

## Nowell, Keith, Env. Health

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**To:** Katherine.Brandt@arcadis-us.com  
**Cc:** TimBishop@chevron.com; Roe, Dilan, Env. Health  
**Subject:** Fuel Leak Cases RO450, former Unocal #0843

Dear Ms Brandt,

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Request for Groundwater Monitoring Reduction* dated December 29, 2013, which was prepared by ARCADIS U.S., Inc. (ARCADIS) for the subject site. ACEH is in general agreement with the reduction to the groundwater monitoring program, commencing in 2014, as outlined below:

1. ACEH requested Monitored Natural Attenuation (MNA) parameters be collected for a baseline groundwater evaluation prior to initiation of proposed ozone injection. As ozone injection is no longer considered as a remedial action at this site, ACEH agrees that MNA analysis can be discontinued.
2. ARCADIS is requesting discontinuance of sampling the shallow groundwater monitoring wells MW-1, MW-3, and MW-4. ACEH agrees with the discontinuance of sampling these three monitoring wells. However, ACEH notes that a nearby domestic well is situated approximately 550 feet down- to cross gradient from monitoring well MW-4. No construction details or status of the domestic well have been provided to ACEH. Therefore please provide documentation on the status of the well and, if appropriate, collect a groundwater sample to verify that there are no risks from petroleum hydrocarbons and methyl tertiary butyl ether (MTBE) exposure to receptors.
3. ACEH concurs with ARCADIS that semi-annual sampling of off-site monitoring wells MW-5 and MW-6 be continued to provide down gradient shallow groundwater plume delineation.
4. ACEH concurs with ARCADIS that semi-annual groundwater monitoring of the deeper zone be continued through the use of monitoring wells MW-1AR, MW-1BR, and MW-7, MW-8, MW-9, MW-10, and MW-11, as all deeper wells have at least one analyte concentration documented above the laboratory reporting limit within the last four consecutive quarters.

Please continue to determine the depth-to-water for all site monitoring wells and provide figures depicting the shallow groundwater flow direction in addition to the deeper zone. Should you have any questions regarding this correspondence or your case, please call me at (510) 567-6764 or send an electronic mail message at [keith.nowell@acgov.org](mailto:keith.nowell@acgov.org).

Respectfully,

Keith Nowell

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<http://www.acgov.org/aceh/lop/ust.htm>