

ENTERED

Frischkorn, Cheryl, NMENV

From: Blough, Kelly T. [kelly.blough@us.army.mil]
Sent: Wednesday, September 05, 2007 12:44 PM
To: Frischkorn, Cheryl, NMENV; Cobrain, Dave, NMENV
Cc: Baca, Ronald H. (Contractor); Smith, Richard P SWT; Carroll, Jeanne M SWT; Johnson, Russ (ATX)
Subject: RE: Preliminary draft drilling log for Myer Pond monitoring well

Cheryl:

Thank you for the quick response. We are preparing the log and construction details and will provide to you before beginning well installation.

Kelly

-----Original Message-----

From: Frischkorn, Cheryl, NMENV [mailto:cheryl.frischkorn@state.nm.us]
Sent: Wednesday, September 05, 2007 12:24 PM
To: Blough, Kelly T.; Cobrain, Dave, NMENV
Cc: Baca, Ronald H. (Contractor); Smith, Richard P SWT; Carroll, Jeanne M SWT; Johnson, Russ (ATX)
Subject: RE: Preliminary draft drilling log for Myer Pond monitoring well

Kelly:

Based on our telephone conversation (9/4/07) and the preliminary lithologic log you sent, NMED would like to see a well constructed with a twenty foot screened interval from 340 to 360 bgs, and a five foot sump below the screen. We expect that the boring below 365 feet bgs will be either grouted or filled with bentonite (hydrated). Please send us proposed well construction details prior to beginning the installation of the well and also notify us if there are any revisions to the draft lithologic log, which may affect the placement of the well screen.

Thanks, Cheryl

Cheryl Frischkorn
 Geologist/Environmental Scientist-Specialist HWB-RCRA Permits Management Program
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-----Original Message-----

From: Blough, Kelly T. [mailto:kelly.blough@us.army.mil]
Sent: Wednesday, September 05, 2007 9:01 AM
To: Frischkorn, Cheryl, NMENV; Cobrain, Dave, NMENV
Cc: Baca, Ronald H. (Contractor); 'Smith, Richard P SWT'; Carroll, Jeanne M SWT; 'Johnson, Russ (ATX)'
Subject: Preliminary draft drilling log for Myer Pond monitoring well

Good Morning:

Attached is the field data as we discussed yesterday. Let me know via e-mail how you would like us to proceed or if you would like us to set up a conference call later today to discuss it further. Thanks.

Kelly Blough
Directorate of Environment
Fort Bliss, TX 79916
(915) 568-0794

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Meyer Pond Monitor Well (SWMU 76)

PRELIMINARY DRAFT SUMMARY LITHOLOGIC LOG SUBJECT TO REVISION

Drilled by mud rotary w/ periodic pitcher barrel cores collected, TD = 500' bgs

Depth Interval	Description
0	31.5 Unconsolidated Alluvium, poorly sorted, subround to subangular silts, sands, and gravels, minor caliche near surface
31.5	50 Silty Clay, brown, increasing stiffness with depth, plastic, trace sand
50	55 Sandy Gravel w/ Silt, poorly to moderately sorted, subround, weakly consolidated
55	60 Clayey Sand and Gravel, increase in clay from above, weakly consolidated
60	75 Sandy Clay
75	115 Silty Clay w/ very fine Sand, clay stiffness from soft to medium stiff over interval, light brown to brown coloration, variable plasticity
115	120 Clay with Silt and Sand, reddish brown, poorly sorted, clay is medium stiff, plastic
120	135 Sandy Silt, decrease in clays, coloration change to medium brown
135	205 Silty Clay, variable stiffness (soft to medium stiff) and color (light brown to reddish brown) over interval
205	220 Sandy Silt, sand generally fine, but minor larger grains also present, weakly consolidated
220	240 Silty Clay, decrease in sands, only minor very fine sands present, clay is medium stiff, core collected 231.5 to 233.5 (moist clay)
240	270 Clayey Silt, increased consolidation from above, reddish brown
270	290 Silty Clay, stiff to medium stiff, medium brown, balls easily, plastic
290	295 Clayey Silt, increase in overall grain size, weakly to moderately consolidated siltstone
295	300 Silty Clay, decrease in overall grain size
300	305 Clayey Silt, increase in overall grain size
305	310 Silty Clay, decrease in overall grain size
310	335 Clayey Silt, brown, very fine sand increasing with depth (up to 10%), weakly consolidated
335	340 Silty Clay, decrease in sand content from above
340	343 Clayey Silt, moderately consolidated, poorly sorted, interbedded brown clays (0.1 cm thick) and medium gray silts (1.0 cm thick), dry
343	344.4 Silty Clay, reddish brown, stiff, moist
344.4	346 Sandy Silt, gray, very weakly consolidated, moist
346	347.5 Silty Clay, dark brown, very stiff, moist, minor light green mineral deposits visible (soft, dull luster, no structure visible, possibly chloritic)
347.5	352 Clayey Silt, light brown to medium gray over interval, moist
352	354 Silty Clay, less clay toward bottom of core, medium gray, very minor chloritic deposits, moist
354	356 Unknown, no recovery, trace calcified gravels (~0.5 cm) identified when reamed with tricone, moist
356	358 Silt with Sand, only minor clay present, bottom 0.75' of core lost, moist, not dilatent* → ~1 ft thick wet zone, permeable?
358	366 Clay, dark brown, very stiff, plastic, moist to slightly moist throughout
366	390 Silty Clay, variable stiffness (soft to medium stiff) and color (gray to tan / light brown) over interval
390	400 Clayey Silt, increase in silts from above, brown
400	430 Silty Clay, dark brown, very stiff, plastic; cored sample at 400 to 402' is moist, minor amounts of slightly moist white-gray calcite present
430	443.5 Silt with Clay, purplish brown, well consolidated (siltstone)
443.5	450 Silt with Clay, significant color change to medium gray, much less consolidated than above
450	452 Silt and Sand, very fine sand, well sorted, subround, medium gray, unconsolidated, moist, rapid dilatency (pitcher barrel sample)*
452	454.5 Silt and Sand, same as above
454.5	465 Silty Clay with Sand, light brown, poorly sorted, medium stiffness
465	498 Clayey Silt, dark brown, well consolidated, stiff trace very fine sands, high clay content
498	500 Silty Clay, dark brown, very stiff, plastic, moist (core sample)

~2.5 ft thick wet zone
not dilatent