

**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

July 22, 1992

*To:* Board of Directors (Engineering & Operations Committee--Action)  
(Organization & Personnel Committee--Action)

*From:* General Manager

*Subject:* Authorization of the San Gabriel Basin Groundwater Bench-scale Studies and Execution of an Agreement with James M. Montgomery, Consulting Engineers, Inc., to Conduct the Study

### Report

In May 1990, your Board authorized a study of the potential for conjunctive use of the Main San Gabriel Basin (Basin) to be conducted in partnership with local water agencies. The study focuses on means of developing additional water supply for Metropolitan's service area in a manner which is consistent with cleaning up contamination within the basin. The study includes identification of appropriate treatment technologies to remove contamination from the water extracted in a conjunctive use operation. Treatment is necessary to remove volatile organic contamination from extracted groundwater and may be necessary to remove nitrates and other contaminants.

Originally, staff planned to perform an extensive pilot-plant study to ascertain the optimal treatment processes for removal of the complex mix of contaminants found in the Basin. In July 1991, the Water Quality Division retained James M. Montgomery, Consulting Engineers, Inc. (JMM), to conduct the preliminary scoping study to identify alternative groundwater treatment processes for the pilot-plant study. The estimated total capitalized cost for the pilot plant work was approximately \$7 million over 40 months. However, due to time and budget constraints, staff subsequently adopted a phased design and construction approach for the San Gabriel Basin groundwater treatment plant. The phased approach consists of limited bench-scale studies for the design of an initial small-scale, 15-25 million gallons per day (MGD), groundwater treatment plant. This smaller facility, which would include a sidestream to perform on-line process optimization studies, will serve to confirm treatment performance and design parameters for use in design and construction of additional groundwater treatment modules, resulting in an ultimate plant capacity of 100 MGD.

In April 1992, your Board authorized Appropriation No. 637 for \$2,812,600, to finance all necessary engineering and environmental studies, including the proposed bench-scale studies, in advance of facility design. The bench-scale studies include the development of design parameters for a treatment plant, the employment of a process model to evaluate performance of treatment processes, and the development of information for California Environmental Quality Act (CEQA) compliance.

Based on experience in this specialized area, and the technical approach and project team qualifications, JMM was judged the most qualified of the seven consultants submitting written proposals and two firms that participated in oral interviews.

The proposed fee schedule for JMM to perform this work is listed in Attachment A. The ceiling on consultant fees and expenses would be set at \$505,000, with actual hourly salary rates times multiplier encompassing salary, overhead, and profit. The estimated time to complete the study is one year. JMM has an ongoing affirmative action plan which Metropolitan has on file.

The proposed study is exempt from the provisions of the CEQA because it involves only feasibility studies for possible future actions which the Board has not approved.

#### Board Committee Assignments

This letter was referred for action to:

The Engineering and Operations Committee because of its authority over the selection of engineering consultants pursuant to Administrative Code Section 2431 (h); and

The Organization and Personnel Committee to authorize the General Manager to enter a contract with a consultant under the terms and conditions specified in this Board letter pursuant to Administrative Code Section 2471 (f).

#### Recommendations

#### **ENGINEERING AND OPERATIONS AND ORGANIZATION AND PERSONNEL COMMITTEES FOR ACTION**

It is recommended that the General Manager be authorized to retain James M. Montgomery, Consulting Engineers, Inc., to conduct the San Gabriel Basin groundwater bench-scale studies

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and to execute a contract for services substantially on the terms outlined in this letter, and in a form approved by the General Counsel. The total fee for this work shall not exceed \$505,000, including expenses.

  
Carl Boronkay

SL:ra  
BOARD/AL6

Attachment

## Attachment "A"

### **Proposed Fee Schedule for James M. Montgomery, Consulting Engineers, Inc.**

<u>Classification</u>	<u>Hourly Rate*</u>
Senior Company Officer	\$45 - \$65
Principal Professional	\$26 - \$50
Supervising Professional	\$20 - \$33
Senior Professional	\$18 - \$30
Professional	\$16 - \$24
Associate Professional	\$14 - \$21
Assistant Professional	\$10 - \$17
Supervising Designer	\$19 - \$31
Senior Designer	\$15 - \$26
Designer	\$11 - \$20
Drafter	\$ 8 - \$15
Supervising Administrator	\$23 - \$37
Senior Administrator	\$13 - \$21
Administrator	\$ 8 - \$19
Secretary	\$ 9 - \$17
Typist	\$ 7 - \$13
Data Processor	\$ 8 - \$13
Reproduction Technician	\$ 7 - \$12
Clerk	\$ 7 - \$11

\* Rates are adjusted annually effective January 1st to reflect cost-of-living escalation.

Direct labor costs are billed at 3.36 times the hourly salary rate. Other direct identifiable costs including but not limited to travel, computer, communications, postage, freight, reproduction, and supplies are billed at actual cost plus 15 percent. Fees for outside services are billed at actual cost plus 15 percent.