RE: Former Beacon Station #574

22315 Redwood Rd., Castro Valley CA 94546

to dualit attacker wary Madhulla- Blease review attached RA - here are my Comments.

After an initial review of the RA presented on behalf of Ultramar, Inc., I have the following comments and questions:

- The site is currently under commercial use -- sounds like a mini-strip mall. The gasoline station has been removed. Adjoining properties include downgradient (southwest) residential development. The nearest water well is located 400 feet southeast.
- The following exposure pathways seem appropriate to evaluate for risk:

Commercial (on site)

-Indoor worker exposure to vapors from contamination to soil and groundwater

-Construction worker exposure to soil and groundwater contamination - Tien /

Residential (off site)

-Indoor residential exp. to vapors from groundwater contamination. (Note, however, that groundwater data to date indicates that groundwater off site has not been significantly impacted.)

The RA uses maximum benzene groundwater conc. as 3,200 ppb and max. benzene soil conc. as 0.73 ppm. These values may not be representative enough for this site. The highest benzene concentration in groundwater at the site in the last 4 quarters of sampling was 7,000 ppb and there is no evidence of attenuation occurring in groundwater. The RA used an average of soil conc. from samples collected during the installation of monitoring wells MW-1 through MW-4. The source area (tank pit) had much higher concentrations after overex. than the monitoring well boring samples; however, BTEX analyses were not performed on the confirmation samples -

Based on our conversation regarding this, I calculated the avg. percentage of benzene concentrations in the confirmation samples based on the initial samples collected from the tank pit. Therefore, the avg. . percentage of benzene per sample is 3.2% and the max. concentration of benzene left in the pit was - 63.7

bee my comments

Site-specific parameters for soil porosity, soil bulk density, moisture content, and foc were not used. Also, RA used default values for building volume. Is this appropriate/conservative enough?

Max. MTBE conc. on site is 1,400 ppb; downgradient off site MTBE conc. are in the 100 ppb range. 5) Since we know there is a water well, 400 feet away, should we consider delineating the MTBE plume? or calculating the delution factor

Although the RA proposed to evaluate the construction worker pathway and off site indoor residential exposure to vapors from contamination to soil and groundwater, I could not find the results of these assessments in the report. Can you find them, or are they missing?

My you need the file, it is on

Cimy

Amy, When work coloniation the percentage I did from fuct or inde Those of an the Jasaline banks sence they have both direct of gasoline banks on falls But 1989 ppm mappers to be gensoline according to the closure summary of am bringing the up because of of benevam dient took benemingosoane apper o 1/2. For go, they have to werege the local of quarters for all evels & althou average the average core from all Tacol Nort - 5138 pp delection durating location.

Beta Mw 7 - as po delection during August - 3550 1245 Men - 5700 pph 1/w-6 = 235, ppb Aucrege 2550 125 . or their care - Jure is no station 0.25 Soulderg. 1 in Mount Halteral 1700:125 3,400 1700:125-Avviage: HSJETZI bruch y price -Stores -(0.25) - MW-4. house

For house, they don't have any wells upgradied at a reasonable distance. Hence they should use come from Mo. 2 or calculate the simbler factor based on distance. For MW-2, the average is 3400 ppb.

So they have to evalvate the correct scenario, bused on the docation of the overage.

So they have to evalvate the conservative scenario buildings so the most conservative scenario will be evalvating indoor 3400 ppb bensene.

3. From what Kevin has fold me (maybe 1ts changed onow) any MTBLE above 200 ppb should be investigated. If they fues, then at-least they should evaluate the dilution factor.

4. The workshiet say Tiers - 6.2 + 6.3 
Must be Tier 2? Darkshiet 6.2 mentions

Soil volatalization to indoor our as 340ppb (10-5)

but five says(tiers I tave) - 5:37 × 10 sole what this

The against values assid one pretty

Conservative.

Construction workers.

6. In the RA, I think they compared the mast - 0.73 to 11 or 1 values. I they passed.

mast - 0.73 to 11 or 1 values. I they passed.

But they will not pass 63.7 ppm. - (calculated value for benzene). Since Giw up 22 them

contact with water during construction seems improbable.

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7. Their contahets 6.3, 46.2, should be redone. I am not owne why they keep choosing MCL Standards. Brown on see which on see which we have the plane own plane own

8. Also the worksheets do not include groundwater to indoor pathway for residential, even though this does not pass Ther! - I found it!

q. Based on my Review?

Vd. They have to use the new soil concentration. They could use an average, of they want (with 95% UCL).

P. D. They need to mention in coord heet if all or revised they are using 10-5 or 10 for commercial or Residential they could use offer of the day of the Detween 10-5-10. Was A (New 1) Should

All worksheets should be rei-doned all pathway's (not passed Tier 1) should be conluded in worksheet.

With the new boil conc, (63.7 ppm),
the construction gather for construction
workers may also have to be mended
in Tier 2.

المه كرا

VDE For G.W, they have to divide the site based on building clocations of then take averages (as I have shown). Why, if they use any sold concentrations? that. area. Ef this is right, they still for your son. future use. O tol Indon for for They have to Evalvate MTBBO. pot president do culculate dilution tactor modelo Their summary oneg 20 dows not make sometiment. ony serve. They have to re-do it is Lets tack about the or % from gasoline of duckt fink b. Cappails presidention or opposite 12. 1. Those property boundaries