



**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

7-8

June 22, 1994

(Water Problems Committee--Action)  
(Organization & Personnel Committee--Action)  
*To:* Board of Directors (Special Committee on Water Quality &  
Environmental Compliance--Action)  
*From:* General Manager  
*Subject:* Authorization to Enter into an Agreement for \$260,000  
with CH2M Hill to Study the Impacts of New Water Quality  
Regulations on Groundwater Production

Report

Changes in federal and state drinking water regulations may impact groundwater production and management strategies within Metropolitan's service area (see attached list). As more stringent regulations come into effect, Metropolitan may experience an increase in demand for its imported water and an increase in requests for Groundwater Recovery Program financial assistance.

Given the regulatory schedule, it is appropriate that Metropolitan take action, in concert with member and local agencies, to initiate an investigation into the impacts that these regulations may produce. The results will be useful in influencing regulations, assessing Metropolitan's groundwater programs, and water supply planning.

A water quality impact study is proposed to: assess the amount of groundwater production affected by the new rules; determine probable local responses, including cost to achieve regulatory compliance; and assess potential water supply demand changes for Metropolitan.

A Workgroup was formed to combine the efforts of staff, member agencies, and other pertinent groundwater interests. The Workgroup was charged with defining the scope of work, selecting the consultant, and reviewing the work.

Metropolitan publicly advertised the study under Request for Proposal No. WQ-9401 (RFP). Nine proposals were received in response to the RFP. Four consultants were selected for interviews based on the proposals. CH2M Hill is recommended as the consultant for the study based on the review of written proposals and oral interviews. CH2M Hill was judged the most qualified on the basis of experience

in the specialized areas, technical approach, project team qualifications, and minority and women-owned business enterprise (MBE/WBE) participation.

The fee schedule for CH2M Hill to perform this work is included (attached). The maximum amount payable to CH2M Hill for this investigation would be \$260,000. Funds are available in the fiscal year 1994-95 Operations and Maintenance budget to conduct the study. At a minimum, CH2M Hill will be expected to: review federal and state regulations for their impact on groundwater production; evaluate which management strategies will be selected by representative local agencies and costs associated with those choices; gather the necessary water quality data to conduct the study; evaluate representative treatment technologies for achieving compliance with the regulations; provide a final report describing the work and findings; and make presentations to Metropolitan staff, member and local agency representatives.

CH2M Hill has an ongoing Affirmative Action Plan which Metropolitan has on file. CH2M Hill has included MBE subconsultant Psomas and Associates to provide data compilation and analysis, MBE subconsultant Hector Gonzalez and Associates to provide data acquisition and engineering, and WBE subconsultant Vigil Enterprises to provide project administration. Collectively, MBE/WBE subconsultants are expected to perform about twenty-five percent of the work. Applied Decision Analysis, a subconsultant which is not a MBE/WBE, will provide technical support for decision modeling.

Approval for funding the subject study is exempt from the California Environmental Quality Act.

#### Board Committee Assignments

This letter is referred for action to:

The Water Problems Committee because of its responsibilities related to the underground storage of water and the use thereof pursuant to Administrative Code Section 2481(i).

The Organization and Personnel Committee because of its jurisdiction over the terms and conditions of employment of consultants pursuant to Administrative Code Section 2471(g).

The Special Committee on Water Quality and Environmental Compliance because of its authority to consider the effect on the District of existing and proposed federal water quality and environmental statutes and regulations pursuant to Administrative Code Section 2551(a), (c).

Recommendation

**WATER PROBLEMS, ORGANIZATION & PERSONNEL, AND SPECIAL COMMITTEE ON WATER QUALITY AND ENVIRONMENTAL COMPLIANCE FOR ACTION.**

That the General Manager be authorized to enter into a contract with CH2M Hill, in a form approved by the General Counsel, for a groundwater impact study in accordance with the terms of this letter.

John R. Wodraska  
General Manager

By: Debra C. Man  
Debra C. Man  
Chief of Planning/Resources

Concur:

J R Wodraska  
John R. Wodraska  
General Manager

LA:bvf

Attachments

## Regulations for Impact Study

- Total Coliform Rule. This regulation requires all public water supplies to be absent or nearly absent of coliform bacteria. To comply, groundwater supplies which were previously untreated may now require disinfection.
- Groundwater Disinfection Rule. This rule requires groundwater sources to be adequately disinfected or meet "natural disinfection" criteria. A disinfectant residual, or other approved measure, must be maintained in the distribution system.
- Disinfectants/Disinfection By-Products Rule. This rule is currently being developed and will include limits for disinfectant residuals and certain by-products of disinfectants.
- Radon Rule. The U.S. Environmental Protection Agency has proposed a 300 picocurie per liter limit for radon in drinking water. The final rule was expected by October 1993, but has been delayed.
- Arsenic Rule. A revision of arsenic's maximum contaminant level (MCL) is being developed. The current limit is 50 micrograms per liter ( $\mu\text{g/L}$ ). The new MCL may be in the range of 0.5 to 20.0  $\mu\text{g/L}$ .
- Surface Water Treatment Rule. The Surface Water Treatment Rule, which has been in effect since December 31, 1990, applies to groundwater under the influence of surface water. Anticipated changes to the Surface Water Treatment Rule will be more stringent in order to remove Cryptosporidium as well as Giardia and viruses which were addressed by the Surface Water Treatment Rule.
- Sulfate Rule. The U.S. Environmental Protection Agency was under a court order to promulgate a MCL for sulfate under the Phase 5 rule. Two alternative MCLs of 400 and 500 milligrams per liter were proposed. The regulation is expected by November 1994.

## FEE SCHEDULE

CH2M Hill  
Per Diem Charge Rates  
For Professionals and Technicians  
Schedule No. YW

<u>Classification</u>	<u>Hourly Rate</u>
Office	\$46.00
Tech Aid	41.00
Technician Grade 1	51.50
Technician Grade 2	62.25
Technician Grade 3	73.00
Technician Grade 4	84.00
Technician Grade 5	98.00
Professional Grade 0	64.75
Professional Grade 1	77.00
Professional Grade 2	83.75
Professional Grade 3	93.50
Professional Grade 4	106.50
Professional Grade 5	120.50
Professional Grade 6	134.75