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Young, John, NMENV

From: Don Hickmott [dhickmott@lanl.gov]

Sent: Thu 10/6/2005 8:02 AM

To: Young, John, NMENV

Cc: twhitacre@doeal.gov; meverett@lanl.gov

Subject: RE: CDV-2(i) update

Attachments:  FluidsforCdV16.xls(19KB)

John, Sorry about the delay in responding to your queries - I had to request some of the info from Kleinfelder.

At 10:07 AM 10/3/2005, you wrote:

Don,

Refresh my memory, in what unit and lithology is 2(i) constructed?

Upper Puye

How many gallons have been purged at this point?

11, 624 gal.

Which drilling additives were used in drilling and completing this well?

See attached from Kleinfelder

Is the pump you ordered for this well is variable speed or high flow?

Proposed pump description is provide here from Kleinfelder:

We ordered a 2 hp grundfos pump that is environmentally retrofitted from Geotech. The pump can be expected to pump up to 3.9 gpm (based on the head). Keep in mind that during the pump test, the pump rate slowed down to ~ 0.4 gpm after approximately 9-10 hours of pumping.

The pump has been ordered and Kleinfelder will install it the week of Oct.24.

Remember, the Order requires the use of a flow-through cell and NMED strongly recommends the use of a low-flow sampling method rather than high volume sampling rates (see NMED guidance document). If VOCs are a COC (and I believe they are) NMED requires the use of a low-flow sampling technique at 2(i).

I'm thinking that the pull rate on the pump can be ratcheted back to maintain low flow conditions - put I'm not sure. Perhaps Tom W. or Mark E. (who I'm copying on this e-mail) can confirm?

Given the slow recharge, it should be beneficial as well.

As noted above the pump rate was down well below 1 gpm during the lastet pumping exercise.

Let us know if you have any questions.



6571

LANL TA-16 [16-0216], 2G0 Outfall, Intermediate groundwater]

Again, sorry about the delay in response ... Don

john

From: Don Hickmott [mailto:dhickmott@lanl.gov]
Sent: Fri 9/30/2005 1:36 PM
To: Goering, Darlene, NMENV; Young, John, NMENV
Cc: twhitacre@doeal.gov; meverett@lanl.gov
Subject: CDV-2(i) update

John and Darlene, An update on the well development of CDV-2(i). After letting it sit and recover for a couple of weeks, Kleinfelder continued to pump on the well during mid September (pump test). The NTUs are still a bit on the high side 10-20 ish. Flow rates are still low, so there still is concern with draining the perched zone. On the plus side, the TOC looks very good (0.5) and the phosphate values are low (< .1 ppm) - suggesting minimal additives remaining (haven't seen acetone values yet). Kleinfelder has ordered the dedicated pump and will install it once it arrives. I'm thinking that if we think we need to get the NTUs down, we may be able to work on that in the future using the dedicated pump - perhaps the perched zone will 'recharge' in coming months. What do you think? Don

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CdV-16-2(I)r

**Table 3.0-2
Introduced and Recovered Fluids**

Material		Amount (gallons)
Introduced	QUIK-FOAM [®]	105
	Defoaming Agent	10
	Potable Water (air rotary drilling)	12,215
	EZ-MUD [®]	10
	Total Introduced Fluids ^a	12,340
Recovered	Total Recovered Fluids ^b	22,280

^a "Total Introduced Fluids" represents the fluids

^b "Total Recovered Fluids" represents the estimated

NOTE: Recovered fluids can only be filled in after development and aq. Testing.