

**SPECIAL MEETING OF THE GROUNDWATER QUALITY COMMITTEE
OF THE BOARD OF DIRECTORS
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
4040 PARAMOUNT BOULEVARD, LAKEWOOD, CA 90712
1:00 P.M., TUESDAY, AUGUST 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 JULY 28, 2010**
Staff Recommendation: Approve as submitted.
- 4. GROUNDWATER CONTAMINATION UPDATE**
Staff Recommendation: For information.
- 5. GROUNDWATER QUALITY PROJECTS/PROGRAMS**
Staff Recommendation: For information.
- 6. TIME AND FEE AMENDMENT TO MWH LABORATORIES PROFESSIONAL SERVICES AGREEMENT FOR WATER QUALITY TESTING**
Staff Recommendation: Amend the existing contract with MWH Laboratories, subject to approval of form by District Council, to extend the contract termination date to June 30, 2011, and increase the budgetary amount by an additional \$700,000 plus a \$70,000 contingency for a total of \$770,000.
- 7. CLOSED SESSION**
Conference with Legal Counsel-Anticipated Litigation, pursuant to Government Code § 54956.9 (b), One Case
- 8. DIRECTORS' REPORTS, INQUIRIES, AND REVIEW OF DIRECTIONS TO STAFF**
- 9. ADJOURNMENT**

Posted by Abigail C. Andom, Deputy Secretary, August 20, 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 JULY 28, 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, July 28, 2010, 12:15 p.m., at the District Office, 4040 Paramount Boulevard, California. Chairperson Sergio Calderon called the meeting to order and presided thereover. Administrative Specialist Sheryll A. Moffat recorded the minutes.

1. DETERMINATION OF A QUORUM

Committee: Directors Sergio Calderon and Albert Robles
Staff: Ted Johnson, Phuong Ly

2. PUBLIC COMMENT

None.

3. APPROVAL OF THE MINUTES OF JUNE 23, 2010

The minutes were approved as submitted.

4. GROUNDWATER CONTAMINATION UPDATE

Water Quality Specialist Phuong Ly discussed two high-priority groundwater contaminated sites: the ConocoPhillips Los Angeles Refinery located in the City of Carson (West Coast Basin) and Thrifty Service Station #10 located in the City of Montebello (Central Basin). Ms. Ly said that the ConocoPhillips Los Angeles Refinery consists of two plants that are connected by pipelines. She explained that the Carson Plant refines crude oil and pipes its product to the Wilmington Plant which further refines the Carson plant effluent into the finished products. The Carson plant covers 245 acres and the constituents of concern are VOCs, petroleum hydrocarbons and fuel oxygenates. The nearest drinking water well is located 1.3 miles west of the site. She said current remediation activities at the site include light non-aqueous phase liquid (LNAPL) recovery from groundwater beneath the site and soil vapor extraction (SVE) of site soils. Ms. Ly said that along the western (downgradient) site boundary, the LNAPL recovery system is being redesigned to control migration of dissolved-phase hydrocarbons in the upper aquifer. She added that pilot testing of vapor enhanced pumping (VEP) is planned for early 2011 at various recovery wells to enhance LNAPL recovery.

Ms. Ly stated that the second site, Thrifty Service Station #10, is an active gasoline station. She said that the nearest active production well to the site is located ~0.7 mile to the east of the site (upgradient) and the nearest active downgradient production well is located ~1.7 miles west-southwest

of the site. She said that during underground storage tanks (UST) in 1998, soil contamination beneath the USTs was discovered. From January 2005 to March 2009, a SVE system operated at the site and removed a total of 68,245 pounds of VOCs. On October 30, 2009 the Los Angeles Regional Water Quality Control Board (LARWQCB), closed this case based on several reasons: 1) the leak had been stopped and potential sources (i.e., contaminated soils) were removed or mitigated; 2) the lateral and vertical extent of contamination had been defined; 3) the most recent groundwater monitoring results indicate maximum contaminant concentrations in the upgradient, on-site monitoring well (Well MW-7); 4) no constituents of concern were detected in the nearest active production well and; 5) the residual soil and groundwater contamination would not cause any human health and environmental risks.

5. PROGRAMS TO ASSIST SMALL BUSINESSES IN CLEANING UP CONTAMINATED PROPERTIES

Ms. Ly said that that United States Environmental Protection Agency (USEPA) defines “brownfields” as real property, the expansion, redevelopment, or reuse of which may be complicated by the presence of a hazardous substance, pollutant, or contaminant. She said that the following State- and federal-funded programs for brownfield cleanup exist in California and are administered by the Department of Toxic Substances Control (DTSC) or the Regional Water Quality Control Board (RWQCB): Orphan Site Cleanup Fund (OSCF) Program; Revolving Loan Fund (RLF) Program; Cleanup Loans and Environmental Assistance to Neighborhoods (CLEAN) Program; Prospective Purchaser Agreements (PPAs) and; the Voluntary Cleanup Program (VCP). She said that in addition to the programs previously mentioned, there are private companies that also provide loans to businesses for the cleanup of contaminated properties. Her report also included a list of websites that provide additional information.

After discussion, the Committee recommended that staff work in collaboration with other agencies that already have established programs that assist small businesses in cleaning up contaminated properties.

6. DIRECTORS’ REPORTS, INQUIRIES, AND REVIEW OF DIRECTIONS TO STAFF

Director Robles asked that staff look at all programs for groundwater contamination. He also asked that an overview of groundwater quality projects and programs be discussed at the next Committee meeting.

7. ADJOURNMENT

There being no further business to come before the committee the meeting was adjourned at 1:43 p.m.

Chairperson

ATTEST:

Director



MEMORANDUM

ITEM NO. 4

Prepared by: Phuong Ly

Reviewed by: Ted Johnson

Approved by: Robb Whitaker

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

CONTAMINATED GROUNDWATER SITES

With the cooperation and support of stakeholders such as the United States Environmental Protection Agency (USEPA), California Regional Water Quality Control Board, Los Angeles Region (RWQCB), and California Department of Toxic Substances Control (DTSC), WRD developed a list of high-priority contaminated groundwater sites within District boundaries. This list is a living document, subject to cleanup and "closure" of sites as well as discovery of new sites warranting further attention. Currently, the list includes 46 sites across the Central and West Coast Basins.

WRD has been working with the lead regulatory agencies for each of these sites to keep abreast of their status, review and provide recommendations as needed, facilitate progress in site characterization and cleanup, and provide technical and financial assistance when necessary. Below is a discussion of two sites that were recently updated with information obtained from the lead regulatory agency.

ARCO (BP) REFINERY (CITY OF CARSON, WEST COAST BASIN)

The 702-acre active refinery has been operating under various owners since 1923. The refinery produces a range of products, including gasoline, jet fuel, diesel, liquefied petroleum gas (LPG), sulfur, and petroleum coke. A cogeneration plant, located on site, produces power to supply the refinery and to export to utilities. Due to historical site activities, groundwater beneath the site is contaminated and investigation and remediation activities are being conducted under a Cleanup and Abatement Order issued by the RWQCB. Details follow regarding these ongoing investigation and remediation activities.

Constituents of concern in groundwater beneath the site include gasoline, diesel, volatile organic compounds (VOCs), and fuel oxygenates. One or more of these constituents have been detected in the water table aquifer, the Gage Aquifer, and the Lynwood Aquifer. As of March 2009, no chemicals of concern have been detected in the nearest active production (drinking water) wells.

Remediation activities at the site consist of light non-aqueous phase liquid (LNAPL) recovery (since January 1977). Currently, there are 9 fixed LNAPL recovery/groundwater remediation systems (pump-and-treat) and several mobile LNAPL recovery units operating on site and at

the site perimeter (to control off-site migration of LNAPL). As of the end of 2009, cumulative LNAPL recovered from groundwater totals 489,591 barrels (20,562,808 gallons).

Additionally, ARCO is a member of the Carson Regional Groundwater Group (CRGG), which is a group of refineries that are working with the USEPA and RWQCB to track commingled dissolved phase plumes in the region. CRGG is working with USEPA, RWQCB, the United State Geological Survey (USGS), and WRD to develop a 3-dimensional groundwater flow model to better understand the potential flow paths of LNAPL, petroleum hydrocarbon constituents, & fuel oxygenates to receptor wells (i.e., nearby drinking water production wells) in the region. CRGG has also installed multiple groundwater monitoring wells throughout the region that are screened in the Gage, Lynwood, and Silverado Aquifers. These wells are sampled on a semi-annual basis.

FORMER ASHLAND CHEMICAL COMPANY (CITY OF SANTA FE SPRINGS, CENTRAL BASIN, WHITTIER AREA)

The 10-acre site is currently developed as a business park, with 16 active commercial buildings. From the 1960s through January 2002, Ashland Chemical Company conducted chemical blending, packaging, and distribution at the site. There were 46 underground storage tanks (USTs) and 61 aboveground storage tanks (ASTs) used as part of the site operations. Soil and groundwater contamination has occurred at the site, but the site is actively undergoing investigation and remediation activities. Details follow regarding these ongoing investigation and remediation activities.

Chemicals of concern in groundwater beneath the site (specifically, the merged Artesia/Gage Aquifers) are volatile organic compounds (VOCs). The two nearest drinking water production wells are also contaminated with VOCs, specifically tetrachloroethene (PCE) and/or trichloroethene (TCE), with concentrations over their respective Maximum Contaminant Levels (MCLs). Both wells currently have wellhead treatment systems.

Soil removal actions and soil vapor extraction was conducted at the site between 1998 and 2003. In 2003, the RWQCB issued a "no further action" letter for site soils. Since 1990, groundwater pump-and-treat has been conducted on site to reduce VOC concentrations in VOCs in groundwater. Overall, over 8,800 pounds of VOCs have been recovered from groundwater. Additionally, air sparging was conducted from April 1998 through 2003 at the north portion of the site to enhance groundwater cleanup and reduce off-site VOC concentrations in groundwater.

In March and April 2010, two well clusters were installed at two off-site, downgradient locations, i.e. northwest of the site, to further assess the vertical and lateral extent of groundwater contamination. One of these wells was screened in the Hollydale Aquifer and the others were screened in the merged Artesia/Gage Aquifers. These new wells are expected to be first sampled in August 2010 and included in the subsequent semi-annual monitoring events.

FISCAL IMPACT

None at this time.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. 5

Prepared by: Ted Johnson

Reviewed by: Phuong Ly

Approved by: Robb Whitaker

DATE: AUGUST 24, 2010
TO: GROUNDWATER QUALITY COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: GROUNDWATER QUALITY PROJECTS / PROGRAMS

The Committee requested an overview of the various projects and programs covered by the Groundwater Quality Committee. At the present time, these include the following:

002 – Robert W. Goldsworthy Desalter Project: Extracts brackish groundwater from the saline plume in the West Coast Basin to assist with basin cleanup and treats the water for potable use.

006 – Groundwater Quality Program: Numerous initiatives that deal with clean and contaminated groundwater, including the Central Basin Title 22 program, Contamination Prevention Program, Abandoned Wells Program, Water Augmentation Study, and drinking water quality regulations and research.

010 – Geographic Information System (GIS): Database, mapping, graphics, and analysis program which manages the water quality data at the District. Responsibilities shared with the Water Resources Committee due to water supply and water level data management.

011 – Regional Groundwater Monitoring Program: Provides for the collection of water levels and water quality data from the District's monitoring well network and purveyor's production wells and preparation and publication of the annual Regional Groundwater Monitoring Report. Responsibilities shared with the Water Resources Committee due to topics related to water levels and pumping amounts.

012 – Safe Drinking Water Program: Provides grants or loans to owners of production wells to construct wellhead treatment facilities to remove impurities from the extracted groundwater. A total of fifteen facilities have been completed to date.

025 – Hydrogeology Program: Shared responsibilities with the Water Resources Committee; this program includes water quality and water level analyses of the basins, including preparation and publication of the Engineering Survey and Report, water well profiling, computer model development, and saline plume investigation.

FISCAL IMPACT

None at this time.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. 6

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

DATE: AUGUST 24, 2010
TO: GROUNDWATER QUALITY COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: TIME AND FEE AMENDMENT TO MWH LABORATORIES PROFESSIONAL SERVICES AGREEMENT FOR WATER QUALITY TESTING

SUMMARY

WRD currently uses MWH Laboratories to perform analytical testing for the majority of our water quality samples, including the following programs:

- Regional Groundwater Monitoring Program (including NPDES discharge requirements);
- Montebello Forebay Recycled Water Permit Compliance and Research Testing;
- Alamos Barrier Recycled Water Permit Compliance and Water Quality Testing;
- Harbor Water Recycling Project – Dominguez Gap Barrier Permit Compliance and Water Quality Testing; and
- Water Quality Program - Various water quality investigations and research initiatives.

The current 3-year contract with MWH Laboratories will expire on October 31, 2010. Staff had originally intended to issue a Request for Proposal (RFP) to qualified laboratories for competitive bidding on a new 3-year contract before the current one expired. However, recent staff changeover has impacted and delayed the schedule. Therefore, Staff is recommending extending MWH's contract through June 30, 2011 (the end of the District's Fiscal Year) to allow time for preparation and evaluation of the RFP and laboratory selection. The extension to June 30, 2011 will also adjust the 3-year contract term to run on a Fiscal Year basis instead of a November 1 – October 31 basis, which will work more efficiently with District budgeting.

MWH Laboratories has done an excellent job for the District to date by being highly responsive, having equipment and staff available to handle District peak workloads, being on the leading edge of analytical capabilities related to groundwater, recycled water, general water quality, and emerging chemicals, having an automated data delivery system to incorporate test results directly into WRD's databases, and establishing a sample bottle labeling and delivery system which greatly assists WRD field staff in collecting samples and submitting them to the laboratory. In addition, MWH Laboratories discounted their rates to WRD by 35% compared to their 2006 rates, and have not increased rates to WRD over the course of the current 3-year agreement. Their rates to WRD are currently lower than any

other laboratory rates identified by Staff and they have committed to keeping their existing low rates during the time extension of the contract to June 30, 2011.

FISCAL IMPACT

Laboratory services are provided throughout the year as samples are collected. For the current Fiscal Year, a total of \$1.13 million is budgeted for laboratory services under this program. However, since services will only be rendered for 8 months (November – June), prorated fees are estimated at \$700,000. Including a 10% contingency, the total requested amount is \$770,000.

STAFF RECOMMENDATION

Amend the existing contract with MWH Laboratories, subject to approval of form by District Council, to extend the contract termination date to June 30, 2011 and increase the budgetary amount by an additional \$700,000 plus a \$70,000 contingency for a total of \$770,000.