



KAFB-BFFS
ST-106/SS-111
Data Gap Drilling in Source Area
NMED Scope for wells in Source Area

From: KOTTKAMP, SHEEN T GS-13 USAF AFCEC AFCEC/CZOW
To: Cobrain, Dave, NMENV
Cc: Pierard, Kevin, NMENV; Murphy, Robert, NMENV; Andress, Lane, NMENV; Wear, Benjamin, NMENV
Subject: [EXT] RE: data gap well installation scope
Date: Tuesday, June 2, 2020 8:54:29 AM

Thank you Dave. Sheen

From: Cobrain, Dave, NMENV <dave.cobrain@state.nm.us>
Sent: Monday, June 1, 2020 5:25 PM
To: KOTTKAMP, SHEEN T GS-13 USAF AFCEC AFCEC/CZOW <sheen.kottkamp.1@us.af.mil>; LYNNES, KATHRYN D HQE USAF AFGSC 377 MSG/SAF/IEE <kathryn.lynnes@us.af.mil>
Cc: Pierard, Kevin, NMENV <Kevin.Pierard@state.nm.us>; Murphy, Robert, NMENV <Robert.Murphy@state.nm.us>; Andress, Lane, NMENV <Lane.Andress@state.nm.us>; Wear, Benjamin, NMENV <Benjamin.Wear@state.nm.us>
Subject: [Non-DoD Source] data gap well installation scope

Sheen/Kate,

The scope below should help you evaluate any contract adjustments or issues. Please distribute to the appropriate people. We've modified the requirements for sampling from the previous coring conducted over the past couple of years to focus on what we need to meet the objective for the one or maybe two borings at the location we discussed. The other well installations will remain as proposed in the work plan as contract limitations based on the changes may allow. Please get back to us next week on a timeframe for the field work and for providing replacement pages for the work plan. Please call if you want to discuss this further.

Thanks.

Dave

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- Drill one borehole closer to source area with potential for a second if the objective is not achieved with first borehole
 - If second borehole is necessary due to encountering clay at approximately 300 feet bgs, complete the first borehole as a SVMW at the depth of the clay
- Drill at the migration pathway location with ARCH or sonic rig to 230 feet bgs. Drill the other wells with ARCH as proposed in the work plan to TD.
- Drill with sonic rig in order to collect continuous core from depth of 230 feet bgs to TD at the migration pathway location.

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- Cool core barrel when collecting continuous core
- Field screening
 - Log cuttings and collect PID readings every 20 feet from ground surface to 230 feet bgs
 - Log core and collect samples for lab analysis and PID readings every 5 feet from 230 feet bgs to TD
- Lab samples
 - Collect samples for lab analyses every 5 feet from 230 feet bgs to TD; TPH GRO and DRO extended
- GWMW's must be designed to allow for active sampling methods rather than passive sampling