

## Wickham, Jerry, Env. Health

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**From:** Wickham, Jerry, Env. Health  
**Sent:** Wednesday, July 18, 2012 9:16 AM  
**To:** 'Brian Gwinn'  
**Subject:** RE: RO 0003001, Terradev Jefferson LLC, 645 4th St., Oakland, CA

Brian,

Thank you for the update. Equilibration time is difficult to accurately estimate. Given the critical nature of the sub-slab measurements and the likely changes brought on by the DPE, we need to be conservative to assure equilibrium is re-established for data representativeness. Therefore, the sub-slab sampling should not be conducted until at least 60 days after the end of the DPE event. Therefore, the soonest the sub-slab sampling event should take place would be September 22.

Regards,  
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**From:** Brian Gwinn [<mailto:brian@bluerockenv.com>]  
**Sent:** Tuesday, July 17, 2012 2:56 PM  
**To:** Wickham, Jerry, Env. Health  
**Subject:** RO 0003001, Terradev Jefferson LLC, 645 4th St., Oakland, CA

Hi Jerry,

The HVDPE event is midway through the planned 15 day duration. The estimated gasoline recovery rate started around 30 lbs/day (based on lab data) and is currently about 14 lbs/day (based on filed PID data). Today's influent, as measured by the PID, was 520 ppmv. I think we will definitely complete the event before influent concentrations or removal rates decline to level that would warrant shutting it down. The scheduled end date is Tuesday, July 24<sup>th</sup> at 9 AM.

I don't know if you've had time to review the Sub-Slab Soil vapor Sampling Report we recently submitted, but the initial results suggest there is not a vapor intrusion (VI) risk. In that report, I recommended performing the second sampling in November to account for seasonal variability, as recommended by the DTSC guidance (however, the guidance document doesn't further expand on what that means exactly). The biggest seasonal variation we observe in the bay Area and Northern California typically manifests in fluctuating groundwater levels – i.e. high water levels in winter/spring and low water levels in the summer/fall. It is reasonable to assume that these fluctuations would affect the results of sub-slab sampling if the groundwater plume were in closer proximity to the slab at some times of the year versus others. However, this conditions does not appear to be present at this site. The water table below the site is typically about 8.6 to 9.3 feet below grade in DPE-1 and displays little to no seasonal fluctuation. After thinking about it some, I think it would be beneficial to perform the second sub-slab sampling event in the near future, so we can assess potential VI risk in a more timely manner. If this is acceptable with you, we could perform the sub-slab sampling event on Saturday August 4<sup>th</sup> or 11<sup>th</sup>, which would give the subsurface approximately 11 to 18 days to re-equilibrate from the HVDPE event.

Thanks in advance for your response.

Brian Gwinn, PG

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