

FINAL

Meeting Minutes

Meeting Subject: Norwalk Tank Farm Restoration Advisory Board (RAB) Quarterly Meeting	Meeting Date: <u>28 July 2005</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 T. Winkler	<u>Other Members</u> A. Figueroa (City of Norwalk) J. Holdren (City of Cerritos) M. Pitta (KMEP) (Co-Chair) Lt. Col. Ramer (DESC-AMW) (Co-Chair) A. Townsend (RWQCB)
<u>Other Attendees</u> B. Cardenas (Office of G. Napolitano) S. Chou (Geomatrix) R. Hassan (Parsons) K. Olowu (DESC) V. Seyde (URS) C. Silver (Parsons) J. Saucedo (Office of G. Napolitano) M. Winford (City of Norwalk)	DESC-AMW . Defense Energy Support Center Americas West GSA..... General Services Administration KMEP..... Kinder Morgan Energy Partners OCCS Offsite Chemicals Cleanup Subcommittee RAB Restoration Advisory Board RBCA..... Risk-Based Corrective Action RWQCB Regional Water Quality Control Board URS..... URS Corporation WRD Water Replenishment District of Southern California
<u>Absentees</u> K. Lee (RWQCB) N. Matsumoto (WRD)	
<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 6:40 p.m. Ms. McIntosh introduced Lt Col Jon Ramer. Lt Col Ramer provided a brief introduction regarding his professional career. Ms. McIntosh indicated that committee co-chair election applications were distributed. All those interested in participating as the committee co-chair should either submit a completed application to Tim Whyte at URS or send him an email indicating your interest. There were no comments on the April 28, 2005, meeting minutes. A motion to accept the minutes as written was passed without opposition.

2. Meetings with Congresswoman Napolitano

Members of the RAB met with Congresswoman Napolitano and provided a briefing on the Tank Farm and concerns regarding the northeastern boundary. Congresswoman Napolitano indicated that the Attorney General's office is aware of the situation. Mike Pitta provided information regarding a settlement agreement that requires KMEP to revise their release reporting. Congresswoman Napolitano indicated that she is committed to the project and requested a meeting to get updates from the General Services Administration (GSA) and the Air Force Real Estate Department to discuss property issues. Ana Townsend of the Regional Water Quality Control Board (RWQCB) indicated that there are certain requirements if the site will be used for park and recreation purposes.

3. HHRA Update Mike Pitta, KMEP and Shioh-Whei Chou, Geomatrix Consultants, Inc.

Shioh-Whei Chou said that the Human Health Risk Assessment (HHRA) Draft Work Plan was submitted to the RWQCB and the Off-Site Chemicals Cleanup Subcommittee (OCCS) for review on July 15, 2005. The Final Work Plan is to be submitted to the RWQCB after receiving comments from RWQCB and OCCS on Draft Work Plan. The HHRA will be implemented upon the RWQCB's approval of the Final Work Plan.

4. KMEP Update Mike Pitta, KMEP and Shioh-Whei Chou, Geomatrix Consultants, Inc.

Remediation Operations Update

- Ms. Chou displayed a map of current remediation systems and indicated the groundwater extraction wells along the Western Barrier System.

Soil Vapor Extraction System Operations Summary

- Approximately 6,621 gallons of equivalent fuel removed from soil and destroyed by thermal oxidation since April 2005 RAB meeting.
- Approximately 432,650 gallons equivalent of fuel removed from soil and destroyed by thermal oxidation since September 1995.
- Approximately 47,290 hours of operation since September 1995.

Groundwater/Product Extraction System Operations Summary

- South Central Plume Area: 208,700 gallons
- Southeastern 24-inch Valve Area: 274,600 gallons
- West Side Barrier Area: 1,258,600 gallons
- No free product measured

Total groundwater extracted since September 1995

- South Central Plume Area: 22.6 million gallons
- Southeastern 24-inch Block Valve Area: 6.2 million gallons
- West Side Barrier Area: 17.7 million gallons
- Total groundwater extracted: 46.5 million gallons
- 8,745 gallons free product removed

Eastern Boundary Area Update

- The work plan was submitted to RWQCB for review and approval on June 16, 2005
- Site assessment activities were performed during July 5, 6, and 8, 2005
- 10 boring locations were chosen and 50 soil samples were collected
- 15 grab groundwater samples were collected (including one duplicate sample)
- Samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), TPH as diesel (TPHd) and TPH-JP5, and volatile organic compounds (VOCs).

Presentation by Mike Pitta:

- 1998: Wells GW-57, GW-58 and GW-59 were installed.
- 2003: RWQCB requested data.
- April 2004 DESC installed new wells. LNAPLs (light non-aqueous phase liquids) were not detected, but BTEX (benzene, toluene, ethylbenzene, and xylenes) was detected.
- July 2004: More soil investigations were implemented.
- February 2005: RWQCB requested more sampling in eastern area.
- March 2005: DESC and KMEP collected samples for fuel fingerprinting.
- June 2005: Work plan submitted to RWQCB.
- July 2005: KMEP begins tracer study. This tracer study replicated the 2003 tracer study. It covers all three pipelines. 246 soil vapor samples were collected.
- 50 soil and 14 shallow groundwater samples were collected. Results indicated no concentrations of benzene and TPH in soil samples. Four groundwater samples were collected at deeper depths (30 to 40 feet bgs). These samples had higher levels of chemicals and match the screening levels at wells GMW-60 and GMW-61. Overall, the pipeline tracer tests confirmed pipeline integrity.

Mr. Pitta displayed a figure showing the approximate boring locations for assessment of Eastern Boundary Area. Mr. Pitta indicated that soil samples were non-detect from samples collected from 5 feet to 25 feet below ground surface (bgs). Boring locations B-9 and B-10 were requested by the RWQCB. The figure provides an indication of the site boundary, the KMEP pipeline, and other utility lines. Through excavation activities, KMEP located a 16-inch pipeline adjacent to the KMEP pipeline; the pipeline is located approximately 7.5 feet west of the fence. The coating on the pipe indicates that it is from the late 1970s early 1980s. KMEP consulted Underground Service Alert and no referrals or calls were forthcoming. KMEP found that the pipeline leads to a gravitometer labeled with a Goldenwest Refining Company label. Therefore, the inactive pipeline is most likely the property of Goldenwest.

5. Semi-Annual Monitoring Event Mike Pitta, KMEP and Shiew-Whei Chou, Geomatrix Consultants, Inc.

Ms. Chou said that 97 wells were sampled, including the five Exposition wells. No VOCs were detected in Exposition wells. Free product was observed in 18 of 167 wells gauged. The North-central free-product plume remains as smaller separated plumes in same general areas as noted during previous monitoring events. The South-central free product plume remains in the same general areas as noted during previous monitoring events. Free product was also observed in the Truck Rack Area, Intermediate 24-inch Block Valve Area, Well GMW-10, and in Southeastern 24-inch Valve Area. Ms. Chou displayed a series of figures that displayed groundwater elevations and chemical plume boundaries.

There was discussion regarding how the groundwater elevation increased by six feet and how this can change the groundwater flow direction. One year ago the groundwater flow was towards the northwest direction and the figures now display groundwater flow in a more westerly direction. For example, although there is an overall decrease in TPH in most wells, there were a number of questions regarding the TPH plume 2004 and 2005 figure. The figure indicates that there was a detection of TPH in the western area and this detection is due to groundwater flow, whereas the extension of the TPH plume on the eastern boundary is due to monitoring at wells GMW-60 and GMW-61.

On the benzene 2004 and 2005 figure, the plume increased on the east side because new wells were recently installed. Overall, concentrations have decreased and plumes are generally in the same area. On the 1,2-DCA 2004 and 2005 figure, the lateral extent in the western area has decreased but distribution has shifted towards the west due to groundwater flow. On the MTBE 2004 and 2005 figure, concentrations have decreased in 2005 and the plume indicated near Tank 80017 is consistent with groundwater flow in the area and is not an indication of an increase in the area. The RAB members indicated that there is a need to determine groundwater flow.

Summary of Recent Activities (2002-2005):

- April 2002: A supplemental groundwater assessment was conducted in the southeastern area of the site
- January – April 2003: Pipeline tracer testing was performed in the south-central area. A small fuel release was detected at the Intermediate 24-inch Block Valve. Soil impacted by the release was removed and site assessment activities were completed.
- April 2003: Expansion of the remediation system in the southeastern area of the site was completed.
- August 2003: The Risk-Based Corrective Action (RBCA), Western 1,2-DCA and MTBE plumes, and the revised sensitivity analysis of fate and transport modeling report was submitted to the RWQCB and RAB.
- September 2003: Expansion of the onsite remediation system in the area of the Intermediate 24-inch Block Valve release was completed.
- July 2004: Evaluation of the southwestern area phytoremediation system was completed. Results indicated that the system enhances natural hydrocarbon degradation and provides localized groundwater flow control.
- May 2005: Eight total fluids (product and groundwater) extraction wells were converted to four total fluids (product and groundwater) extraction wells and four groundwater extraction wells in the South-Central Plume Area.
- July 2005: A soil investigation and a pipeline tracer test were performed in the northeastern area of the site.
- July 2005: Two additional granular activated carbon (GAC) vessels were installed to treat groundwater from the South-Central Plume, the Southeastern 24-inch Block Valve and West Side Barrier Areas.
- July 2005: A draft work plan was submitted to the RAB to update the 1993 Human Health Risk Assessment addressing the southern off-site area.

Ms. McIntosh asked questions regarding the Groundwater Monitoring Report.

6. DESC-AMW Update Redwan Hassan, Parsons

Central Plume Remediation System Update

Performance results for the second quarter of 2005 indicate that 6,023 gallons of total hydrocarbon mass were removed. Of this, 2,209 gallons were recycled and destroyed and 3,814 gallons of hydrocarbons were destroyed by enhanced biodegradation.

Since April 1996, the overall system performance is as follows:

- Approximately 284,531 gallons of total hydrocarbon mass were removed
 - 55,268 gallons of free product were recovered
 - 1,397 gallons of dissolved phase hydrocarbons were recovered
 - 96,542 gallons of volatile hydrocarbons were recovered through soil vapor extraction

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- An estimated 127,239 gallons of hydrocarbons were destroyed due to enhanced biodegradation
- 42.2 million gallons of groundwater were treated.

Remediation Optimization:

- Tank Farm soil remediation continued through vapor extraction system and biodegradation
 - Over 6,000 gallons were removed through biodegradation
 - Almost 1,500 gallons were removed from the VW wells
 - Over 700 gallons were removed from truck fill stand
- Operation of the expanded BS wells commenced
- A draft letter was submitted to RWQCB requesting:
 - Shutoff of groundwater treatment and free product recovery system (Request made to RWQCB, however, system can be turned back on if necessary)
 - Replacing vapor extraction system with bioventing

Wells GMW 60 and GMW 61 – Forensics

A forensic report was submitted detailing results from four samples analyzed.

- Wells PZ-3 and TF-18 “most closely resembles degraded JP-4 fuel”
- Wells GMW-60 and GMW-61 “not related to the product PZ-3 and TF-18, and are likely from gasoline”
- No free product available from eastern wells for further analysis.

Bloomfield Gate

Mr. Hassan provided a photograph that displayed the installation of a “No Parking” sign on the Bloomfield Avenue Gate. The RAB members indicated that more language referencing local city ordinances/violations needs to be added as a further no parking deterrent.

Mr. Hassan indicated that the next weed abatement is scheduled for some time in August 2005.

7. Set Date and Agenda for Next Meeting

The next RAB meeting will be held **Thursday, October 27, 2005, at 6:30 p.m.** in the Norwalk Arts & Sports Complex. The agenda is to include updates on the HHRA along with updates from KMEP and DESC-AMW.

8. Public Comment Period

Ms. McIntosh adjourned the meeting at 8:40 p.m.

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ACTION ITEMS		
Item	Responsible Party	Due Date
Clarify Pipelines	KMEP	10/27/05
Determine groundwater flow	KMEP	10/27/05
Reference appropriate language regarding violations if cars are parked adjacent to Bloomfield Gate	DESC	10/27/05
Next RAB meeting	All	10/27/05