

## Wickham, Jerry, Env. Health

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**From:** Matt Spielmann [MSpielmann@geologicaltechnics.com]  
**Sent:** Monday, August 11, 2008 2:31 PM  
**To:** Wickham, Jerry, Env. Health  
**Cc:** Ray Kablanow; Jenny Weese; Reza Ghanbari  
**Subject:** Fuel Leak Case No. RO0002894 - H2O2 pilot test monitoring at Springtown Gas

Mr. Wickham,

Thank you for your August 8, 2008 correspondence outlining your technical comments and approval for GTI's Work Plan for Springtown Gas, 9090 Bluebell Drive, Livermore, CA, dated July 30, 2008, (*Work Plan, Site Conceptual Model, Hydrogen Peroxide Injection, Groundwater Monitoring/Sampling/Analyses, Springtown Gas, 9009 Bluebell Drive, Livermore, California*). Your Technical Comment 4 requests monitoring temperature and VOC by PID using the available groundwater monitoring wells and injection wells during initial chemical oxidant (H<sub>2</sub>O<sub>2</sub>) injection. Following the initial injection, it is likely that the temperature of the H<sub>2</sub>O<sub>2</sub> being injected would be measured, rather than groundwater in the well. Injection of H<sub>2</sub>O<sub>2</sub> will not result in the release of VOCs to the atmosphere inside the well. Rather the injection of H<sub>2</sub>O<sub>2</sub> will result in the reaction of H<sub>2</sub>O<sub>2</sub> with dissolved-phase hydrocarbons in groundwater resulting in the formation of CO<sub>2</sub> and H<sub>2</sub>O. In the Work Plan, GTI recommends monitoring DO and ORP following H<sub>2</sub>O<sub>2</sub> injections to evaluate the success or modification necessary for full-scale H<sub>2</sub>O<sub>2</sub> injection. Therefore, GTI requests that only DO and ORP be monitored during the Pilot Test.

Thank you for your consideration, and please contact either of the undersigned if you have any questions or require additional information regarding this matter.

Regards,

Matthew H. Spielmann  
Project Manager/Geologist



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