



ENVIRONMENTAL HEALTH DEPARTMENT
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

September 25, 2013

Richard and Marisa Frame
17109 Via Chiquita
San Lorenzo, CA 94580

Subject: Detectable Petroleum Hydrocarbon Concentrations in Backyard Residential Well; Fuel Leak Case No. RO0002737, (Global ID #T06019771179), Impulse Motors, 1210 Bockman Road, San Lorenzo, CA 94580

Dear Mr. and Mrs. Frame:

The purpose of this letter has been to confirm previous verbal conversations, and to ensure you have been sufficiently informed to make appropriate and informed decisions about your well in the future.

As you are aware Alameda County Environmental Health (ACEH) requested that the Responsible Parties for the Impulse Motors Fuel Leak Site sample groundwater from the well on your property and that the groundwater be tested for petroleum hydrocarbon contamination because your well is located approximately 155 feet from a former underground storage tank (UST) system that released petroleum hydrocarbons to soil and groundwater.

Stantec Consulting Corporation (Stantec) sampled your well on September 25, 2012. Groundwater from the well was tested for Total Petroleum Hydrocarbons as gasoline (TPHg), TPH as diesel (TPHd), and benzene, toluene, ethylbenzene, and total xylenes (chemicals of concern in gasoline; collectively known as BTEX). Analysis for Methyl Tertiary Butyl Ether (MTBE) was not performed since it had not been detected in multiple sampling events of groundwater in wells at the former UST release location. It is the understanding of ACEH that you have been given a copy of the report (dated October 22, 2012) that was generated by Stantec after receipt of the groundwater analytical results from the laboratory. The report documented that no detectable concentrations of TPHg and BTEX were present in the groundwater sample from your well; however, a concentration of 68 micrograms per liter ($\mu\text{g}/\text{l}$) of TPHd was detected in the groundwater sample from your well. This value is slightly above what is considered non-detectable (i.e. above the standard Limit of Detection of 50 $\mu\text{g}/\text{l}$) for TPHd and TPHg. The report recommended, "...in an abundance of caution...", that the well should be destroyed to prevent contact with this low concentration of TPHd.

During our telephone conversation of March 23, 2013 you indicated you were concerned with the recommendation for well destruction as use of the well gives enjoyment to family members, and that it was your preference to keep the well. As ACEH noted in the conversation, it is your right to retain your well. At the time of the conversation, you stated that the water would only be used for irrigation purposes and would not be used as drinking water.

Please be aware that ACEH considers it the responsibility of a property owner to provide safe irrigation or drinking water to his or her property. Multiple lines of evidence indicate concentrations in groundwater from your well are not a significant health risk to you or your family; provided the well is used only for irrigation. These include the following:

- The San Francisco Regional Water Quality Control Board (RWQCB) has identified Environmental Screening Levels (ESLs) that are considered to be safe under all situations for human health and for the protection of groundwater. For TPHd the ESL is 83 $\mu\text{g}/\text{l}$, and 68 $\mu\text{g}/\text{l}$ is less than that; however, please be aware that this was a single sampling event and contaminant concentrations change over time.

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- The groundwater contained no gasoline-related volatile compounds (BTEX) that are known to have greater health risks (and consequently lower ESLs), thus there appears to be no or very limited health risks associated with these volatile chemical compounds from your well water.
- The source of the hydrocarbon release has been removed from the Impulse Motors Fuel Leak Site and concentrations in groundwater are expected to decline with time (State Water Resource Control Board, Low-Threat Closure Policy, August 17, 2012).

To ensure that groundwater from your well continues to contain concentrations that do not exceed Human Health Standards, ACEH recommends, that in addition to any water testing you are currently conducting, water from your well should be tested at a minimum annually for the petroleum contaminant compounds previously tested for (TPHg, BTEX, TPHd), and should include the use of the Silica Gel Cleanup technique for the TPHd analysis, until these contaminants are no longer detectable in your well water.

ACEH is willing to help provide general information and assistance if requested. Should you have any questions, or would like to discuss the site information, please contact me at (510) 567--6876 or send me an e-mail message at mark.detterman@acgov.org.

Sincerely,

Mark E. Detterman, PG, CEG
Senior Hazardous Materials Specialist

cc: Ms. Katherine Chandler , The Olson Company, 3010 Old Ranch Parkway, Suite 100, Seal Beach, CA 90740 (Sent via E-mail to: kchandler@theolsoncompany.com)

Ms. Carol Wallace, Christopher and Carol P. Wallace Trust, 509 Ironwood Road, Alameda, CA 94502

Kyle Emerson, Stantec Consulting Corp., 25864-F Business Center Dr., Redlands, CA 92374
(Sent via E-mail to: Kyle.Emerson@stantec.com)

Donna Drogos, ACEH, (Sent via E-mail to: donna.drogos@acgov.org)

Dilan Roe, (sent via electronic mail to: dilan.roe@acgov.org)

Mark Detterman, ACEH, (Sent via E-mail to: mark.detterman@acgov.org)

Geotracker, Case Electronic File