

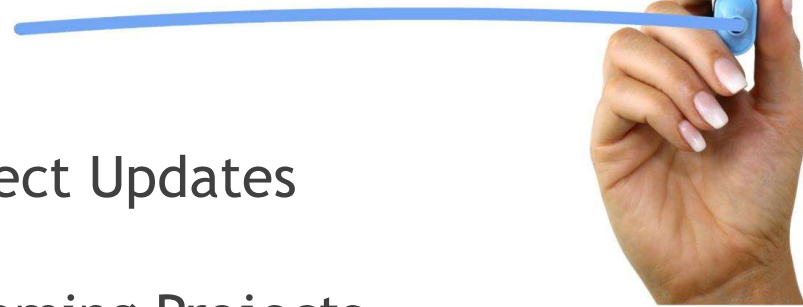


# Alliance Water Resources, Inc. Operations Update

**Martin County Water Districts**

September 16, 2024

# AGENDA



- ▶ Project Updates
- ▶ Upcoming Projects
- ▶ Operations Update
- ▶ Discussion/Questions



## Raw Water Project Update

- ▶ Raw water trailer delivered
- ▶ Pump & motor have been mounted to trailer
- ▶ VFD has been tested and ready to operate
- ▶ Connecting the pump to the floating screen is only remaining task
- ▶ Parts for the connection have been ordered



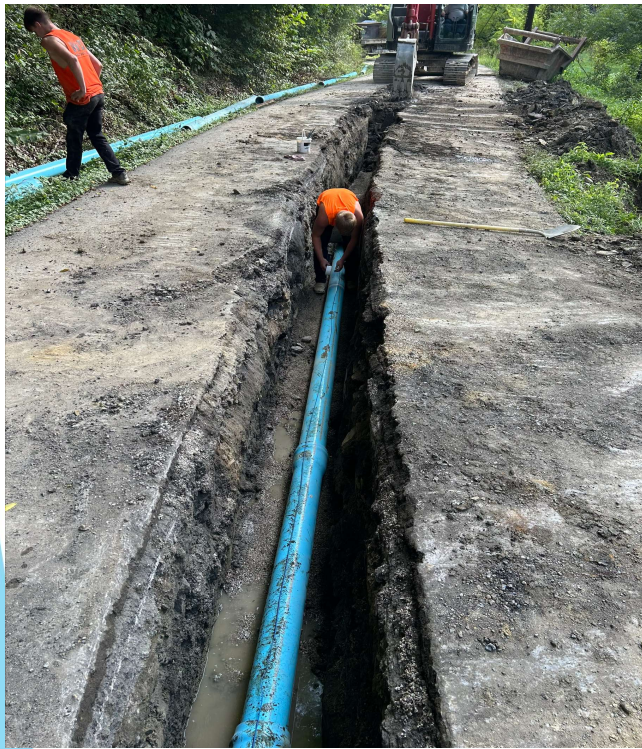
# Clarifier # 3 Rehab



- ▶ New tube settlers installed
- ▶ Inside basin was repaired and painted
- ▶ New chain installed on rotating arm
- ▶ Bearings and sprocket installed
- ▶ Filters 5 & 6 disinfected
- ▶ Put in service 9/10/2024



## Additional Capital Projects



- ▶ **Collins Creek Project** - main line replacement complete. Service lines and meters in progress.
- ▶ **Telemetry** - 292 pump station is currently being operated locally and no controls at WTP - this will allow the plant operators to see tank levels and control operation at plant

## Upcoming Funded Projects

- ▶ **Water Meter Replacement** - 2 million was funded to replace all the water meters in the system - pressure zone meters will be included
- ▶ **Turkey Tank Rehabilitation** - \$681,000 was funded to rehab the Turkey tank - will include painting and adding fence for security
- ▶ **Otto Brown Pump Station and Line Replacement** - 2 million funded project - will replace approx 20,000 feet within the service area as well as replace existing pump station - station currently is below ground and only designed with one pump
- ▶ **Water Line Relocations**- These projects are being funded by the state highway department to relocate water mains for road improvements- several of these are in suspected high water loss areas





## Projects that District have Applied for Funding

- ▶ **Downtown Inez Water Line Replacement** - This will address the oldest lines in the distribution system - phase 1 of this project will include replacing the AC water mains and service line for 200 customers
- ▶ **Coldwater Water Replacement** - This will replace approximately 40,000 feet of water main - Will also include new service line for 240 customers
- ▶ **Old Route 3 Water Replacement** - This will replace approximately 24,500 feet of water main - Will also include replacing service line for 200 customers
- ▶ **Spicy Mountain Water Extension**- This project would add up to 8 new customers that currently have no access to water. It would also include a small tank and a regional connection to Paintsville
- ▶ **Raw Water System Improvements** - This will address rehabbing clarifier # 2 and work at the reservoir including valves



# Operations Update

- ▶ Water Plant has produced 328,697,000 YTD 2024.
- ▶ Clarifier # 1 put back in service
- ▶ District has been able to maintain tanks at full capacity
- ▶ Reservoir is above 3<sup>rd</sup> screen
- ▶ Sludge Valve for clarifier # 2 replaced
- ▶ District is fully staffed





# Operations Update



- ▶ Installed new pumps in multiple pump stations: Otto Brown, Devella, Big Elk - to address redundancy issues
- ▶ Organized Distribution Conex and established working inventory program
- ▶ Pump station and Tank sites roads and housekeeping addressed
- ▶ Sanitary Survey conducted early 2024 - all nonsignificant deficiencies have been addressed
- ▶ Lead service line inventory currently 90% complete - Currently field verifying unknown service lines - District will meet the filing deadline

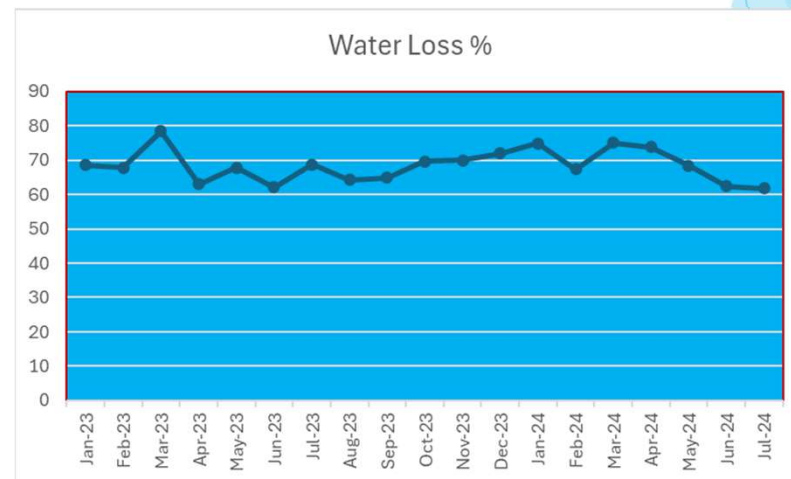
Class IV Water Treatment Operator	3
Class III Water Treatment Operator	1
Class II Water Treatment Operator	1
Class I Water Treatment Operator	1
Class III Water Distribution Operator	5
Class I Water Distribution Operator	1



## Water Loss Program

- ▶ Dedicated water loss crew working daily to identify leaks
- ▶ Purchased new equipment for leak detection May of 2024
- ▶ Installed check valves at booster stations to prevent water from flowing back thru plant
- ▶ Flow meters and pits are being used to pinpoint high water loss pressure zones

Month	Water Loss %	Total Produced	Leaks Repaired
Jan-23	68.54	49,870	10
Feb-23	67.75	40,811	31
Mar-23	78.49	50,762	25
Apr-23	62.98	46,018	18
May-23	67.87	47,131	12
Jun-23	62.13	41,875	24
Jul-23	68.76	48,378	16
Aug-23	64.18	45,499	26
Sep-23	64.93	42,694	23
Oct-23	69.68	43,594	19
Nov-23	69.98	42,751	24
Dec-23	71.88	46,035	20
Jan-24	74.86	46,917	20
Feb-24	67.37	45,892	14
Mar-24	75.09	47,418	13
Apr-24	73.83	47,202	16
May-24	68.47	47,963	18
Jun-24	62.43	44,693	34
Jul-24	61.83	48,612	36





## Water Loss Update

- ▶ Have repaired 190 leaks thru end of August 2024
- ▶ PRV's are being adjusted as leaks are being repaired
- ▶ Dedicated crew making repairs daily
- ▶ Installed 12 valves throughout troubled pressure zones to help isolate and improve leak detection program





# Water Loss Update

## PUBLIC SERVICE COMMISSION

### Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)
1	<b>WATER PRODUCED AND PURCHASED</b>	
2	Water Produced	48,612
3	Water Purchased	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>48,612</b>
5	<b>WATER SALES</b>	
6	Residential	10,946
7	Commercial	5,014
8	Industrial	
9	Bulk Loading Stations	
10	Wholesale	
11	Public Authorities	
12	Other Sales (explain) <u>Prision</u>	2,191
13	<b>TOTAL WATER SALES</b>	<b>18,151</b>
14	<b>OTHER WATER USED</b>	
15	Utility and/or Water Treatment Plant	298
16	Wastewater Plant	
17	System Flushing	108
18	Fire Department	
19	Other Usage (explain)	
20	<b>TOTAL OTHER WATER USED</b>	<b>406</b>
21	<b>WATER LOSS</b>	
22	Tank Overflows	
23	Line Breaks	9,957
24	Line Leaks	20,098
25	Excavation Damages	
26	Theft	
27	Other Loss	
28	<b>TOTAL WATER LOSS</b>	<b>30,055</b>
29	<b>Note: Line 14 + Line 22 + Line 31 MUST Equal Line 4</b>	
30	<b>WATER LOSS PERCENTAGE</b>	
31	(Line 31 divided by Line 4)	61.83%



Questions?