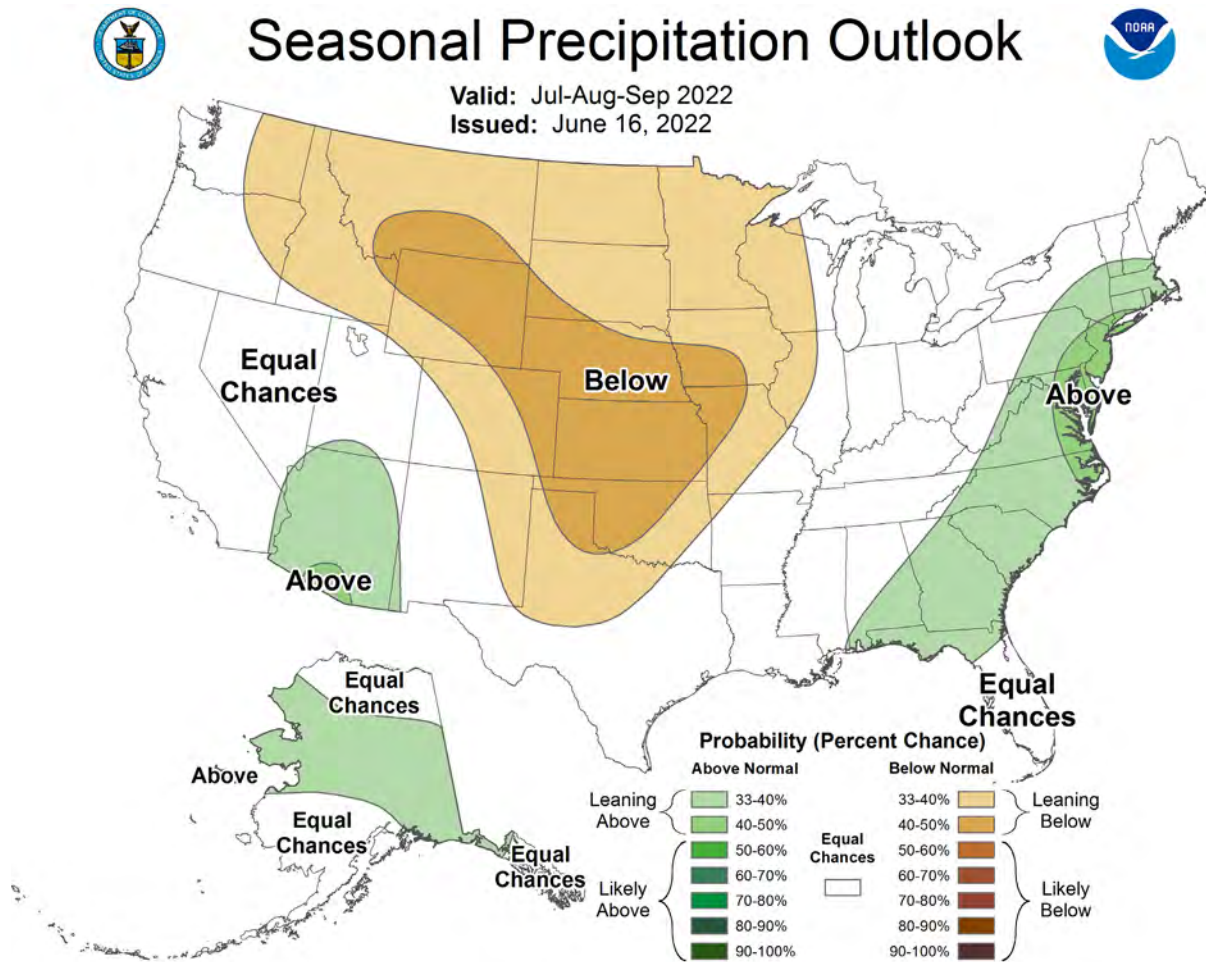
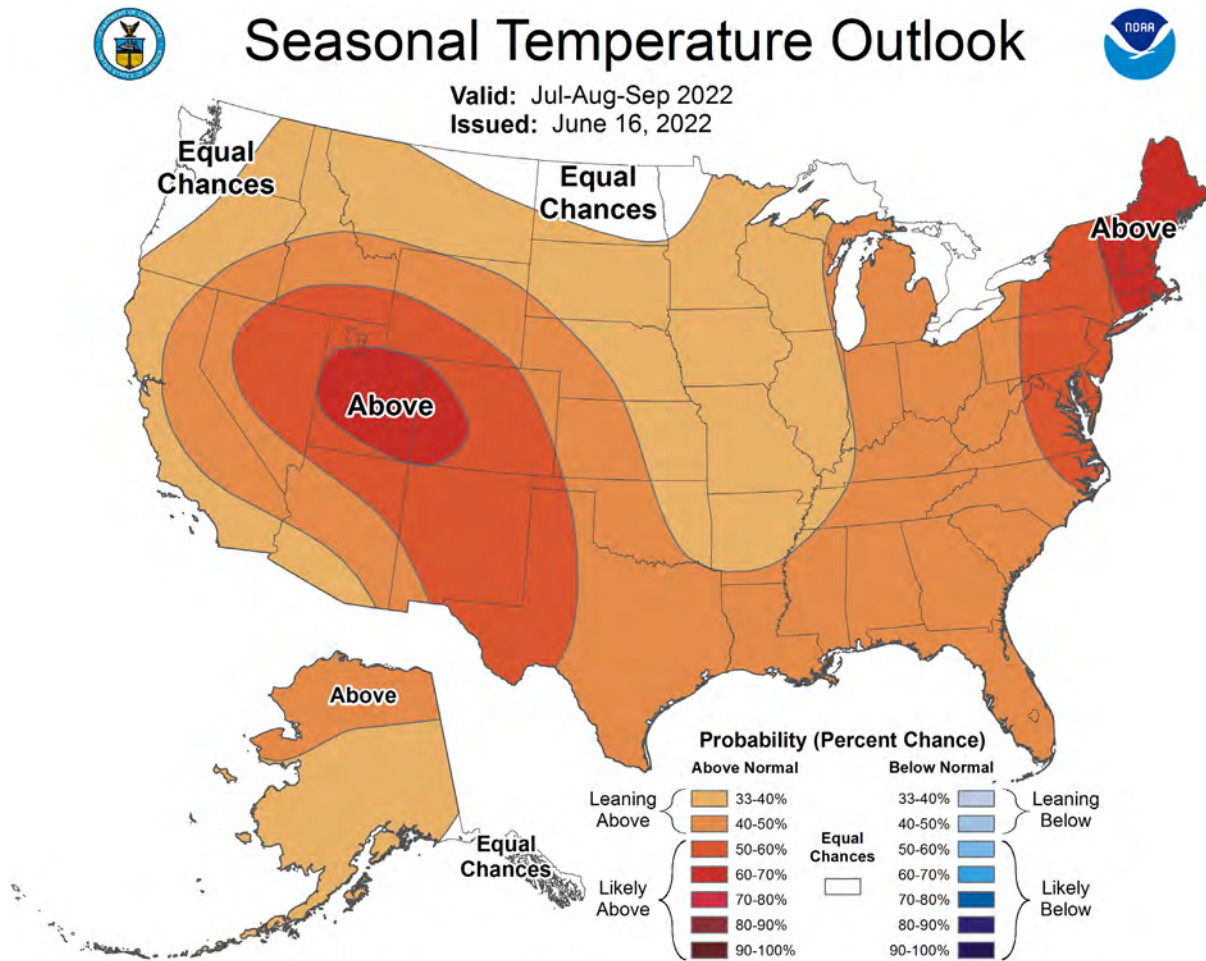




Figure 13: Three-month temperature outlook June 16, 2022 (NWS).



# Authority Surplus Augmentation Supply

Updated: 3/16/2022 by JEC

	HCU, acft	In-basin Reservoir Storage, acft	In-basin Reservoir Storage, acft	Out-of-basin Reservoir Storage, acft	Total HCU & In-Basin Storage, acft
	Summer only	Affordable Housing Reserve	Unrestricted		
<b>Modeled Augmentation Surplus<sup>1</sup></b>	105.70	87.40	127.30		320.40
<b>Projects with Ability to Serve Letters</b>					
Club Residences at CVC	0.04		1.04	0.03	1.08
<b>Current Augmentation Surplus<sup>2</sup></b>	<b>105.66</b>	<b>87.40</b>	<b>126.26</b>		<b>319.32</b>
<b>Augmentation Projections for Projects in Land Use Entitlement Process</b>					
Edwards River Park PUD	5.52	9.27	53.54	1.89	68.32
Mountain Hive	1.27		13.56	0.39	14.83
NorthStar PUD Amendment	0.45		3.16	0.09	3.61
Warner Building Dormitories	0.02		0.02	0.01	0.04
Riverwalk PUD Guide Amendment	0.07		1.67	0.05	1.74
Brown PUD	0.35		3.12	0.09	3.47
<b>Total Pending Augmentation</b>	<b>7.68</b>	<b>9.27</b>	<b>75.06</b>	<b>2.52</b>	<b>92.01</b>
<b>Projected Augmentation Surplus</b>	<b>97.98</b>	<b>78.13</b>	<b>51.19</b>		<b>227.31</b>

**Notes:**

- 1) Modeled Augmentation Surplus based on June 25, 2020 unallocated model runs adjusted for Edwards River Park changes.
- 2) Current Augmentation Surplus Projection considers all projects with Ability to Serve Letters to be allocated.
- 3) Projects in Land Use Entitlement Process have Conditional Capacity to Serve Letters but have not yet received land use approvals or completed the Authority's water rights dedication process.
- 3) Affordable Housing Reserve In-basin Reservoir Storage is Eagle Park water transferred to UERWA by Eagle County and can only be used for affordable/workforce housing projects.
- 4) Unrestricted In-basin Reservoir Storage includes 25 acft pledged by ERWSD.
- 5) Out-of-basin Reservoir Storage supplies include 711 acft Wolford Mtn. Res. Contracts and 475 acft Green Mtn. Res. Contracts.
- 6) The Authority's existing commitment of 34.3 acft of augmentation for the West End PUD is included in the modeled augmentation surplus.