

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

**September 12, 2011**

**Monthly Status of the District – August 2011**

**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 2011 Report**

**Water Usage/Quality**

Amount of Water Consumed in Metro Main

Month of August 2011 – 226,261,200 gallons

Same period last year – 255,990,800 gallons

Month of July 2011 – 279,155,900 gallons

Amount of Water Consumed in Metro Hub

Month of August 2011 – 28,234,000 gallons

Same period last year – 29,536,600 gallons

Month of July 2011 – 31,820,700 gallons

Amount of Water Consumed in Metro Southwest

Month of August 2011 – 9,971,200 gallons

Same period last year – 9,297,679 gallons

Month of July 2011 – 11,416,500 gallons

Amount of Water Recharged at AVRP

Month of August 2011 – 226,904,555 gallons

Same period last year – 113,721,999 gallons

Month of July 2011 – 227,536,844 gallons

Revenue Metered Sales Billed in August 2011 – Grand Total \$ 1,364,771.73

Metro Main – \$ 1,170,544.80

Metro Hub – \$ 135,324.34

Metro Southwest – \$ 58,902.59

Last Year Revenue Metered Sales Billed in August 2010 – Grand Total \$ 1,393,179.86

Metro Main – \$ 1,204,306.07  
Metro Hub – \$ 129,715.51  
Metro Southwest – \$ 59,158.28

#### Water Quality Samples

- 79 Microbiological samples taken from the distribution system.
- 32 Microbiological samples taken from the District's active wells.
- 80 Lab/field test samples for arsenic, nitrate, IOC's, metals, copper and lead, TTHMs and HAA5, and VOCs.

#### Status of Compliance with Regulatory Requirements

District is in compliance with its regulatory requirements.

#### **System Maintenance**

##### Noteworthy Maintenance Projects and Major Repairs in August 2011:

1. Pulled Jensen Well for repairs.
2. Completed check valve replacement on DV1 booster.
3. Replaced service lines on Cerrada Veracruz and Larrea.
4. System shut downs for water main relocations for road projects.
5. Replaced Lattamore PLC processor.

PRV Inspections – 81

Valves Exercised – 0

#### Meter Replacement Program

Meters Replaced – 5  
Meters Rebuilt – 0  
Meters Tested – 5

New Meter Installs – 4

#### **Customer Accounts**

Total Customers – 19,790

Turn-on for New Accounts – 239

#### Delinquent Accounts – August 2011

Initial Shut Off Notices – 985  
Final Shut Offs – 104

High Consumption Contacts – 12

Service Orders & Work Orders – Total performed: 60

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

Metro Main – 41

Metro Hub – 10

Metro Southwest – 3

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

Metro Main – 6

Metro Hub – 0

Metro Southwest – 0

### **Hydrology Projects**

**Effluent Recharge Projects** – Hydrology staff continues working separately on two of four constructed recharge projects, so the District can earn 100% in recharge credits instead of 50% through the Santa Cruz River Managed Effluent Recharge Project. The recharge projects would be cooperative with different partners. One project is with the Bureau of Reclamation, and the other with a local farmer. Discussions with the farmer have progressed.

**Magee Trail Well** – The District issued a notice to proceed to Arizona Beeman Drilling on July 20, 2011. Arizona Beeman completed the pilot borehole on August 11, 2011. After some down time waiting for well casing and filter pack to be delivered, Beeman completed the reamed borehole to 1,000 feet on September 1<sup>st</sup>. Casing and filter pack were installed and well development started over Labor Day weekend. Further details and a more up-to-date summary can be provided at the Board meeting.

**Recovery Wells** – Hydrology is awaiting comments on a recovery well agreement for the recovery of CAP water and effluent credits from the Avra Valley Recharge Project.

**AVRP Modification** – On August 23, 2011, work was completed on modifying Basin 4. The modification cost was \$10,000 out of the \$25,000 budget or \$500 per boring. Staff will begin testing to see if the borings increase the basin's infiltration rate.

**South Shannon Treatment System** – As of August 23, 2011, approximately 34 million gallons of water has been treated since the fifteenth carbon change-out on June 24, 2011. 1.016 billion gallons of water has been treated by the treatment system since its start up in July 2006. For calendar year 2011, a total of \$41,955.98 has been received from ADEQ. Since 2000, \$622,496.33 has been reimbursed from ADEQ.

### **Capital Improvement Program & Other Major Projects**

**Magee Road, Shannon Road to Thornydale Road and Shannon Road Transmission Main** – Pima County plan approval obtained on August 25, 2011. Project bid to

commence on September 6, 2011 with construction contract award at the October Board meeting. Discussions with Tucson Water are continuing on reclaim water and potable water interconnects with a resolution necessary prior to the October Board meeting.

**La Cañada Drive ‘A’ Zone Transmission Main and Waterline Relocations, Ina Road to River Road** – The Board of Directors awarded the design of the La Cañada Drive ‘A’ Zone Transmission Main to HDR Engineering in July 2008. The contract was amended to include the design of the waterline relocation associated with road improvements. Pima County released plans for utility use in late August 2010. The District’s consultant submitted plans to Pima County in early January for their review/approval and comments received in February 2011. Final plans were submitted to Pima County in late March 2011 and comments were finally received in Mid-June 2011. After meeting with Pima County, the consultant addressed their comments and received final plan approval from Pima County on July 8, 2011. The bid process began on August 8, 2011 and bids are due on September 1, 2011. Construction contract award is scheduled for the September 12, 2011 Board meeting.

**Magee Road, Shannon Road to La Cañada Drive Waterline Relocations** – Plan approval was received on November 19, 2010 and the bid process began on November 23, 2010. Bids were received on December 29, 2010 and the construction contract was awarded to Innova Engineering on January 10, 2011. A pre-construction meeting was held on January 28, 2011 and a notice to proceed was issued for February 22, 2011. Construction is continuing. The first milestone completion, La Cholla Blvd. corridor, is required to be complete by May 31, 2011 but was not complete until late June 2011. The second milestone completion, Magee Road corridor from La Cholla Blvd. to Shannon Rd., is required to be complete by August 31, 2011.

**La Cholla Boulevard Waterline Relocations, Magee Road to Overton Road** – Final plans for utilities for the RTA project were received on November 2, 2010. Waterline relocation design plans were submitted to Pima County on March 29, 2011 and comments were received on April 25, 2011. Final plans were submitted to Pima County on June 3, 2011 and final comments were received July 1, 2011. Pima County plan approval was obtained on August 25, 2011. Bid process to commence in late September 2011 with construction contract award anticipated in late October 2011.

**Riverside Well Transmission Main** – The design contract was awarded to Westland Resources on February 14, 2011. A notice-to-proceed was issued on February 28, 2011. The consultant submitted 30% plans for review in mid-June 2011. District comments were returned to the consultant in late June 2011. The consultant submitted 60% plans for review in late July 2011 and District comments were returned to consultant in mid-August 2011. Design completion is expected in November 2011.

**Riverside Well Improvements** – Design of the well site improvements is being done by the District's Miscellaneous Design Consultant, EEC Engineering. Preliminary layout plans were submitted in April 2011.

**Fruchthendler Well Improvements** – A notice-to-proceed has been issued to the District's Miscellaneous Design Consultant, EEC Engineering, for the well site improvement design. Design currently on hold until consultant completes Magee Trail and Riverside Wells.

**Magee Trail Well Improvements (New Matter Well)** – A notice-to-proceed has been issued to the District's Miscellaneous Design Consultant, EEC Engineering for the well site improvement design. The consultant submitted 30% plans for review July 2011 and District comments returned to consultant. The consultant submitted 60% plans on August 29, 2011. District staff is currently reviewing. Final plans are due October 2011.

For additional information regarding this report, the Board can also refer to the more detailed reports from the Utility and Engineering Divisions. 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,

Mark R. Stratton, P.E.  
General Manager