
Los Angeles Regional Water Quality Control Board

July 12, 2017

Ms. Carol Devier-Heeney
DLA Installation Support – Energy
8725 John J. Klingman Road
Fort Belvoir, VA 22060

**SUBJECT: REVIEW OF TF-18 AREA LIGHT NON-AQUEOUS PHASE LIQUID
RECOVERY AND INTERIM WORKPLAN**

**CASE/SITE: DEFENSE FUEL SUPPORT POINT NORWALK, 15306 NORWALK
BOULEVARD, NORWALK, CALIFORNIA (SCP NO. 0286A, SITE ID NO.
16638)**

Dear Ms. Devier-Heeney:

On January 18, 2017, the California Regional Water Quality Control Board (Regional Board), Los Angeles Region, received a technical document titled *TF-18 Area Light Non-Aqueous Phase Liquid (LNAPL) Recovery and Interim Workplan* (Workplan), prepared by The Source Group Inc. (SGI), on your behalf, for the referenced site (Site). This Workplan proposes to evaluate and field-test the following technologies to determine the most practical and efficient LNAPL remedial measure in the TF-18 area as well as other areas of the Site:

- Flush testing using water flooding, surfactant, and polymer flushing
- LNAPL recovery using total fluids extraction
- LNAPL recovery under vacuum
- LNAPL skimming using a set of closely-spaced wells

SGI will install 4 pilot test wells around a central extraction well, RTF-18NW, for conducting pneumatic skimming, vacuum-enhanced skimming, and total fluid extraction technologies. For the proposed flush test using surfactant, a bench scale treatability study will be performed prior to a field pilot test to determine surfactant formulations and dosage levels. A field pilot test will be proposed if the skimming, vacuum-assisted, and total fluids LNAPL mass removal methods are not considered sufficiently effective.

A LNAPL recovery investigation report with the following items will be submitted to the Regional Board after conducting the proposed work:

- Test well installation details and any sampling results
- Pilot test results including information on LNAPL presence, mobility, and recovery rates under the various test conditions

- Surfactant bench testing results and a schedule for a field pilot test workplan submittal
- Data evaluation, conclusions, and recommendations

Based on our review, we concur with the proposed work described in the Workplan. Submit the LNAPL recovery investigation report to the Regional Board by **October 31, 2017**.

If you have any questions, please contact me at (213) 576-6721 or paul.cho@waterboards.ca.gov.

Sincerely,



Paul Cho, P.G.
Site Cleanup Unit V

cc: See Mail List

Mail List

Angelina Mancillas, Office of Congresswoman Linda T. Sanchez (angelina.mancillas@mail.house.gov)
Ricardo Mendoza, Office of Congresswoman Linda T. Sanchez (ricardo.mendoza3@mail.house.gov)
Perla Hernandez, Office of Congresswoman Grace F. Napolitano (perla.hernandez@mail.house.gov)
Calvin Sung, Office of State Senator Tony Mendoza (calvin.sung@sen.ca.gov)
Marcos Alamillo, Office of Assemblymember Christina Garcia (marcos.alamillo@asm.ca.gov)
Jon Wrescinsky, March Air Force Base (jon.wreschinsky.ctr@us.af.mil)
Walter Scherer, March Air Force Base (walter.scherer@march.af.mil)
Michael Wilson, Air Force Real Property Agency (michael.wilson.9@us.af.mil)
Carol Devier-Heeney, Defense Logistics Agency Energy (carol.devier-heeney@dla.mil)
Los Angeles County Department of Public Health (waterquality@ph.lacounty.gov)
Steve Defibaugh, Kinder Morgan Energy Partners (steve_defibaugh@kindermorgan.com)
Mike Egan, City of Norwalk (megan@ci.norwalk.ca.us)
Adriana Figueroa, City of Norwalk (afigueroa@ci.norwalk.ca.us)
Norman Dupont, Ring Bender LLLP (ndupont@ringbenderlaw.com)
Mary McIntosh, Norwalk Restoration Advisory Board (maryjane@churchillcomposites.com)
Everett Ferguson, Water Replenishment District of Southern California (eferguson@wrđ.org)
Brian Partington, Water Replenishment District of Southern California (bpartington@wrđ.org)
Charles Emig, City of Cerritos (cemig@cerritos.us)
Adam Ly, Liverty Utilities (adam.ly@libertyutilities.com)
Jeanne-Marie Bruno, Liverty Utilities (jim.bruno@libertyutilities.com)
Tracy Winkler, RAB Community Member (tracywink@aol.com)
Eugene Garcia, 15608 Claretta Avenue, Norwalk, CA 90650
Minxia Dong, Norwalk Regional Library, 12350 E. Imperial Hwy., Norwalk, CA 90651
Lorena Sierra, John Dolland Elementary School (lsierra@nlmusd.org)
Jim Dystra (jdykstra@edingtonpeel.com)
Neil Irish, The Source Group (nirish@thesourcegroup.net)
Daniel Jablonski, CH2M (daniel.jablonski@ch2m.com)