

**Metropolitan Domestic Water Improvement District
Board of Directors Meeting**

November 13, 2023

Monthly Status of the District –October 2023

Synopsis

The purpose of this agenda item is to provide the Board with an update of the District’s activities for the past month. This is not an action item but is meant to provide information to the Board and give a clearer picture of the District’s activities.

October 2023 Report

Water Usage/Quality

Amount of Water Consumed in Metro Main

FY 2024 Year to Date – 887,645,900 gallons

FY 2023 Year to Date – 800,890,600 gallons

Amount of Water Consumed in Metro Hub

FY 2024 Year to Date – 102,344,100 gallons

FY 2023 Year to Date – 90,756,400 gallons

Amount of Water Consumed in Metro Southwest

FY 2024 Year to Date – 64,171,500 gallons

FY 2023 Year to Date – 60,833,500 gallons

Revenue Metered Sales Billed in October 2023 – Grand Total \$1,832,626.67

Metro Main – \$1,548,098.13

Metro Hub – \$152,818.80

Metro Southwest – \$131,709.74

Prior Year Revenue Metered Sales Billed in October 2022 – Grand Total \$1,573,006.54

Metro Main – \$1,340,743.98

Metro Hub – \$123,485.99

Metro Southwest – \$108,776.57

Water Quality Samples

84 Microbiological samples taken from the distribution system.

34 Microbiological samples taken from the District’s active wells.

96 Lab/field test samples for VOCs, SOCs, IOCs, DBPs, Nitrate, 1,4-Dioxane, PFAS compounds, Arsenic, and other metals.

System Maintenance

Noteworthy Maintenance Projects and Major Repairs in October 2023:

1. Replaced leaking mechanical seal on Lazy B booster.
2. Installed overhauled motor on Diablo Village #2 booster #3.
3. Added two additional solar panels to AVRP.
4. Repaired three service line leaks and one mainline leak.
5. Continued security upgrades at additional sites.

Valves Exercised – 25

Meter Replacements – 4 – 5/8” meters; 1 – 2” meters

Meters Tested – 6

New Meter Applications – 21 total

Metro Main – 21

Metro Hub – 0

Metro Southwest – 0

Customer Accounts

Total Customers Billed – 22,139

New Accounts – 164

Delinquent Accounts – October 2023

Initial Shut Off Notices – 1,055

Final Shut Offs – 50

High Consumption Contacts – 83

Service Orders and On's and Off Order Requests – Total performed: 243

Service Orders:

Metro Main – 16

Metro Hub – 4

Metro Southwest – 0

Meter On's and Off Order Requests

Metro Main – 168

Metro Hub – 6

Metro Southwest – 49

Water Sustainability Projects

2023 CAP Storage – As of the end of September, all but 102 acre-feet of the 8,460 acre-feet of the District’s CAP order has been delivered to the CMID and Kai Farms groundwater savings facilities. The remaining 102 acre-feet of water will be delivered to AVRP by the end of the year.

The City of Phoenix has ordered 7,200 acre-feet of CAP water to be delivered to AVRP in 2023. Deliveries of Phoenix water began at AVRP on March 2, 2023, and are anticipated to be completed by the end of November 2023. As of the end of September, a total of 5,381 acre-feet of City of Phoenix water has been delivered to AVRP. Water was delivered in the first half of October; however, the meter reads and reported volume has not been provided by CAP to date. There is 1,511 acre-feet of water remaining to be delivered by the end of the year.

Basin maintenance will be conducted during the CAP canal planned maintenance shutdown. This will enhance infiltration rates following a long, wet cycle period. No drying was possible in the summer because Phoenix did not want to start deliveries until March 2023. In the future, all deliveries will begin in January to provide a mid-year drying cycle for the basins to maintain normal infiltration rates.

South Shannon Treatment System Reimbursements – Since 2000, \$1,591,874.65 has been reimbursed by the Arizona Department of Environmental Quality (ADEQ). For Fiscal Year 2024, ADEQ has a budget of \$110,587 for operations, sampling, and GAC changeouts of the South Shannon Treatment System. A new O&M expenses agreement with ADEQ is being prepared to account for the increased costs associated with operation of the new Advanced Oxidation Process. The treatment equipment construction is nearing completion. Staff will receive training from the Trojan treatment systems representatives on operation and maintenance of the new AOP equipment. Once operational, it is anticipated that the production rate for the well will increase to approximately 650 gallons per minute (gpm). The invoice for October 2023 will be submitted in November.

Capital Improvement Program & Other Major Projects

Northwest Recharge, Recovery, and Delivery System (NWRDRS) (Partnered portion) Staff have negotiated the scope and fee proposal for preconstruction services with the highest-ranked contractor. The contract will be presented to the Board at the November Board Meeting for consideration. Survey services for the pipeline realignment commenced. Staff prepared an environmental information document, which will be required for environmental clearance in the event funding is secured through the Water Infrastructure Finance Authority of Arizona (WIFA). Staff secured necessary permits from the Federal Aviation Authority for the upcoming construction work in the vicinity of the Marana Regional Airport. The pipeline crossing on Avra Valley Road, necessitated by pending paving work, is underway.

NWRDRS (Metro-only portion) Advertisement for bids for phases 2, 3, and 4 of the pipeline started October 24, 2023. Staff held a pre-bid meeting on November 1, 2023, and

a site visit was held on November 7, 2023 for work related to the Herb Johnson tie-in. Bids will be opened on November 27, 2023. Staff prepared an environmental information document, which is required for environmental clearance associated with funding through WIFA. Following the review by WIFA, the document will be forwarded to agencies for a 30-day review, after which a separate 30-day public comment period will commence.

E&T22 Well Replacement – Land acquisition activities continue while staff finalizes the well equipping design. The electrical design is being completed by the District’s as-needed design consultant. Staff have been negotiating a scope and fee proposal using a City of Tucson Job Order contractor. Site grading, concrete pads, retaining wall, and fencing is proposed as the first phase of improvements and will be considered by the Board at the November meeting.

Ironwood Well – The District’s well drilling contractor has completed the drilling and construction of the Ironwood Well. Pump development and the constant discharge testing will occur in November. All work by the drilling contractor should be completed by the end of November. The well collector pipeline was approved by Pima County and was included in the bid set for NWRD Metro-only pipeline. Bids are due November 27, 2023.

New Linda Vista Well Deepening – The 12-inch screen was installed in the New Linda Vista well to a depth of 800 feet below land surface in early August. The drilling contractor has completed work on the New Linda Vista site. Brush and bailing work will be performed by the District’s pump equipment contractor. After the pump contractor performs the well maintenance, a sanitary seal and new monument will be constructed. Once the monument is completed, the contractor will begin re-equipping the well to bring it back into service.

Galvanized Pipe Replacement

Burton Drive: Staff is revising the design layout for Burton Drive to minimize pavement replacement. The plans are anticipated to be submitted to Pima County for review in late November. Once complete, the project will replace approximately 1,400 feet of 2” steel pipeline.

Rose Marie Lane: Survey work commenced and is anticipated to be completed by the end of December 2023. Staff will begin design activities once survey work is completed. This project is anticipated to replace approximately 600 feet of 2” galvanized pipeline.

The Board should feel free to request any additional information that it would like to see on this report. Staff is prepared to discuss any questions that the Board may have regarding this report.

Respectfully Submitted,

Joseph Olsen, P.E.
General Manager