

7-12



MWD

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

January 12, 1998

To: Board of Directors (Executive Committee--Action)
(Special Committee on Water Quality, Desalination, and
Environmental Compliance--Information)

From: *for* General Manager

Edward L. Mees

Mark D. Beuhler

Submitted by: Mark D. Beuhler
Director of Water Quality

Subject: Thirteenth Year of Voluntary Research Subscription Program--American Water
Works Association Research Foundation

RECOMMENDATION

It is recommended that the Board authorize the General Manager to make a payment of \$400,000 to the American Water Works Association Research Foundation (AWWARF) as Metropolitan's contribution to fund AWWARF's applied research programs for the calendar year 1998.

EXECUTIVE SUMMARY

AWWARF has asked Metropolitan to participate in the thirteenth year of its Voluntary Research Subscription Program. The amount requested for the calendar year 1998 is \$400,000. This amount has not increased from last year's contribution. Metropolitan's contribution, along with contributions from other water utilities and consulting firms, will be used to fund critical applied research projects in the drinking water field. Currently, Metropolitan's Water Quality Division has been awarded \$1,016,500 in grant money from AWWARF to be distributed over the next few years (attachment).

DETAILED REPORT

AWWARF has asked Metropolitan to participate in the thirteenth year of its Voluntary Research Subscription Program. The amount requested for the calendar year 1998 is \$400,000. This amount has not increased from last year's contribution. Metropolitan's contribution, along with contributions from other water utilities and consulting firms, will be used to fund critical applied research projects in the drinking water field.

AWWARF is a non-profit corporation which was established in 1967 to promote, coordinate, and finance applied research in the operation and management of public water supply systems. Currently, AWWARF has 951 utility subscribers, 55 consulting firm subscribers, and 16 manufacturers.

Applied research topics funded by AWWARF address key problems identified by the water industry and provide essential information for impacting the development of drinking water regulations. This research is critical for the implementation of the "good science" requirement for new regulations contained in the Safe Drinking Water Act of 1996.

Metropolitan and its member agencies have benefited from AWWARF's program in a number of areas, including the Information Collection Rule; the Disinfectants/Disinfection By-Products (D/DBPs) Rule; the Enhanced Surface Water Treatment Rule; taste-and-odor-control strategies; and detection and treatment of microbial pathogens. Specifically, AWWARF has funded \$5 million on arsenic research, \$47 million on microbials and DBPs, and \$23 million on *Cryptosporidium*, which are critical to Metropolitan and its member agencies.

Utility contributions are based on \$1.7 per million gallons delivered per year, with credits given for water purchased from subscribing wholesalers and water sold wholesale. Therefore, Metropolitan covers part of the funding of AWWARF for some of our member agencies that are AWWARF's utility subscribers.

Adequate funds for one-half of the proposed \$400,000 contribution have been budgeted for fiscal year (FY) 1997/98 because payments must be made on a calendar-year basis. If this recommendation is approved by your Board, the other half of the proposed \$400,000 contribution would be included in the FY 1998/99 budget. The proposed contribution is categorically exempt from the California Environmental Quality Act because it involves only feasibility and planning studies.

JSS/RLW/mi

Attachment

a\brdltr\awwarf97.doc

Attachment

Grant that Metropolitan has Received from AWWARF

Project	Granting Agency	Project Duration	Funding Amount	MWD Amount
Assessment of Molecular Epidemiology of Waterborne <i>Cryptosporidium</i> with Respect to Origin	AWWARF	12/96 - 12/98	\$240,000	\$165,000
Colonization of Biologically Active Filter Media with Pathogens	AWWARF	1/96 - 6/97	\$149,800	\$47,000
<i>Subtotal for Microbiology Branch</i>			\$389,800	\$212,000
Characterization of the Polar Fraction of NOM with Respect to DBP Formation	AWWARF	9/97 - 8/99	\$250,000	\$72,000
Formation, Occurrence, Stability and Dominance of Haloacetic Acids and Trihalomethanes in Treated Drinking Water	AWWARF	9/97 - 8/99	\$250,000	\$30,000
Distribution Generated T & O Phenomena	AWWARF/ UKWIRG	1/97 - 2/2000	\$375,000	\$145,000
Assessment of Blue-Green Algal Toxins in Raw and Finished Waters	AWWARF	12/95 - 10/97	\$200,000	\$20,000
Case Studies of Modifications of Treatment Practices to Meet the New D/DBP Rule	AWWARF	9/96 - 7/98	\$150,000	\$82,000
Health Effects of Disinfectants and Disinfection By-Factors Affecting Disinfection By-Product Formation During Chloramination	AWWARF	11/97 - 10/98	\$50,000	\$10,000
	AWWARF	6/93 - 8/96	\$250,000	\$48,000
Analytical Chemistry of Arsenic in Drinking Water	AWWARF	8/93 - 6/96	\$150,000	\$35,000
Strategies to Control Bromide and Bromate	AWWARF	11/94 - 2/97	\$150,000	\$25,000
<i>Subtotal for Chemistry Branch</i>			\$1,825,000	\$467,000
Arsenic Treatability Options and Evaluation of Residuals Management Issues	AWWARF	4/95 - 8/97	\$300,000	\$25,000
Optimizing Filtration in Biological Filters	AWWARF	1/96 - 4/98	\$350,000	\$100,000
A Comparative Study of Non-Thermal Technologies for Salinity Removal	AWWARF	2/98 - 9/99	\$100,000	\$65,000
Filter Operational Effects on Pathogen Passage	AWWARF	1/98 - 3/2000	\$400,000	\$147,500
<i>Subtotal for Purification Branch</i>			\$1,150,000	\$337,500
<i>Total for Water Quality Division</i>			\$3,364,800	\$1,016,500