

BOARD OF DIRECTORS
METROPOLITAN DOMESTIC WATER IMPROVEMENT DISTRICT
PIMA COUNTY, ARIZONA

August 9, 1993
5:00 P.M.
7493 North Oracle Road, Suite 219
Tucson, Arizona 85704

MINUTES

ATTENDANCE:

Members: Herb Johnson, Chairman
Jim Tripp, Vice-Chairman
Pete Schlegel, Member
Kate O'Rielly, Member - 5:05 p.m. - delayed due
to weather conditions
Alex Jacome, Member - 5:20 p.m. - delayed due
to weather conditions

Others Present: Charles Huckelberry, General Manager
Jane Rodda, Brown & Bain
Mark Stratton, MDWID Engineer
Steve Shephard, MDWID Employee
Scott Eisenfeld, MDWID Employee
Peter Livingston, CH₂M Hill
Rod Jackson, CH₂M Hill
Bill Carroll, Cella-Barr Associates
Jim DeGrood, Town of Oro Valley
Bud Dooley, MDWID Advisory Committee
Dan Offret, MDWID Advisory Committee
Michael Fleury, Camp Dresser and McKee, Inc.
Jim Peterson, Town of Oro Valley
Julie Johnson, MDWID Employee (recording
secretary)

A. CALL TO ORDER AND ROLL CALL

1. The meeting was called to order at 5:03 p.m. by Herb Johnson, Chairman of the Board of Directors. Jim Tripp and Pete Schlegel were present.
2. Jim Tripp moved that the Board approve the meeting notice and agenda for August 9, 1993, Pete Schlegel seconded and the motion passed unanimously.
3. Jim Tripp moved that the minutes of the July 12, 1993, meeting be approved, Pete Schlegel seconded and the motion passed unanimously.

B. COMMENTS FROM THE PUBLIC

Introduction of Guests.

At this time, 5:05 p.m., Kate arrived at the meeting. Mr. Johnson proceeded with the introduction of guests. Please refer to Attendance List on Page 1.

OLD BUSINESS

C. ITEMS FOR DISCUSSION AND POSSIBLE ACTION

1. Ratify Purchase of AT&T Merlin Legend Phone System for Paseo del Norte Based on Staff Analysis of Purchase Versus Lease Cost. \$14,662 Plus \$114 Per Month for System Maintenance, After the First Year.

Jim Tripp moved the Board accept the recommendations of staff, Kate O'Rielly seconded, and the motion passed unanimously.

NEW BUSINESS

D. ITEMS FOR DISCUSSION AND POSSIBLE ACTION

1. Administrative and Management

- A. Resolution No. 1993-1 Approving an Intergovernmental Agreement with Pima County for the Provision of Fuel and Maintenance for the Vehicle Fleet.

Mr. Huckelberry explained this intergovernmental agreement will be in addition to and is not designed to supplant the existing intergovernmental agreement with the Town of Oro Valley. He also indicated the copy of the intergovernmental agreement provided to the Board in their packages is slightly different than the one to be approved, with slight modifications made by the attorneys. Mr. Tripp moved that Resolution No. 1993-1 be adopted, Mr. Schlegel seconded, and the Resolution, with modifications, was approved unanimously.

- B. Resolution No. 1993-2 Regarding the United States Conference of Mayors Deferred Compensation Program Establishing a Tax Deferred Benefit Program for District Employees.

Mr. Huckelberry expanded on his memorandum to the Board, explaining the Program and indicating he will be the Plan Administrator for the District. Mr. Tripp moved that Resolution No. 1993-2 be adopted, Mr. Schlegel seconded, and the Resolution was adopted unanimously.

- C. Resolution No. 1993-3 Establishing Fees and Fines Associated with Meter Tampering or Direct Connection to a Water Service Line Without a Meter.

Discussion ensued on the amount of the fees and fines, and how they compare to other entities. It was decided the fees could be changed by the Board at a later date if deemed necessary. Mr. Tripp made a motion that Resolution No. 1993-3 be adopted, Kate O'Rielly seconded, and the Resolution passed unanimously.

- D. Resolution No. 1993-4 Establishing Monetary Fines for the Illegal or Unauthorized Use of District Water.

Mr. Huckelberry explained the differences between these fines and the fines addressed by Resolution No. 1993-3. Mr. Tripp made a motion to adopt Resolution No. 1993-4, Ms. O'Rielly seconded, and adoption of the Resolution was unanimously approved.

- E. Resolution No. 1993-5 Establishing Fees for District Review and Approval of Water Improvement Plans.

Mr. Schlegel inquired as to whether Alan Lurie of SAHBA had been consulted on these fees and although it was indicated that Mr. Lurie had not been consulted, Mr. Schlegel said he had no problem with the fees. Mr. Tripp made a motion to adopt Resolution No. 1993-5, Ms. O'Rielly seconded, and the Resolution was unanimously adopted.

- F. No Cost Memorandum of Agreement with the University of Arizona Department of Hydrology and Water Resources for the Purpose of Conducting an Isotopic Study Related to Groundwater and Imported Central Arizona Project Water.

Mr. Tripp made a motion authorizing the Chairman to sign the Memorandum of Agreement, Mr. Schlegel seconded, and the motion carried unanimously.

- G. Procedure for Billing Adjustments or Small Damage Claims.

Mr. Tripp made a motion that the procedure as outlined in the report be accepted, Ms. O'Rielly seconded, and the motion carried unanimously.

2. Engineering and Planning

- A. Water System Management Plan - Review Scope of Work with Staff and, if Acceptable, Authorize Chairman to Sign Consulting Contract with Camp, Dresser & McKee.

Mr. Huckelberry pointed out that the Water System Management Plan which will determine what physical improvements are necessary to the water system, uses two fundamental alternatives regarding future water supply. The first assumes that future water supply remains groundwater, and the second assumes that the Northwest Water Agreement is in place and the District will receive CAP water from the City of Tucson. Results of the study will be used to develop a Capital Improvement Program with three fundamental improvements, those being: 1) common needed improvements, 2) improvements based on groundwater future supply, and 3) improvements based on a future CAP supply. Mr. Stratton indicated that this study will not look at the hydrogeological aspects of the basin, but only at infrastructure needs and ways for system improvement.

Mr. Johnson clarified that the study will be accomplished in conjunction with the Town of Oro Valley. Mr. Stratton indicated that the same review committee that selected the consultant has agreed to participate on a technical advisory committee to review the work as it progresses.

Mr. Jacome arrived at the meeting at 5:20, at the end of discussion on this item. Mr. Tripp made a motion to authorize the Chairman to sign the consultant contract with Camp, Dresser & McKee, Ms. O'Rielly seconded the motion, and the motion carried on a vote of 4 to 1, with Mr. Jacome opposing.

- B. Water Storage Tank Structural Survey - Report by CH₂M Hill - Review and Accept Report as well as Provide Direction to Staff on Report Results.

Mr. Johnson began discussion on this item, indicating that further analysis will be required by staff to prevent repair work to tanks that may be obsolete based on the Water System Management Plan. Mr. Stratton indicated that the report provided to the Board did not include all of the appendices and photographs taken, but that he did have them if the Board wished to review them.

At this time, a presentation was made by Rod Jackson of CH₂M Hill, detailing how analyses were accomplished and summarizing their findings. He indicated that all tanks were structurally sound with the exception of "Marlene", and that the District should take action to drain, inspect and repair "Marlene". Also, they determined that six other tanks should be drained and inspected for various reasons. Other major problems include: 13 tanks need work on protective coatings; 13 tanks need work in the ladder and safety cage area; and in some tanks there was scum on top of the water. It was suggested the District develop

a plan for cleaning those tanks. Another concern expressed was location of electrical wires and the safety hazard created by same.

Mr. Jacome questioned why "Marlene" is in its present condition, and for how long. Mr. Jackson reiterated that draining and thoroughly inspecting the tank would better answer those questions.

Mr. Jacome asked what type of preventive maintenance program could be implemented. Mr. Jackson indicated the main thing to do is to get the protective coatings in order, and then periodic cleaning to remove sand and scum, perhaps once a year, when water use levels are low.

Mr. Tripp asked if the tanks, due to their present conditions, would last until a non-peak time. Mr. Jackson indicated the only one they are concerned about in the short-term is "Marlene". Mr. Schlegel discussed divers inspecting "Marlene", to which Mr. Jackson responded it would be a good idea, if we could not drain the tank at this time. Mr. Stratton indicated there needed to be some disinfection after a diver goes in. Mr. Jackson also mentioned the expense of using divers, as well as the accuracy limitations encountered in assessments that divers make.

It was mentioned that other tanks could possibly be used as supplements while "Marlene" is being drained and inspected. Mr. Tripp inquired on the length of time an inspection takes. Mr. Jackson indicated that an inspection could be accomplished in one day, but that the time element involved is with draining and providing alternative service. Also, the time would depend on the extent of repairs that would have to be made.

Mr. Schlegel again mentioned that a diver should be used. He asked if Mr. Stratton was comfortable with the assumption that the tank could not be drained at this time. Mr. Stratton indicated he would rather discuss the options with Mr. Dave Tanner. Mr. Johnson asked for a staff report detailing how long it might take to provide service to customers in the event of a failure, and Ms. O'Rielly inquired as to the number of people who would be affected.

Mr. Michael Fleury asked if addition of cathodic protection was included as a recommendation in the report, to which Mr. Jackson indicated they had not because in most of the tanks the corrosion was most severe at the waterline and above, and on the bottom side of the roof, and those are areas where cathodic protection is least

effective. Mr. Fleury felt that when those tanks are inspected, severe pitting would be found below the water surface.

Mr. Fleury inquired whether any mill thickness testing had been done on the steel on "Marlene" to determine what the leaking area looks like on the outside. Mr. Jackson indicated an ultra-sonic fitness gauge determined significant metal loss in that area. Mr. Fleury mentioned welding a plate around the bottom exterior of the tank to prolong its service capabilities to a non-peak time. Mr. Jackson indicated there have already been plates welded to the tank, as well as boiler plugs inserted into the wall of the tank.

Mr. Huckelberry suggested that the Board accept the report and direct staff to come back with an action plan that will address the emergency nature of "Marlene" and the conclusions contained in the report, and a scope of work needed to accomplish the recommendations of the report, as well as include a preventive maintenance program. Mr. Jacome made that motion, Pete Schlegel seconded, and the motion carried unanimously.

3. Operations and Maintenance

A. Meter Replacement Program - Update on Present Program and Provide Direction to Staff.

Mr. Huckelberry indicated that staff needs interim direction on completion of the Meter Replacement Program and that those supplies ordered previously without a purchase order must still be purchased. He recommended that the residential Meter Replacement Program should be done internally as opposed to contracting, and that we develop a program that would replace intermediate size, 1½ inch to 2 inch, meters either through contract or internally. Mr. Tripp moved to authorize the three recommendations listed in the staff report, Ms. O'Rielly seconded, and the motion was passed unanimously.

B. Backflow Prevention Program - Report from Staff Regarding Program Development and those Actions of the Board Necessary to Implement the Program.

Mr. Huckelberry indicated this is merely an update for the Board on our Backflow Prevention Program. He informed the Board that the previous draft ordinance is being rewritten in correct legal format and would be brought back to the Board in September. Documents will be drafted for Board review which provide notice to customers and businesses rationalizing the expenses involved with the legal

requirements imposed by Arizona law. He advised the Board that Mr. Steve Shepard is preparing a calendar of events in order to be in compliance by July 1, 1994. Mr. Mark Stratton apprised the Board that there have been heated discussions between Tucson Water and various fire departments, and the Tucson City Council is now becoming involved in discussions regarding certain elements of the Backflow Prevention Program. The State Department of Environmental Quality maintains that Class 1 and Class 2 fire sprinklers do require backflow prevention devices, but the level of device may be diminished if other criteria are followed to ensure the water meets drinking water standards.

Mr. Stratton indicated the Attorney General's Office has determined that a political subdivision could provide a loan program for items which govern public health and safety, and the Backflow Prevention Program has been included in that. Mr. Schlegel asked that staff investigate funding options such as a loan program to reduce the immediate cash outlay impact on business required to comply with the Program and include such in a future report.

4. General Manager and Staff Report

A. Action Regarding EPA Notice on Lead and Copper Tap Water Monitoring.

No exceedances of prescribed Federal concentration limits were recorded with the exception of one sample in the Tucson Water data. Based on the low number of exceedances, no follow-up actions are required other than to continue monitoring at a reduced frequency.

B. County Camino del Cerro Water Quality Sampling.

Based on County action over the Camino del Cerro landfill, District staff will initiate full inorganic, synthetic organic, and volatile organic groundwater quality monitoring every year for those wells which are closest to the Camino del Cerro landfill.

C. Energy and Power Conservation.

Interruptible power in certain areas may be implementable if system storage is increased. The savings alone through conversion from uninterruptible to interruptible power represent a 35 percent energy cost savings. In addition, various other actions are being explored with the Cortaro Marana Irrigation District, who has an allocation of preference power from the Arizona Power Authority.

D. Water Conservation Program.

The District will now have a representative on the Tucson Regional Conservation Committee, which consists of representatives of the various utilities in the Tucson area, the University of Arizona, and the Arizona Department of Water Resources.

E. Organizational Design and Development.

One item that elicited Board discussion was Organizational Design and Development and, in particular, the District Hydrologist position. Mr. Jacome mentioned that the University of Arizona has an intern program to assist in areas such as hydrogeological studies. Mr. Huckelberry indicated that the District should have a professional on staff to coordinate various hydrogeological and technical studies as well as Arizona Department of Water Resources and Arizona Department of Environmental Quality reports and such interns and consultants would be used to assist the District Hydrologist.

F. Ina and Paseo del Norte Office Renovation and Development.

Regarding Paseo del Norte office renovation, Mr. Huckelberry advised the Board members that we would be asking them to consider a special meeting to award a contract for the modular building to ensure the modular will be ready when the main building is.

G. Emergency Repairs and Action.

Emergency repairs anticipated to cost in excess of \$1,000 per occurrence will be reported to the Board each month. Causes of the emergency repairs were discussed, i.e. fire hydrant testing and the unauthorized use of water.

H. Construction Activity - Relocation and Water Main Extensions.

Mark Stratton gave an update on the Shannon Road construction. Projects to begin within the next month are the Sunnyvale development, Casas Adobes Terrace, and the Hardy Road extension for Sunnyvale.

I. Expansion to District and Additional Service Areas.

The Oro Valley Town Manager was informed that the Metro Water District will provide water to Saddle Valley, but that arrangements should be made to include it in the Oro Valley No. 1 Domestic Water Improvement District. Documentation is being prepared to include Casas Adobes Terrace in District boundaries.

J. Sewer User Fee Billing for Pima County.

Staff has forwarded a proposal to the Pima County Wastewater Management Department to perform sewer user fee billing and collection for Metro Water District customers.

K. Update on Deposits, Checks, Warrants and Projected Expenditures.

Mr. Tripp made a motion to approve the item, Ms. O'Rielly seconded, and the motion carried unanimously.

L. Update on Northwest Water Alliance Meeting of August 5, 1993.

Mr. Jacome initiated discussion regarding the Northwest Water Alliance meeting report since Rancho Vistoso is a key member of the alliance. Mr. Jacome was concerned about the forthcoming Rancho Vistoso bankruptcy and auction, and Citizens Utility being one of the bidders. He is in favor of pursuing some action on this subject. Mr. Huckelberry was directed to investigate and bring a written report back to the Board on this subject.

E. ADJOURNMENT

Mr. Tripp moved that the open session of the Board Meeting be adjourned, Ms. O'Rielly seconded, and the meeting adjourned at 6:24 p.m.



CHAIRMAN

ATTEST:



CLERK