

**MEETING OF THE GROUNDWATER QUALITY COMMITTEE  
OF THE BOARD OF DIRECTORS  
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA  
4040 PARAMOUNT BOULEVARD, LAKEWOOD, CA 90712  
8:30 A.M., WEDNESDAY, AUGUST 9, 2017**

**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**

*Pursuant to Government Code Section 54954.3*

**3. APPROVAL OF MINUTES OF JULY 12, 2017**

Staff Recommendation: Approve the minutes as submitted.

**4. CONTRACTS AMENDMENT WITH KEH & ASSOCIATES AND MNS  
ENGINEERING FOR THE SAFE DRINKING WATER – DISADVANTAGED  
COMMUNITIES PILOT PROGRAM**

Staff Recommendation: The Groundwater Quality Committee recommends the Board of Directors authorize the General Manager to execute a contract amendment with KEH & Associates and MNS Engineering for professional services related to the Safe Drinking Water Program, subject to approval as to form by District Counsel, for an amount not to exceed \$500,000 each.

**5. SAFE DRINKING WATER PROGRAM - DISADVANTAGED COMMUNITIES  
OUTREACH PILOT PROGRAM UPDATE**

Staff Recommendation: For discussion.

**6. ENVIRONMENTAL SITES REVIEW**

Staff Recommendation: For information.

**7. DIRECTORS REPORTS, INQUIRIES AND FOLLOW UP OF DIRECTIONS TO  
STAFF**

## 8. ADJOURNMENT

The Committee will adjourn to the next regular meeting currently scheduled for September 13, 2017 at 8:30 A.M.

Agenda posted by Sherri Brown, Senior Administrative Specialist on August 4, 2017. In compliance with ADA requirements, this document can be made available in alternative formats upon request.

In compliance with the Americans with Disabilities Act (ADA), if special assistance is needed to participate in the meeting, please contact Senior Administrative Specialist Sherri Brown 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](http://www.wrd.org).

EXHAUSTION OF ADMINISTRATIVE REMEDIES – If you challenge a District action in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in this notice, or in written correspondence delivered to the District office at, or prior to, the public hearing. Any written correspondence delivered to the District office before the District's final action on a matter will become a part of the administrative record.



## **MEMORANDUM**

### **ITEM NO. 3**

**DATE: AUGUST 9, 2017**  
**TO: GROUNDWATER QUALITY COMMITTEE**  
**FROM: ROBB WHITAKER, GENERAL MANAGER**  
**SUBJECT: APPROVAL OF MINUTES OF JULY 12, 2017**

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**MINUTES OF JULY 12, 2017  
MEETING OF THE GROUNDWATER QUALITY COMMITTEE  
OF THE BOARD OF DIRECTORS  
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 July 12, 2017 at 8:41 a.m., at the District Office, 4040 Paramount Boulevard, Lakewood, California 90712. Committee Chair John D. S. Allen called the meeting to order and presided thereafter. Senior Administrative Assistant Sherri Brown recorded the minutes.

**1. DETERMINATION OF A QUORUM**

A quorum was present, which included:

Committee: Committee Chair John D. S. Allen; President Rob Katherman (by phone)

Staff: Robb Whitaker; Charlene King; Brian Partington; Pete Brown

Public: Michael Gagan – Kindel Gagan

**2. PUBLIC COMMENT**

*Pursuant to Government Code Section 54954.3*

None.

**3. APPROVAL OF MINUTES OF SPECIAL MEETING OF JUNE 21, 2017**

The Committee unanimously approved the minutes as submitted.

**4. SAFE DRINKING WATER PROGRAM – DISADVANTAGED COMMUNITIES OUTREACH PILOT PROGRAM UPDATE**

Communication and Education Services (CES) Manager Pete Brown reported on upcoming area meetings and events that will provide speaking and attendance opportunities for WRD Board members and staff regarding Safe Drinking Water Program Outreach.

Associate Engineer Charlene King provided the Safe Drinking Water Program – Disadvantaged Communities Outreach Pilot Program update for this item.

Discussion followed. No action was taken.

**5. ENVIRONMENTAL SITES REVIEW**

Senior Hydrogeologist Brian Partington provided the reviews on Powerine Oil Company Golden West Refinery. Discussion followed. No action was taken.

**6. DIRECTORS REPORTS, INQUIRIES, AND FOLLOW-UP OF DIRECTIONS TO STAFF**

None.

**7. ADJOURNMENT**

There being no further business to come before the Committee, the meeting was adjourned at 9:11 A.M.

\_\_\_\_\_  
Chair

ATTEST:

\_\_\_\_\_  
Member

Approved in minutes of:  
\_\_\_\_\_



## **MEMORANDUM**

### **ITEM NO. 4**

**DATE: AUGUST 9, 2017**

**TO: GROUNDWATER QUALITY COMMITTEE**

**FROM: ROBB WHITAKER, GENERAL MANAGER**

**SUBJECT: CONTRACTS AMENDMENT WITH KEH & ASSOCIATES AND MNS ENGINEERING FOR THE SAFE DRINKING WATER – DISADVANTAGED COMMUNITIES PILOT PROGRAM**

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### **SUMMARY**

The District administers the Safe Drinking Water Program (SDWP), providing grant or loan assistance to basin pumpers for wellhead treatment to remove contaminants and improve water quality. The Grant Program provides treatment for removing groundwater contaminants from man-made sources (e.g. Volatile Organic Compounds); whereas the Loan Program provides 10-year, zero-interest loans for water treatment, removing unacceptable levels of contaminants from natural sources (e.g. iron, manganese, and arsenic).

#### **Safe Drinking Water DAC Pilot Program**

As an extension of the District's Safe Drinking Water Program, the District approved the creation of the Safe Drinking Water Disadvantaged Communities (DAC) Pilot Program. The goal of this program is to assist water systems located in disadvantaged communities within the District's service area with state and federal funding to address the issues related to their drinking water wells. The focus of the program is to provide technical assistance and extensive outreach to help the systems secure funding that is set aside specifically for disadvantaged communities. The District is currently assisting seven water systems: City of Bell Gardens, City of Compton, City of Huntington Park, City of Lynwood, Maywood Mutual Water Company No. 2, Maywood Mutual Water Company No. 3, and Sativa Water District.

In March 2015, KEH & Associates and MNS Engineering were two of the firms contracted for the on-call engineering services contract with the District. These firms have been tasked with providing technical assistance for the application process of several of the DAC projects. As several of the projects move to the phases of the construction applications, on-call engineering services continue to be needed. With an intricate knowledge of the projects, the District would like to amend the KEH & Associate and MNS Engineering contract for an additional \$500,000 each to perform the required project reports, designs, and construction management assistance. In accordance with the Memorandum of Understanding (MOU) between WRD and each of the DAC Pilot Program Participants, the District will be reimbursed for any and all costs incurred once funding is approved.

**FISCAL IMPACT**

Funding is subject to reimbursement through the State Funding awarded to the DAC Pilot Program Participants.

**STAFF RECOMMENDATION**

The Groundwater Quality Committee recommends the Board of Directors authorize the General Manager to execute a contract amendment with KEH & Associates and MNS Engineering for professional services related to the Safe Drinking Water Program, subject to approval as to form by District Counsel, for an amount not to exceed \$500,000 each.



## **MEMORANDUM**

### **ITEM NO. 5**

**DATE: AUGUST 9, 2017**

**TO: GROUNDWATER QUALITY COMMITTEE**

**FROM: ROBB WHITAKER, GENERAL MANAGER**

**SUBJECT: SAFE DRINKING WATER PROGRAM - DISADVANTAGED COMMUNITIES  
OUTREACH PILOT PROGRAM UPDATE**

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### **SUMMARY**

The District administers the Safe Drinking Water Program (SDWP), providing grant or loan assistance to basin pumpers for wellhead treatment to remove contaminants and improve water quality. The Grant Program provides treatment for removing groundwater contaminants from man-made sources (e.g. Volatile Organic Compounds); whereas the Loan Program provides 10-year, zero-interest loans for water treatment, removing unacceptable levels of contaminants from natural sources (e.g. iron, manganese, and arsenic).

In 2016, the District approved three wellhead treatment projects through the Safe Drinking Water Program: California American Water Arlington Well, Huntington Park Well 15, and Lynwood Well 11. The wellhead treatment system at all three wells will consist of a complete granular activated filtration system built within the boundaries of the existing well sites owned and operated by the water systems. In addition, as part of Assembly Bill No. 240, the District was designated to manage and implement a water quality improvement project in the City of Maywood. The appropriated funds were assigned to the Maywood Avenue Wellhead treatment project for iron and manganese removal.

#### **Safe Drinking Water Pilot Program**

As an extension of the District's Safe Drinking Water Program, the District approved the creation of the Safe Drinking Water Disadvantage Communities (DAC) Pilot Program. The goal of this program is to assist water systems located in disadvantaged communities within the District's service area with state and federal funding to address the issues related to their drinking water wells. The focus of the program is to provide technical assistance and extensive outreach to help the systems secure funding that is set aside specifically for disadvantaged communities. Currently there are seven water systems participating in the program and receiving assistance: City of Bell Gardens, City of Compton, City of Huntington Park and City of Lynwood, Maywood Mutual Water Company No. 2, Maywood Mutual Water Company No. 3 and Sativa LA County Water District.

Safe Drinking Water Program Outreach Efforts

Outreach efforts continue as staff is preparing follow-up outreach to cities, particularly disadvantaged communities, to schedule presentations for upcoming city council meetings to further explain WRD's programs.

**FISCAL IMPACT**

None.

**STAFF RECOMMENDATION**

For discussion.





## **MEMORANDUM**

### **ITEM NO. 6**

**DATE: AUGUST 9, 2017**

**TO: GROUNDWATER QUALITY COMMITTEE**

**FROM: ROBB WHITAKER, GENERAL MANAGER**

**SUBJECT: ENVIRONMENTAL SITES REVIEW**

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### **SUMMARY**

WRD has and continues to take an active role in groundwater quality protection, cleanup, and investigation. As part of its Groundwater Contamination Prevention Program, WRD established the Central and West Coast Basin Groundwater Contamination Forum, a data-sharing and discussion forum with key stakeholders that include various cities, water purveyors, the United States Environmental Protection Agency (EPA), California Department of Toxic Substances Control (DTSC), Los Angeles Regional Water Quality Control Board (RWQCB), State Water Resources Control Board Division of Drinking Water (DDW), United States Geological Survey (USGS), and California Department of Water Resources (DWR).

In 2005, the stakeholders drafted and signed a Memorandum of Understanding ("MOU") agreeing to meet regularly and share data on major groundwater contaminated sites within the Central Basin and West Coast Basin. WRD acts as the meeting coordinator and data repository/distributor, helping stakeholders to characterize the extent of contamination to identify pathways for contaminants in shallow aquifers to reach deeper drinking water aquifers and develop optimal methods for remediating contaminated groundwater. The overall purpose of the Forum is to expedite the cleanup of these major contaminated sites in the basins.

With the cooperation and support of all stakeholders in the Groundwater Contamination Forum, WRD developed a list of high-priority groundwater contaminated sites ("environmental sites") located within the District. 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 48 sites located throughout the Central Basin and West Coast Basin. The list was developed based on the following criteria:

- Site location and hydrogeology
- Distance to nearest drinking water well
- Depth to shallowest water-supply aquifer beneath site
- Concentration of detected contaminants
- Fate and transport of detected contaminants
- Presence of contamination in nearby drinking water wells
- Status of site characterization with respect to groundwater contamination
- Status of site remediation with respect to groundwater contamination
- Stage of regulatory agency involvement

WRD works in close consultation with the lead regulatory agencies for each of these sites to provide data and technical support to facilitate site characterization and expedite cleanup. An

update is provided below for Barken's Hard Chrome, Inc. in the Central Basin (City of Compton) and Industrial Polychemical Service (IPS) Company in the West Coast Basin (City of Gardena).

**BARKEN'S HARD CHROME (CITY OF COMPTON, CENTRAL BASIN)**

The ~0.43-acre property has operated as a chrome plating facility since 1942. The primary constituents of concern in soil and groundwater include metals (mainly total chromium and hexavalent chromium [Cr+6]) and chlorinated solvents (mainly tetrachloroethene [PCE], trichloroethene [TCE], and 1,1-dichloroethene [1,1-DCE]). Regulatory oversight is provided by the RWQCB.

The reported groundwater flow direction is to the south-southwest based on the four existing groundwater monitoring wells screened in the Shallow Zone (~30 to 60 feet below ground surface [ft bgs]). The nearest active public water supply wells are owned and operated by the City of Compton (Well #13 and #15) and California Water Service Company (Well #290-01). Site constituents have not been detected above regulatory levels in the production wells with the closest one located approximately 0.4-miles northeast of the Site. The most recently reported groundwater sampling results are summarized below for November 2010.

Key Indicator Compounds in Groundwater		
Chemical	MCL	Shallow Zone
Total Chromium	50	390,000 in MW1 (historically, 810,000 in February 2000)
Cr+6	10	84,500 in MW1 (historically, 673,000 in June 2002)
PCE	5	183 in MW3 (historically, 1,390 in June 2004)
TCE	5	177 in MW3 (historically, 725 in June 2004)
1,1-DCE	6	36 in MW3 (479 in June 2004)

Maximum detection with results in micrograms per liter (µg/L) / MCL = Maximum Contaminant Level  
 Data Source: Fourth Quarter 2010 Groundwater Monitoring Report (Sharp Environmental Technologies dated January 10, 2011).

The RWQCB required additional delineation and remediation in a Draft Cleanup and Abatement Order No. R4-2013-0006 in January 2013. The only remediation performed at the site was the excavation of surficial soil impacts in November 1984. WRD staff recently requested an update from the RWQCB. The RWQCB indicated they continue to work through some legal issues with the responsible party and anticipate moving forward with the work, but could not provide a date when the order would be finalized with Barken's.

**IPS COMPANY (CITY OF GARDENA, WEST COAST BASIN)**

The IPS Company facility is located across eight individual parcels with various commercial / industrial uses since the 1950s. IPS operations consist of manufacturing adhesive cement, cleaners, and primers for polyvinyl chloride (PVC). The primary constituents of concern include chloropicrin, chloroform, TCE, and tetrahydrofuran (THF). Regulatory oversight is provided by the DTSC.

Groundwater impacts have been identified in an east-northeast flowing Shallow Aquifer (~30 to 36 ft bgs). The nearest downgradient active public water supply well is owned and operated by the City of Compton (Well #11). Site constituents have not been detected above regulatory standards in the production well (approximately 2.2-miles east of the Site). The most recently reported groundwater sampling results are summarized below for May 2016.

Key Indicator Compounds in Groundwater		
Chemical	MCL	Shallow Zone
Chloropicrin	None	1,400,000 in MW-28
Chloroform	80	2,200 in MW-28

<b>Key Indicator Compounds in Groundwater</b>		
<b>Chemical</b>	<b>MCL</b>	<b>Shallow Zone</b>
TCE	5	860 in MW-4
THF	None	17,000 in MW-16

Maximum detection with results in micrograms per liter (µg/L) / MCL = Maximum Contaminant Level  
 Data Source: First and Second Quarter 2016 Groundwater Monitoring Report (Prepared by Dudek).

Multiple treatment systems have been installed across the site with operations reportedly commencing in 1999. The primary remedy for soil and groundwater includes a combination of air sparging and soil vapor extraction (AS/SVE). DTSC recently issued a no further action determination for vadose zone soils and soil vapor in a letter dated February 17, 2016.

**FISCAL IMPACT**

None.

**STAFF RECOMMENDATION**

For information.