

TA-03

Young, John, NMENV

From: Mark Everett [meverett@lanl.gov]
Sent: Wednesday, November 01, 2006 4:20 PM
To: Young, John, NMENV
Subject: RE: Proposed fix for Cr IM well SCI-1 / SCC-1



TA-03 [In for Chromium, Sandia Canyon, TA-53]

Thank you, John. We will keep you posted with our progress.

Mark Everett, PG
Drilling Project Lead
EP-WSP
LANL
(505) 667-5931 (o)
(505) 231-6002 (c)

From: Young, John, NMENV [mailto:john.young@state.nm.us]
Sent: Wednesday, November 01, 2006 3:49 PM
To: Mark Everett; Cobrain, Dave, NMENV
Cc: katzman@lanl.gov; Jean M. Dewart; Shen, Hai, NMENV; Dale, Michael
Subject: RE: Proposed fix for Cr IM well SCI-1

Mark,

Go ahead with the approach; however, LANS-DOE should note if this fix doesn't work or the well is damaged in anyway based on video logging, geophysical logging or subsequent geochemical/other evidence, NMED may require P&A and a replacement well be installed.

Let me know if you have any questions.

john

From: Mark Everett [mailto:meverett@lanl.gov]
Sent: Wednesday, November 01, 2006 10:44 AM
To: Young, John, NMENV; Cobrain, Dave, NMENV
Cc: katzman@lanl.gov; 'Jean M. Dewart'; Shen, Hai, NMENV; Dale, Michael
Subject: RE: Proposed fix for Cr IM well SCI-1

John,

The Subcontractor says that they have set plugs like this successfully. They propose that we go ahead with setting the plug and run a video afterwards. If the screen/casing is damaged or the plug gets stuck, they will replace the well. If this approach is acceptable, please respond to this e-mail with your concurrence.

Thanks,

Mark Everett, PG
Drilling Project Lead
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(505) 667-5931 (o)
(505) 231-6002 (c)

From: Young, John, NMENV [mailto:john.young@state.nm.us]
Sent: Wednesday, November 01, 2006 10:06 AM
To: Mark Everett; Cobrain, Dave, NMENV
Cc: katzman@lanl.gov; Jean M. Dewart; Shen, Hai, NMENV; Michael Dale
Subject: RE: Proposed fix for Cr IM well SCI-1



5833

Gentlefolks-

Right now our main concern is that the plug may get wedged prior to total depth and/or end up damaging the casing/screen on the way down. How will you address these concerns? Are there other options available?

Let us know.

john

From: Mark Everett [mailto:meverett@lanl.gov]
Sent: Wednesday, November 01, 2006 8:35 AM
To: Young, John, NMENV; Cobrain, Dave, NMENV
Cc: katzman@lanl.gov; 'Jean M. Dewart'
Subject: Proposed fix for Cr IM well SCI-1

John,

Here is the information regarding LANL's proposed fix for intermediate well SCI-1 in Sandia Canyon. Well SCI-1 was completed as an intermediate depth monitoring well in support of LANL's Chromium Interim Measures investigation. Total depth of the well is 378.5 ft and the well is screened from 358.4 ft to 377.83 ft. During construction or development, the bottom end cap became dislodged or was broken allowing annular filter pack to enter the well. Approximately 1.5 cubic feet (11 gallons) of sand were bailed out of the well. In an attempt to determine if this caused significant shifting of the filter pack and overlying bentonite seal, a gamma log and video survey were conducted. The attached natural gamma logs (SCC1GRUP102506.xls) shows a sharp transition in the gamma signature at the original depth of emplacement for these materials. The video log showed clear water through the screened interval. We interpret these data to indicate that little to no shift in the materials has occurred. To address the end-cap issue, LANL proposes to use a PVC plug which would be set at the bottom of the casing. The plug is composed of solid PVC bar stock (<http://www.sdplastics.com/pvcrod.html>) lathed down to fit inside the existing well. The attached diagram (Well Proposed.pdf) shows the well and proposed plug dimensions. The plug would be introduced into the well and pushed down with small diameter pipe. The plug is expected to wedge in place. After emplacement of the plug, the well will be developed using standard practices.

Please contact me with any additional questions or comments. Once you have reviewed these data and if you agree, please respond to this e-mail with your concurrence.

Thank you,

Mark Everett, PG
Drilling Project Lead
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11/1/2006