

AUSTIN WATER RESILIENCY IMPLEMENTATION

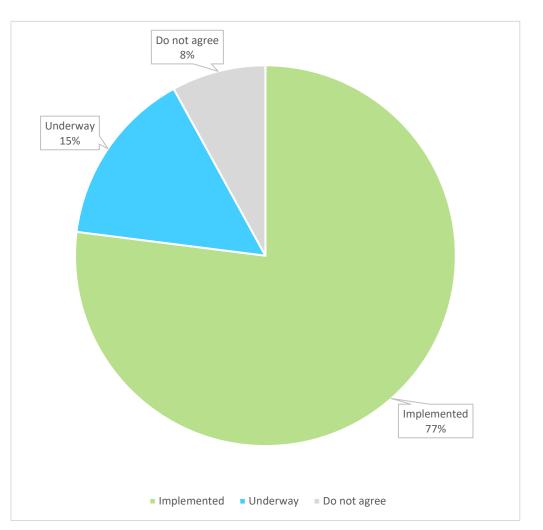
Status of Recommendations from the AW External Review

February 8, 2024



DEFINITIONS AND COLOR CODING

- Implemented (Green): AW has finished our work on the recommendation on one of three paths:
 - 1. AW has completed the specific actions in its implementation plan.
 - 2. AW has launched specific steps for a process with the appropriate staff and other resources assigned. The activities associated with the process have become part of daily operations. The recommendation has been operationalized.
 - 3. AW has programmed a long-term capital project or planning project such as Water Forward to address the recommendation.
- **Underway** (Blue): AW has developed a plan to address the recommendation and has begun implementation.



Our work to fully implement the recommendation is in progress.

Planned (Yellow): AW has developed a plan to implement the recommendation that includes actionable steps but has not yet begun implementation.

Do Not Agree (Gray): AW does not agree to implement the recommendation and will not be reporting a status on it going forward.



Implemented – 41 Recommendations, 77%

Emergency Management

Rec. #	Recommendation	Implementation Status	Expected Completion
2.3-9	Communicate roles and responsibilities prior to events and immediately upon activation for incidents.	Revisions to the Standard Operating Procedure for Incident Command roles and responsibilities is complete and includes protocols for communication to AW staff upon activation and through regular internal communication channels.	Complete
2.3-12	Increase purchasing authority at the operations level to expedite rapid purchasing.	AW has authority to declare emergency purchasing conditions and has utilized this capability in response to emergency conditions.	Complete
2.7-3	Identify possible future scenarios that could present water quality and treatment challenges; implement solutions.	AW has identified scenarios that could present water quality and treatment issues and updated the Emergency Response Plan accordingly. Additional response plans for wildfire, PFAS and oil spills have also been drafted and incorporated.	Complete



Rec. #	Recommendation	Implementation Status	Expected Completion
2.2-6	Communicate significant HR decisions to operations staff.	All compensation changes to base pay have been implemented and communicated to employees. Compensation evaluation and update processes have been operationalized.	Complete
2.2-7	Continue to advocate for increased operator salaries.	In February 2023, AW implemented a temporary 10% retention bonus for eligible staff that expires at the end of FY 2024. AW has worked with HRD to implement or update numerous retention strategies, including a retention stipend for new staff, safety incentive pay, licensure incentive pay, straight time pay for time worked over 80 hours per pay period for select exempt titles, rezoning activities, job description changes, and market studies (IT and Engineering titles in 2023 and City-wide Market Study in January 2024). This completes all pending HRD compensation actions.	Complete
2.2-9	Support hiring above the starting level when a candidate is qualified.	AW is currently posting openings at multiple levels to allow hiring above the entry level.	Complete
2.3-1	Continue to recruit and retain a skilled workforce, prioritizing vacant positions.	AW has been attending career fairs and hosted recruitment Open Houses for applicants. Tracking vacancy rates, hard to fill positions, and separations has been operationalized.	Complete



Operations & Engineering

Rec. #	Recommendation	Implementation Status	Expected Completion
2.5-2	Examine the risks of more frequent and intense storms to evaluate water treatment management.	Surface water quality considerations are included in the 2024 Water Forward Plan update, which is underway.	Complete
2.6-2	Verify operational range of primary responses via stress testing, condition assessments, and staffing requirements.	Medium and high service pump stations at Ullrich have been stress tested. Ullrich Water Treatment Plant was successfully stress tested up to a flow rate of 140 MGD in August. Standard Operating Procedures have been updated and uploaded to the plant's O&M guide.	Complete
2.6-3	Conduct a seasonal backwash performance evaluation and implement a routine filter media monitoring program.	A Standard Operating Procedure for filter assessment all three treatment plants is complete and includes data management, trouble-shooting, and root cause evaluation of performance criteria.	Complete
2.6-4	Prioritize the Ullrich Water Treatment Plant centrifuge replacement project.	Design of the Ullrich centrifuge project is included in the 5-Year CIP. A centrifuge repair and maintenance contract was approved by City Council in March 2023.	Complete
2.6-5	Review and update staffing assignments and SOPs for system flow changes.	Staffing assignments and SOPs for normal system flow changes have been reviewed and documented. Ullrich Water Treatment Plant was successfully stress tested up to a flow rate of 140 MGD in August. Staffing assignments and SOP for a substantial flow change have been finalized.	Complete
2.6-6	Implement measures to remedy the preventative maintenance backlog.	AW used IDIQ contracts to supplement the efforts of AW staff to address the preventative maintenance backlog.	Complete



Operations & Engineering (continued)

Rec. #	Recommendation	Implementation Status	Expected Completion
2.6-8	Remediate Upflow Clarifier No. 5 launder and verify elevation uniformity for all units.	Evaluation indicates that filters meet criteria set by the Partnership for Safe Water and TCEQ's Texas Optimization Program. However, repairs are recommended for inclusion in a future Capital Improvements Project to optimize performance.	Complete
2.6-9	Review prior lime feed and delivery system condition assessments with plant staff and determine response actions.	The Ullrich Water Treatment Plant Lime Feed Loop is substantially complete.	Complete
2.6-10	Continue Ullrich Water Treatment Plant Conversion project as currently scheduled.	This project is included in the 5-Year CIP. Design is underway.	Complete
2.7-1	Establish a consistent backwash procedure and develop readily accessible Standard Operating Procedures.	Filtration Standard Operating Guidelines have been updated and made available on the O&M website. Instructions for accessing Standard Operating Procedures and Guidelines have also been completed.	Complete
2.7-2	Evaluate the cost of continual polymer feed and implement if found to be cost efficient.	AW has evaluated the cost and efficiency of operating polymer on an intermittent vs. continuous basis. Memo summarizing the evaluation and recommending continuous operation of polymer feed system is complete.	Complete
2.7-4	Re-evaluate plant capital projects based on comprehensive conditions assessments and communicate with plant staff.	Capital Projects for 2023-2028 have been reviewed with Operations staff to prioritize. Training about the CIP process for staff at all three treatment plants occurred in November 2023 and included information about how operations staff can provide input into the process and see the progress of CIP projects.	Complete



Rec. #	Recommendation	Implementation Status	Expected Completion
2.8-1	Confirm all level monitors and controls in distribution storage tanks are working properly.	AW provides station checks throughout the distribution system on a routine basis to monitor storage levels.	Complete
2.8-3	Develop additional pathways for water supply to reach South pressure zones.	Two new elevated storage tanks and associated transmission mains are included in the 5-Year CIP. Engineering contracts were approved by Council on May 18. AW is updating our Water Distribution Long- Range Plan and will explore additional opportunities to enhance water supply to South pressure zones.	Complete

Operations & Engineering (continued)



Public Information

Rec. #	Recommendation	Implementation Status	Expected Completion
2.4-1	Provide media training for all staff who may participate in press conferences during emergency events.	AW hired consultants to provide media skills training workshops for leadership positions across the organization. Several sessions have been completed and regular training is planned going forward.	Complete
2.4-2	Standard practices should be established for publishing information in languages other than English.	Required regulatory language and standard guidance for customers for boil water notices have been translated to multiple languages.	Complete
2.4-3	Notify and brief the City Manager of crises and move forward with decisions related to public communications.	Communications protocols for emergencies, which include a Crisis Communications Checklist, were completed in collaboration with CPIO, HSEM, AE, WPD, and AFD.	Complete
2.4-6	Issue initial generic language notifications to the public, followed by detailed information updates in all languages.	Short messages that meet all regulatory requirements have been created and translated for various notification platforms.	Complete
2.6-7	Enhance understanding of the CIP process throughout the organization.	Capital Projects for 2023-2028 have been reviewed with Operations staff and training about the CIP process for staff at all three treatment plants occurred in November 2023 and included information about how Operations staff can provide input into the process and see the progress of CIP projects.	Complete
2.8-4	Continue communications to manage water loss in premise plumbing during freeze events.	AW provides seasonal communications and outreach about protecting pipes during freezing weather. The My ATX Water customer portal also sends custom notifications if water use suddenly increases indicating water loss at a home or business.	Complete



Reporting Structure

Rec. #	Recommendation	Implementation Status	Expected Completion
2.2-1	Establish a position for a single person to be in charge of Ullrich Water Treatment Plant.	AW has dedicated a Division Manager to lead at Ullrich Water Treatment Plant as of January 2023.	Complete
2.4-5	Develop appropriate position titles, pay, and job scope for a critical infrastructure institution.	AW has implemented several recruiting and retention strategies, as well as new titles, reclassifications, and pay exceptions. As part of normal business practices, AW Human Resources staff evaluate titles and compensation and submit requested changes to the City's Human Resources Department. Issues are escalated to AW Director Roalson and the HRD acting Director for resolution as needed.	Complete

Situational Awareness

Rec. #	Recommendation	Implementation Status	Expected Completion
2.3-4	Enforce training on VEOCI ¹ for all personnel who work in the system.	Revised Emergency Management SOP includes training requirements for ICS and SOP on situational awareness includes VEOCI training requirements. Quarterly training reports are generated to track compliance with requirements and are reviewed during year-end performance appraisals.	Complete
2.3-5	Continually exercise VEOCI system on small, low-stakes or no consequence events.	AW has completed a new Standard Operating Procedure on situational awareness; workflows and a dashboard have been created in VEOCI for low-stakes and concurrence events.	Complete



¹ VEOCI is Austin Water's online software platform that serves as a virtual emergency operations center.

Situational Awareness (continued)

Rec. #	Recommendation	Implementation Status	Expected Completion
2.3-6	Evaluate current emergency planning and training at each plant.	Two Incident Management Team tabletop exercises were held in FY23 that included plant staff participation. Future exercises are part of Emergency Management's annual training schedule that has been published.	Complete
2.3-7	Establish notification thresholds that are documented and understood by all staff.	AW has documented notification thresholds as part of our Risk Guidance Criteria. A new SOP on situational awareness incorporates Risk Guidance Criteria and VEOCI training requirements. Staff training is provided regularly and documented in TRAIN.	Complete
2.3-8	Establish notification thresholds that are documented and understood by all staff.	AW has documented notification thresholds as part of our Risk Guidance Criteria. A new SOP on situational awareness incorporates Risk Guidance Criteria and VEOCI training requirements. Staff training is provided regularly and documented in TRAIN. [see recommendation 2.3-7]	Complete
2.8-2	Improve communication between Pumping and Plant Operations regarding flow changes.	Standard Operating Guidelines for pumping and treatment communications have been completed that include VEOCI as a platform to document pumping changes. [see recommendation 2.6-1]	Complete

SOPs & Training

Rec. #	Recommendation	Implementation Status	Expected Completion
2.2-4	Teach all Operations & Maintenance staff how to access Standard Operating Procedures.	Supervisors and certification trainers at each Water Treatment Plant have incorporated access to electronic Standard Operating Procedures as part of their training plans and ongoing training activities. All current staff at the three water treatment plants have been trained how to access Standard Operating Procedures.	Complete
2.2-11	Continue incorporation of new training positions; promote consistency of training for all operations and maintenance staff.	Trainer positions have been filled and training has been incorporated into daily operations at all three water treatment plants.	Complete
2.2-13	Develop a plan to manage cross-training between operations and maintenance staff.	AW has implemented focused training on operations for new staff. An onboarding guide that specifies operations and maintenance training has been developed. A new Operations & Maintenance position with appropriate licensing and experience has been created to allow better work planning and leadership.	Complete
2.2-14	Develop a regulatory and water quality training program, as well as regular CIP program updates, for plant staff.	Regulatory and water quality training is complete at all three water treatment plants. Capital Projects for 2023- 2028 have been reviewed with Operations staff. Training about the CIP process for staff at all three treatment plants occurred in November 2023 and included information about how Operations staff can provide input into the process and see the progress of CIP projects.	Complete



10

Rec. #	Recommendation	Implementation Status	Expected Completion
2.5-1	Review oil spill response plan and update where needed.	Consultants were hired by Magellan to complete the required 5-year update to the spill response plan, which was accomplished at the end of 2023.	Complete
2.6-1	Improve communication between pumping and plant operations to balance load variations.	Standard Operating Guidelines for pumping and treatment communications have been completed that include VEOCI as a platform to document pumping changes. [see recommendation 2.8-2]	Complete



Underway – 8 Recommendations, 15%

Employee & Leadership Development

Rec. #	Recommendation	Implementation Status	Expected Completion
2.2-5	Continue regular team-building exercises and require attendance by all staff.	Seven leadership sessions for Water Treatment Operators were created to advance skills around conflict resolution, leadership excellence, emotional intelligence, and building trust. Training was completed in September. Environmental scans and culture listening sessions have been conducted throughout the organization; findings from these sessions have resulted in group-specific training and workshops to be delivered in January and February of 2024.	10/31/2024
2.2-8	Develop training for young people to learn about water treatment and operations.	AW will continue to partner with TAWWA, WEAT, P-Tech, and other industry organizations to develop new talent. A new Outreach Advisor in AW Human Resources has been hired to continue developing relationships with community schools and partners to create pathways and attract new talent for critical positions. AW Human Resources also works with potential candidates to build interview skills and develop strong resumes and applications.	10/31/2024
2.3-11	Provide training and consequences for noncompliance around bringing potential issues forward that impact safety.	Training sessions for AW supervisors that include safety policies and procedures, as well as topics such as performance management, discipline and investigations are ongoing. Safety guidelines and expectations have been incorporated into New Employee Orientation. Weekly safety topics related to Incident Reporting and Incident Investigations are distributed throughout the year to all AW employees. Additional materials are provided to chain of command to be used for team meetings and discussions.	10/31/2024



Public Information

Rec. #	Recommendation	Implementation Status	Expected Completion
2.4-4	Continue to hire staff to handle water and wastewater concerns using the My ATX Water customer portal.	The My ATX Water program has been transitioned from Operations to the Customer Experience program area and will be fully implemented by FY2025. This includes the addition of staff positions to support the program, which have posted, filled, or submitted as part of AW's FY25 FTE Budget Request.	2/28/2025

Reporting Structure

Rec. #	Recommendation	Implementation Status	Expected Completion
2.2-2	Investigate ways to improve conflict management skills, team building efforts, and leadership development at the plants.	Seven leadership sessions for Water Treatment Operators were created to advance skills around conflict resolution, leadership excellence, emotional intelligence, and building trust. Training for water treatment plant staff was completed in September. Environmental scans and culture listening sessions have been conducted throughout the organization; findings from these sessions have resulted in group-specific training and workshops to be delivered in January and February of 2024.	10/31/2024
2.2-3	Engage a consultant to make recommendations regarding the best management structure to support plant operations and maintenance.	AW is conducting the Partnership for Safe Water Self- Assessment for Water Treatment Plant Operations at Ullrich to identify options to support plant operations and maintenance. A Consulting Engineer has been hired to lead this effort and collect input from other utilities on AW organizational structure.	12/31/2024



13

Reporting Structure (continued)

Rec. #	Recommendation	Implementation Status	Expected Completion
2.2-12	Engage a staffing expert to evaluate staffing at all three treatment plants.	AW will use the findings from the Partnership for Safe Water Self-Assessment to identify job descriptions, staffing levels, and training programs for implementation.	12/31/2024

SOPs & Training

Rec. #	Recommendation	Implementation Status	Expected Completion
2.3-3	Train personnel for plant-specific knowledge and employ at higher certification levels where necessary.	Plant-specific training programs have been developed and launched on 2/13/2023 and more than 500 hours of training has been completed. On track to complete training with 100% pass rate.	10/31/2024



14

Do Not Agree – 4 Recommendations, 8%

Reporting Structure

Rec. #	Recommendation	Implementation Status	Expected Completion
2.2-10	Establish greater autonomy for AW Human Resources to better define job requirements and qualifications.	AW does not agree with this recommendation.	N/A
2.2-15	AW should report directly to the City Manager due to its criticality for public health and safety.	AW does not agree with this recommendation.	N/A
2.3-2	Replace existing protocol and have AW report directly to the City Manager.	AW does not agree with this recommendation.	N/A
2.3-10	Reduce span of control to allow for more responsive organizational actions during emergencies.	AW does not agree with this recommendation.	N/A

