

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

October 16, 2019

Monthly Status of the District – September 2019

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.

August 2019 Report

Water Usage/Quality

Amount of Water Consumed in Metro Main

FY 2020 Year to Date – 670,826,800 gallons

FY 2019 Year to Date – 640,116,800 gallons

Amount of Water Consumed in Metro Hub

FY 2020 Year to Date – 84,014,900 gallons

FY 2019 Year to Date – 81,487,200 gallons

Amount of Water Consumed in Metro Southwest

FY 2020 Year to Date – 43,836,800 gallons

FY 2019 Year to Date – 39,990,100 gallons

Revenue Metered Sales Billed in September 2019 – Grand Total \$1,729,280.57

Metro Main – \$1,475,866.13

Metro Hub – \$150,107.91

Metro Southwest – \$103,306.53

Prior Year Revenue Metered Sales Billed in September 2018 – Grand Total \$1,669,404.76

Metro Main – \$1,429,127.70

Metro Hub – \$147,868.68

Metro Southwest – \$92,408.38

Water Quality Samples

82 Microbiological samples taken from the distribution system.

32 Microbiological samples taken from the District's active wells.

63 Lab/field test samples for VOCs, IOCs, DBPs, Nitrate, 1,4-Dioxane, Perfluorinated Chemicals, Hexavalent Chromium, Arsenic, and UCMR-4.

System Maintenance

Noteworthy Maintenance Projects and Major Repairs in September 2019:

1. Drained and inspected the Hardy storage tank.
2. Performed well jetting on the Riverside well.
3. Repaired A/C unit on VFD 1 at Magee La Cholla.
4. Repaired four fire hydrants due to damage or operational issues.
5. Replaced leaking poly service line on Old Nogales Highway.

Valves Exercised – 45

Meter Replacements – 28 – 5/8” meters; 1 – 1” meters

Meters Tested – 0

ERTs Replaced – 0

New Meter Applications – 32 total

Metro Main – 28

Metro Hub – 0

Metro Southwest – 4

Customer Accounts

Total Customers Billed – 21,109

New Accounts – 241

Delinquent Accounts – September 2019

Initial Shut Off Notices – 838

Final Shut Offs – 130

High Consumption Contacts – 91

Service Orders & Work Orders On's and Off Order Requests – Total performed: 436

Service Orders (generated from customers calling in with a problem):

Metro Main – 39

Metro Hub – 67

Metro Southwest – 38

Work Orders (generated by staff when a need to perform additional work is recognized):

Metro Main – 23

Metro Hub – 3

Metro Southwest – 0

Meter On's and Off Order Requests – September 2019

Metro Main – 231

Metro Hub – 3

Metro Southwest – 32

Water Sustainability Projects

2019 CAP Storage – All of the City of Phoenix’s 3,500 acre-feet (AF) of water has been delivered to AVR. All of the District’s deliveries to AVR are also complete, and staff are now scheduling routine maintenance on the facility. Four hundred AF has been stored at Tucson Water’s SAVSARP, with 100 AF remaining through the balance of this calendar year. A total of 10,295 AF of the District’s water order has been delivered to groundwater savings facilities partners with 1,105 AF remaining for the calendar year.

South Shannon Treatment System Reimbursements – Since 2000, \$1,237,451.13 has been reimbursed by the Arizona Department of Environmental Quality (ADEQ). For Fiscal Year 2020, ADEQ has a budget of \$57,719.00 for operations and sampling of the South Shannon Treatment System. An invoice for September 2019 will be submitted in mid-October.

Avra Valley Recharge Project (AVR) – A technical design report and a description of the work to be performed on the AVR facility is being prepared by Staff for submittal to the Arizona Department of Water Resources (ADWR) for a Director’s Modification to the current permit for new water measuring infrastructure. The civil design work for the civil engineering improvements planned for the AVR facility have been completed. Some SCADA and native plant survey work still needs to be completed before a bid package can be prepared. Construction work on the facility’s improvements is anticipated to occur in Fiscal Year 2021 between January and June of 2021. These improvements, when completed, are projected to bring the operational recharge capacity up to or near the 11,000 AF permit capacity.

Capital Improvement Program & Other Major Projects

Northwest Recharge, Recovery, and Delivery System (NWRDS) – Easement acquisition is ongoing. The following summarizes the status of immediate possession as approved by the Board:

- APN 216-32-025A and 216-32-028A: Mediation was held on September 23, 2019. A settlement was not reached and legal counsel is preparing for trial.

Work associated with Package 1A: Clearing, Grubbing and Fence Installation is complete. Staff prepared a draft access easement for BKW to utilize the District’s access road, which will be presented to the Board for consideration at a future meeting. Staff is also coordinating with the Town of Marana regarding an easement for BKW across an adjoining easement provided to the District by the Town.

Field work associated with Package 1B: Exploratory Well Drilling is complete, and pumping test and water quality sampling results are being analyzed. A report detailing the results will be completed this Fall. This report will be the basis for the design of the three production wells planned for construction in Fiscal Year 2021.

ADWR is continuing their review of the recovery well permit application.

Various Technical Memoranda related to the preliminary design of the transmission main are being finalized. Partner comments regarding the design plans are being incorporated by the District's consultant. District staff is preparing documents and a proposed evaluation matrix for solicitation of design consultants for the final design of the Transmission Main. Solicitation documents and the evaluation matrix will be presented to the project Partners for input.

Partner comments regarding the preliminary design of the Forebay and the conceptual layout of Partner booster facilities are being incorporated by the District's consultant.

A Technical Group meeting was held on September 17, 2019 and the next meeting will be on October 15, 2019. A meeting with the NWRDPS Partners was held on September 12, 2019. The next meeting with the Partners is scheduled for October 10, 2019.

Metro Main Recharge Recovery Transmission Main – The District's consultant has completed the record of survey along with the topographic and culture surveys. The consultant is updating the record of survey to reflect previously-existing District easements prior to recording the final document. Staff is continuing design work on the transmission main between the Forebay reservoir and the Herb Johnson reservoir.

Staff has suggested alternatives for coordinated construction of a portion of the District's transmission main where it parallels proposed pipelines by the Town of Marana and the Town of Oro Valley, roughly between the Forebay and Blue Bonnet Road. Final review by the Partners is pending.

RTA Waterline Relocation – La Cholla Blvd: Overton Road to Lambert Lane – The Town of Oro Valley's roadway contractor is proceeding with adjustments and the removal of waterlines necessitated by the RTA roadway improvement as authorized by the Intergovernmental Agreement executed in April 2019. Staff is participating in construction meetings and is working with the contractor to identify District facilities and resolve potential conflicts.

RTA Waterline Relocation – Valencia Road Valve and Meter Adjustments – Pima County's roadway contractor is proceeding with adjustments and the removal of waterlines necessitated by the RTA roadway improvement as authorized by the Intergovernmental Agreement executed in December 2017. Staff is working with the contractor to identify District facilities and resolve potential conflicts.

ADOT Oracle Road Pavement / Drainage Upgrades – The Arizona Department of Transportation (ADOT) is continuing design of its pavement and drainage upgrades, which will impact District facilities in the vicinity of Oracle Road between Orange Grove Road and Ina Road. A design kickoff meeting with the District's design consultant was held October 3, 2019, and contract documents are being finalized. Construction of the roadway improvements are anticipated to begin in the Fall of 2020. Design services must be completed in Fiscal Year 2020 to allow for bidding and award of a construction contract by July 2020.

2nd Herb Johnson Reservoir – Staff and the District’s consultant received concurrence from Pima County regarding environmental mitigation. Coordination with the land owner is continuing.

Old Nogales Highway Mainline Replacement – The preconstruction meeting with the District’s contractor was held September 19, 2019. The contractor is anticipating beginning field work in late October 2019.

E&T 22 Well Replacement – The District’s design consultant began survey field work. Following completion of the initial site plan and identification of necessary easements, staff will resume discussions with the District’s as-needed property acquisition consultant regarding a potential property swap.

Often when a replacement well is drilled, the active on-site well being replaced must be shut down to keep from drawing drilling fluids into the potable system. In order to minimize impact to the E&T system’s production during the high-demand season, staff are looking into delaying drilling from June/July 2020 until October 2020. Additionally, staff are investigating leveraging the Old Nogales Highway mainline that will be abandoned as part of the Old Nogales Mainline Replacement project for well flushing.

Diablo Village Service Line Replacement – Staff is evaluating existing utility information in preparation for preliminary design.

Pantano Road Transmission Main – Staff has requested a proposal from the District’s as-needed design consultant for necessary design updates for final design. The Board will be requested to consider the resulting proposal at a future meeting.

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