TA-54

LANL MDA H/ CMS

David Cobrain

From: David Cobrain [david_cobrain@nmenv.state.nm.us]
Sent: Tuesday, December 21, 2004 11:31 AM
To: Gregory, David R.; Woody
Subject: FW: MDA H vapor monitoring and sampling

Woody/David,

I just responded to an email from John Hopkins that's included below. Just wanted to make sure you're in the loop.

Dave

-----Original Message-----
From: David Cobrain [mailto:david_cobrain@nmenv.state.nm.us]
Sent: Tuesday, December 21, 2004 11:27 AM
To: John K. Hopkins
Cc: KEN KISIEL; Neelam_Dhawan@nmenv.state.nm.us; John Young
Subject: RE: MDA H vapor monitoring and sampling

John,

The original email was meant to give you a preliminary idea of what the letter would contain. To answer your questions, the requirement for measurement of CO was not included in the monitoring request letter and the reference to moisture measurement was corrected. We weren't sure about the total depths of borings 54-1023 and 54-15462 so I included the total depth of each boring as a sampling point. If the total depth of those borings corresponds to the Cerro Toledo then you're covered if you collect a sample from the Cerro Toledo interval. Although it is not mentioned in the monitoring request letter, you may need to expand the vertical separation of your packers to cover the whole Cerro Toledo interval to prevent short-circuiting of the isolated interval during purging and sample collection. The monitoring request letter will likely be mailed today. Please call if you have questions after reviewing the sample request letter. Thanks.

Dave

> -----Original Message-----
> **From:** John K. Hopkins [mailto:johnhopkins@lanl.gov]
> **Sent:** Monday, December 20, 2004 4:39 PM
> **To:** david_cobrain@nmenv.state.nm.us
> **Subject:** FW: MDA H vapor monitoring and sampling
>
> **From:** John K. Hopkins [mailto:johnhopkins@lanl.gov]
> **Sent:** Monday, December 20, 2004 4:38 PM
> **To:** 'David Cobrain '
> **Cc:** 'Neelam_Dhawan@nmenv.state.nm.us'
> **Subject:** FW: MDA H vapor monitoring and sampling
>
> Dave
> I'd like to discuss the questions in blue with you.
> Thanks,

11866

John K. Hopkins
Los Alamos National Laboratory
Risk Reduction and Environmental Services-Remediation
505-667-9551

From: Ken Kisiel [mailto:Ken.Kisiel@apogentech.com]
Sent: Monday, December 20, 2004 4:11 PM
To: John K. Hopkins
Subject: RE: MDA H vapor monitoring and sampling

See questions in blue

MDA H vapor monitoring and sampling 12-04

Send an email that provides a description for accomplishing each of the following:

1. Determine the current depth of each borehole and identify whether any sloughing has occurred. If there has been sloughing, identify the composition of the slough.

2. Isolate the following zones in the existing boreholes for collection of vapor samples:
   a. Boring 54-15461 – the 3-foot interval directly below the surface completion, the 3-foot interval corresponding to the base of the shafts and the 3-foot interval at the base of the boring.
   b. Boring 54-15462 - the 3-foot interval directly below the surface completion, the 3-foot interval corresponding to the base of the shafts, the 3-foot intervals corresponding to depths of 100, 150 and 200 feet below the ground surface, the Cerro Toledo Interval and the 3-foot interval at the base of the boring (one in the same, base=257ft).
   c. Boring 54-1023 - the 3-foot interval directly below the surface completion, the 3-foot interval corresponding to the base of the shafts, the 3-foot intervals corresponding to depths of 100, 150 and 200 feet below the ground surface, the Cerro Toledo Interval and the 3-foot interval at the base of the boring (one in the same, base=258ft).

3. Purge each interval to ensure that formation air will be sampled.
4. Collect samples from each interval for field screening for VOCs using a PID equipped with a 11.7 eV lamp and for percent carbon dioxide, carbon monoxide (Not sure why carbon monoxide would be included, we have measured for methane because it is part of the sensor) and oxygen.
5. Collect vapor samples from each interval in SUMMA canisters for analysis of percent moisture (SUMMA canisters collect poregas so this does not make sense, do they mean neutron log for moisture content?), VOCs using EPA Method TO-14 or the updated equivalent method.
6. Collect vapor samples from each interval using silica gel cartridges in series for analysis of tritium using EPA Method 114 (NESHAP Part 61, Appendix B) or equivalent method.

Ken Kisiel
ph 505 662-0690
cell 505 695-9207

From: David Cobrain [mailto:david_cobrain@nmenv.state.nm.us]
Sent: Thursday, December 16, 2004 11:32 AM

To: Woody; John Hopkins
Cc: Gregory, David R.; Dave McInroy; John Young; John Kieling; Neelam_Dhawan@nmenv.state.nm.us
Subject: MDA H vapor monitoring and sampling

John/Woody,

The attached is preliminary notification of what we'll ask for in the letter requesting vapor monitoring and sampling at MDA H. Since we're behind on data collection here, assume that the monitoring will continue quarterly. The letter may include some additional requests if we think of other information that we'll need to write the statement of basis. This should get things started, we'll try to get a formal letter out this week or early next week. Please call if you have questions. Thanks.

Dave