Maeser Water Improvement District

Water Conservation Plan

Introduction:

The Maeser Water Improvement District's (MWID) 2025 Water Conservation Plan has been prepared to comply with the Utah Water Conservation Plan Act (Utah Code Section 73-10-32). The act requires water conservancy districts and water retailers serving more than 500 connections to file a water conservation plan with the Utah Board of Water Resources and ensure that it is updated every five years. This update outlines MWID's water conservation efforts and presents its conservation goals.

Considering recent water shortages and drought in the area, MWID is acutely aware of the need to maintain a supply of water to its customers, both existing and future. The District is committed to joining with the rest of the State of Utah to decrease the per capita water use and ensure they continue to meet the regional goal in Uintah County of 234 gpcd by the year 2030.

System Profile:

Maeser Water Improvement District is in the northwest area of the Ashley Valley near Vernal, Utah. They serve approximately 3,985 residents. The district has always strived to provide clean, safe, drinking water to its residents and businesses. The district has 1,430 active connections. Thes includes 1382 Residential connections, 17 Commercial connections, 12 Institutional connections and 19 Industrial connections. The system is comprised of 48.9 miles of transmission and distribution water lines and 215 fire hydrants. The district has 2.8 Million gallons of water storage between four separate tanks. See Figure 1 below for a map of the system.

Table 1 – Water Service Connections (2024)

Connection Type	Number of Connections
Residential	1382
Commercial	17
Institutional	12
Industrial	19

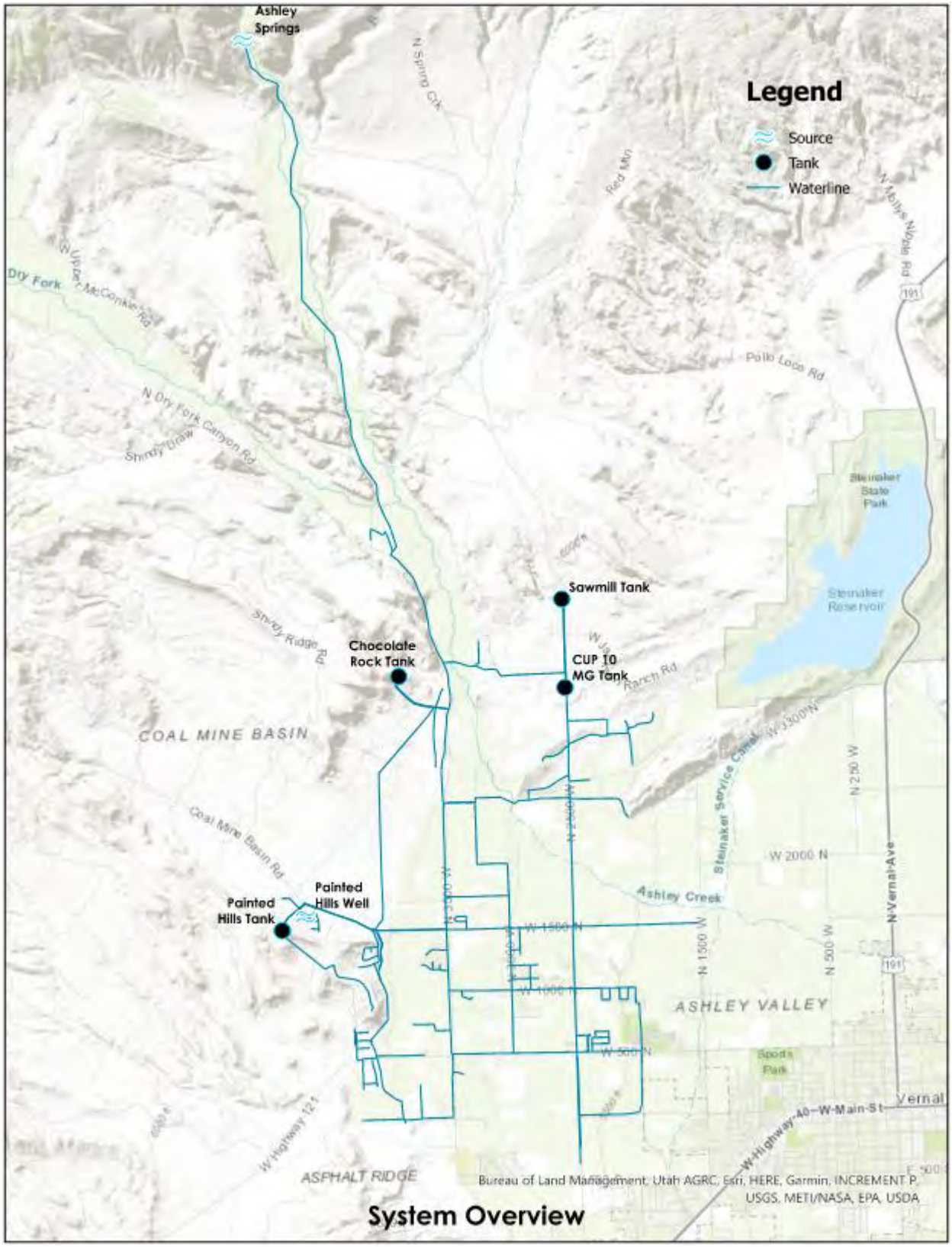

Figure 1: System Map

Supply:

Maeser Water Improvement District gets is supply of water from two main sources. Ashley Spring and Red Fleet Reservoir. The District also has the Painted Hills Well. Table 2 is a summary of the water rights owned by MWID.

Table 2 – Water Rights		
Water Source	**Average Year (ac-ft per year)**	**Dry Year (ac-ft per year)**
Ashley Creek Primary Allotment (0.6% of flow)	251	83
Ashley Creek Winter Stock Water	36	36
Steinaker M&I Water	200	200
Ashley Reservoir Company Stock	70	8
Underground Water Right*	2100	2100
Maeser WID Secondary (non-potable)	290	290
Red Fleet Reservoir	560	560
Total	**3507**	**3277**

*Hullinger Well exchanges 336 Ac-ft per year. Other wells' flow varies by year.

The yield of current supplies average 2,418 acre-feet per year. A dry year will yield less due to fluctuations in the creek flow. A dry year average supply is 2,188 acre-feet per year. The most recent master plan completed by the district identifies a projected 3% growth rate based on data gathered from 2001 to 2018. An average current use of 724 acre-feet per year projected at 3% growth rate to the year 2060, will require the district to have 2,099 acre-feet of water available. This is less than the current supply, even on a dry year.

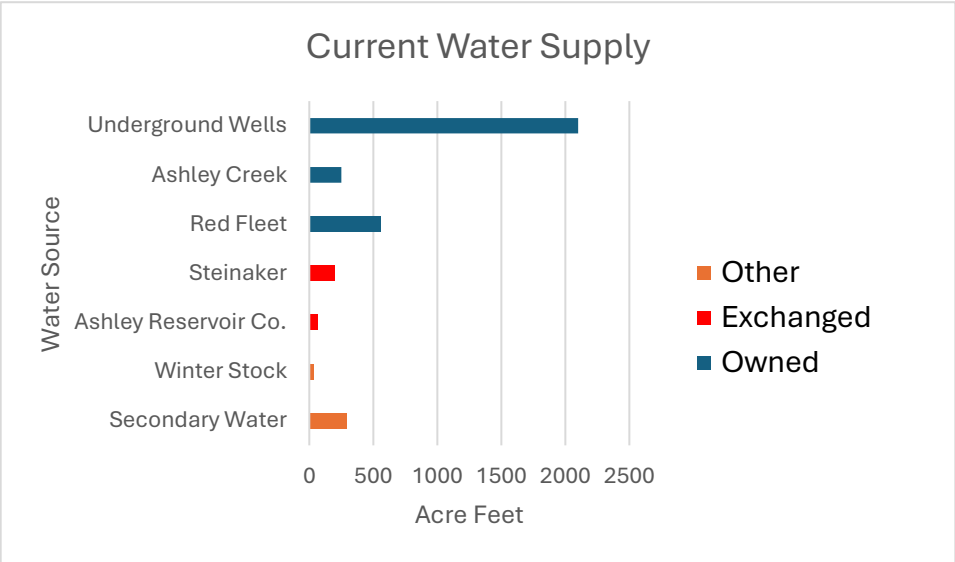

Figure 2: Current Water Supply Graph

Water Measurement:

All surface water used in the Maeser Water Improvement District is treated through the Ashley Valley Water Treatment Plant, or the Ashley Valley Water Purification Plant. Water from the Painted Hills well is only used in emergencies and doesn't have any treatment requirements. It has an iron odor undesirable to residents.

All water is measured through master meters at system entry points. The water is measured again at each customer meter. Master meters total continuously, and the data is collected and reviewed monthly, providing record for peak day demand and peak instantaneous demand. Customer meters are read on a monthly basis. This information helps the district make educated decisions on water conservation.

MWID has a monitoring program in place for their meters. The meters use radio read technology to monitor consumer usage. When large fluctuations appear in metering, a leak is suspected and the customer is notified they may have a leak needing repair. Meters suspected to read inaccurately are tested and replaced as necessary.

Water Loss Control:

Preventing water loss is a top priority for Maeser Water Improvement District. Maintenance on the system is being performed daily. When leaks are discovered, the district personnel correct the water loss immediately. Sometimes leaks are on the customer side of the meter. If a leak is seen on the customer side of the meter, MWID notifies the customer so action can be taken to repair the leak.

The district tracks and reports unaccounted water within the district. Unaccounted water may consist of construction flushing, large leak events, tank leaks and hydrant meters. This tracking helps the district manage the cost of water loss. Table 3 shows the unaccounted water in the past 5 years.

Table 3 - Unaccounted Water Volumes

Year	Total Water Purchased	Total water Sold	Unaccounted Water	% Water Loss
2020	302,462,429	256,521,000	35,941,429	11.88
2021	256,973,000	223,721,700	33,251,300	12.94
2022	265,345,000	238,737,000	26,608,000	10.03
2023	259,825,000	234,033,000	25,792,000	9.93
2024	271,734,000	247,482,309	24,251,691	8.92

Billing:

Maeser Water uses a tiered billing rate as shown in the table below.

Table 4 – Current Water Usage Rates	
Usage Rates	
$32.50	6,000 Gallons
2.26 per Thousand	7,000 to 50,000 Gallons
3.16 per Thousand	51,000 to 100,000 Gallons
4.16 per Thousand	101,000 + Gallons

Water Use:

The regional goal for Uintah County is 234 Gallons per Capita per Day (GPCD) by 2030. MWID is currently below that goal and intends to stay below. The GPCD is calculated by the following formula:

$$GPCD = \frac{\frac{Total\ Water\ Delivered}{365\ Days/Year}}{Population}$$

Table 5 – Water Usage		
Connection Type	**Total 2024 Use (MG)**	**GPCD Use (gal)**
Residential	224	154
Commercial	1.2	0.83
Institutional	21.7	14.91
Industrial	0.6	0.41
Total	247.5	170.16

A graphical depiction of the regional goal, charted with the actual gpcd, is shown in Figure 3 below. Even with slightly upward trends in water use being shown, the District is still well below the regional conservation goal of 234 gpcd.

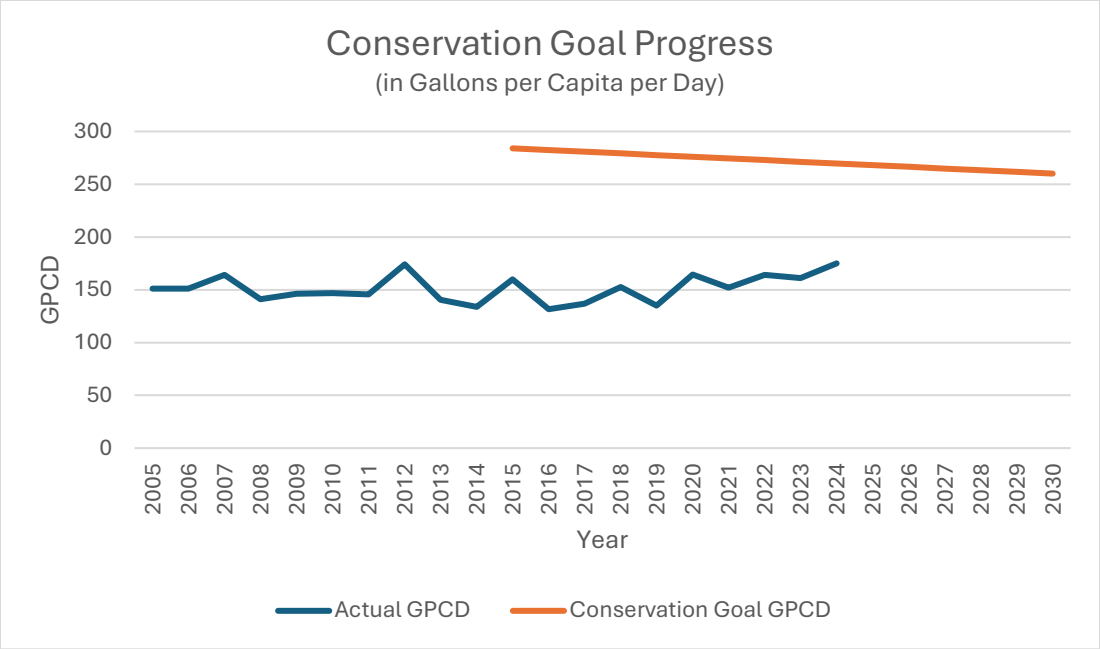

Figure 3: Conservation Goal Progress

Current Conservation Practices:

The district manager coordinates water conservation programs to educate the customers about conservation. Best conservation practices are found both on the district website, and on the printed invoices going to the public.

The board of trustees has elected to approach the topic of culinary water use and reduction with a conservative point of view. Their goals have been chosen to allow the District to provide water to its customers at a reasonable rate while encouraging smart water usage.

Measure 1: Rates

The first measure of conservation practice is completed by monitoring rates and effectiveness of conservation through using a tiered structure. The tiered structure is used to increase the cost of water based on increased use. The tiered approach encourages water users to use less water by making additional amounts of water increasingly more expensive. Table 4 above shows the current tiered structure.

Measure 2: Education

To assist water customers in their conservation efforts, each year on the April bill, the District will remind users of the goal to conserve water.

For situations such as dry years when water availability is low, the district has an Emergency Conservation Plan which outlines steps to take to ensure clean drinking water is available for life sustaining needs. The plan outlines graduated steps from self-imposed conservation measures to mandated/enforced measures as the situation worsens.

Measure 3: Water Meter Upgrades

The District has a program in place to continually monitor meters needing replacement every year. A portion of the District's maintenance budget goes toward replacing approximately 10% of the meters every year.

Tracking Progress:

Figure 3 above shows the District is below the average expected per capita use for the Green River region and the trend of per capita use is downward. Conservation efforts will continue with the District.

The District will measure the progress toward the conservation goal by calculating the per capita use of water each iar in November and review it with the Board of Trustees. This will provide a sense of whether the education and other conservationefforts are effective. Additionally, it will help maintain focus on the goal. If it is determined adjustments are needed to the plan, they will be discussed at that time.

Rate adjustments will be the subject of puclic hearings during December each year as it is reflected within the annual budgeting process. Should the need arise for emergency rate adjustments measures, this action will be announced in advance and the public invited to participate in public hearings prior to any change taking effect.

APPENDIX A:

MWID EMERGENCY CONSERVATION PLAN

APPENDIX B:

RESOLUTION ADOPTING 2025 WATER CONSERVATION PLAN

A RESOLUTION ADOPTING
WATER CONSERVATION PLAN

WHEREAS, a resolution #25275 was passed on the 2nd day of October 2025, by the Board of Trustees of the Maeser Water Improvement District, Uintah County, State of Utah, declaring its intent to adopt a water conservation plan, pursuant to the State of Utah Water Conservation Plan Act (73-10-32, Utah Code), and,

WHEREAS, a public hearing was held pursuant to (73-10-32, Utah Code), 3, B, (iii) A. on 2nd of October, 2025, at 1:00 o'clock P.M. before the Board of Trustees of Maeser Water Improvement District assembled at a public hearing at the Maeser Water Office for that purpose, and,

WHEREAS, no persons, individual or corporate, filed in writing or appeared in person to protest the adoption of said proposed water conservation plan, and,

WHEREAS, the leadership and management of the Maeser Water Improvement District understands the necessity for conservation, good business practices demonstrates the value of having in place, a living, workable document that clearly articulates goals and objectives instrumental in success.

NOW THEREFORE, it is HEREBY RESOLVED and pursuant to the authority of the Board of Trustees of Maeser Water Improvement District, Uintah County there is established, on this 2nd day of October, 2025 a resolution #25275, adopting the water conservation plan.

ATTEST:

Dustin C McCormick, Clerk

Richard K. Jolley, Chair

Robert W. Leake, Vice Chair

Galynn F. Oaks, Treasurer

Kevin VanTassell, Trustee

Nolan G. Jackson, Trustee

Maeser Water

From: <support@helpdesk.utah.gov>
Date: Wednesday, September 17, 2025 4:00 PM
To: <mwid@mystratamail.com>
Subject: Public Notice for Maeser Water Improvement District

Utah Public Notice

Maeser Water Improvement District

Notice of Public Hearing

Notice Date & Time: 10/2/25 1:00 PM -10/2/25 2:00 PM

Description/Agenda:

NOTICE OF PUBLIC HEARING
NOTICE IS HEREBY GIVEN
Pursuant to the provisions of Utah Code Title (73-10-31) annotated the Board of Trustees of Maeser Water Improvement District will conduct a public hearing at 1:00 P.M. October 2nd, 2025 at the District office located at 1063n 2500w Vernal Utah. The purpose of the hearing is to consider a resolution adopting a water conservation plan, resolution # 25275 the conservation plan is available for inspection on the district's web site at maeserwater.gov and at the district office from 12:00 pm to 3:00 pm Tuesdays Wednesdays and Thursdays. Written comment will be accepted up to the start of the public hearing.

Notice of Special Accommodations:

Maeser District office spaces are equipped for persons with disabilities. Anyone needing special assistance should contact office staff at 789-2353 prior to the meeting.

Notice of Electronic or telephone participation:

No electronic participation anticipated or planned.

Other information:

Location:

1063 North 2500 West, VERNAL , 84078

Contact information:

Dustin McCormick , mwid@mystratamail.com, (435)789-2353

Minutes of the Maeser Water Improvement District Board of Trustees meeting held at 1:00 P.M. on October 2nd, 2025 at 1063 North 2500 West, Vernal, Utah.

Present: Chairman: Richard K. Jolley, Trustees: Nolan Jackson, Kevin VanTassell, Robert Leake, Staff: Dusty McCormick, Cameron Durrant.

Absent: Galynn Oaks

Prayer: Dusty McCormick

Pledge of Allegiance: Richard Jolley led those in attendance in the Pledge of Allegiance.

Public Attendees: Craig Nebeker Horrocks Engineering

Approval of September 11th board meeting minutes: Nolan motioned to approve the September 11th board meeting minutes. Robert 2nd, Richard yea, Kevin yea, GaLynn absent. Motion carried.

Follow up September board meeting minutes:
Painted Hills Well iron removal project: Dusty reported on the progress of the Painted Hills Well iron removal project. He is working with two vendors, Flowpoint and Pure Aqua. Flowpoint offers a bio-type treatment that would use a bacteria to remove the iron in the water, with chlorine being added at the end for residual. Pure Aqua offers a green sands filter media and pre-treats with chlorine. Pure Aqua also quoted $1000.00 for the pilot filter, making it much more economical than anticipated.

Report from Staff: Dusty reported that Marlin Mott's driveway has been paved.

Sewer cleaning program complete: Dusty reported that the sewer cleaning program has been completed for the year 2025. Due to inflation, Dusty is planning on making some adjustments to the budget. Dusty is also considering implementing a cleaning schedule in which a quarter of the sewer system is cleaned each year instead of a third of the system each year due to increases in cost and because our sewer system is typically not so messy as to need one third of the system to be cleaned each year.

Fire Hydrant replacement program: Dusty reported that we have received the materials and have replaced two hydrants. It takes about a week to replace each hydrant. There are eight hydrants in Painted Hills, which we plan on replacing this Fall.

Water line break 3616 West 1500 North: Dusty reported on the waterline break that occurred on September 26. Branden, Dusty, Cameron, and a crew from Weldon Construction repaired the break. Driveways affected by the water line break will need to be repaired.

County water plan review and comments: Dusty provided each attendee with a copy of the Uintah County Water Use and Preservation Element book. Craig Nebeker reviewed the contents of the document, which proposed a general plan for county water conservation. Robert expressed concerns that the language of the document read like established law rather than policy

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Water Right Committee: Dusty reported that we had not met with the Water Right Committee.

Sewer board report: Nolan reported that the next Sewer Board Meeting would be held on October 18th.

Safety Meeting: Dusty reported that Part 2 of the confined space entry program had been tabled and would take place this month.

that as of yesterday, Utah Local Government Trust told him that they would cover no more than up to $5,000.00. Kevin motioned to repair asphalt, pay the service master, and review the status of the cement and fix what we need to next spring. Robert 2nd, Nolan yea, Richard yea. Motion carried.

Report from Staff:
Sewer cleaning program underway: Twin D is working to clean the sewers. Dusty and Branden hung up door hangers to inform the public of the cleaning and marked the manholes. Cleaning will conclude in about one week.

Fire Hydrant replacement program: Dusty reported that we had identified 8 hydrants that we would like to work on between now and winter. Fire hydrants have been ordered along with new valves that will be placed in the hydrants. We are looking at about $40,000.00 for the program cost.

Waterline break 3750 West 211 North: Dusty reported that we repaired a waterline break at 3750 West 211 North.

Water Right Committee: The next water right committee meeting will be September 14th.

Sewer board report: Nolan reported that the sewer lift station project is underway. Dean seems to be pleased with what is going on, particularly when it comes to the electricians. Nolan was not certain when they will start pumping on bypass as there are conflicting reports from salesmen and the operator on what size of pumps would be needed. Dean would like to replace all four of the 25-year-old pumps.

Safety Meeting: Dusty reported that Part 2 of the confined space entry program had been tabled and would take place this month.

New Business:
Resolution #25254 CANCELING DISTRICT ELECTIN: Kevin motioned to cancel the elections and declare the recorded candidates, Nolan Jackson and Robert Leake, elected. Nolan 2nd. Richard yea, Robert yea. Motion carried.

Reconciliation August checking account and Treasurer Duties: Nolan volunteered to serve as a temporary treasurer. Robert Motioned to appoint Nolan as temporary treasurer. Kevin 2nd. Richard yea, Nolan yea. Motion carried.

Personnel Committee: Kevin motioned that Nolan fill in for Kevin during the next personnel meeting on Sep 16, 2025. Robert 2nd. Richard yea, Nolan yea. Motion carried.

Reschedule next board meeting: Robert reported that he would be unable to meet during the second week of October. The board decided to schedule the next board meeting for Oct 2, 2025 unless GaLynn Oaks made a recovery and was able to attend the regularly scheduled board meeting on the 9th.

Review of bills paid: Nolan motioned to accept into the record without exception the bills paid from 08/01/2025 to 08/31/2025. Kevin 2nd. Richard yea, Robert yea. Motion carried.

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Adjourn. Kevin made a motion to adjourn, all in favor.

APPROVED:

Dusty McCormick, Records Officer

Richard K. Jolley, Chairman