

**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, FEBRUARY 4, 2009**

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 SPECIAL MEETING OF DECEMBER 11, 2008**
Staff Recommendation: Approve the minutes as submitted.
- 4. TIME EXTENSION FOR PROFESSIONAL SERVICES AGREEMENT WITH TRUSSELL TECHNOLOGIES**
Staff Recommendation: Extend the term of the contract with Trussell Technologies to March 31, 2010, with no additional cost to the District.
- 5. GROUNDWATER MODELING AT THE ALAMITOS SEAWATER BARRIER – CONTRACT AMENDMENT FOR GOLDER ASSOCIATES**
Staff Recommendation: Authorize an additional \$18,700 to the existing Agreement with Golder Associates for groundwater modeling services for the Alamitos Barrier 2008 Permit Compliance Report.
- 6. ENGINEERING AND SURVEY REPORT (ESR) UPDATE**
Staff Recommendation: For information.
- 7. GROUNDWATER RELIABILITY IMPROVEMENT PROGRAM (GRIP) UPDATE**
Staff Recommendation: For information.
- 8. MWD'S FACILITATED WORKSHOPS FOR DEVELOPING STRATEGIES FOR ENHANCED GROUNDWATER AND CONJUNCTIVE USE UPDATE**
Staff Recommendation: For information.
- 9. DIRECTORS REPORTS, INQUIRIES, REVIEW OF DIRECTIONS TO STAFF**
- 10. ADJOURNMENT**

Posted by Abigail C. Andom, Deputy Secretary, January 30, 2009.

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UNAPPROVED
MINUTES

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**MINUTES OF DECEMBER 11, 2008
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 Thursday, December 11, 2008, 12:50 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 Rob Katherman and Willard H. Murray, Jr.
Staff: Robb Whitaker, Ted Johnson, Jason Weeks, Phuong Ly,
Bob Siemak, Nancy Matsumoto

2. PUBLIC COMMENT

None.

3. WRD DROUGHT MANAGEMENT PLAN

Senior Engineer Jason Weeks provided an update on staff's efforts to update the District's 1991 Drought Management Plan. Mr. Weeks discussed the different phases of drought management planning as well as the proposed Drought Management Planning timeline which describes provisions that must occur before short term over pumping is allowed.

The Committee requested that an update on the Plan and provisions for long term over pumping be provided at the February Water Resources Committee meeting.

4. WEST COAST BASIN OPERATING PLAN STUDY UPDATE

Terry Foreman of CH2M Hill, the District's consultant on the Study of Alternative Operational Scenarios for the West Coast Basin, stated that due to news regarding Metropolitan Water District's (MWD)'s reduced availability of imported water supplies to Southern California, the Study needs to be updated. Mr. Foreman explained that the planning environment was quite different from what it presently is and some concepts that were adopted previously may be eliminated because it would not work under present conditions.

The Committee requested that an update be presented at the January 2009 meeting to include scope of work and budget for an update to the Study.

The agenda items were taken out of order.

10. WBMWD RECYCLED WATER PURCHASE AGREEMENT

General Manager Robb Whitaker stated that staff has been working with West Basin Municipal Water District (WBMWD) regarding modifications to the current Agreement for Supply of Recycled Water from the Edward C. Little Recycling Facility for injection at the West Coast Barrier.

Mr. Whitaker explained that the modifications relate to the Phase 5 expansion of the Facility. He noted that the ad hoc committees of both agencies continue to meet and work out the details of the new agreement.

5. SOUTH MONTEBELLO IRRIGATION DISTRICT WELL MODIFICATION

Water Quality Specialist Phuong Ly stated that WRD will be assisting South Montebello Irrigation District (SMID) in making modifications to SMID's Well #3 in order to comply with California Department of Public Health's (DPH) draft regulations on groundwater recharge. Ms. Ly explained that DPH requires recycled water to be underground for at least six months before being pumped out for potable use. She stated that in an effort to bring the well in compliance, without the expense of well replacement, modifications must be performed to the well. A subsequent tracer test will be conducted to confirm the well is in compliance. The work involves pulling out the pump, installing a "packer" and reinstalling the pump, which should cause the well to draw groundwater only from the deeper and older parts of the aquifer, thereby increasing the recycled water travel time. She noted that similar work was done on SMID Well #5 in 2005.

Ms. Ly stated that staff issued a request for proposal to pre-qualified firms specializing in wells and pumps. After evaluation of the proposals received, staff determined that General Pump Company was the most qualified and responsive bidder. She stated that the firm demonstrated the greatest project understanding and experience and their proposal was judged to provide the District with the best value for this project. General Pump Company also successfully performed similar modifications to SMID Well #5.

Ms. Ly stated that the total cost of the project is approximately \$50,000 with a \$10,000 contingency, bringing the total amount of the project to \$60,000.

The Committee concurred with staff's recommendation and requested the item be agendaized for Board approval.

6. U.C. SANTA BARBARA 2009 RIO HONDO GROUNDWATER TRACER RESEARCH PROJECT

Ms. Ly stated that the item is related to the previous agenda item on SMID Well #3. As was performed in 2005, the University of Santa Barbara (UCSB) performed the tracer test for SMID Well #5 and staff would like to recommend that similar work be performed for SMID Well #3. She noted

that total project cost is estimated at \$38,673, plus a 10% contingency for a total project cost of \$42,500.

The Committee concurred with staff's recommendation and requested the item be agendaized for Board approval.

7. NO-COST TIME EXTENSION FOR AGREEMENT WITH NELLOR ENVIRONMENTAL ASSOCIATES, INC.

Chief Hydrogeologist Ted Johnson stated that Margaret Nellor was contracted to provide professional consulting services associated with regulatory aspects of increasing the use of recycled water in the Montebello Forebay and other water recycling permit issues. Mr. Johnson noted that in particular, Ms. Nellor provided technical assistance that resulted in the successful adoption of the petition to the State Water Resources Control Board to remove the use of notification levels as enforceable effluent limits for the Alamitos Barrier Recycled Water Project. He explained that Ms. Nellor's contract will expire on December 31, 2008 and since there are funds remaining on her contract, staff would like to recommend extending the termination date to December 31, 2009 in order to finish additional work that remains to be done.

The Committee concurred with staff's recommendation and requested the item be agendaized for Board approval under Consent Calendar.

8. CONTRACT AMENDMENT FOR RECYCLED WATER MODELING AT THE DOMINGUEZ GAP BARRIER – GOLDER ASSOCIATES

Mr. Johnson stated that Golder Associates has been performing groundwater modeling services for the District since December 2007. He noted that Golder's contract expires on December 6, 2008 and additional modeling work remains to be done. Staff would like to recommend extending the termination date for the agreement with Golder to December 31, 2009 and add \$13,400 to the contract amount for the additional modeling services.

The Committee concurred with staff's recommendation and requested the item be agendaized for Board approval under Consent Calendar.

9. SALINE PLUME POLICY

Senior Hydrogeologist Nancy Matsumoto provided everyone with a summary of the tasks completed and findings/conclusions to date regarding the proposed District saline plume policy. Ms. Matsumoto noted that staff would like to recommend that the information be discussed in detail at the both the Groundwater Quality and Water Resources Committees and presented to the Desalter Working Group for comments before presenting it to the Board for discussion.

The Committee recommended that a workshop be held for this purpose and discussions continue for any additional input. The Committee further requested that an update be presented to the Committee at its March 2009 meeting.

11. DIRECTORS REPORTS, INQUIRIES, REVIEW OF DIRECTIONS TO STAFF

Director Katherman requested that updates be presented at the next meeting on: the Los Angeles Forebay Groundwater Recharge Project and West Coast Basin Operational Plan.

12. ADJOURNMENT

With no further business for the Committee, the meeting was adjourned at 2:45 p.m.

Chairperson

ATTEST:

Director



MEMORANDUM

ITEM NO. 4

<i>Prepared by:</i>	Paul Fu
<i>Reviewed by:</i>	Robert Siemak
<i>Approved by:</i>	Robb Whitaker

DATE: FEBRUARY 4, 2009

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: TIME EXTENSION FOR PROFESSIONAL SERVICES AGREEMENT WITH TRUSSELL TECHNOLOGIES

BACKGROUND

The District has been using the services of Trussell Technologies for a comprehensive reverse osmosis (RO) fouling investigation at the Leo J. Vander Lans Advanced Treatment Facility. The investigation concluded that the primary reason for the RO fouling was caused by the carryover of alum used in the reclamation plant of the LA County Sanitation Districts (LACSD). The LACSD has stopped using alum since we communicated with them about the issue, and started to use ferric chloride, an equally effective treatment chemical.

The fouling of RO has been reduced significantly after the LACSD ceased using alum. The performance of the RO is closely being monitored by the operations team. It is desired to have Trussell Technologies continue to assist with evaluation and analysis of the performance of the RO system under the new operations mode to demonstrate its effectiveness. It is anticipated that this verification will take six months.

The existing contract with Trussell Technologies has an expiration date of March 31, 2009. The contract has \$31,566 remaining as unexpended. Staff recommends extending the term of the contract at no additional cost to WRD to continue to use the services of Trussell Technologies to March 31, 2010.

FISCAL IMPACT

This was budgeted in the 2008/09 budget. No additional funds are being sought for this contract.

STAFF RECOMMENDATION

Extend the term of the contract with Trussell Technologies to March 31, 2010, with no additional cost to the District.



MEMORANDUM

ITEM NO. 5

Prepared by: Ted Johnson

Reviewed by: Hoover Ng

Approved by: Robb Whitaker

DATE: FEBRUARY 4, 2009

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: GROUNDWATER MODELING AT THE ALAMITOS SEAWATER BARRER –
CONTRACT AMENDMENT FOR GOLDER ASSOCIATES

SUMMARY

On December 7, 2007, the District entered into an agreement with Golder Associates to perform groundwater modeling services to predict how far recycled water has traveled in the West Coast Basin due to injection at the Dominguez Gap Barrier between 2006 and 2007. This work is required annually by the Regional Water Quality Control Board, Los Angeles Office (RWQCB) for permit compliance. Based on their good work, on December 19, 2008 the Board extended Golder's contract to perform the 2008 modeling for the upcoming annual permit compliance report that is due March 1, 2009.

At another seawater barrier, the Alamitos Barrier, similar work is required to comply with the RWQCB permit for the Vander Lans project. The 2008 annual report is due to the RWQCB on April 15, 2009. Modeling of how far the recycled water has moved through the aquifers since project startup is required.

A model of the Alamitos Barrier was constructed and used by Dr. Ben Bray, a recent Ph.D. graduate student at UCLA for the 2007 annual report. He has indicated he is not available to perform the 2008 modeling. Therefore, staff is recommending amending the contract with Golder Associates to perform the modeling of the Alamitos Barrier. Golder is familiar with this type of modeling as they are currently performing the work at the Dominguez Barrier, they have always met WRD's expectations on their work products, they report that they have successfully opened and can run the UCLA model (conversion performed at no cost to the District), they can meet the tight time schedule for model completion, and they provided a very competitive price (less expensive than another modeling consultant's quote).

FISCAL IMPACT

The fee for the modeling work is estimated at \$17,000, plus a 10% contingency fee for a total authorized amount of \$18,700. This is a budgeted item for FY 2008-09 under Project 001000.

STAFF RECOMMENDATION

Authorize an additional \$18,700 to the existing Agreement with Golder Associates for groundwater modeling services for the Alamitos Barrier 2008 Permit Compliance Report.



MEMORANDUM

ITEM NO. 6

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

DATE: FEBRUARY 4, 2009
TO: WATER RESOURCES COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: ENGINEERING SURVEY AND REPORT (ESR) UPDATE

SUMMARY

On January 16, 2009, the Board of Directors adopted Resolution No. 09-846 ordering the preparation of the annual Engineering Survey and Report (ESR). This report determines, among other things, the replenishment water needs and costs of the District for the ensuing water year October 1, 2009 – September 30, 2010.

This information, combined with the 2009/2010 budget forecast, provides the Board with the necessary information to determine the Replenishment Assessment (RA) for the ensuing Fiscal Year July 1, 2009 – June 30, 2010. The current schedule for the ESR and RA is as follows:

Date	Item	Board action
01/16/09	Order preparation of ESR	Adopt Resolution No. 09-846 to order preparation of the ESR
03/20/09	Complete the ESR	Adopt Resolution giving notice that a RA will be established for the ensuing year 2009/2010
04/03/09	Open Public Hearing	Conduct public hearing on ESR and RA
05/01/09	Close Public Hearing	Close public hearing on ESR and RA
05/01/09	Set the RA	Adopt Resolution to set the RA for FY 2009/10

Staff is currently working on preparing the 2009 ESR and will bring the draft final report to the Water Resources Committee at the March meeting. Some of the preliminary findings to date (subject to change) include the following:

- Long term averages for replenishment needs are used, with adjustments made if necessary, to account for known changes from long term conditions. Since rainfall, pumping and imported water availability can be highly variable from year to year, the long term averaging approach works best to smooth out fluctuations in replenishment purchases. For the upcoming Water Year, it is anticipated that the District will have to purchase 21,000 acre feet of imported water for spreading, 48,000 acre feet of recycled water for spreading, 28,000 acre feet of imported and recycled for barrier injection, and 10,300 acre feet for in-lieu.

- The availability of the imported water for spreading and In-Lieu is questionable, and also is the imported barrier water in the face of potential MWD allocations. However, WRD plans on raising the money for this water in case it is available. If it is not, WRD will carryover the money into a subsequent year to purchase the water when it does become available.

The cost of imported water is expected to rise substantially starting in January 2010. Indications from MWD are that the potable imported water will rise by 21% and the imported spreading water will rise by 30%. Based on WRD's success in developing alternative sources of water, the full impact of these increases will be tempered. However, WRD's overall cost of water could rise by over \$3,000,000 for the next fiscal year. This accentuates the importance of the WRD Water Independence Now (WIN) Program that will eliminate the District's need for imported water to replenish the groundwater basins.

Other information on the ESR content and status will be presented at the Committee meeting.

FISCAL IMPACT

None at this time.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. 7

<i>Prepared by:</i>	Bob Siemak
<i>Reviewed by:</i>	Robb Whitaker
<i>Approved by:</i>	Robb Whitaker

DATE: FEBRUARY 4, 2009

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: GROUNDWATER RELIABILITY IMPROVEMENT PROGRAM (GRIP) UPDATE

SUMMARY

At its September 5, 2008 meeting, the Board approved a Memorandum of Understanding (MOU) to jointly fund a Preliminary Development Plan for the Groundwater Reliability Improvement Program (GRIP). GRIP is a partnership of WRD, Upper San Gabriel Valley Municipal Water District (USGVMWD) and Los Angeles County Sanitation Districts (LACSD) to develop a project that would replace unreliable imported replenishment water with a locally sustainable supply (i.e. advanced treated reclaimed water).

The primary goals of the GRIP are to:

- Provide a sustainable and reliable supply for replenishing the basins
- Protect groundwater quality and quality of life
- Minimize the environmental/energy footprint of any option or options selected
- Minimize cost to agencies using groundwater
- Engage stakeholders in the decision making process

This report provides an update of the GRIP project status and the proposed strategy and timeline for upcoming tasks. As reported at the January 7, 2009 Water Resource Committee meeting, a preliminary development plan is currently being prepared by MWH Americas, Inc. (MWH) to determine the physical and economic feasibility of constructing an advanced water treatment facility (AWTP) at the LACSD's San Jose Creek Water Reclamation Plant site. Staff has been coordinating the efforts with our partners and the consultant (MWH) performing the work. It is anticipated that the final report will be available by the end of February 2009.

Staff will provide additional information at the Committee meeting.

FISCAL IMPACT

None at this time.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. 8

<i>Prepared by:</i>	Bob Siemak
<i>Reviewed by:</i>	Robb Whitaker
<i>Approved by:</i>	Robb Whitaker

DATE: FEBRUARY 4, 2009

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: MWD'S FACILITATED WORKSHOPS FOR DEVELOPING STRATEGIES FOR ENHANCED GROUNDWATER AND CONJUNCTIVE USE UPDATE

SUMMARY

MWD recognizes that the effective use of local groundwater basins must be a significant component of any comprehensive water supply plan for Southern California. In mid 2008, MWD initiated a series of series of consensus-building workshops on ***Developing Strategies for Enhanced Groundwater and Conjunctive Use*** in the Metropolitan Water District service area. The goal of the process is to develop a set of broadly supported concepts and recommendations concerning groundwater management and conjunctive use. The results of the process will be incorporated into the MWD's Integrated Resource Plan update that will be completed in 2009. Discussions at the workshops focused on:

- A review of existing policy principles for conjunctive use and a determination of how they can be updated;
- Identification of primary challenges to increased storage and conjunctive use, and potential ways Metropolitan, its partners and basin managers can overcome these challenges; and
- Exploration of other conjunctive use opportunities that raise Metropolitan water policy issues.

Five workshops have been held to date. Each workshop was well attended by Metropolitan Partner organizations, groundwater basin managers and Metropolitan staff with up to 50 people at some meetings. The next, and final, workshop is scheduled for February 10, 2009 at MWD headquarters. Additional follow-up meetings may be scheduled, if needed. WRD has been an active participant in this process; and staff will provide a update to the committee on progress to date, including challenges faced by MWD, its member agencies and basins, and status of recommendations on: 1) Principles, 2) Policies, and 3) Strategies.

FISCAL IMPACT

None at this time.

STAFF RECOMMENDATION

For information.