



April 27, 2012

Reference No. 240894

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Dear Mr. Wickham:

Re: Hydrocarbon Fingerprinting
Shell-branded Service Station
1800½ Powell Street
Emeryville, California
SAP Code 135266
Incident No. 98995349
Agency No. RO0000254

RECEIVED

1:38 pm, Apr 30, 2012

Alameda County
Environmental Health

Conestoga-Rovers & Associates (CRA) prepared this letter on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to inform Alameda County Environmental Health (ACEH) that we were unable to draw further conclusions about the nature of the total petroleum hydrocarbons as diesel (TPHd) detections in groundwater samples collected during the fourth quarter 2011 and first quarter 2012.

As discussed in CRA's February 8, 2012 *Groundwater Monitoring Report – Fourth Quarter 2011*, Shell reviewed TPHd chromatograms from the fourth quarter 2011 groundwater sampling event and concluded that there is no evidence of diesel (either fresh or weathered) in the samples. The chromatograms show that there is a trace of weathered gasoline in the samples, but the majority of the hydrocarbon is in the motor oil range and also extends beyond the motor oil range. The chromatograms do not show a typical motor oil hydrocarbon pattern, and the detected TPHd-range hydrocarbons appear to be composed of heavy hydrocarbons which can include tar and other heavy residues. These heavier hydrocarbons are likely to be residual impacts from past property uses and are not related to past or present gasoline station operations.

Blaine Tech Services, Inc. of San Jose, California resampled site wells during the first quarter 2012 for TPHd analysis and obtained split samples from wells S-10 and S-12 for hydrocarbon fingerprinting. ACEH's February 27, 2012 letter requested additional information based on Shell's hydrocarbon fingerprinting of the split groundwater samples; however, Shell's hydrocarbon fingerprinting analysis was inconclusive.



**CONESTOGA-ROVERS
& ASSOCIATES**

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Please call Peter Schaefer at (510) 420-3319 if you have any questions or comments.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

A handwritten signature in black ink that reads 'Peter Schaefer'. The signature is fluid and cursive, with the first name being more prominent.

Peter Schaefer, CEG, CHG

PS/bl/3

c.c.: Denis Brown, Shell Oil Products US (electronic copy)
Au Energy LLC (property owner), c/o Nick Goyle, Vintners Distributors, Inc., 41805
Albrae Street, 2nd Floor, Fremont, CA 94538