

From: Cochran, John R [mailto:jrcochr@sandia.gov]
Sent: Tuesday, November 30, 2010 3:53 PM
To: Brandwein, Sid, NMENV; Moats, William, NMENV
Subject: RE: different soil vapor sampling system for TA-V vapor monitoring wells

Hi Will and Sid

also, this proposed system has been approved by NMED for use at White Sands and LANL

best
John

From: Cochran, John R
Sent: Tuesday, November 30, 2010 12:43 PM
To: 'Brandwein, Sid, NMENV'; 'Moats, William, NMENV'
Cc: Sanders, Mike R; Skelly, Michael F
Subject: RE: different soil vapor sampling system for TA-V vapor monitoring wells

Hi Will and Sid

I am writing to request that SNL be allowed to install a different type of soil vapor sampling system in the 3 soil vapor monitoring wells that will be installed at TA-V.

The reason for this request is that SNL can not acquire FLUTe sampling systems for the proposed wells, and the use of the alternative sampling system will allow SNL to begin installation of the vapor wells in the next few weeks. The alternative system described below will provide samples of soil vapor that will be just as representative at those samples that would have been collected using the FLUTe system. The alternative system is based on 12-inch long cylindrical stainless steel sampling screens attached to dedicated ¼" outside diameter stainless steel (ss) tubes. The ss screens will be very similar to the sample SS screen shared with Will on November 16th.

The alternative installation includes:

- Drilling a nominal 10.5-inch borehole to 505 ft deep using the ARCH method. The borehole will be stabilized using 9 5/8-inch temporary steel casing.

- Lowering a bundle of 10 pieces of ss tubing fitted with soil vapor screens to the required sampling depths (a sampling screen every 50 ft, from 50 to 500 ft bgs)
- Incrementally withdrawing the steel casing while embedding each sampling screen in the center of a 6-ft thick layer of 10/20 silica sand
- Separating each sand layer with a seal consisting of bentonite chips and cement grout
- Completing each well with a 2' x 2' vault that includes a heavy cast iron plate lid (all 3 drilling locations are in paved areas). The cast iron vault cover will be approximately 2 inches above grade
- Installing a 4' x 4' steel reinforced concrete pad around each vault, sloped to direct water away from the vaults.

Please let us know if this is an acceptable alternative method, and we will proceed with preparations to install these wells.

Best
John

John R Cochran
Environmental Restoration Project Manager
Organization 06234
Sandia National Laboratories
Albuquerque, NM 87185-0719
Telephone: 505.844.5256
Fax: 505.844.2829
Email: jrcochr@sandia.gov

From: Cochran, John R
Sent: Friday, October 08, 2010 2:25 PM
To: Cochran, John R; 'Brandwein, Sid, NMENV'; 'Moats, William, NMENV'
Cc: Sanders, Mike R; Skelly, Michael F; Miller, David R
Subject: RE: TA-V drilling

Will and Sid,

oops - I am writing to notify you that SNL intends to start drilling at TA-V around October 20th.

best
John

From: Cochran, John R
Sent: Friday, October 08, 2010 2:23 PM
To: 'Brandwein, Sid, NMENV'; 'Moats, William, NMENV'
Cc: Sanders, Mike R; Skelly, Michael F; Miller, David R
Subject: RE: TA-V drilling

Hi Will and Sid ,

I am writing to notify you that SNL intends to start drilling at TA-V around November 20th. This change in strategy is trigger, in part by our concerned that we will not have access to a drilling rig after KAFB begins their next drilling program.

best
John