

**REGULAR MEETING OF THE GROUNDWATER QUALITY COMMITTEE
OF THE BOARD OF DIRECTORS
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
12621 E. 166th Street (Corner, Bloomfield & 166th), Cerritos, California
1:00 P.M., OCTOBER 18, 2004**

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 AN "ACTION" TAKEN BY THE BOARD OR A COMMITTEE AT THE SAME MEETING.

- I. DETERMINATION OF A QUORUM**
- II. PUBLIC COMMENT**
- III. MINUTES OF THE REGULAR GROUNDWATER QUALITY COMMITTEE MEETING OF SEPTEMBER 20, 2004**
Staff Recommendation: Approve the minutes as submitted.
- IV. AMERICAN WATER WORKS RESEARCH FOUNDATION RENEWAL**
Staff Recommendation: Recommend the Board renew the District's membership in the American Water Works Research Foundation for \$40,000 for the period October 2004 to September 2005.
- V. AB303 GRANT APPLICATION RESOLUTION**
Staff Recommendation: Adopt Resolution No. 04-721 approving submittal of applications for financial aid under the Local Groundwater Management Assistance Act of 2000.
- VI. WATER AUGMENTATION STUDY, PHASE II UPDATE**
Staff Recommendation: For information.
- VII. GROUNDWATER CONTAMINATION UPDATE**
Staff Recommendation: For information.
- VIII. SAFE DRINKING WATER PROGRAM UPDATE**
Staff Recommendation: For information.
- IX. ROBERT W. GOLDSWORTHY DESALTER UPDATE**
Staff Recommendation: For information.
- X. ADJOURNMENT**

Agenda posted by Abigail C. Andom, Deputy Secretary, October 13, 2004.

UNAPPROVED
MINUTES

UNAPPROVED
MINUTES

**MINUTES OF SEPTEMBER 20, 2004
A REGULAR MEETING OF THE GROUNDWATER QUALITY COMMITTEE
OF THE BOARD OF DIRECTORS
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA**

A regular meeting of the Groundwater Quality Committee of the Board of Directors of the Water Replenishment District of Southern California was held on September 20, 2004, at 1:01 p.m., at the District Office, 12621 E. 166th Street, Cerritos, California. Chairperson Robert W. Goldsworthy called the meeting to order and presided thereover. Deputy Secretary Abigail C. Andom recorded the minutes.

I. DETERMINATION OF A QUORUM

Committee: Directors Robert Goldsworthy and Albert Robles
Staff: Mario Garcia, Ted Johnson, Hoover Ng, Nancy Matsumoto,
Charlene King, Paul Fu

II. PUBLIC COMMENT

None.

**III. MINUTES OF THE REGULAR GROUNDWATER QUALITY COMMITTEE
MEETING OF AUGUST 9, 2004**

The minutes were approved as submitted.

IV. LABORATORY SERVICES AGREEMENT

Senior Engineer Hoover Ng stated the contract with the District's current provider of laboratory services, MWH Laboratories, will expire on October 31, 2004. Mr. Ng explained WRD utilizes laboratory services in analyzing groundwater samples for a number of projects and programs, including the following: Montebello Forebay, Goldsworthy Desalter Project, Harbor Water Recycling Project, Leo J. Vander Lans Water Treatment Facility, Regional Groundwater Monitoring Program, and other Water Quality Improvement Projects.

Mr. Ng stated a request for proposals (RFP) was issued on August 3, 2004 for issuance of a new contract. The new contract would again be for a period of three years to take advantage of expected competitive pricing due to the large volume of anticipated samples over several years. Mr. Ng said the RFP was sent to twelve laboratories and was also published in a local newspaper and posted on the District's website. Five proposals were received: Columbia Analytical, MWH Laboratories, Del Mar Analytical, Truesdail Laboratories, and Weck Laboratories.

Mr. Ng stated a review committee consisting of District staff members Ted Johnson, Tony Kirk and Hoover Ng, and California Water Service Company's Water Quality Project Manager Katherine Brohpy reviewed

the proposals. Each reviewer gave MWH Laboratories the highest score. Mr. Ng explained the review committee felt that MWH Laboratories was the most experienced in terms of offering all of the requested services, especially knowledge and familiarity of pending regulations for emerging contaminants and new methods of analysis for them. MWH also had very extensive experience with both water and wastewater analyses.

Mr. Ng also noted the District provided an estimate of the number of each type of analysis that would likely be required, and each laboratory provided unit costs. To compare the costs, the total expense for each test was calculated and the total cost for all tests was tabulated for each laboratory. The average total annual cost of all five proposals is \$743,000. MWH Laboratories was the second lowest estimate at \$678,000. The laboratory with the lowest cost did not have extensive experience in performing drinking water analyses nor the depth of knowledge regarding emerging contaminants or new methods of analysis.

Lastly, Mr. Ng stated staff has also been satisfied with the current performance of MWH Laboratories. They have provided very satisfactory service, offered insight into evaluating new methods for analysis, coordinated a workshop on emerging contaminants, and provided assistance in developing new sampling programs.

The Committee concurred with staff's recommendation and requested that this item be taken to the Board for approval.

V. NDMA FATE AND TRANSPORT INVESTIGATION

Mr. Ng provided the Committee with an update on the District's participation in the WaterReuse Research Foundation Study, "Investigation of NDMA Fate and Transport," which the Board approved on January 21, 2004. West Basin Municipal Water District (WBMWD), together with other agencies, officially began the project in April 2003 and expects to complete it in spring 2005.

Chief Hydrogeologist Ted Johnson also informed the Committee that the Los Angeles County Sanitation Districts recently awarded a \$2.5 million contract to study NDMA for the recycled water used for spreading in the Montebello Forebay.

VI. GROUNDWATER CONTAMINATION UPDATE

Senior Hydrogeologist Nancy Matsumoto stated the stakeholders group consisting of WRD, EPA, USGS, RWQCB, DTSC, and the City of Santa Fe Springs is in the process of finalizing a memorandum of understanding that will formalize guidelines for the members to share data and manage site monitoring and cleanup efforts. Ms. Matsumoto noted the group is waiting for comments from the RWQCB.

Ms. Matsumoto presented an overview of two cleanup investigations at various high-priority sites within the District. The case files presented were Northrop Grumman (formerly TRW Hawthorne Facility) and Thrifty Oil Station #289 (Arco #9669). Ms. Matsumoto also provided a list of case sites evaluated to date by staff.

VII. SAFE DRINKING WATER PROGRAM UPDATE

Assistant Engineer Charlene King provided an update on the District's Safe Drinking Water Program. Ms. King noted Norwalk Well 8 owned by the City of Norwalk continues to seek final approval from the California Department of Health Services (DHS) regarding water quality issues in iron, manganese, mercury, etc. before it can be placed on-line; Southern California Water Company's (SCWC) Converse Well is currently finalizing the contract with Pacific Hydrotech and will utilize the treatment vessels from the Hoffman Well Project; the Cal Water Service Commerce Well 4L project will be re-bid in accordance with the revised WRD procurement policy; and SCWC Imperial Wells 1,2, and 3 will be re-bid once SCWC revises the bid package.

VIII. ROBERT W. GOLDSWORTHY DESALTER UPDATE

Senior Engineer Paul Fu provided the Committee with an update on the Desalter. Dr. Fu said the Desalter delivered approximately 220 acre-feet of potable water to the City of Torrance in August 2004. He stated that chloride levels remained within 1,050 to 1,200 mg/L with an average concentration of 1,107 mg/L.

Dr. Fu also stated annual quantity of water delivered to the City of Torrance was approximately 2,412 acre-feet for the period September 2003 through August 2004. He noted that chloride concentrations for the year have been very consistent and remained within a narrow range throughout the year.

IX. ADJOURNMENT

There being no more business to come before the Committee, the meeting was adjourned at 1:45 p.m.

Chairperson

ATTEST:

Director



MEMORANDUM

ITEM NO. IV

Prepared by: Hoover Ng

Reviewed by: Ted Johnson

DATE: OCTOBER 18, 2004

TO: GROUNDWATER QUALITY COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: AMERICAN WATER WORKS RESEARCH FOUNDATION RENEWAL

SUMMARY

The American Water Works Association Research Foundation (AWWARF) sponsors applied research for all aspects of the drinking water industry including water resources, supply, quality, and distribution. AWWARF is funded through subscriber membership fees, which are typically based on the annual amount of water delivered or served to customers. Other subscribers include the Central and West Basin Municipal Water Districts, the Los Angeles Department of Water and Power, Long Beach Water Department and the Metropolitan Water District of Southern California. Membership affords WRD and local purveyors' access to and participation in state-of-the-art research developments in the water industry, and also maximizes leverage of pooling resources for mutually beneficial projects and investigations.

In recent years, AWWARF has conducted or sponsored research projects of particular relevance to WRD and our purveyors, including:

- Increased security of water systems
- Soil aquifer treatment of reclaimed water
- Tracing movement of contaminants through aquitards
- Groundwater contamination – arsenic, chromium, and perchlorate
- Desalination
- Iron and manganese treatment
- Evaluation of membrane technologies
- Wellhead treatment methods
- Disinfection byproducts (DBP's)
- Enhanced communication on drinking water issues

AWWARF has requested payment of \$40,000 for continued subscription for the period October 2004 to September 2005.

FISCAL IMPACT

\$40,000 has been budgeted for FY 04-05.

STAFF RECOMMENDATION

Recommend the Board renew the District's membership in the American Water Works Association Research Foundation for \$40,000 for the period October 2004 to September 2005.



MEMORANDUM

ITEM NO. V

Prepared by: Jason Weeks

Reviewed by: Mario Garcia

DATE: OCTOBER 18, 2004

TO: GROUNDWATER QUALITY COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: AB303 GRANT APPLICATION RESOLUTION

SUMMARY

In September 2000 the California General Assembly approved the Local Groundwater Management Assistance Act of 2000, known as AB303. The goal of AB303 is to help local agencies better understand how to manage groundwater resources effectively to ensure the safe production, quality, and proper storage of groundwater in the State.

AB303 created the Local Groundwater Assistance Fund from which the Department of Water Resources awards grants to local agencies to conduct groundwater studies or to implement groundwater monitoring and management activities. In Fiscal Year 2004/05, six million dollars is available with the maximum grant to a single agency limited to \$250,000.

Grants will be awarded for groundwater studies and projects that will contribute to basin and sub-basin management objectives including groundwater monitoring, groundwater basin management and groundwater studies. Priority is given to local public agencies that: (1) have adopted and implemented a groundwater management plan, or other formalized basin-wide planning program for its groundwater resources; and (2) demonstrate collaboration with other local public agencies regarding management of their groundwater basin or sub-basin.

One of the requirements of the application is a resolution by an agency's governing authority designating an authorized representative to file an application and enter into an agreement for a grant.

District Staff plans to re-submit the AB303 application for the *Central Basin Groundwater Contamination Study* that was originally submitted on January 27, 2004. Based on discussions with DWR staff, the deficiencies in the prior submittal of this application are easily remedied and therefore provide the District with a higher probability of securing grant funding.

If successful, the grant funds will allow WRD, in cooperation with the United States Geological Survey (USGS), California Department of Toxic Substances Control (DTSC), United States Environmental Protection Agency (USEPA), and Los Angeles Regional Water Quality Control Board (LARWQCB), to continue the investigation into the threat posed by shallow groundwater contamination on the drinking water supply in the northeastern portion of the Central Basin.

This project has been discussed at previous Groundwater Quality Committee and Board meetings. Previously, the Board authorized staff to enter into a Memorandum of Understanding (MOU) with the USEPA, DTSC, RWQCB, USGS, and the Southern California Water Company (SCWC) to further investigate groundwater contamination in the Central Basin.

Attached for the committee's review is a draft resolution that is required as part of the grant application.

FISCAL IMPACT

None at this time.

STAFF RECOMMENDATION

Adopt Resolution No. 04-721 approving submittal of applications for financial aid under the Local Groundwater Management Assistance Act of 2000.

RESOLUTION NO. 04-721

**A RESOLUTION OF THE BOARD OF DIRECTORS OF
THE WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
REGARDING AN APPLICATION FOR A GRANT PURSUANT TO THE LOCAL
GROUNDWATER MANAGEMENT ASSISTANCE ACT OF 2000 (WATER
CODE SECTION 10795 *et seq.*)**

WHEREAS, the Water Replenishment District of Southern California ("WRD") is a special district created under the laws of the State of California charged with the responsibility of replenishing the West Coast Ground Water Basin and the Central Ground Water Basin and maintaining the groundwater quality in said basins; and

WHEREAS, the Local Groundwater Management Assistance Act of 2000 authorizes the California Department of Water Resources to issue grants for certain projects related to groundwater studies, groundwater monitoring, or groundwater management; and

WHEREAS, WRD seeks to obtain such a grant for a potentially eligible project.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Water Replenishment District of Southern California hereby:

Approves the submittal of an application to the California Department of Water Resources to obtain a Local Groundwater Assistance grant pursuant to the Local Groundwater Management Assistance Act of 2000 (Water Code Section 10795 *et seq.*), and to enter into an agreement to receive a grant for the Central Basin Groundwater Contamination Study.

The General Manager of the Water Replenishment District of Southern California is hereby authorized and directed to prepare the necessary data, make investigations, execute, and file such an application and execute an agreement with the California Department of Water Resources to accept the grant.

Passed, adopted and approved at the regular meeting of the Board of Directors of the Water Replenishment District of Southern California on November _____, 2004.

ATTEST:

President

Secretary



MEMORANDUM

ITEM NO. VI

Prepared by: Hoover Ng

Reviewed by: Ted Johnson

DATE: OCTOBER 18, 2004
TO: GROUNDWATER QUALITY COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: WATER AUGMENTATION STUDY, PHASE II UPDATE

SUMMARY

The District is a member of the Los Angeles and San Gabriel Rivers Watershed Council (Council), whose mission statement is *"To facilitate a comprehensive, multi-purpose, stakeholder driven consensus process to preserve, restore, and enhance the many beneficial uses, economic, social, environmental and biological, of the Los Angeles and San Gabriel Rivers watersheds ecosystem through education, research, planning and mediation."* One of their objectives has been to study alternative approaches to reducing storm water flows in both rivers and to capture storm water for local beneficial uses. As a result, the Water Augmentation Study (WAS) was implemented in early 2001 to evaluate the feasibility of capturing storm water at localized sites, and allow it to percolate back into the ground in lieu of directing it into storm drains, which would result in ultimate discharge into the ocean. Of particular interest was determining 1) if the quality of storm water would have any adverse impacts after percolating into the ground at localized sites, such as industrial lots and parking lots and 2) how much water might be recaptured in the groundwater basins.

In Phase I during 2001-02, two sites in Santa Monica (Imax) and Pacoima (Broadous Elementary School) were constructed with facilities to capture and infiltrate storm runoff. Shallow monitoring wells and lysimeters were installed to measure the quality of groundwater before and after infiltration. Because only two very light storm events occurred during this phase, a limited amount of data had been collected. Based on the data collected, the preliminary conclusion is that storm water does not impact groundwater quality. The District contributed \$50,000 to this phase of work.

In Phase II, which started in 2002 and is in progress, the study has been expanded to include 6 sites throughout Southern California. Three of these sites are in the District's service area. These sites are representative of industrial, commercial, and residential uses. In August 2002, the Board authorized an expenditure of \$75,000 out of a total budget of \$2.5 million. The Council recently completed the Water Augmentation Study Phase II Annual Monitoring Report. Copies will be provided to the Committee. A new infiltration model is being prepared by the U.S. Department of the Interior Bureau of Reclamation as part of Phase II to determine the potential amount of storm runoff that might be recaptured throughout the watershed.

In future phases, a greater variety of Best Management Practices (BMP's), such as media filtration, porous pavements, grass swales, and biofilters, will also be tested under various site conditions.

Information about the Water Augmentation Study is available on the website, <http://www.lasgrwc.org/WAS.htm> . Suzanne Dallman, Manager of Stormwater Programs for the Council, will provide additional information to the Committee.

FISCAL IMPACT

None.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. VII

Prepared by: Nancy Matsumoto

Reviewed by: Ted Johnson

DATE: OCTOBER 18, 2004

TO: GROUNDWATER QUALITY COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: GROUNDWATER CONTAMINATION UPDATE

SUMMARY

As reported in previous updates, several major cleanup investigations are currently in progress at various sites in Santa Fe Springs. A Final Draft Memorandum of Understanding (MOU) was distributed at the group's May 27th meeting for review and signature between the stakeholders (WRD, EPA, USGS, RWQCB, DTSC, City of Santa Fe Springs). This MOU will formalize guidelines for these agencies to work cooperatively in sharing data and managing site monitoring/cleanup efforts. At the last group meeting on September 16th, the RWQCB indicated that they had additional comments to the MOU. At this writing, another round of MOU review and comment is in progress between the stakeholders.

As reported previously, WRD has initiated a District-wide investigation to identify and prioritize WRD's level of effort in assisting regulatory agencies in overseeing monitoring and remediation of high-priority groundwater contamination sites across the District. WRD staff completed weekly visits to the DTSC and RWQCB offices, to review case files on their highest-priority groundwater contamination sites (as identified by DTSC and RWQCB personnel). Staff generated concise summaries of these case files. At the last Santa Fe Springs MOU group meeting on September 16th, the RWQCB stated that they had several additional sites they wanted WRD to review. Thus, WRD staff are continuing their case file reviews at RWQCB, as well as case file reviews at the local EPA repositories. Staff will continue to provide monthly updates on these case file reviews to the Committee as this effort proceeds.

Summaries of two RWQCB case files recently reviewed are attached as reference, and will be discussed at the Committee meeting.

FISCAL IMPACT

None.

STAFF RECOMMENDATION

For information.

Boeing Realty Corp
(Former C-1 Facility)
Key Facts At A Glance
Last Update: 8/4/04

Location:	3855 Lakewood Blvd Long Beach, CA 90808 Located in the Central Basin Nearest active production well is located 0.55 mile east of the site
Description:	The former Boeing C-1 Facility was an aircraft manufacturing, testing and repair facility from 1941 to 1997. Hazardous materials used at the site include petroleum fuels, oils, lubricants, solvents, plating solutions, metal striping solutions, acid-etching, paint and primer coating, PCBs in transformers, hydraulic and cutting oils, coolants and adhesives. The property is bounded on the north and west by mixed residential and retail property, to the east by Lakewood Blvd and the south by the Long Beach Airport. The site occupies approximately 343 acres.
Chemicals of Concern in Groundwater:	1,1-dichloroethylene (1,1-DCE), 1,1,1-dichloroethane (1,1,1-DCA), Cis-1,2-DCE, Chloroform, Hexavalent Chromium, Methyl Chloride, MTBE, Tetrachloroethene (PCE), Trichloroethylene (TCE), metals, 1, 4-dioxane (TCE typically detected at the highest concentration and over the broadest area)
Extent:	VOCs (TCE, PCE and Methyl Chloride), hexavalent chromium and fuel-related compounds are the most prevalent compounds detected in groundwater. 15 groundwater plumes have been identified in the Bellflower Aquitard. The first laterally continuous aquifer identified under the facility is the Gage aquifer. Groundwater impacts occur primarily in the overlying Bellflower aquitard but may migrate vertically down into the Artesia and Gage aquifers, which show seasonal water level variations up to 15 feet. There is a consistent downward vertical gradient at the Site. Most of the Bellflower aquitard is to a large degree hydraulically relatively isolated from the underlying Artesia and Gage aquifers, which exhibit relatively large seasonal water level variations. However, the Artesia and Gage aquifers are part of the shallow regional aquifer system and currently not used for water supply.
Monitoring:	Routine periodic groundwater monitoring began in 1996 and continues on a semi-annual basis (first data submittal was in 2001). 107 groundwater monitoring wells sampled during 2003. Depths to first water range from 30 to 45 feet bgs; water table groundwater flow is generally to the south-southwest in the western-most portion of the Site; and to the southeast in the eastern portions of the Site. Groundwater flow appears to be directed radially away from Bouton Lake and it appears that leakage from the lake serves as a source of local recharge to the water table. The direction of groundwater flow in the Gage aquifer, which is the base of the shallow aquifer system, varies seasonally from southwest to east. Per March 2004, Artesia Aquifer groundwater flow to the northeast Per March 2004, Gage Aquifer groundwater flow is to the west-southwest
Remediation:	Currently, no groundwater remediation activities are being conducted. Site-wide assessment report completed in Feb 2002.
Procedures:	BRC retains their own consultant, Hargis + Associates (San Diego, CA), to manage groundwater monitoring and reporting to RWQCB. England Geosystem will conduct soil investigations.
Stakeholders:	Boeing Realty Corporation – property owner Regional Groundwater Quality Control Board (RWQCB) –lead regulatory agency, City of Long Beach

Boeing Realty Corp
Former C-6 Facility
Key Facts At A Glance
Last Update: 7/28/04

Location:	19503 South Normandie Ave Los Angeles, CA 90660 Located in the West Basin Nearest active production well is located 1.4 miles north of the site.
Description:	The site occupies approximately 170 acres and is bound on the north by 190 th Street, on the east by Normandie Ave and the Del Amo Superfund site, on the west by the former Industrial Light Metals (ILM) facility, and on the south by the Montrose Superfund site, Jones and Stauffer Chemical facilities and a residential area. Prior to 1940, land use was farmland. From 1940 to 1952, industrial use included aluminum and steel production. The site was used for manufacturing aircraft and aircraft parts between 1952 and 1992. A limited amount of assembly and warehouse related activities continued through 2000. Since then, the remaining buildings and infrastructures have been demolished and removed. Parcels A, B, and D of the property have been sold. Boeing Realty has retained Parcel C, installed new infrastructure (streets, sewers, storm drains, and utilities) and plans to redevelop and lease subdivided lots.
Chemicals of concern in groundwater:	Primary VOCs: 1,1-dichloroethene (1,1-DCE), 1,1,1-TCA, Trichloroethylene (TCE) Also: 1,1,1-trichloroethane (1,1,1-DCA), cis-1,2-DCE, Chloroform, Methyl Ethyl Ketone (MEK), Toluene, Tetrachloroethene (PCE)
Extent:	Soil contamination by VOC releases appear to be from metal finishing processes and releases from one or more clarifiers. Two plume areas of elevated VOCs are below Buildings 1/36 and Building 2, impacting the Bellflower Aquitard (the uppermost saturated unit is the Middle Bellflower B-Sand) of the Lakewood Formation. VOC impacts to shallow groundwater in these areas appear to substantiate the overlying deep soil VOC impacts. Currently, groundwater in the Bellflower Aquitard is not produced for domestic, industrial or agricultural purposes. However, the site is surrounded by several properties with documented groundwater impacts which have migrated onto the site because of regional groundwater flow direction.
Monitoring:	Semiannual monitoring: 24 groundwater monitoring wells sampled, 34 measured for groundwater elevation (including offsite monitoring wells shared by neighboring facilities). 9 groundwater bioremediation wells installed. Groundwater monitoring wells at the site have only been installed within the Bellflower Aquitard, which extends to a depth of approximately 140 feet below ground surface (bgs). The uppermost groundwater appears to be under water table conditions at depths of 60-70 ft bgs. Most of the site's groundwater monitoring wells is screened near the water table at depths ranging from 55-90 ft bgs.
Groundwater gradient:	In the middle Bellflower, flow is to the south, approximately 0.001 ft/ft (from March 2004 annual contour data).
Remediation:	Soil and groundwater have been investigated since 1987. Over 8000 soil samples, 43 groundwater monitoring wells and 44 depth discrete groundwater sampling locations have been drilled and sampled. Currently, source-area soil impacts are being addressed through soil vapor extraction (SVE) treatment and vapor phase granular activated carbon adsorption vessels. Building 1/36 plume: SVE pilot testing operated from June 2001-March 2002. Full scale SVE operating since May 2002. SVE systems have removed over 9,100 lbs. of VOCs Building 2 plume: SVE pilot test operated from Oct-Nov 2001 and began full scale operation on November 27, 2001. SVE wells are targeting contaminated soils screen from 15-35 feet and 45-65 feet bgs. SVE systems have removed approximately 2,950 lbs. of VOCs. An In-Situ Reactive Zone (IRZ) bioremediation system was installed at the site in Sept 2003. The IRZ system consists of 149 IRZ injection wells and 8 IRZ monitoring wells.
Procedures:	BRC retains their own consultant, Haley & Aldrich Inc. (San Diego, CA), to manage groundwater monitoring, SVE and reporting to RWQCB
Stakeholders:	Boeing Realty Corporation – property owner Regional Groundwater Quality Control Board (RWQCB) –lead regulatory agency



MEMORANDUM

ITEM NO. VIII

Prepared by: Charlene King

Reviewed by: Mario Garcia

DATE: OCTOBER 18, 2004
TO: GROUNDWATER QUALITY COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: SAFE DRINKING WATER PROGRAM UPDATE

SUMMARY

The District is currently managing several projects under its Safe Drinking Water Program (SDWP), which provides wellhead treatment facilities to remove contaminants and improve water quality. The following is a brief update of activities:

- 1) **Norwalk Well 8 (City of Norwalk):** Additional water quality samples were taken on September 24th to confirm earlier testing that showed detectable levels of mercury. The lab findings determined that the iron and manganese are below the MCL. The mercury was at non-detect (ND), and the level of 1, 2-Dichloroethane was 9.5 ug/L, which is 1 ½ times the MCL. The treatment system was designed to treat 1, 2 Dichloroethane; however, if contamination levels continue to rise, carbon replacements will occur more frequently.
- 2) **Converse Well (SCWC):** A pre-construction meeting was held September 23, 2004 between SCWC, Pacific Hydrotech, and WRD. Construction is scheduled to begin September 29 and complete by the end of the calendar year. The Converse Well Project will use the treatment vessels from the Hoffman Well Project.
- 3) **Commerce Well 4L (operated by Cal Water Service):** The project is awaiting the finalization of proposed changes to WRD's procurement policy as it relates to Small Business Enterprise (SBE) participation. Once the policy changes are resolved, the project will be re-bid in accordance with the new WRD procurement policy.
- 4) **Imperial Wells 1, 2, & 3 (SCWC):** SCWC is currently revising the bid package and plans to re-bid the project.

The District has received other project requests for both VOC wellhead treatment and secondary or non-anthropogenic contaminants. In the interim, these requests have been put on hold pending the outcome of the debt financing process. Since it does not appear that the Safe Drinking Water Program will be funded through debt financing, no new projects are recommended for the current fiscal year. A letter to the requesting agencies will be drafted to inform them of this situation.

FISCAL IMPACT

The existing projects total \$2.8 million and were included in previous years' budgets under the Safe Drinking Water Program.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. IX

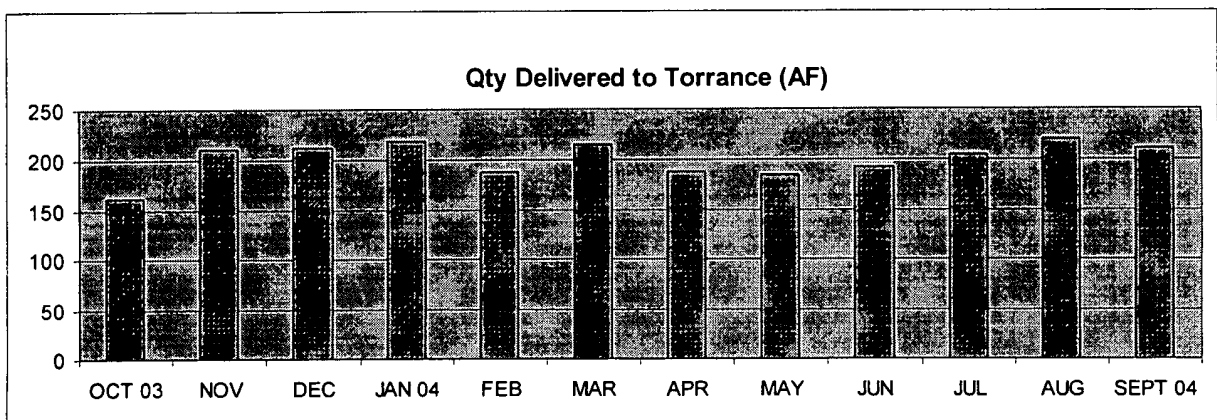
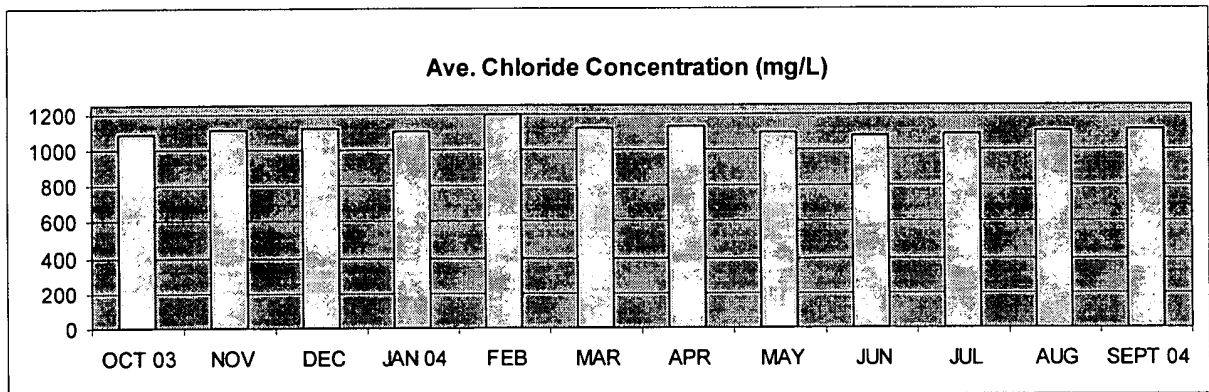
Prepared by: Paul Fu

Reviewed by: Mario Garcia

DATE: OCTOBER 18, 2004
TO: GROUNDWATER QUALITY COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: ROBERT W. GOLDSWORTHY DESALTER UPDATE

SUMMARY

The Goldsworthy Desalter delivered approximately 210 acre-feet of potable water to the City of Torrance in September 2004. During the month, the chloride level in the well water remained within 1,040 to 1,280 mg/L with an average concentration of 1,108 mg/L. The charts below summarize the monthly water deliveries to Torrance and average chloride concentrations from October 2003 through September 2004. The chloride concentrations have been very consistent and remained within a narrow range throughout the year. Total annual quantity of water delivered to City of Torrance is approximately 2,403 acre-feet. The Desalter was online (i.e., in production) for 91 percent of the past year.



FISCAL IMPACT

None.

STAFF RECOMMENDATION

For information.