

February 7, 2011

Mr. Paul Cho, PG, Site Cleanup Unit IV
California Environmental Protection Agency
California Regional Water Quality Control Board, Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, California 90013

**Re: Vapor Extraction System Upgrade Transition History February 2008 through
January 2011
DFSP Norwalk Facility, Norwalk**

Dear Mr. Cho:

Parsons is transmitting a summary report detailing the efforts for the vapor extraction system (VES) upgrade transitional history period from February 2008 through January 2011. Mary Jane McIntosh requested this information to be submitted to the board and RAB members. The VES is installed and operated at the DFSP Norwalk Facility in Norwalk, California since 1996. This report will summarize vapor extraction remedial system activities for the period from 2008 through 2010 for the status change and upgrades.

The Thermal Oxidizer VES operated from 2003 through early 2008 under Parsons management. In February 2008, it was determined that the thermal oxidizer was no longer effective for site conditions and was inefficient for removing hydrocarbons from the site due to lower hydrocarbon concentrations and high natural gas consumption. The Thermal Oxidizer ceased operation in February 2008. A rebound/respiration test was performed during September and October 2008 after allowing a period of stabilization. Results of this test confirm the operation of soil vapor extraction (SVE) to date has effectively removed hydrocarbons from the site and, based on these results, a recommendation of source removal in conjunction with either granular activated carbon (GAC) VES or non-thermal plasma was made.

Following the evaluations of the options, Parsons began the preparation of converting the VES from using thermal oxidizer to a GAC based system. The design calculations and permit modification package was prepared and submitted to AQMD during 3rd Quarter 2009. Construction of GAC VES began during 3rd Quarter 2009. AQMD permit approval was granted in 1st Quarter 2010. Baseline soil vapor concentrations were established and start-up/shake-down of GAC VES began

Further soil investigation was conducted in May and June 2010 to fully delineate the contaminant plume in the TFS and water tank areas. During this investigation, it was identified that additional vent wells in the TFS and water tank areas were needed for effective SVE operation as reported in our October 2010 report.

Mr. Cho

Vapor Extraction System Upgrade Transition-February 2008 through January 2011

Operational issues identified during GAC VES start-up/shake-down were evaluated and the blower from the Thermal Oxidizer was found to be undersized for the system expansion. The system expansion included the addition of 26 extraction wells throughout the site with four horizontal wells. Calculations were conducted for a new blower that would allow for future expansion of 25 extraction wells. The new blower was procured and installed November 2010. In addition, upgraded piping to address the expanded system operation was designed and installed in November 2010. Start-up/shake-down operations began the week of January 10, 2011 and operation continued throughout the remainder of January 2011. The VES system is now fully operational.

If you have any questions, please call me at 602-734-1083 or Mary Lucas at 626-440-6032.

Sincerely,

PARSONS



Redwan Hassan, PG
Project Manager

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