

REVISED AGENDA
MEETING OF THE GROUNDWATER QUALITY COMMITTEE
OF THE BOARD OF DIRECTORS
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
4040 PARAMOUNT BOULEVARD, LAKEWOOD, CA 90712
11:30 A.M., WEDNESDAY, MARCH 24, 2010

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. APPROVAL OF THE MINUTES OF JANUARY 27, 2010**
Staff Recommendation: Approve as submitted.
- 4. GROUNDWATER QUALITY UPDATE – SECONDARY DRINKING WATER STANDARDS FOR AESTHETIC CONSIDERATIONS**
Staff Recommendation: For information.
- 5. GROUNDWATER CONTAMINATION UPDATE - PERCHLORATE**
Staff Recommendation: For information.
- 6. TIME EXTENSION WITH USGS FOR CENTRAL BASIN GROUNDWATER CONTAMINATION STUDY**
Staff Recommendation: Extend the termination date of the agreement with the U.S. Geological Survey (USGS) for the Central Basin Groundwater Contamination Study to December 31, 2011, with no additional cost to the District.
- 7. TIME EXTENSION FOR PROFESSIONAL SERVICES AGREEMENT WITH URS CORPORATION**
Staff Recommendation: Extend the term of the contract with URS Corporation for the Safe Drinking Water Program to April 29, 2011, with no additional cost to the District.
- 8. DIRECTORS' REPORTS, INQUIRIES, AND REVIEW OF DIRECTIONS TO STAFF**
- 9. ADJOURNMENT**

Posted by Abigail C. Andom, Deputy Secretary, March 19, 2010.

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 Andom 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.

UNAPPROVED
MINUTES

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**MINUTES OF JANUARY 27, 2010
MEETING OF THE GROUNDWATER QUALITY COMMITTEE
OF THE BOARD OF DIRECTORS OF THE
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA**

A meeting of the Groundwater Quality Committee of the Board of Directors of the Water Replenishment District of Southern California was held on Wednesday, January 27, 2010, 12:36 p.m., at the District Office, 4040 Paramount Boulevard, California. Chairperson Rob Katherman called the meeting to order and presided thereover. Administrative Specialist Sheryll A. Moffat recorded the minutes.

1. DETERMINATION OF A QUORUM

Committee: Directors Rob Katherman and Sergio Calderon
Staff: Ted Johnson, Phuong Ly

2. PUBLIC COMMENT

None.

3. APPROVAL OF THE MINUTES OF NOVEMBER 25, 2009

The minutes of November 25, 2009 were approved as submitted.

4. GROUNDWATER CONTAMINATION UPDATE

Water Quality Specialist Phuong Ly distributed handouts and said that she will be discussing two contaminated sites today. Ms. Ly stated that the first site is the Omega Chemical Corporation (Omega) located in the Central Basin and the second site is the Conoco Phillips Los Angeles Refinery located in the West Coast Basin.

Ms. Ly stated that the Omega site is located in the City of Whittier and is a USEPA (United States Environmental Protection Agency) Superfund site. She explained that the contamination below the site is the result of improper waste disposal related to former hazardous waste treatment and storage activities. In the late 1990s, thousand of drums of wastes and materials were removed from the site, sumps with contaminated water were drained and contaminated equipment was removed. She said that the USEPA has separated the cleanup into three phases, called Operable Units (OU): OU-1 addresses the soil and groundwater contamination on or near the site, OU-2 addresses the off-site groundwater contamination that has migrated 4.2 miles downgradient of the site, and OU-3 addresses indoor air contamination at the site and surrounding properties. Ms. Ly noted that a groundwater pump and treat system has been operating at the site since July 2009. The USEPA, DTSC (California Department of Toxic Substances Control) and RWQCB (Regional Water Quality Control Board) are now coordinating efforts for enforcement, investigation and remediation of the OU-2 groundwater plume.

The second site Ms. Ly described was the Conoco Phillips Los Angeles Refinery located in the West Coast Basin. The refinery consists of two plants that are located in the cities of Wilmington and Carson and connected by oil pipelines. She said that the Wilmington Plant is located approximately 2.5 miles southwest of the Carson plant. The investigation and remediation at both the Carson and Wilmington plants are conducted under the oversight of the RWQCB. Refinery operations have been conducted at the Wilmington plant since 1919. Constituents of concern in groundwater include total petroleum hydrocarbons, fuel oxygenates, and volatile organic compounds (VOCs), which have been detected in the Gage, Lynwood, and Silverado Aquifers, with the highest concentrations in the Gage Aquifer. Remediation activities at the site consist of light non-aqueous phase liquid (LNAPL) recovery and soil vapor extraction. She concluded by stating that the RWQCB is preparing a work plan to implement interim groundwater remediation at the southwest corner of the site and to conduct a pilot study to remove tertiary butyl ether (TBA) in the groundwater along the northern boundary of the site. The work plan is expected to be issued in the First Quarter of 2010.

After discussion, the Committee recommended that funds in the amount of \$250,000 be set aside so that the Central Basin Groundwater Contamination Study being conducted by the USGS can move forward.

5. AMENDMENT TO MWH LABORATORY PROFESSIONAL SERVICES

The Committee concurred with the staff recommendation to amend the contract with MWH Laboratories to allow for additional water quality testing and laboratory services by increasing the budgetary amount by \$802,000.

6. WATEREUSE FOUNDATION MEMBERSHIP RENEWAL

After discussion of the many benefits to the District as a result of its WateReuse Foundation membership, the Committee concurred with the staff recommendation to renew the membership with the WateReuse Foundation in the amount of \$12,000 for calendar year 2010.

7. DIRECTORS' REPORTS, INQUIRIES, AND REVIEW OF DIRECTIONS TO STAFF

Director Katherman stated that Director Calderon is interested in getting the District's programs more accessible purveyors. Director Calderon asked if staff could approach the Central Basin Water Association to get more of its members to use the District's Title 22 program. Chief Hydrogeologist Ted Johnson responded that staff has made many attempts to get more of our pumpers involved in the District's programs. He noted that one on one telephone calls to cities that are not in the program may be the best way to handle this. Mr. Johnson stated that he

would get Director Calderon a list of WRD's Title 22 program participants and also provide him with a list of those who are not in the program.

The next meeting is scheduled for Wednesday, February 24. Mr. Johnson said that one of the items that staff would be bringing to the Committee is the contract approval for rehabilitating the pumping well at the Goldsworthy Desalter which needs some maintenance work.

8. ADJOURNMENT

There being no further business to come before the Committee, the meeting was adjourned at 1:40 p.m.

Chairperson

Attest:

Director



MEMORANDUM

ITEM NO. 4

Prepared by: Hoover Ng
Reviewed by: Ted Johnson
Approved by: Robb Whitaker

DATE: MARCH 24, 2010

TO: GROUNDWATER QUALITY COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: GROUNDWATER QUALITY UPDATE – SECONDARY DRINKING WATER STANDARDS FOR AESTHETIC CONSIDERATIONS

SUMMARY

Drinking water standards have been established to protect public health and are known as primary drinking water standards or primary maximum contaminant levels (primary MCLs). Additional standards have been established to address the aesthetics of drinking water (taste, odor, and appearance) and are referred to as secondary drinking water standards or secondary MCLs. The following is a list of these secondary MCLs , which are established and regulated by the California Department of Public Health.

Constituent	Secondary MCL	Impact to Water at Elevated Concentrations
Aluminum	0.2 mg/L	Colored water
Chloride	250 – 600 mg/L	Salty taste
Color	15 units	Visible tint
Copper	1.0 mg/L	Metallic taste; blue – green staining
Foaming Agents	0.5 mg/L	Frothy, cloudy; bitter taste; odor
Iron	0.3 mg/L	Rusty color; sediment; metallic taste; reddish or orange staining
Manganese	0.05 mg/L	Black to brown color; black staining; metallic taste
Methyl-tert-butyl-ether (MTBE)	0.005 mg/L	Unpleasant taste and odor
Odor	3 units	Musty or chemical smell
Silver	0.1 mg/L	Skin discoloration
Sulfate	250 – 600 mg/L	Salty taste
Thiobencarb	0.001 mg/L	Unpleasant taste
Total Dissolved Solids or Specific Conductance	500 – 1500 mg/L 900 – 2200 uS/cm	Hardness; colored water; staining; salty taste
Turbidity	5 units	Cloudy or colored water
Zinc	5 mg/L	Metallic taste

Monitoring is required also for the following constituents which do not have established standards.

Bicarbonate	Carbonate	Hydroxide alkalinity	Calcium
Magnesium	Sodium	pH	Total Hardness

Water systems are required to comply with these drinking water standards. If there are exceedances, they need to be reported to the CDPH. However, there are also provisions for waivers, which include preparation of an engineering report that evaluates all reasonable alternatives and costs for bringing the water system into compliance, results of a customer survey to determine if the majority of customers are willing to pay for additional treatment or to accept the current water quality situation, and presentation of such results at a public hearing.

Another factor that might affect the taste and odor of water is the presence of a chlorine residual. Chlorine is used to disinfect the water to prevent the growth of algae, bacteria, and other microbes that can cause disease. However, chlorine residuals in the water are unpleasant to some people. Oftentimes, stirring tap water to aerate it and then chilling it before drinking can remove the residual and improve its taste.

Metallic ions from older residential plumbing systems can leach into the water and leave a metallic aftertaste. In such instances, flushing the system before use might be helpful.

Imported surface water from MWD may at times be subjected to algal growth, especially during summer months. Although the water is filtered and disinfected, 2 chemicals, geosmin and methyl isoborneol (MIB) can be created from the algae that are not completely removed by filtration and can still cause off tastes and odors. MWD closely monitors and implements control strategies as quickly as possible, including treatment with chlorine and copper sulfate.

FISCAL IMPACT

None.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. 5

Prepared by: Phuong Ly
Reviewed by: Ted Johnson
Approved by: Robb Whitaker

DATE: MARCH 24, 2010
TO: GROUNDWATER QUALITY COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: GROUNDWATER CONTAMINATION UPDATE - PERCHLORATE

Perchlorate is both a naturally occurring chemical and man-made chemical used to manufacture fireworks, explosives, flares and rocket propellant. Exposure by humans to excessive amounts of perchlorate can inhibit the uptake of iodide by the thyroid gland which can lead to impairment of metabolism, proper development of young children, and creation of tumors in the thyroid.

The California Department of Public Health (CDPH) adopted a Maximum Contaminant Level (MCL) for perchlorate in drinking water at 6 parts per billion (ppb) on October 18, 2007. If perchlorate is detected above the MCL in a potable water supply, a confirmation sample must be collected within 48 hours. If the average of both samples exceeds the MCL, public notification would be required and wells must be taken out of service immediately. Effective treatment for perchlorate in water is with ion exchange, bioreactors, and granular activated carbon (GAC).

Perchlorate has been detected in several groundwater production wells in the northern area of the Central Basin, with some impacted wells located in the Los Angeles Forebay. Perchlorate also has been detected in some WRD monitoring wells located in the area. Because of the proximity of these impacted wells to each other and the perchlorate concentrations detected thus far, an investigation has been initiated to identify potential perchlorate sources and eventually, soil, soil gas, and groundwater sampling will be conducted to determine the extent of perchlorate contamination in the area. WRD has been assisting in the data collection and will continue to monitor the status of the investigation.

FISCAL IMPACT

None.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. 6

Prepared by: Nancy Matsumoto

Reviewed by: Ted Johnson

Approved by: Robb Whitaker

DATE: MARCH 24, 2010

TO: GROUNDWATER QUALITY COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: TIME EXTENSION WITH USGS FOR CENTRAL BASIN GROUNDWATER CONTAMINATION STUDY

SUMMARY

On September 19, 2008, the Board approved an agreement with the U.S. Geological Survey (USGS) to conduct the Central Basin Groundwater Contamination Study for an amount not to exceed \$352,140 with the understanding that \$250,000 would be reimbursed to WRD from AB303 Local Groundwater Assistance (LGA) Program grant funds. WRD executed this agreement with the USGS as well as a funding agreement with the California Department of Water Resources (DWR) for a \$250,000 grant through the LGA Program.

In December 2008, in the context of the State's budget crisis, DWR issued instructions to suspend all work funded by the State's general obligation bonds including the AB303 grant funds, advising grantees that continuation of work would be at their own risk. Accordingly, work was stopped in January 2009 and WRD began communicating with DWR regarding how and when we will proceed.

On February 19, 2010 the Board directed staff to resume work on the Central Basin Groundwater Contamination Study with the USGS, recognizing that WRD may not be reimbursed in full for the \$250,000 of AB303 grant funds. In order to accomplish this, the term of the existing agreement with the USGS must be extended to accommodate the delay caused by the suspension of work.

The current term of the existing agreement ends on May 1, 2010. Based on the timeframe of resuming work, the term should be extended to December 31, 2011.

FISCAL IMPACT

None. This is a request for time extension only.

STAFF RECOMMENDATION

Extend the termination date of the agreement with the U.S. Geological Survey for the Central Basin Groundwater Contamination Study to December 31, 2011, with no additional cost to the District.

**AMENDMENT #1 TO AGREEMENT #556
FOR PROFESSIONAL SERVICES
WITH
U.S. GEOLOGICAL SURVEY**

This Amendment to Agreement For Professional Services effective as of April 2, 2010 ("Effective Date"), is entered into by and between the Water Replenishment District of Southern California (hereinafter "WRD"), a public entity, and U.S. Geological Survey, (hereinafter "Consultant").

I.

RECITALS

A. Effective as of October 1, 2008, WRD and U.S. Geological Survey, entered into an Agreement For Professional Services (the "Agreement").

B. The parties desire to extend the term of the Agreement.

NOW, THEREFORE, for good and valuable consideration, including the mutual promises contained herein, and subject to the terms and conditions set forth below, WRD and the Consultant agree as follows:

1. Term of Agreement: The term of the Agreement shall be extended to December 31, 2011 (the "Expiration Date").

2. Remaining Portions of the Agreement: Except as otherwise expressly set forth in this Amendment, all other provisions of the Agreement remain in full force and effect between WRD and the Consultant.

IN WITNESS WHEREOF, the parties have caused this Amendment to be executed as of the Effective Date.

U.S. Geological Survey, ("CONSULTANT")

Signature

Print Name

Title

**WATER REPLENISHMENT DISTRICT OF
SOUTHERN CALIFORNIA**

Signature

Albert Robles

Print Name

President, Board of Directors

Title

Signature

Lillian Kawasaki

Print Name

Secretary, Board of Directors

Title

**Approved As To Form
MEYERS, NAVE, RIBACK,
SILVER & WILSON**

James M. Casso

Attorneys for the Water Replenishment
District of Southern California



MEMORANDUM

ITEM NO. 7

<i>Prepared by:</i>	Charlene King
<i>Reviewed by:</i>	Ted Johnson
<i>Approved by:</i>	Robb Whitaker

DATE: MARCH 24, 2010

TO: GROUNDWATER QUALITY COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: TIME EXTENSION FOR PROFESSIONAL SERVICES AGREEMENT WITH URS CORPORATION

BACKGROUND

The District administers the Safe Drinking Water Program (SDWP) to assist basin purveyors in sustaining active production from contaminated wells. Wells are evaluated for assistance based on factors such as water quality data and production history. When assistance is deemed necessary, WRD and the groundwater producer jointly develop a treatment solution for the subject well.

The District has been using the services of URS Corporation for engineering and design services for projects in the Safe Drinking Water Program. The firm was contracted April 23, 2009 to provide planning, design, construction management assistance, and inspection services for the Vernon project wells and two additional approved project wells. Activities are still in progress for the Vernon project and the additional wells are in the early stages of development. It is desired to have URS Corporation continue to assist with the Safe Drinking Water projects.

The existing contract with URS Corporation has an expiration date of April 19, 2010. The contract has \$114,804 remaining as unexpended. Staff recommends extending the term of the contract at no additional cost to WRD to continue to use the services of URS Corporation to April 29, 2011.

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 URS Corporation for the Safe Drinking Water Program to April 29, 2011, with no additional cost to the District.

**AMENDMENT #1 TO CONTRACT #573
FOR PROFESSIONAL SERVICES
BETWEEN
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
AND
URS CORPORATION**

This Amendment to Contract No. 573 , is made and entered into this 5th day of April, 2010, (“Effective Date”) by and between the Water Replenishment District of Southern California (hereinafter “District”), a public entity, and URS Corporation dba URS Corporation Americas, (hereinafter “Consultant”). The District and Consultant are collectively referred to herein as the “Parties”.

**I.
RECITALS**

A. On April 23, 2009, a certain agreement, hereinafter referred to as Contract No. 573, was executed between the District and Consultant for professional services for projects within the District’s Safe Drinking Water Program.

B. District and Consultant desire to enter into Amendment No. 1, and have agreed to amend the “Term” as set forth below.

**II.
AMENDMENT**

NOW, THEREFORE, in consideration of the mutual covenants, promises and agreements set forth, it is agreed the aforesaid Contract No. 573, a copy of which is attached hereto as Exhibit A, and incorporated herein by reference, shall remain in full force and effect except as otherwise hereinafter provided.

1. Term of Agreement: The term of the Agreement shall be extended to April 29, 2011 (the “Expiration Date”).

IN WITNESS WHEREOF, the Parties have caused this Amendment No. 1 to be executed as of the Effective Date.

(Signatures on Following Page)

URS Corporation dba URS Corporation Americas, ("CONSULTANT")

Signature

S. Tariq Hussain

Print Name

Vice President

Title

**WATER REPLENISHMENT DISTRICT OF
SOUTHERN CALIFORNIA**

Signature

Albert Robles

Print Name

President, Board of Directors

Title

Signature

Lillian Kawasaki

Print Name

Secretary, Board of Directors

Title

**Approved As To Form
MEYERS, NAVE, RIBACK,
SILVER & WILSON**

James M. Casso

Attorneys for the Water Replenishment
District of Southern California

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