

Wickham, Jerry, Env. Health

From: Jim Ho [jho@erscorp.us]
Sent: Wednesday, September 30, 2009 9:31 AM
To: Wickham, Jerry, Env. Health
Subject: regarding vapor wells for the Eagle Gas Station (4301 San Leandro Street, Oakland, RO096)
Attachments: vapor well diagram.pdf

Jerry:

How are you doing? I sent an e-mail on September 21, 2009 to let you know the schedule of installing DPE wells (for the Interim Remedial Action and Pilot Test) at the Eagle Gas Station. As I mentioned in my 9/21/09 e-mail, the proposed DPE wells will be installed on September 29, 30, October 1, 7, and 8. Clear Heart Drilling was on site around 7:30AM on September 29.

As you may know the site always has many people walking around looking for work/employers. I noticed that vapor well VP-6 located near to the east pump island is in bad shape. The lid of the well box is not only loose (without screw), the well box also stick above the ground due to sloppy well construction. People could kick around the lid for a while. This may pose an safety issue in case people trip. I also checked those three 1/4" Teflon tubing inside the box. Some are filled with dirt. I do not know the inside condition of the tubing. Since all vapor wells were primarily used to sample vapor in the vadose zone, the data had been presented by Clearwater.

Although I planned to use some of them as observation wells to measure the vacuum in the vadose zone for the DPE pilot test, based on the condition of the wells, I don't think they will be useful. Since these wells probe the vadose zone at 3, 6, and 8 feet bgs, they will be less indicative to determine the horizontal range of influence in the saturated shallow zone. In addition, since the top of screen for all the DPE wells will be at/below 8 feet bgs, clay uniformly exists in the depth interval between 0 and 5 feet bgs, and the ground is covered with asphalt/cement, the vertical leakage of vacuum will be minimal/insignificant during future vacuum extraction.

Based on the above conditions, I propose to abandon all vapor wells. You know the site has only limited space. Unfortunately, 23 groundwater monitoring wells have been installed on the property, in addition to 6 vapor wells. Thus, I will propose to abandon some of the monitoring wells in the future after the data of the Interim Remedial Action/Pilot Test are available. If you have any comments regarding the abandonment of vapor wells, please let me know as soon as possible. Thanks a lot.

Best regards,

Jim

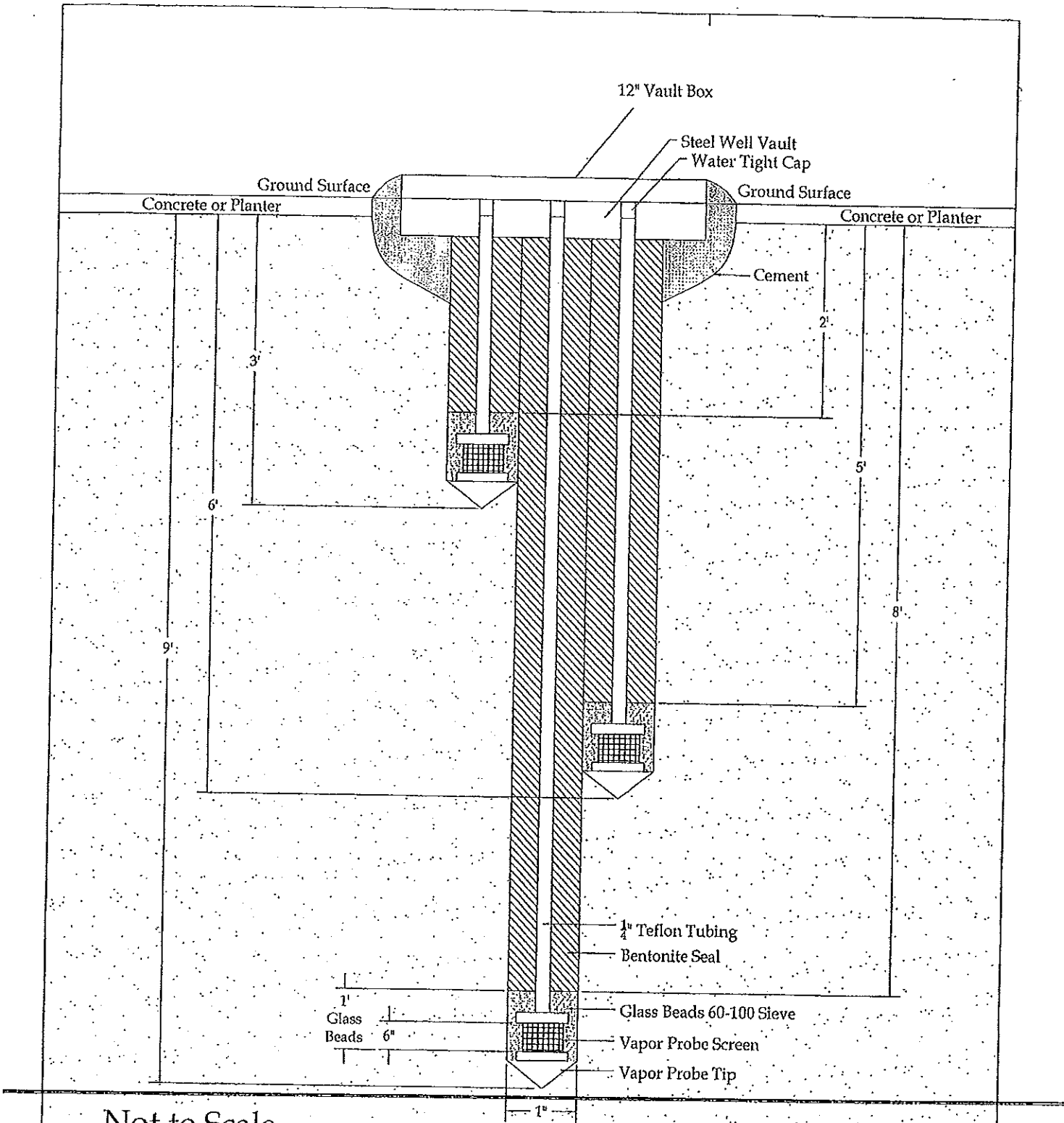
-----Original Message-----

From: Jim Ho [mailto:jho@erscorp.us]
Sent: Tuesday, September 29, 2009 2:43 PM
To: Tyson Fulmer
Subject: diagrams used to convince the regulator to abandon vapor wells

Tyson:

I hope this information helps. If we cannot abandon all of them, at least, we need to abandon VP-6. Thanks.

Jim



Not to Scale

Vapor Well Completion Diagram
 Vapor Wells VP-1 Through VP-6

Eagle Gas
 4301 San Leandro Street
 Oakland, California

CLEARWATER GROUP

Project No. ZF046D	Figure Date 11/07	Figure 15
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