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Meeting Minutes

Meeting Subject: Norwalk Tank Farm Restoration Advisory Board (RAB) Quarterly Meeting	Meeting Date: <u>27 April 2006</u> Meeting Time: 6:30 p.m. Meeting Place: Norwalk Arts & Sports Complex
RAB, PROJECT TEAM, AND OTHER ATTENDEES	
<u>RAB Community Members</u> D. Caughey E. Garcia B. Hoskins M. McIntosh (Co-Chair) W. Miller W. Sterner	<u>Other Members</u> B. Clark (City of Norwalk; attending for A. Figueroa) E. Erickson (RWQCB) M. Pitta (KMEP) (Co-Chair)
<u>Other Attendees</u> S. Chou (Geomatrix) R. Hassan (Parsons) J. Saucedo (Office of G. Napolitano) J. Trani (DESC) T. Whyte (URS)	DESC-AMW..Defense Energy Support Center Americas West GSA.....General Services Administration HHRA Human Health Risk Assessment KMEP Kinder Morgan Energy Partners MTBE Methyl tertiary butyl-ether OCCS Offsite Chemicals Cleanup Subcommittee 1,2-DCA..... 1,2-dichloroethane RAB Restoration Advisory Board RBCA..... Risk-Based Corrective Action RWQCB..... Regional Water Quality Control Board SVE..... Soil Vapor Extraction TPH..... Total petroleum hydrocarbons URS..... URS Corporation WRD Water Replenishment District of Southern California
<u>Absentees</u> J. Holdren (City of Cerritos) N. Matsumoto (WRD) Lt. Col. Ramer (DESC-AMW) (Co-Chair) T. Winkler	
<u>Not Attending</u> Dr. Duran (OCCS) Dr. Landolph (OCCS)	
<u>BACKGROUND</u> DESC-AMW and KMEP are conducting environmental cleanup activities at the area in and around the former Defense Fuel Support Point Norwalk, also known as the Tank Farm, located at 15306 Norwalk Boulevard, Norwalk, CA. The RAB is an advisory committee of local citizens and project members that reviews and comments on documents relating to the environmental cleanup. All RAB meetings are open to the public and are scheduled quarterly on the last Thursday of the month at 6:30 p.m. in January, April, July, and October unless otherwise voted on by the RAB community membership.	

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1. Introduction Mary Jane McIntosh, Community Co-Chair, Meeting Chair

Mary Jane McIntosh called the meeting to order at 6:42 p.m. Bill Clark was in attendance from the City of Norwalk, sitting in for Adriana Figueroa. Jesse Saucido from Congresswoman Napolitano's Office was also in attendance.

Elizabeth Erickson had a comment on the January 26, 2006, meeting minutes. She said that on Page 6, under Action Items, 10-year master maps, "plume activity in progress" should be added. A motion was made to accept the minutes as amended. Bob Hoskins seconded the motion. The motion passed without opposition.

2. KMEP Update Mike Pitta, KMEP, and Shiow-Whei Chou, Geomatrix Consultants, Inc.

Remediation Operations Update

Shiow-Whei Chou displayed a map of the current remediation systems. She next showed three photographs of the remediation system stack repairs. The stack was knocked over by strong winds in January 2006. The repairs were made, and a crane was needed to reposition it. During stack repair, they continued to operate the West Side Barrier System; they continued to manually remove free product; and they replaced the oxidizer insulation. The remediation system is running again. Mike Pitta said that the stack was previously held up by cables, which failed. Now the stack is secured with bolts around the bottom for added strength.

Ms. Chou said the Soil Vapor Extraction (SVE) System has 17 onsite and 6 off-site vapor extraction wells in the South-Central Plume area. There are two vapor extraction wells in the Southeastern 24-Inch Block Valve area. Approximately 1,692 gallons equivalent of fuel were removed from soil and destroyed by thermal oxidation since the January 2006 RAB meeting. Approximately 450,900 gallons equivalent of fuel were removed from soil and destroyed by thermal oxidation since September 1995. The SVE system has operated for approximately 50,200 hours since September 1995. Ms. Chou showed a graph of the cumulative fuel recovered by SVE. The graph was flat for a couple of months due to the system being off, but some more was recovered after startup.

Ms. Chou said there are 8 groundwater extraction wells in the West Side Barrier area; 4 total fluids (product and groundwater) extraction wells and 4 groundwater extraction wells in the South-Central Plume area; and 2 total fluids extraction wells and 1 groundwater extraction well in the Southeastern 24-Inch Block Valve area. Total groundwater extracted by the Groundwater/Product Extraction System since the January 2006 RAB meeting included: 76,800 gallons from the South Central Plume area; 62,000 gallons from the Southeastern 24-inch Valve Area; and 1,027,800 gallons from the West Side Barrier area. There were 42 gallons of product recovered manually. Total groundwater extracted since September 1995 includes: 23 million gallons from the South Central Plume area; 6.9 million gallons from the Southeastern 24-inch Block Valve Area; and 20.6 million gallons from the West Side Barrier area. A total of 50.5 million gallons of groundwater have been extracted, and 8,787 gallons of free product have been removed. Ms. Chou also showed a graph of the cumulative groundwater and product extracted.

Ms. Chou next discussed remediation system expansion. Kinder Morgan Energy Partners (KMEP) and the Regional Water Quality Control Board (RWQCB) recently met to discuss preliminary plans for further modifying the South-Central remediation system. Ms. Erickson said that RWQCB's role is to protect citizens and their groundwater, and to make sure it gets cleaned up in a safe, effective, and timely manner. She had a conference call with the consultants for KMEP and the Defense Energy Support Center (DESC). They have spent 10 years of delineation and 10 years of remediation, so now they need to start seeing if they can finish the cleanup. Mr. Pitta said that KMEP is evaluating modifications such as reconfiguring up to four existing wells to perform total fluids extraction; installation of an additional 5 to 10 soil vapor extraction wells; and enhancing selected existing remediation wells. Mr. Hoskins said that after previous heavy rain events, we saw an increase in pollutants, and wondered if we would see that again this time. He also asked about what happens to the groundwater that is extracted. Ms. McIntosh said it is tested and is released into the storm drain. She said the issue was discussed previously, and consensus was that it should not go back into the

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ground. Mr. Pitta pointed out that groundwater in this area is not suitable for drinking, and that putting the water back into the ground runs the risk of further dispersing the plumes.

HHRA Update

Ms. Chou said that KMEP evaluated potential sub-slab vapor sample locations and presented proposed sub-slab and crawl space vapor sample locations to RWQCB on March 17, 2006. The RWQCB concurred with the proposed sample locations and requested submittal of the revised Human Health Risk Assessment (HHRA) work plan in a letter dated March 29, 2006. They are revising the work plan, which will be implemented after confirming access agreements with the residents. Ms. Erickson said that they are trying to conduct this HHRA quickly, since the residents have been waiting for it for a long time. She said that the work plan needs to be reviewed by the Office of Environmental Health Hazard Assessment (OEHHA). The OEHHA review may be completed in June, and then results of the HHRA may be ready in the fall. Gene Garcia asked what could be done to help the process, such as asking elected officials to lean on OEHHA. She said the RAB members could send letters to her supervisor or to elected officials. Ms. McIntosh requested that Ms. Erickson do what she could to help with the OEHHA review process. Ms. McIntosh also said she would draft a letter on behalf of the RAB urging OEHHA to expedite review. She will bring it to the next meeting for review of the other members. Ms. Erickson said that RWQCB has made a preliminary risk assessment that there may be concerns, so that is why they have asked KMEP to perform a HHRA.

Sentry Event Update

Ms. Chou said that the latest Sentry sampling event was conducted in February 2006. Results were sent out this week. Twenty-three wells were sampled, including the four Exposition Aquifer wells. Groundwater elevations generally decreased since November 2005 in the uppermost aquifer beneath the site. No volatile organic compounds (VOCs) were detected in the Exposition wells. In the south-central off-site area, VOC concentrations remained non-detect in wells GMW-O-1 and GMW-O-2 and decreased in GMW-O-3 since November 2005. The benzene concentration in GMW-O-14 increased since November 2005 but remained less than that observed one year ago. Concentrations of other chemicals of concern decreased in this well since November 2005.

In the intermediate block valve area, the methyl tertiary butyl-ether (MTBE) concentration increased in PZ-10 but remained lower than the maximum contaminant level (MCL) of 13 parts per billion (ppb). In the southeastern area, concentrations of MTBE decreased in PZ-5. In other southeastern wells, MTBE concentrations remained low (less than MCL) or non-detect. In the western off-site area, 1,2-dichloroethane (1,2-DCA) concentrations decreased in wells WCW-3 and WCW-7. MTBE concentrations decreased in WCW-7 and remained non-detected in WCW-3.

Ms. McIntosh asked if the western wells (GMW-57, GMW-58, GMW-60, and GMW-61) were added as requested at the last meeting. Redwan Hassan said that they were added to the quarterly event, which is reported separately from the Sentry event. Ms. McIntosh requested that these wells be reported on at each RAB meeting, and that the latest results be sent to the RAB members within the next two weeks.

10-year Maps

Ms. Chou presented an animation showing the changes in the plumes over the past 10 years of remediation. The animations included maps for TPH, benzene, 1,2-DCA, and MTBE. Mr. Garcia asked if the RAB members could have copies of the maps. Mr. Pitta agreed to mail out copies to the RAB members, have copies available at the next meeting, and show the animations again at the next meeting for the benefit of those who are absent tonight. Ms. Erickson stated it is important now to gain a conceptual understanding of why the maps changed as they did. Mr. Hassan said that Parsons would look at the trends and prepare a trend analysis. Ms. McIntosh suggested these animations would be good to show City Council to give them an idea of the cleanup progress.

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3. DESC-AMW Update Redwan Hassan, Parsons

Central Plume Remediation System Update

Mr. Hassan said that in the first quarter of 2006, 5,866 gallons of total hydrocarbons were removed. There were no hydrocarbons recycled or destroyed by the Free Product Recovery/Groundwater Treatment System.

Since April 1996, approximately 297,937 gallons of total hydrocarbon mass were removed: 55,538 gallons of free product were recovered; 1,397 gallons of dissolved phase hydrocarbons were recovered; 100,799 gallons of volatile hydrocarbons were recovered through soil vapor extraction; and estimated 140,000-plus gallons of hydrocarbons were destroyed due to enhanced biodegradation. Approximately 42.2 million gallons of groundwater were treated. Mr. Hassan next showed a graph of cumulative totals of the system recovery since April 1996. The graph, which has normally included free product and soil vapor extraction (SVE) recovered, now also includes the total amount (free product, SVE, and biodegradation). The line for the total amount only goes back to January 2003, when the data was first available.

Remediation Optimization

Mr. Hassan said they continued with soil remediation through SVE. SVE removed about 600 gallons within the Tank Farm and the water tank areas. SVE removed over 2,800 gallons from the former Truck Fill Stand (TFS) area. The operation of the biosparging wells continued. They also continued working to update the Central Plume groundwater treatment system PLC controls to allow continued extraction from the total fluid (TF) wells. Mr. Hassan then showed a map with the layout of the expanded DESC remedial systems, including the biosparging wells and vapor extraction wells, which connect to the main treatment system in the north-central area of the Tank Farm.

General Site Activities

Mr. Hassan said conversion of the system to bioventing started yesterday. They hope it will be operational in a couple of weeks. The vacuum blower will be turned around to introduce oxygen into the vapor extraction wells. Monitoring following the system conversion will establish a bioventing schedule. If they happen to find other hotspots in the future, they are prepared to operate the vapor extraction wells if needed. Mr. Hassan next showed some photographs of the conversion activities.

Mr. Hassan said that the reason that the main treatment system was not pumping in the past quarter was due to the re-programming of the PLC. The electrician rewired the system a couple of days ago, so the pumping can restart. A report of the progress will be given at the next meeting.

Eastern Boundary Update

Mr. Hassan said that the remediation system expansion into the Eastern Boundary area is funded and is in progress. A work plan will be submitted to RWQCB for review and approval. Both biosparging and bioventing will be used to treat soil and groundwater in this area. Mr. Hassan said that the agreement with the City for access to Holifield Park is still pending, due to liability issues being discussed by the lawyers. Ms. McIntosh asked Mr. Hassan to call her with an update in a few weeks, and then she will see if she can do anything to help the process. She said that this access issue has been ongoing since October and needs to be resolved. The park area has never been checked, so it is possible that contamination exists underneath it and the groundwater may be bringing it back into the eastern area of the Tank Farm. Mr. Clark said he will check into the access issue also.

4. Set Date and Agenda for Next Meeting

The next RAB meeting will be held **Thursday, July 27, 2006, at 6:30 p.m.** in the Norwalk Arts & Sports Complex. The agenda is to include Sentry Event, 10-year maps, HHRA update, Eastern Boundary area update, and KMEP and DESC remediation updates.

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<p>5. <u>Public Comment Period</u></p> <p>David Caughey thanked Mr. Pitta for helping him get a 50-gallon drum off his property. Ms. McIntosh requested that Mr. Pitta have the KMEP access road cleaned. She also gave a school presentation update. She has not been able to put anything together yet. She spoke to the principal of Dolland Elementary School. They have been busy also, so they both agreed next school year would be better. They can work on it over the summer, submit it to the principal, and then the teachers would need 5 to 6 weeks to work it in to their schedules.</p> <p>Mr. Hoskins asked if reports distributed for RAB members' review can be delivered sooner. Ms. McIntosh requested that the reports be delivered at least the Friday before an upcoming RAB meeting.</p> <p>Mr. Hoskins thanked Mr. Pitta for getting him a letter for his lender to help in his refinancing. Mr. Pitta said the RWQCB and Geomatrix helped also.</p> <p>Mr. Hoskins made a motion to adjourn the meeting. The motion was seconded and passed without opposition. Ms McIntosh adjourned the meeting at 7:45 p.m.</p>	

ACTION ITEMS		
Item	Responsible Party	Due Date
Quarterly monitoring data on wells GMW-57, GMW-58, GMW-60, and GMW-61 mailed to RAB members	DESC	5/11/06
Mail hard copies of 10-year maps	KMEP	5/11/06
Call Ms. McIntosh with update on Holifield Park access issues	DESC	5/11/06
Mail tables for latest Sentry Event to RAB members	KMEP	5/11/06
Send technical meeting minutes to Ms. McIntosh	Ms. Erickson	5/11/06
Forward technical meeting minutes to RAB members	Ms. McIntosh	5/11/06
Deadline for document delivery for RAB member review	DESC/KMEP	7/21/06
10-year map information available at next meeting	KMEP	7/27/06
Draft letter to OEHHA	Ms. McIntosh	7/27/06
Clean up access road	KMEP	7/27/06
Report on revised Remedial Action Plan	Ms. Erickson	7/27/06
Next RAB meeting	All	7/27/06