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2:29 pm, Aug 24, 2009

Alameda County  
Environmental Health

August 13, 2009

Jerry Wickham  
Alameda County Environmental Health Svcs  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Re: Transmittal Letter  
Site Location: Springtown Gas  
909 Blue Bell Drive, Livermore, CA 94551

Dear Mr. Wickham:

On behalf of Aminifilibadi Masood & Amini Sharbano, Geological Technics Inc. (GTI) prepared the Interim Remedial Action Report, dated August 13, 2009 that was sent to your office via electronic delivery per Alameda County's guidelines on August 19, 2009.

I declare under penalty of law that the information and/or recommendations contained in the above referenced document or report is true and correct to the best of my knowledge.

Respectfully submitted,

Aminifilibadi Masood/Amini Sharbano  
Property Owner  
909 Blue Bell Drive  
Livermore, CA 94551

A handwritten signature in black ink, appearing to read 'Aminifilibadi Masood', is written over a horizontal line. The signature is stylized and somewhat cursive.

# Geological Technics Inc.

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1172 Kansas Avenue  
Modesto, California 95351  
(209) 522-4119 / Fax (209) 522-4227  
[www.gtienv.com](http://www.gtienv.com)

August 13, 2009

Project No.: 1409.2  
Project Name: Springtown Gas (Bluebell)

Cherie McCaulou  
Regulatory Project Manager  
San Francisco Bay Regional Water Quality Control Board  
1515 Clay Street  
Suite 1400  
Oakland, CA 94612

RE: Interim Remedial Action  
Springtown Gas, 909 Bluebell Drive, Livermore, California

Dear Cherie McCaulou:

Geological Technics Inc. (GTI) has been retained by the owners of Springtown Gas to implement characterization and remedial work related to a former underground storage tank at 909 Bluebell Drive in Livermore. This on-going work is being performed at the direction of, and overseen by Alameda County Environmental Health Services.

A portion of the site work includes an Interim Remedial Action that will involve hydrogen peroxide injection into three monitoring wells. The purpose of this correspondence is to inform the SF Bay Area Regional Board of the proposed work, and obtain approval from the SF Bay Area Regional Board to implement the Interim Remedial Action.

Please find enclosed a copy of the *Additional Site Characterization and Interim Remedial Action Work Plan* that was prepared by GTI, dated February 13, 2009. Please also find attached a copy of the *Hydrogen Peroxide Injection Pilot Test Report* that was prepared by GTI, dated December 5, 2008.

As part of the Hydrogen Peroxide Injection Pilot Test conducted at the site by GTI between September 29 and November 6, 2008, and prior to any hydrogen peroxide injection at the site, groundwater samples were collected from several monitoring wells

and analyzed for Metals [Sb, As, Ba, Be, Cd, Cr (III), Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn], TPH-G, BTEX, MtBE, TBA, TAME, EtBE, DIPE, 1,2-EDB, 1,2-DCA, methanol and Ethanol.

Two weeks after hydrogen peroxide injection pilot test ended, on November 20, 2008 groundwater samples were again collected and analyzed and compared to the initial results. It is believed that metals have very low concentrations in groundwater and soil and therefore their chance of oxidation by hydrogen peroxide decreases dramatically although they have very high potential in comparison with hydrocarbons to be oxidized by an agent like hydrogen peroxide. It was determined that no adverse effect of oxidation in the aquifer system was observed in terms of metals mobilization.

In the proposed Interim Remedial Action Work Plan, hydrogen peroxide is selected as an oxidizer to be applied for groundwater and soil remediation at the site. Hydrogen peroxide 7% solution will be injected in selected wells at the site on a weekly basis. 10 gallons of 35% food grade hydrogen peroxide will be diluted by 40 gallon tap water to produce 50 gallons of 7% hydrogen peroxide solution. The hydrogen peroxide 7% solution will be injected in each well by gravity. Following the hydrogen peroxide, 50 gallons of tap water will be added to the injection wells to give it more hydraulic head for spreading in the formation.

Since the hydrogen peroxide injection pilot test has suggested a radius of influence of 10 feet for spreading the oxidizer into the formation, no further parameters are proposed to be monitored over the span of the interim remedial action.

Please let me know if you have any questions, or require further information.

Thank you,



Tamorah Bryant, P.E.

Encls.

cc: Masood Filibadi, Springtown Gas  
Sharbano Amini, Springtown Gas  
Jerry Wickham, Alameda County Environmental Health Services  
USTCUF