

**REGULAR MEETING OF THE GROUNDWATER QUALITY COMMITTEE  
OF THE BOARD OF DIRECTORS  
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA  
12621 E. 166<sup>th</sup> Street (Corner, Bloomfield & 166<sup>th</sup>), Cerritos, California  
1:00 P.M., SEPTEMBER 20, 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 AUGUST 9, 2004**

Staff Recommendation: The Committee approves the minutes as submitted.

**IV. LABORATORY SERVICES AGREEMENT**

Staff Recommendation: That the Committee recommends the Board enters into an agreement, subject to approval as to form by District Counsel, with MWH Laboratories for analytical laboratory services in an amount not to exceed \$750,000 annually for three years.

**V. NDMA FATE AND TRANSPORT INVESTIGATION**

Staff Recommendation: For information.

**VI. GROUNDWATER CONTAMINATION UPDATE**

Staff Recommendation: For information.

**VII. SAFE DRINKING WATER PROGRAM UPDATE**

Staff Recommendation: For information.

**VIII. ROBERT W. GOLDSWORTHY DESALTER UPDATE**

Staff Recommendation: For information.

**IX. ADJOURNMENT**

Agenda posted by Abigail C. Andom, Deputy Secretary, September 16, 2004.

**MINUTES OF AUGUST 9, 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 August 9, 2004, at 2:36 p.m., at the District Office, 12621 E. 166<sup>th</sup> Street, Cerritos, California. Chairperson Norm Ryan called the meeting to order and presided thereover. Tracey A. Burke recorded the minutes.

**I. DETERMINATION OF A QUORUM**

Committee: Directors Norm Ryan and Albert Robles

Staff: Mario Garcia, Nancy Matsumoto, Hoover Ng, Paul Fu

Guests: Paul Cook, Central and West Basin Municipal Water Districts

**II. PUBLIC COMMENT**

None.

**III. MINUTES OF THE REGULAR GROUNDWATER QUALITY COMMITTEE MEETING OF JULY 12, 2004**

The minutes were approved as submitted.

**IV. REQUEST FROM CENTRAL BASIN MUNICIPAL WATER DISTRICT FOR EXTENSION OF NON-CONSUMPTIVE WATER USE PERMIT**

Assistant General Manager/Chief Engineer Mario Garcia presented a brief overview of the request from Central Basin Municipal Water District (CBMWD).

Director Ryan asked whether this was the first extension to be requested. Mr. Garcia replied that it was not, that CBMWD had previously been granted a one year extension.

Discussion followed. Director Robles moved that the Committee recommend that the Board grant an extension for one year, or until the project is online, whichever comes first. Director Ryan seconded the motion.

**V. GROUNDWATER QUALITY – ACTION LEVELS UPDATE**

Senior Engineer Hoover Ng spoke of how the State Department of Health Services currently uses action levels. If they are exceeded, they require Local Government Notification and recommend Consumer Notice. They would also recommend Removal of Source from Service, if it exceeds 10 times or 100 times the level designated.

Mr. Ng said that AB2528 (Lowenthal) proposes to replace “action levels” with the new terms “notification level” and “response level”.

Director Ryan stated that he believed the new terms were a very good idea.

## **VI. GROUNDWATER CONTAMINATION UPDATE**

Senior Hydrogeologist Nancy Matsumoto noted that WRD is a member of a stakeholders group consisting of the WRD, EPA, USGS, RWQCB, DTSC, and the City of Santa Fe Springs. In September, 2004, the group should finalize a memorandum of understanding that will formalize guidelines for the members to share data and manage site monitoring and cleanup efforts.

Ms. Matsumoto presented an overview of two more cleanup investigations at various high-priority sites within the District. She detailed the District’s investigation, identification, and prioritization of groundwater contamination sites.

In response to a question from Director Robles, Ms. Matsumoto explained some of the ways soil remediation is performed and how soil contaminants may be removed at the cleanup sites.

Ms. Matsumoto said that at next month’s Committee meeting, she will provide a list of the sites that have been reviewed to date.

Director Ryan complimented staff on the materials it provides with these updates, saying that it makes it easier for those who are not water experts to understand the process.

## **VII. WRD DESALTER UPDATE**

Senior Engineer Paul Fu provided the Committee with an update on the Desalter. Dr. Fu said that the Desalter delivered approximately 205 acre-feet of potable water to the City of Torrance in July, 2004. He stated that chloride levels remain stable and have been consistent throughout the year.

Dr. Fu said that the Desalter experienced a few brief shutdowns in July, 2004 because of a faulty pressure switch, but that the switch should be repaired within the next couple of weeks. Overall, the Desalter was online 93% of the time during fiscal year 2003/04.

**VIII. MEMBERS' PRIVILEGE –**

**DIRECTORS' REPORTS, INQUIRIES, AND DIRECTIONS TO STAFF**

Director Ryan moved that staff agendaize an item "Board Reorganization, Elections of Treasurer and Secretary" for the next board meeting. He stated that he had discussed the subject with general counsel and had received assurance that the Committee may request this item be considered by the Board of Directors. Director Robles seconded the motion.

**IX. ADJOURNMENT**

There being no more business to come before the Committee, the meeting was adjourned at 3:08 p.m.

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Chairperson

ATTEST:

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Director



## **MEMORANDUM**

### **ITEM NO. IV**

*Prepared by:* Hoover Ng

*Reviewed by:* Ted Johnson

**DATE: SEPTEMBER 20, 2004**

**TO: GROUNDWATER QUALITY COMMITTEE**

**FROM: ROBB WHITAKER, GENERAL MANAGER**

**SUBJECT: LABORATORY SERVICES AGREEMENT**

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### **SUMMARY**

The District utilizes laboratory services in analyzing groundwater samples for a number of projects and programs, including the following:

- Montebello Forebay – Ongoing use of recycled water for groundwater recharge for replenishment
- Goldsworthy Desalter Project – Treatment of brackish groundwater for supply to City of Torrance
- Harbor Water Recycling Project, Dominguez Gap Project – Partial replacement of imported water with recycled water at the Dominguez Gap Project seawater barrier
- Alamitos Barrier Recycled Water Project, aka Leo J. Vander Lans Water Treatment Facility (LJV WTF) – Partial replacement of imported water with recycled water at the Alamitos Barrier Project seawater barrier
- Regional Groundwater Monitoring Program – characterization of water quality of individual aquifers throughout the District's service area
- Water Quality Improvement Projects – special investigations of potential or new contamination and/or methods to mitigate such contamination.

The contract with the District's current laboratory, MWH Laboratories, will expire on October 31, 2004. A Request for Proposals was issued on August 3, 2004 for issuance of a new contract. The new contract would be for three years again to take advantage of anticipated competitive pricing due to the large volume of anticipated samples over several years.

Staff sent the RFP to twelve laboratories, issued an advertisement in a local newspaper and posted the RFP on the District's website. Five proposals were received on August 23, 2004. The laboratories included the Columbia Analytical, MWH Laboratories, Del Mar Analytical, Truesdail Laboratories, and Weck Laboratories. The District provided an estimate of the number of each type of analyses that would likely be required annually, and each laboratory provided unit costs for each type of analysis.

The review committee consisted of District staff members Ted Johnson, Tony Kirk and Hoover Ng, and California Water Service Company's Water Quality Project Manager Katherine Brohpy. The committee reviewed the proposals, based on the following criteria.

1. Understanding of the scope of work and services to be provided
2. Cost for services
3. Laboratory Qualifications and Experience
4. Project Qualifications and Experience
5. Final Report of Analysis and Electronic Data Delivery (EDD) compliance

After reviewing and evaluating each proposal based on the aforementioned criteria, each reviewer gave MWH Laboratories the highest score. They were 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. They have very extensive experience with both water and wastewater analysis.

Each of the 5 laboratories submitted unit prices for the anticipated volume of annual samples. To compare the costs, the total cost for each test per analyte 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 analysis nor the depth of knowledge regarding emerging contaminants or new methods of analysis.

Staff has also been satisfied with the current performance of MWH laboratories. They have provided very satisfactory service. They have also provided insight in evaluating new methods for analysis, coordinated a workshop on emerging contaminants, and provided assistance in developing new sampling programs.

### **FISCAL IMPACT**

The MWH Laboratory proposal is \$678,000 per year, which has been budgeted over several projects for the 04-05 FY budget. Staff recommends that a 10% contingency be added to account for additional lab services as needed throughout the term of the contract. This would adjust the total to \$750,000 annually.

### **STAFF RECOMMENDATION**

That the Committee recommends the Board enters into an agreement, subject to approval as to form by District Counsel, with MWH Laboratories for analytical laboratory services in an amount not to exceed \$750,000 annually for three years.

**MEMORANDUM**

**ITEM NO. V**

*Prepared by:* Hoover Ng

*Reviewed by:* Ted Johnson

**DATE: SEPTEMBER 20, 2004**

**TO: GROUNDWATER QUALITY COMMITTEE**

**FROM: ROBB WHITAKER, GENERAL MANAGER**

**SUBJECT: NDMA FATE AND TRANSPORT INVESTIGATION**

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**SUMMARY**

The Board approved on January 21, 2004 participating in this WasteReuse Research Foundation study, "Investigation of NDMA Fate and Transport". Its primary objective is to determine understand the fate and transport of NDMA in soil and groundwater when recycled water is used for spray irrigation and indirect and/or direct groundwater recharge. As the District had requested as a condition of our contribution to funding this effort, the State Department of Health Services was invited to be a participant in this project.

Both laboratory experiments and soil column tests will be employed. An overall budget is estimated to be \$546,000, and is scheduled for 2 years. The project officially began in April 2003 and is scheduled to be completed in Spring 2005.

A progress meeting was held on August 17. The following are highlights and preliminary findings:

- 1) Todd Engineers presented findings of NDMA occurrence data at the Baldwin Park Operable Unit, injection sites at OCWD and WBMWD, spreading basins at the Montebello Forebay, and irrigation sites at Santa Clara Valley Water District.
- 2) Dr. Lisa Alvarez-Cohen of UC Berkeley presented laboratory findings that certain soil organisms under aerobic conditions are able to biodegrade NDMA. However, some are not able to show any degradation.
- 3) Dr. Jay Gan of UC Riverside collected various soil samples for groundcover and bare soil conditions after irrigating with recycled water. He found that soils with groundcover showed the greatest degradation followed by turf soils. Bare soils showed the least.
- 4) Dr. Peter Fox of Arizona State University conducted tests on soil columns under anoxic, saturated conditions and did not see significant degradation under low organic carbon loading, which implies that there is an insufficient food source for the soil microbes. He did see degradation when higher organic carbon water passed through the soil columns, which were 8 feet high and 1 foot in diameter.

- 5) Dr. Dave Sedlak of UC Berkeley noted that he has found NDMA precursors in recycled water, but not surface waters or ground waters. He has also found that chloraminated water can “decay” and form NDMA.

**FISCAL IMPACT**

None.

**STAFF RECOMMENDATION**

For information.





## **MEMORANDUM**

### **ITEM NO. VI**

*Prepared by:* Nancy Matsumoto

*Reviewed by:* Ted Johnson

**DATE: SEPTEMBER 20, 2004**

**TO: GROUNDWATER QUALITY COMMITTEE**

**FROM: ROBB WHITAKER, GENERAL MANAGER**

**SUBJECT: GROUNDWATER CONTAMINATION UPDATE**

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### **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 27<sup>th</sup> 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. The MOU is anticipated to be finalized at the next group meeting, scheduled for September 16, 2004 (subsequent to this writing).

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. Other case files from the EPA are being similarly reviewed and summarized. Staff will continue to provide monthly updates on these case file reviews to the Committee as this effort proceeds.

A list of case files reviewed to date by WRD staff, as well as summaries of the last two RWQCB case files reviewed are attached as reference, and will be discussed at the Committee meeting.

### **FISCAL IMPACT**

None.

### **STAFF RECOMMENDATION**

For information.

Case File Reviews Conducted To Date, September 20, 2004

Site Name	Street Address	City	Lead Agency
Angeles Chemical Company Inc	8915 Sorensen Avenue	Santa Fe Springs	DTSC
Basin By-Products	3031 I Street	Wilmington	DTSC
Chrome Crankshaft	6845 Florence Place	Bell Gardens	DTSC
Hard Chrome Products	617 East 56 <sup>th</sup> Street	Los Angeles	DTSC
J&S Chrome Plating	6863 E Florence Place	Bell Gardens	DTSC
Los Angeles Academy	644 East 56 <sup>th</sup> Street	Los Angeles	DTSC
Mckesson Chemical Company	9005 Sorenson Avenue	Santa Fe Springs	DTSC
Montrose Chemical Corporation	20201 Normandie Avenue	Torrance	DTSC
Stauffer Chemical	2112 East 223 <sup>rd</sup> Street	Carson	DTSC
Wilmington/Gramercy Right-of-Way	East of and adjacent to I-110 Freeway, from Gardena Boulevard south towards the intersection of Figueroa Street and the I-405 Freeway	Los Angeles	DTSC
Ashland Chemical	10505 South Painter Avenue	Santa Fe Springs	RWQCB
Boeing Realty Corp C-1 Facility	3855 Lakewood Blvd	Long Beach	RWQCB
Boeing Realty Corp C-6 Facility	19503 South Normandie Ave	Los Angeles	RWQCB
Honeywell El Segundo	850 South Sepulveda Blvd	El Segundo	RWQCB
Honeywell Sepulveda	9581 Sepulveda Boulevard	Los Angeles	RWQCB
Industrial Polychemical	17109 South Main Street	Gardena	RWQCB
Master Sun Cleaners	2405 – 2415 Rosecrans Avenue	Gardena	RWQCB
Soco-Lynch	3270 E. Washington Boulevard	Vernon	RWQCB
Trico Industries	1206 W. 196 <sup>th</sup> Street	Torrance	RWQCB
TRW Hawthorne Facility	14520 Aviation Boulevard	Hawthorne	RWQCB
Golden West Refinery	13116 Imperial Highway	Santa Fe Springs	RWQCB
Thrifty Oil Service Station #10	1700 West Whittier Blvd	Montebello	RWQCB
Thrifty Oil Service Station #289	5923 Rosemead Blvd	Pico Rivera	RWQCB
ARCO Whittier	10802 Whittier Blvd	Whittier	RWQCB

**Risk To Potable Supply Aquifers/LOE Needed To Properly Track This Project (High, Medium, or Low):\_\_\_\_\_**

Northrop Grumman  
Former TRW Hawthorne Facility  
Key Facts At A Glance  
Last Update: 7/13/04

Location:	14520 Aviation Boulevard Hawthorne, CA 90250 West Coast Basin Nearest production well located approx. 1 mile south of site
Description:	1956-1963 Pacific Semiconductors 1963: TRW Semiconductors Dec 1991: Operations Cease 1994 to Present: Demolition and site restoration  The site is bordered by Aviation Blvd on the west, Atchison Topeka and Sante Fe Railway to the east, and by a Southern California Edison Co. Right-of-Way to the south.  The site was used primarily for manufacturing semiconductors from 1956 through 1988 and for designing, testing and manufacturing electronic components until 1991. Underground structures at the site have included a wastewater neutralization pit and 5 underground storage tanks (USTs). The site was also used to house equipment for low-level radiation exposure testing. During this time, various chemicals were used in the manufacturing processes, including chlorinated solvents, aromatic hydrocarbons, and ketones. Analyses of soil vapor, soil matrix, and groundwater samples indicate that a former waste solvent UST is the primary source of chlorinated volatile organic compounds (VOCs) in groundwater. The original facility buildings, subsurface structures including USTs, associated impacted soil, were removed from the site in 1994. In 1999, Mars Ventures, Inc. acquired the property for redevelopment. site redevelopment is complete and includes 2 hotels, 2 credit unions, a self-storage facility, and an office building.
Chemicals of concern in groundwater:	1,1-Dichloroethane (1,1-DCA), 1,1-Dichloroethene (1,1-DCE), 1,1,1-Trichloroethane (1,1,1-TCA) cis-1,2-Dichloroethene (cis-1,2-DCE), Acetone, Dichlorobenzene (1,2-DCB, 1-4DCB), Ethyl benzene, Methyl Ethyl Ketone (MEK), Tetrachloroethene (PCE), Trichlorobenzene (1,2,3-TCB, 1,2,4-TCB), Trichloroethene (TCE), Trichlorotrifluoroethane (Freon 113), Xylenes
Extent:	Two plumes of VOC-impacted groundwater are present beneath the site. The southern VOC plume encompasses approx. the southern half of the site and originated from onsite sources previously located near the southern site boundary. (The northern plume encompasses approximately the northern half of the former site and originates offsite at the upgradient Fairchild Property RWQCB has determined that Northrop is responsible for investigation and cleanup of only the southern plume, while Fairchild is responsible for the northern plume, as documented in a letter dated April 27, 1998).  The shallow portion of the southern VOC plume extends approx. 3,000 ft east of the site—near the area of Ocean Gate Ave and 145 <sup>th</sup> Street, east of the 405 freeway. The northern portion of the shallow plume is apparently co-mingling with other offsite plume(s) in the vicinity of the 405 freeway off ramp at Hindry Ave (near monitoring well GW-15). The deeper portion of the VOC plume extends approx 1,900 ft east of the site to the vicinity of the 405 freeway. Offsite concentrations in the deeper interval exhibited an order of magnitude attenuation relative to the shallow interval (i.e. the deep interval attenuates faster than the shallow interval; therefore the deep plume is contained within the shallow plume).
Monitoring:	20 onsite monitoring wells, 4 onsite extraction wells, measured semi-annually. Since 1989, wells have been sampled quarterly or semi-annually to evaluate groundwater elevation and water quality  Depth to groundwater approximately 65 to 78 ft below ground surface (bgs) Per June 2003, Shallow Interval (70-90 ft): groundwater flow easterly, gradient .0035 ft/ft Per June 2003, Deep Interval (110-130 ft): groundwater flow easterly, gradient 0.004 ft/ft
Remediation:	TRW completed surficial soil remediation activities between Aug 1994 and Sept 1996, including excavation and onsite treatment or offsite disposal of soil impacted by VOCs, fuel oil, and insulating oil. An in-situ soil vapor extraction (SVE) system was installed in 1996 and has removed 47,050 lbs. of VOCs (as of 2002).  Groundwater extraction, filtration and air-stripping treatment—start up during the second half of 1998 Groundwater treatment system (1) extracted groundwater from beneath the onsite source areas that contained the highest known VOC conc (2) provide a capture zone to contain VOC-impacted gw leaving the downgradient (eastern) portion of the site. Start-up occurred in the shallow interval of the Gage Aquifer approximately 65 to 115 ft bgs. 11,644 lbs. of VOCs have been removed as of 2002.
Procedures:	Groundwater monitoring was conducted by Northrop Grumman personnel, soil investigations were performed by Orion Environmental Inc of Long Beach, CA.
Stakeholders:	Northrop Grumman, City of Hawthorne, Regional Water Quality Control Board

Thrifty Oil Station #289  
(ARCO #9669)  
Key Facts At A Glance  
Last Update: 8/12/04

Location:	5923 Rosemead Blvd Pico Rivera, CA 90640 Located in the Central Basin The nearest active production well is located approximately 0.35 mile to the northwest.
Description:	<p>The site in an active retail gasoline station located at the north corner of the intersection of Rosemead Blvd and Mines Avenue in the City of Pico Rivera. The site is owned by Thrifty Oil Co and is currently operated by ARCO Products Co. since April 1997. The Rio Hondo Spreading Grounds are located about 0.4 miles to the west and the San Gabriel Spreading Grounds 0.6 miles the east.</p> <p>In March 1998, four former single-walled USTs, ranging in volume from 8,000 to 12,000 gallons were removed from the site. Following tank removal, approximately 785 tons of hydrocarbon-impacted soil were evacuated and transported offsite for treatment and disposal. The new USTs were installed in approximately the same location. Improvements on the site include the installation of a double-walled underground storage tank (UST) consisting of one 20,000-gallon tank, and one 10,000/10,000 gallon split tank with associated piping in April 1998. Additional structures on the site include 2 dispenser islands and an office building.</p>
Chemicals of concern in groundwater:	Total Petroleum Hydrocarbons (TPHs): gasoline, BTEX compounds Gasoline additives/oxygenates: MTBE, ETBE, DIPE, TAME and TBA
Extent:	The majority of the fuel released beneath site is in the vicinity of the former USTs and dispensers. Delineation of the plume measures 40 ft long and does not appear to extend offsite for any considerable distance in the downgradient direction. No free product has been detected in any of the monitoring wells.
Monitoring:	In March 1999, Earth Management Company initiated quarterly groundwater monitoring and sampling. Currently, 10 monitoring wells are gauged and sampled every quarter.
Groundwater gradient:	Groundwater flows to the south-southeast at an approximate gradient of 0.0092 ft/ft (March 2004) Groundwater beneath the site is under unconfined conditions. Depth to first water ranges from 35 to 58 feet below ground surface (bgs) for 2004.
Remediation:	<p>In Jan 2002, 3 vapor extraction (VE) wells screened from 10 to 35 feet bgs were installed on three sides of the dispenser islands. The VE system also includes wells 2 wells screened from 20 to 41 ft bgs. MW-10 was installed to help define the lateral extent of the dissolved phase groundwater plume, specifically MTBE, directly downgradient of the existing tank pit.</p> <p>Approximately 1,054 lbs of total hydrocarbon mass have been removed through SVE since the start of remedial activities in March of 2003.</p>
Procedures:	Thrifty Oil Co. retains their own consultant, GeoHydrologic Consultants Inc. (Costa Mesa, CA), to manage groundwater monitoring and reporting to RWQCB
Stakeholders:	Thrifty Oil Co – property owner Regional Groundwater Quality Control Board (RWQCB) –lead regulatory agency City of Pico Rivera



## MEMORANDUM

### ITEM NO. VII

*Prepared by:* Charlene King

*Reviewed by:* Mario Garcia

**DATE: SEPTEMBER 20, 2004**

**TO: GROUNDWATER QUALITY COMMITTEE**

**FROM: ROBB WHITAKER, GENERAL MANAGER**

**SUBJECT: SAFE DRINKING WATER PROGRAM UPDATE**

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### 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):** Although project construction is complete, the City of Norwalk continues to seek final approval from the California Department of Health Services to place the system online. Water quality issues hamper this approval process, and WRD staff and representatives from the city discussed potential options and courses of action at a meeting on September 8<sup>th</sup>.
- 2) **Converse Well (SCWC):** SCWC is currently finalizing the contract with Pacific Hydrotech, the lowest responsive bidder. The Converse Well Project will use the treatment vessels from the Hoffman Well Project.
- 3) **Commerce Well 4L (operated by Cal Water Service):** Project bids were opened on June 23, 2004 in which five were received. All bids were rejected pending review and revision of the District's procurement policy associated with Small Business Enterprise (SBE) participation. The project will be re-bid in accordance with the revised WRD procurement policy.
- 4) **Imperial Wells 1, 2, & 3 (SCWC):** Only one bid (Pacific Hydrotech at \$905,500) for the project was received on June 8, 2004. SCWC is currently revising the bid package and plans to re-bid the project.

### FISCAL IMPACT

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

### STAFF RECOMMENDATION

For information.



**MEMORANDUM**

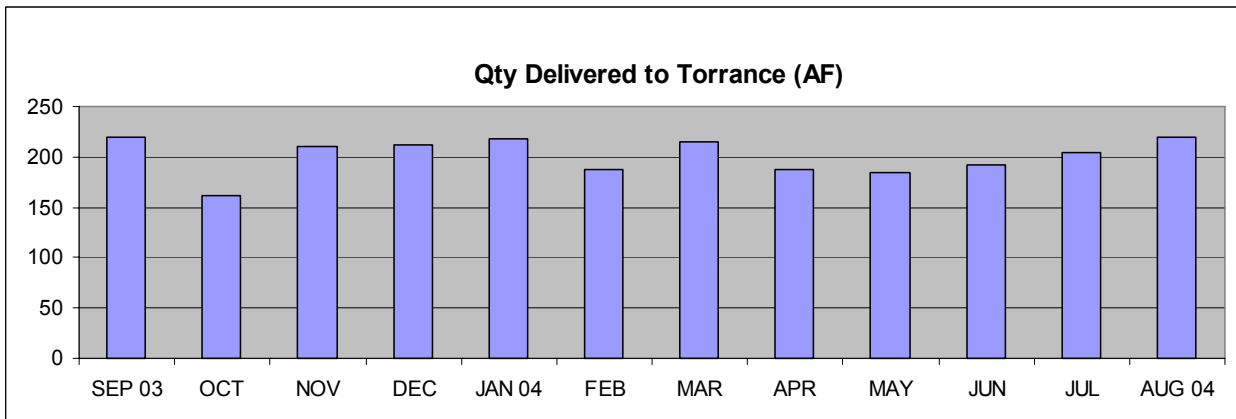
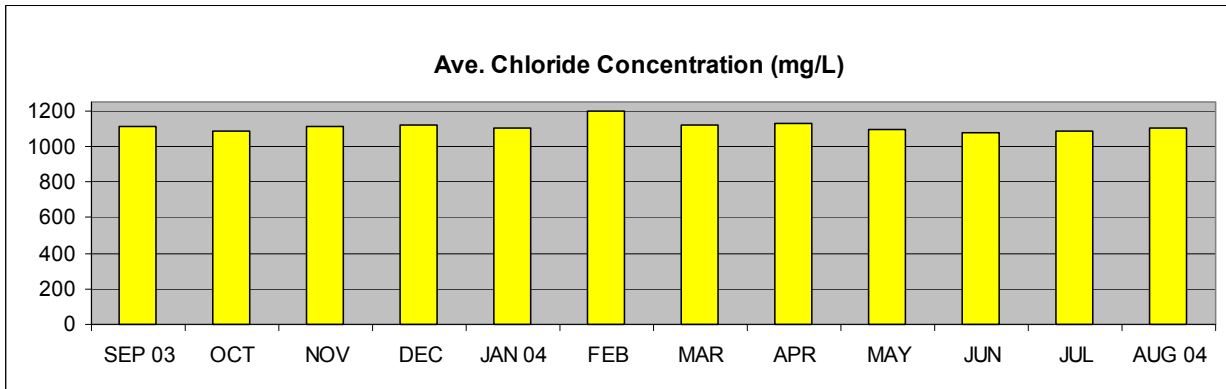
**ITEM NO. VIII**

Prepared by: Paul Fu  
Reviewed by: Mario Garcia

**DATE: SEPTEMBER 20, 2004**  
**TO: GROUNDWATER QUALITY COMMITTEE**  
**FROM: ROBB WHITAKER, GENERAL MANAGER**  
**SUBJECT: ROBERT W. GOLDSWORTHY DESALTER UPDATE**

**SUMMARY**

The WRD Desalter delivered approximately 220 acre-feet of potable water to the City of Torrance in August 2004. During the month, the chloride level in the well water remained within 1,050 to 1,200 mg/L with an average concentration of 1,107 mg/L. The charts below summarize the monthly water deliveries to Torrance and average chloride concentrations from September 2003 through August 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 2,412 acre-feet. The Desalter was online (i.e., in production) for 91.4 percent of the past year.



A new pH meter has been installed on the RO concentrate line prior to the sewer discharge. This installation satisfies the requirements of LACSD for continuous pH monitoring of plant's wastewater.

**FISCAL IMPACT**

None.

**STAFF RECOMMENDATION**

For information.