

WEST BASIN MUNICIPAL WATER DISTRICT

OCTOBER 23, 2000

Prepared by: Richard Nagel

Submitted by: Richard Nagel

Approved by: Darryl G. Miller

INFORMATION CALENDAR

MODIFICATION TO SCOPE OF WORK — CH2M HILL

SUMMARY:

On March 17, 2000, the Board authorized a groundwater-modeling contract with CH2M Hill for a not-to-exceed amount of \$80,000. The “Scope of Work” was defined by the following tasks:

TASK	1	Refining Boundary Conditions	\$15,580
	2	Refining Chlorine Conditions	\$16,860
	3	Refining Model Grid	\$18,120
	4	Density PU	\$10,985
	5	Report Preparation	<u>\$18,260</u>
		Total	\$80,000

In order to meet various regulatory permit commitments, District staff has had to re-prioritize contract tasks to satisfy completing the Final Post-Audit Report and the 1999 Annual Flow and Transport Report. Knowledge of these permit commitments came to the attention of staff since the Water Resources Committee meeting on October 5 and therefore has not been reviewed by that Committee. The total contract amount will not increase. The new work will be accomplished by reducing the budgets of four existing task items.

The District’s Legal Counsel has reviewed and concurs with modifying the CH2M Hill’s “Scope of Work” based on the following criteria:

- The modified “Scope of Work” is similar in nature to the previous “Scope of Work” (modeling related activities).
- The total contract dollar amount will not change.

West Coast Basin Barrier Permit Amendments

In July, staff submitted a request to the Regional Water Quality Control Board (RWQCB) to amend the West Coast Basin Barrier Project permit. Three changes were requested:

1. Modify the annual flow and transport reporting frequency requirements from submitting a report every year to once every five years.
2. Change the product water pH limit; and
3. Modify the (Carbon Biochemical Oxygen Demand) CBOD reporting limit.

The flow and transport request was based on the knowledge that groundwater moves very slowly (1-3 feet per day) and that annual model runs are an impractical requirement. The

basis for the pH and CBOD modifications was to protect against possible permit violations. In concept, the RWQCB staff agreed with these proposed changes.

However, the Water Replenishment District (WRD) submitted written comments that were not supportive of West Basin's position to change the reporting frequency for the annual flow and transport item. This was based on a concern with the existing model's calibration.

To that end, staff requested RWQCB to withdraw the flow and transport reporting frequency modification. The RWQCB staff agreed and their Board subsequently approved the amended permit for pH and CBOD. This left District staff with an unexpected deadline to submit a flow and transport report this year. Staff formally requested a 60-day extension.

Staff also felt it was critical to meet with WRD and the United States Geologic Service (USGS) to discuss the differences between the West Coast Basin model and WRD's model developed by the USGS.

Contract Amendment

Therefore, on September, 18, 2000, staff recommended and the Board authorized an amendment to the CH2M Hill groundwater modeling contract for an amount not-to-exceed \$32,000, bringing the total contract amount to \$112,000. The following tasks were approved:

TASK	6	Refining Boundary Conditions	\$10,650
	7	Refining Chlorine Conditions	\$9,530
	8	Refining Model Grid	<u>\$11,490</u>
		Total	\$80,000

Staff then held two meetings among CH2M Hill, WRD, and USGS to review the modeling work. With an improved West Basin model calibration, the consensus was that both models met their intended objective.

Staff then met with the RWQCB to discuss the 60-day extension request. It was agreed the post-audit report would be submitted by October 31, 2000. However, the flow and transport report issue was unresolved. RWQCB also requested additional contour maps comparing observed to simulated groundwater levels.

Modified Scope of Work

Staff then met with CH2M Hill to review the existing task budgets and determine how the additional work could be covered within the existing contract. With Tasks 6 and 7 completed and under budget and, along with reducing the budgets for Tasks 4 and 8, a budget was available to create Task 9 -1999 Annual Flow and Transport Report, and Task 10 – Additional Contour Maps. This modification does not increase the contract amount. Listed below are the budgets for each of the previous eight Tasks and the modified budget that includes new Tasks 9 and 10.

		Original	New
Task	1	\$ 15,580	\$15,580

2	Refining Chloride Conditions	\$ 16,860	\$16,860
3	Refining Model Grid	\$ 18,120	\$18,120
4	Density Run	\$ 10,985	\$2,100
5	Post-Audit Report	\$ 18,260	\$18,260
6	Meeting W / WRD and USGS	\$ 10,670	\$3,945
7	Compare Model w/USGS data	\$ 9,530	\$4,370
8	Meeting with Expert Panel	\$ 11,490	\$7,100
9	1999 Annual Flow & Transport	-0-	\$18,360
10	Additional Contour Maps	<u>-0-</u>	\$7,000
		\$112,000	\$112,000

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE

None.

COMMITTEE STATUS:

This item was not reviewed by the Water Resources Committee.

RECOMMENDED MOTION:

This item is for information only.