



**CONESTOGA-ROVERS
& ASSOCIATES**

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By Alameda County Environmental Health at 2:48 pm, Dec 13, 2013

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December 11, 2013

Reference No. 311950

Mr. Mark Detterman
Alameda County Environmental Health Services
1131 Harbor Bay Parkway
Alameda, California 94502

Re: Response to November 21, 2013 Technical Comments
Former Chevron Station 95607
5269 Crow Canyon Road
Castro Valley, California
Fuel Leak Case RO0350

Dear Mr. Detterman:

As a condition for obtaining the building permit to construct the dual-phase extraction (DPE) system, the Alameda County Building Department has requested a letter from Alameda County Environmental Health Services (ACEHS) confirming their agreement with Conestoga Rovers & Associates' (CRA's) methodology and remedial design. To facilitate your response, CRA provides this written response to technical comments 1a and 1b which were listed in ACEHS' November 21, 2013 letter which conditionally approved the CRA's *Revised Drilling Scope of Work* (RAP Addendum), dated November 7, 2013. The technical comments and CRA's responses are as follows:

- **Technical Comment 1a – SVE Installation** – *The Revised Drilling Scope of Work proposes the installation of two Soil Vapor Extraction (SVE) wells in the vicinity of the former dispenser islands as a result of elevated vapor concentrations in the vicinity. The SVE wells are proposed to be screened between 10 and 20 feet below grade surface (bgs). ACEH request that this screening interval be re-evaluated prior to well installation due to the detection of vapor concentrations of concern at shallower depth (7 feet bgs). ACEH's intent is to ensure that potentially shallow secondary sources (soil combination) be addressed and mitigated by the proposed installation of these two SVE wells.*

The SVE wells will be screened approximately from 7 to 17 feet bgs.

- **Technical Comment 1b – Conversion of Monitoring Well C-9** – *The referenced report proposes to convert 4-inch diameter groundwater monitoring well C-9 to a Dual Phase Extraction (DPE) well, and to additionally continue to monitor groundwater from the well. ACEH is not opposed to the conversion of the monitoring well to a DPE well; however, ACEH notes that future groundwater*

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sampling from the well will be biased low and may not represent groundwater concentrations beyond the zone of influence of the DPE well. This same rationale was used for the request for separate DPE wells in the source zone, rather than conversion of monitoring wells C-1, C-3 and C-6.

Please be aware that should this well be converted, additional time may be required in the Verification Monitoring phase of Corrective Actions to verify contaminant rebound conditions.

CRA understands that verification monitoring may take longer and will convert well C-9 to a DPE well.

Please provide your final approval of the RAP Addendum in order that we may move forward with submittal of the permit application. Please contact Judy Gilbert of CRA at (510) 420-3314, Bill Brasher of CRA at (916) 889-8903, or Eric Hetrick of Chevron at (925) 790-6491 if you have any questions or comments.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Judy A. Gilbert

Brandon S. Wilken, PG 7564



JG/mws/11

c.c.: Mr. Eric Hetrick, Chevron EMC (*electronic copy*)
Mr. Kevin Hinkley, Property Owner
Ms. Diane Riggs, Forest Creek Townhomes Association