

**SPECIAL MEETING OF THE WATER RESOURCES COMMITTEE
OF THE BOARD OF DIRECTORS
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
4040 PARAMOUNT BOULEVARD, LAKEWOOD, CALIFORNIA 90712
12:00 P.M., WEDNESDAY, OCTOBER 12, 2011**

AGENDA

EACH ITEM ON THE AGENDA, NO MATTER HOW DESCRIBED, SHALL BE DEEMED TO INCLUDE ANY APPROPRIATE MOTION, WHETHER TO ADOPT A MINUTE MOTION, RESOLUTION, PAYMENT OF ANY BILL, APPROVAL OF ANY MATTER OR ACTION, OR ANY OTHER ACTION. ITEMS LISTED AS "FOR INFORMATION" MAY ALSO BE THE SUBJECT OF ANY "ACTION" TAKEN BY THE BOARD OR A COMMITTEE AT THE SAME MEETING.

- 1. DETERMINATION OF A QUORUM**
- 2. PUBLIC COMMENT**
- 3. MINUTES OF THE MEETING OF SEPTEMBER 12, 2011**
Staff Recommendation: Approve the minutes as submitted.
- 4. GROUNDWATER BASINS MASTER PLAN UPDATE**
Staff Recommendation: For information.
- 5. CONTRACT AMENDMENT WITH CH2MHILL**
Staff Recommendation: For information.
- 6. MEMORANDUM OF UNDERSTANDING REGARDING FINANCIAL CONTRIBUTION FOR WATER AUGMENTATION STUDY**
Staff Recommendation: Execute a Memorandum of Understanding with the Council for Watershed Health, subject to approval of form by District Counsel, for the Elmer Ave Retrofit Monitoring, for an amount not to exceed \$25,000.
- 7. INTERRUPTION OF RECYCLED WATER DELIVERY TO DOMINGUEZ GAP BARRIER**
Staff Recommendation: For information.
- 8. GROUNDWATER RELIABILITY IMPROVEMENT PROGRAM (GRIP) UPDATE**
Staff Recommendation: For information.

9. DIRECTORS REPORTS, INQUIRIES, AND FOLLOW-UP OF DIRECTIONS TO STAFF

10. ADJOURNMENT

Posted by Abigail C. Adom, Deputy Secretary, October 7, 2011.

In compliance with the Americans with Disabilities Act (ADA), if special assistance is needed to participate in the Board meeting, please contact Deputy Secretary Abigail Adom at (562) 921-5521 for assistance to enable the District to make reasonable accommodations.

All public records relating to an agenda item on this agenda are available for public inspection at the time the record is distributed to all, or a majority of all, members of the Board. Such records shall be available at the District office located at 4040 Paramount Boulevard, Lakewood, California 90712.

Agendas and minutes are available at the District's website, www.wrd.org.

**MINUTES OF SEPTEMBER 12, 2011
SPECIAL MEETING OF THE WATER RESOURCES COMMITTEE
OF THE BOARD OF DIRECTORS
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA**

A special meeting of the Water Resources Committee of the Board of Directors of the Water Replenishment District of Southern California was held on Monday, September 12, 2011, 12:25 p.m., at the District Office, 4040 Paramount Boulevard, Lakewood, California. Director Rob Katherman called the meeting to order and presided thereafter. Deputy Secretary Abigail C. Andom recorded the minutes.

1. DETERMINATION OF A QUORUM

Attendees at the meeting were as follows:

Committee: Directors Albert Robles and Rob Katherman
Staff: Robb Whitaker, Ted Johnson, Paul Fu, Jim McDavid
Public: Terry Foreman, CH2MHILL

2. PUBLIC COMMENT

None.

3. MINUTES OF THE MEETING OF AUGUST 3, 2011

The minutes were approved as submitted.

4. GROUNDWATER BASIN UPDATE

Chief Hydrogeologist Ted Johnson provided an update on the groundwater conditions in the Central and West Coast Basins. Mr. Johnson highlighted the following:

- Precipitation - precipitation for the region is five (5) inches or 33% above normal with one month to go before the water year ends.
- Groundwater levels - groundwater levels in the Central Basin are currently declining at the rate of 0.3 feet per week and in the West Basin water levels are currently rising at the rate of 0.8 feet per week.
- Replenishment – due to the wet winter, stormwater captured at the Montebello Forebay spreading grounds totaled 113,000 acre-feet. A normal year is 54,000 acre-feet so this year, stormwater captured is 109% above normal. WRD's order of 25,000 acre-feet of discounted water from the Metropolitan Water District (MWD) is being met with approximately 19,000 acre-feet already received. Recycled water totaling 30,717 acre-feet has recharged the groundwater basins. The amounts have been lower this year due to the excessive amounts of stormwater captured in the spreading grounds during the winter months.
- Seawater Barrier Well Replenishment – imported water purchased for injection into the three seawater barriers totaled 12,707 acre-feet which is on track with what has been budgeted for the year. Recycled water purchased totaled 9,957 acre-feet, lower than budgeted due to reduction in barrier demands and problems with recycled water delivery amounts.

- In-Lieu Replenishment Water – 15,000 acre-feet of In-Lieu replenishment by the City of Long Beach resulted in reduced pumping. Compared to the previous year, Central Basin pumping is down 12% and West Basin is up 1%. Overall pumping is down 10% from the previous year.

5. MEMORANDUM OF UNDERSTANDING REGARDING FINANCIAL SUPPORT FOR WATER AUGMENTATION STUDY-RELATED PROJECTS

The item was deferred to the next Committee meeting.

6. GROUNDWATER BASINS MASTER PLAN UPDATE

Terry Foreman of CH2MHILL, District consultant, provided an update on the status of the Groundwater Basins Master Plan for the West Coast Basin and Central Basin. Mr. Foreman presented two scenarios featuring the Montebello Forebay and Los Angeles Forebay that staff is reviewing for possible development of greater storage opportunities in the forebay areas. He also distributed a spreadsheet of Phase 2 Central Basin Alternative Scenarios.

Discussion followed. The Committee recommended staff develop a timeline of Plan completion, a preliminary financial analysis of the economical viability of the projects (below the line, above the line, moving the line), a request for proposal (RFP) to do an environmental evaluation of the Plan, and if needed, amend the existing contract with CH2MHILL to accommodate the additional work.

The agenda items were taken out of order.

9. GROUNDWATER RELIABILITY IMPROVEMENT PROGRAM (GRIP) UPDATE

General Manager Robb Whitaker stated that staff and legal counsel have been working on the dissolution of the GRIP Joint Powers Authority (JPA). Mr. Whitaker noted that staff has also been reviewing opportunities to look at GRIP in phases. He stated that staff is also working with the LACSD and the Regional Board on the use of tertiary water and renegotiating a contract with the LACSD on the pricing of this new source of replenishment water.

Discussion followed and the Committee recommended the Board issue a request for proposals (RFP) to procure a qualified consultant to prepare the necessary environmental documents as a follow-up to the previously completed Alternatives Analysis. Following completion of the environmental compliance requirements and regulatory permitting, work can begin on design and construction of the preferred alternative. Once completed, the District will reduce its reliance on imported water by replacing a significant quantity with a reliable supply of recycled water produced by the GRIP. The District will advertise the project by posting the RFP on the WRD web site and sending out the RFP to consultants that are on District's pre-qualified list for as-needed professional services,

to those consultants that have shown interest in the project, and to select bulletin boards where consultants seek business opportunities.

7. WATER RESEARCH FOUNDATION MEMBERSHIP RENEWAL

The Committee recommended the Board renew membership with the Water Research Foundation in the amount of \$51,537 for the period October 2011 to September 2012.

8. CONSULTANT SELECTION FOR THE FINAL DESIGN OF THE VANDER LANS FACILITY EXPANSION

Mr. Whitaker stated that a key component of the District's Water Independence Now (WIN) Program is to expand production capacity at the Leo J. Vander Lans Water Treatment Facility to satisfy 100% of the demand at the Alamitos Seawater Barrier using recycled water. He noted that the District has completed the preliminary engineering design for the expansion and is ready to move forward with the final design of the facility.

Mr. Whitaker stated that the Board approved the issuance of a request for proposals (RFP) for professional services for final design of the expansion, including a 30-percent design of a source water supply pipeline. He explained that the District advertised the project by posting the RFP on the WRD web site and sending the RFP to consultants that are on the District's pre-qualified list for as-needed professional engineering services.

Mr. Whitaker stated that the District received proposals from three consulting firms: Black & Veatch, CDM, and CH2M HILL. He explained that a proposal review panel was assembled consisting of two members from District staff, one from West Basin MWD, and one from Orange County Water District. The panel reviewed the proposals and conducted interviews with the three firms on August 31, 2011. He explained that the criteria for evaluations included understanding of the project and technical approach (35%), project team and relevant experience (40%), and cost of services (25%). Mr. Whitaker stated that CDM was ranked highest among the firms that proposed. He noted that CDM demonstrated the most knowledge and experience for the particular project, has assembled a strong project team with solid experience in the design of advanced recycled water treatment facilities along with an excellent technical approach to achieve the project goals.

Mr. Whitaker stated that the proposal review panel came to the unanimous conclusion that CDM is the most qualified firm for this project after reviewing proposals and interviewing all three firms and recommended that they be awarded the contract to perform the final design for the expansion of the Vander Lans Facility.

Discussion followed. The Committee recommended the Board approve award of a professional services contract with CDM for the final design of the Vander Lans Facility expansion, subject to approval of form by District Counsel, for an amount not to exceed \$1,966,672, plus a 10% contingency for a maximum authorized amount of \$2,163,000.

10. DIRECTORS REPORTS, INQUIRIES, AND FOLLOW-UP OF DIRECTIONS TO STAFF

Director Robles requested the Administrative Committee to review the District's Procurement Policy such that in cases of a review panel composed of staff and outside experts, the evaluation of staff carries a greater weight (60%) than that of the outside expert (40%).

The next Water Resources Committee meeting is scheduled Wednesday, October 12, 2011 at 2:00 p.m.

11. ADJOURNMENT

With no further business for the Committee, the meeting was adjourned at 1:50 p.m.

Chair

ATTEST:

Member



MEMORANDUM

ITEM NO. 4

Prepared by: Jason Weeks
Reviewed by: Ted Johnson
Approved by: Robb Whitaker

DATE: OCTOBER 12, 2011
TO: WATER RESOURCES COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: GROUNDWATER BASINS MASTER PLAN UPDATE

SUMMARY

District staff and its consultants, CH2MHILL and RMC Water and Environment, are continuing work on the development of a Groundwater Basins Master Plan for the West Coast Basin and Central Basin (Plan).

The focus of effort over previous month continues to be the detailed development of alternative management scenarios for the Central Basin and evaluation of modeling options for the West Coast Basin scenarios. These scenarios were developed based on input from Central Basin and West Coast Basin stakeholders and reviewed by District staff and project partners.

District staff will provide the Committee with an update on the evaluation of alternative management scenarios for the Central and West Coast Basins and provide an overview of modeling needs to fully assess their impacts.

FISCAL IMPACT

None.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. 5

Prepared by: Jason Weeks

Reviewed by: Ted Johnson

Approved by: Robb Whitaker

DATE: OCTOBER 12, 2011
TO: WATER RESOURCES COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: CONTRACT AMENDMENT WITH CH2MHILL

SUMMARY

As part of the District's ongoing development of its Groundwater Basins Master Plan (Plan), District staff and its consultants have developed a series of alternative management scenarios, with the input of groundwater basin stakeholders, which should now be evaluated using the District's Regional Groundwater Model.

A task for modeling these scenarios was not included in the original scope of work and budget for the Plan since at the time it was unclear how many scenarios would be developed and require evaluation using the model. Now that the scenarios have been developed, it is clear that the use of the model will allow for further refinements of the scenarios and a more accurate estimate of the costs of those scenarios.

In order to use this model for the evaluation of alternative scenarios, District staff and CH2MHILL have developed a draft scope of work, an outline of which is provided below:

1. Convert Model to Groundwater Vistas and Extend Model to Water Year 2010
2. Develop Base Case Model for 2010-2040
3. Simulate alternative management scenarios
4. Document model results

District staff is currently working with CH2MHILL on refining this scope of work and budget and will provide an update to the Water Resources Committee.

FISCAL IMPACT

To be determined.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. 6

Prepared by: Cathy Chang

Reviewed by: Ted Johnson

Approved by: Robb Whitaker

DATE: OCTOBER 12, 2011

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

**SUBJECT: MEMORANDUM OF UNDERSTANDING REGARDING FINANCIAL
CONTRIBUTION FOR WATER AUGMENTATION STUDY**

SUMMARY

The Council for Watershed Health (CWH, formerly known as the Los Angeles and San Gabriel Rivers Watershed Council) has requested funding from the Water Replenishment District of Southern California (WRD) for fiscal year 11-12 to help support the various efforts related to the Los Angeles Basin Water Augmentation Study (WAS). The WAS is a long-term program launched by the CWH for the purpose of assessing whether the capture and infiltration of stormwater at localized sites throughout the region is a viable means of augmenting water supply without adversely affecting groundwater quality.

The WAS began in 2000 in collaboration with representatives from academia and from federal, state, and local public agencies. Several public agencies joined in a Memorandum of Understanding (MOU) to support the WAS, and formed a Technical Advisory Committee (TAC) to oversee the study.

The TAC currently consists of the CWH and the following agency partners:

- City of Los Angeles Department of Water and Power
- City of Los Angeles Watershed Protection Division
- City of Santa Monica Environmental Programs Division
- County of Los Angeles Department of Public Works
- Metropolitan Water District of Southern California
- TreePeople
- United States Department of Interior, Bureau of Reclamation
- Water Replenishment District of Southern California

The WAS was conducted in three phases. For Phase I, the TAC developed the monitoring program and provided oversight for the Pilot Study. For Phase II, a new MOU was signed and the TAC has continued to provide oversight and technical input on a number of program aspects. A third MOU was approved by seven of the agencies, to continue the partnership for Phase III of the study. WRD contributed \$50,000 for Phase I, \$75,000 for Phase II, and \$75,000 for Phase III for a total WRD contribution to date of \$200,000.

Recent WAS accomplishments include the release of the *Water Augmentation Study: Research, Strategy, and Implementation Report* (WAS Report) and the completion of the Elmer Avenue Neighborhood Retrofit project (Elmer Retrofit), both in 2010. The WAS Report summarizes the results of the long-term Water Augmentation Study and provides specific recommendations for a regional groundwater recharge strategy. A core component of the WAS Phase III, the Elmer Ave Retrofit, located in Sun Valley, is a demonstration project that showcases multiple alternative storm water Best Management Practices (BMPs), including infiltration trenches, bio-swales, and permeable surfaces, to create a Green Street.

Following are four WAS-related projects that the CWH has planned for the current fiscal year and their estimated costs:

- 1) *Elmer Avenue Retrofit Monitoring Plan/Program* whose purpose is to evaluate the efficacy of the solutions deployed on Elmer Avenue and to understand the value of green infrastructure for storm water capture (\$165,000);
- 2) Writing and publication of a “*lessons learned*” document about the design and construction of the Elmer Ave Project (\$25,000);
- 3) *Additional sampling at four groundwater wells* installed earlier in the WAS (Note: The wells were located adjacent to stormwater Best Management Practices (BMPs) and were sampled routinely for six years but have not been sampled in the past three years. New data from these locations will augment significantly the knowledge gained from the earlier sampling.) (\$59,000); and
- 4) *Integration with WRD’s Central and West Coast Basins Regional and Distributed Stormwater Capture Feasibility Study and Pilot Project Development* (SW Feasibility Project) (Note: TAC has suggested the SW Feasibility Project be integrated into WAS and perhaps be used as a template for pursuing similar work in Raymond Basin, the Main San Gabriel Basin, and the San Fernando Basin.) (\$19,000)

To support these four efforts, the CWH is requesting financial commitment from its partners. The amount requested of WRD for fiscal year 11-12 is \$85,000. Staff evaluated the request based on the specifics of the proposed work and the funding request, while at the same, recognizing the importance of a more equitably shared financial commitment among the partners as a key factor for continued partner buy-in and the fact that WRD has awarded the CWH a contract for \$230,000 in February 2011 for the Stormwater Recharge Feasibility Study, which is currently underway. After a careful consideration of these factors, staff recommends providing financial support in the amount of \$25,000, to assist with the monitoring of BMPs on Elmer Avenue. The Elmer Ave Retrofit project helps to illustrate a regional groundwater recharge strategy. Monitoring of the Elmer Ave Retrofit is essential to measuring the success of a local implementation of this strategy.

FISCAL IMPACT

The Memorandum of Understanding amount will be for an amount not to exceed \$25,000 for the Elmer Ave Retrofit Monitoring. This item was included in the fiscal year 11-12 budget.

STAFF RECOMMENDATION

Execute a Memorandum of Understanding with the Council for Watershed Health, subject to approval of form by District Counsel, for the Elmer Ave Retrofit Monitoring, for an amount not to exceed \$25,000.



MEMORANDUM

ITEM NO. 7

*Prepared by: Jim McDavid
Reviewed by: Ted Johnson
Approved by: Robb Whitaker*

DATE: OCTOBER 12, 2011

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: INTERRUPTION OF RECYCLED WATER DELIVERY TO DOMINGUEZ GAP BARRIER

SUMMARY

Currently the water supply needs of the Dominguez Gap Barrier are met through deliveries from the City of Los Angeles and the West Basin Municipal Water District (WBMWD). The City of Los Angeles supplies both recycled water and imported to the lower portion of the barrier and the WBMWD supplies imported water to the upper portion of the barrier. The City of Los Angeles has recently informed the WRD that the delivery of recycled water will be interrupted beginning November 1, 2011, due to operational issues at the Terminal Island Treatment Plant. These interruptions are anticipated to last for approximately one year. Staff from the WRD and the City of Los Angeles have recently met to develop an interim arrangement to continue to supply the needs of the Dominguez Gap Barrier during this time. Staff will provide an update of any new information at the Committee meeting.

FISCAL IMPACT

None at this time.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. 8

*Prepared by: Jim McDavid
Reviewed by: Ted Johnson
Approved by: Robb Whitaker*

DATE: OCTOBER 12, 2011

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

**SUBJECT: GROUNDWATER RELIABILITY IMPROVEMENT PROGRAM (GRIP)
UPDATE**

SUMMARY

The GRIP partnership, originally consisting of the Upper San Gabriel Valley Municipal Water District (USGVMWD), the San Gabriel Valley Municipal Water District (SGVMWD), the Los Angeles County Sanitation Districts (LACSD) and WRD, has been dissolved following the departure of the USGVMWD and the SGVMWD. However LACSD and WRD remain committed to work together to identify opportunities for increased recycled water use for groundwater recharge in WRD's service area as a modification to GRIP. Staff will provide an update of any new information at the Committee meeting.

FISCAL IMPACT

None at this time.

STAFF RECOMMENDATION

For information.