Appendix A

Site Supervisor Field Notes
<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Project / Client</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/28/12</td>
<td>NFSS</td>
<td>NFSS-BOP Field Investigation</td>
<td></td>
</tr>
<tr>
<td>11/29/12</td>
<td>NFSS</td>
<td>NFSS-BOP Field Investigation</td>
<td></td>
</tr>
</tbody>
</table>

**MOBILIZATION ACTIVITIES**

See notebook for details.

**0700 A.M. ARRIVE ON SITE.**

**TWO** WHEELED FOR DAY

**PERFORMING GEOLOGY ON SOUTH 50**

**CORNER OF NORTH 10W OCS AREA.**

**WORKS WITH [REDACTED] TO PERFORM GAMMA SCANS OF**

**REMAINING AREAS.**

**SCANS WERE #95, 958, 949, 945, 946, 942, 948, 949, 947.**

**DISCUSS UTILITY LOCATIONS WITH [REDACTED], SOME WERE**

**LOCATIONS ARE CLOSE TO UNDERLIES AND THAT WAS [REDACTED].**
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:00</td>
<td>URS onsite</td>
</tr>
<tr>
<td>07:15</td>
<td>TR 30's clear, heavy</td>
</tr>
<tr>
<td>08:25</td>
<td>HR onsite</td>
</tr>
<tr>
<td></td>
<td>GEOPHYSICS @ PE-2, PE-3 this morning</td>
</tr>
<tr>
<td></td>
<td>Tables: will scan south east side of tank</td>
</tr>
<tr>
<td></td>
<td>Writer person will assist w/ @ m041 location and m047 location</td>
</tr>
<tr>
<td></td>
<td>Colors won't arrive till afternoon</td>
</tr>
<tr>
<td>10:42</td>
<td>Wastewater and</td>
</tr>
<tr>
<td></td>
<td>show then markups @ PE-1 plan to do</td>
</tr>
<tr>
<td></td>
<td>PE-1 where: picked @ site work</td>
</tr>
<tr>
<td></td>
<td>go to m041 location. located mobile. now that brush is cleared.</td>
</tr>
<tr>
<td>12:45</td>
<td>Depart site.</td>
</tr>
<tr>
<td></td>
<td>Working @ m0946 location.</td>
</tr>
<tr>
<td></td>
<td>Will clear both potential locations</td>
</tr>
<tr>
<td></td>
<td>m0946A as stake at initial site Van A.</td>
</tr>
<tr>
<td></td>
<td>and m0946 @ cords for 94B as</td>
</tr>
<tr>
<td></td>
<td>Staked w/ on 946A on Monday.</td>
</tr>
<tr>
<td></td>
<td>Most likely location is 946B / former 808 location.</td>
</tr>
<tr>
<td></td>
<td>808 (cord)</td>
</tr>
<tr>
<td>13:50</td>
<td>PE-1 gamma mark of</td>
</tr>
<tr>
<td>15:30</td>
<td>Test @ cords for 946 @ cords</td>
</tr>
<tr>
<td></td>
<td>Sample Bottles</td>
</tr>
<tr>
<td>15:45</td>
<td>Start scanning colors</td>
</tr>
<tr>
<td>16:50</td>
<td>Stop scanning 1/2 of color's scanned</td>
</tr>
<tr>
<td></td>
<td>Finished up</td>
</tr>
<tr>
<td>17:30</td>
<td>Everyone departs site.</td>
</tr>
<tr>
<td>Time</td>
<td>Activity</td>
</tr>
<tr>
<td>-------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>0700</td>
<td>Onsite</td>
</tr>
<tr>
<td></td>
<td>(Locations and dates are redacted)</td>
</tr>
<tr>
<td>0730</td>
<td>Onsite</td>
</tr>
<tr>
<td></td>
<td>Does safety briefing.</td>
</tr>
<tr>
<td></td>
<td>By beginning unloading/walking equipment and setting up decompression.</td>
</tr>
<tr>
<td></td>
<td>HS of scanning all BLP equipment.</td>
</tr>
<tr>
<td>1200</td>
<td>BL personnel leaves for lunch.</td>
</tr>
<tr>
<td></td>
<td>~1300 BL back from lunch.</td>
</tr>
<tr>
<td></td>
<td>Mobile equipment to M951 location and staging area.</td>
</tr>
<tr>
<td>1345</td>
<td>Start hand auguring M951</td>
</tr>
<tr>
<td>1425</td>
<td>Start sonic drilling</td>
</tr>
<tr>
<td>1530</td>
<td>Start Dornbos’ scan</td>
</tr>
<tr>
<td>1620</td>
<td>Finish down-hole scan</td>
</tr>
<tr>
<td>1640</td>
<td>Sampled M951 SS 0.0 - 0.5 - 0001 for gamma, 3D, 3G, and the metals</td>
</tr>
<tr>
<td></td>
<td>TOTAL 1</td>
</tr>
<tr>
<td>1620</td>
<td>M951 BS 15.0 - 15.5 - 0002</td>
</tr>
<tr>
<td>1635</td>
<td>M951 BS 12.5 - 18.0 - 0003</td>
</tr>
<tr>
<td>1640</td>
<td>M951 BS 8.5 - 9.0 - 0001</td>
</tr>
<tr>
<td>1700</td>
<td>Set casing back in hole</td>
</tr>
</tbody>
</table>
10

Location  | NFSS
--|--
Project / Client  | NFSS - BOP FIELD INVESTIGATION

11

Location  | NFSS
--|--
Project / Client  | NFSS - BOP FIELD INVESTIGATION

1700-1715 - BLY cleans up, stages pipe, decom, departs site.
1715-1740 - BLY e-clothes and paperwork, departs site.

0700 - [redacted] onsite.
0705 - [redacted] onsite.
0710 - Clear, go to 70° F.
0730 - BLY onsite.

[redacted] meeting.
BLY sets up support for well construction at NW0951.

Discuss well construction:
- BLY says water tanks will be staged.
- Water cable typically on 15 feet.
- BLY believes some will not be able to stabilize
- It will not be able to stabilize the water that shallow (ie 2-3' bgs)
- It will mimic temporary well point 831
- Well went to 20', constant well
- Well 831 went 10-20', 2' sand and screen.

830 - BLY begins cleaning debris to set well
- Set well to 20' screen 20-10 to 3 and 6
- 7'10" bgs, drop to 3' bgs
- Restoring waterline 831 construction.
- When 833 was actually removed, start of.
- My head to BLY whiners bong to more accurately mimic 833.
9:30 - Start hand clearing MW 980.
10:00 - Hand clearing completed.
10:01 - Sampled MW 980 for red mud and slurry.
- Drilled first casing, 20', and installed 4" PVC.
- Drilled back for 1" inch cherry screen.
12:00 - Downline gamma logging complete.
12:25 - MW 980 SB 12.5 - 11.0 - 0008
12:20 - MW 980 SB 12.5 - 2.5 - 0008
12:28 - MW 980 SB 15.0 - 15.5 - 0008
12:35 - MW 980 SB 10.5 - 11.0 - 0001
- BLY goes to Deco.
- VES Breaks for each.
13:15 - BLY - Returns to well location to set up.
- MW 960
14:00 - Start hand augering MW 960.
- First return @ 3.5', then 20', then 21.5'.
- Use 6' casing to Grade 3.5 - 5.0.
- SV 2665 TO 15'
14:20 - Set 4' casing to 15'.
15:00 - MW 960 SB 2.0 - 3.0 - 0010
15:15 - MW 960 SB 2.0 - 3.0 - 0010
16:00 - MW 960 SB 9.5 - 10.0 - 0011
16:45 - MW 960 SB 12.0 - 12.5 - 0012
- BL - Set well MW 960 to 15' - 2" MVC, 10' screen.
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0700</td>
<td>Get CEM</td>
<td></td>
</tr>
<tr>
<td>0730</td>
<td>Onsite</td>
<td></td>
</tr>
<tr>
<td>0800-0830</td>
<td>BLY Decoy Pipe.</td>
<td></td>
</tr>
<tr>
<td>0845</td>
<td>Get parking cooler for lab pickup</td>
<td></td>
</tr>
<tr>
<td>0910</td>
<td>Start hand auger, first 5'</td>
<td></td>
</tr>
<tr>
<td>0945</td>
<td>Called, MW 956, 15.5-16.0-0013</td>
<td></td>
</tr>
<tr>
<td>0950</td>
<td>BLY starts using rig to terminate collected samples</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Scan cores</td>
<td></td>
</tr>
<tr>
<td>1055</td>
<td>Stop Downhole Scan</td>
<td></td>
</tr>
<tr>
<td>1135</td>
<td>Sample, MW 956 SB 8.0-8.5 - 0014</td>
<td></td>
</tr>
<tr>
<td>1140</td>
<td>Sample, MW 956 SB 13.0-13.5 - 0015 (wet spot)</td>
<td></td>
</tr>
<tr>
<td>1145</td>
<td>Sample, MW 956 SB 14.0-14.5 - 0016</td>
<td>Core high</td>
</tr>
<tr>
<td></td>
<td>MO + setup @ MW 956</td>
<td></td>
</tr>
<tr>
<td>1255</td>
<td>MO on CEM</td>
<td></td>
</tr>
<tr>
<td>1315</td>
<td>Start MWO cleanup MW 956</td>
<td></td>
</tr>
<tr>
<td>1330</td>
<td>Take photo ~ 30' rod of well head facing SE</td>
<td></td>
</tr>
<tr>
<td>1350</td>
<td>Move rig onto hole surface, sonic sampling</td>
<td></td>
</tr>
<tr>
<td>1355</td>
<td>Sample, MW 956 SB 0.0-0.5 - 0017</td>
<td></td>
</tr>
</tbody>
</table>
Location: NPS 5  Date: 1/13/12
Project / Client: NPS BOP FLD INVT  

0700 [unreadable] on site

0710 [unreadable] on site Perform daily calibrations

- MW 957 + Setup

HAND CLEAN TO 5'

Some to 15', stop @ 15', in Gray Clay

Lyser on site, do not mix

Screws shallow gray clay to avoid possible

wells & to solid inlet for SW sample

Above gray clay & Brown till 2005

And to sed sed. up top well it advanced
to depth for sampling. 930 - Set off MW 957550.05-05

Gamma Scan Downhole - Scan1025

1035 sample - MW 957582.0-25-022
1040 MW 957584.0-45-0025
1045 MW 957587.0-75-0025

- pick up Mo8 to MW 958

1125 START HAND CLEAN

1155 - [unreadable] break for lunch

1255 - BY returns

1310 - Sampling 5-10

- store 10' - into deep gray clay

Scan cores + Down hole

1950 Sample - MW 958 SS 0.0-0.5-0025

- 1935 MW 958584.5-0.5-0025

1440 MW 958587.5-8.0-0027

1445 MW 958587.5-9.0-0028

BLY goes to Decal

MW 9 to MW 946

1600 START HAND AUGERING

1635 END HAND AUGER REFLAS @ 4'

1640 - Sample 0-0.5

MW 946 SS 0.0-0.5-0029

For sea u, cam quv 5 quv 1.44 th the field

Clean up -

1700 Boat long ser ge 3.50

URS does end of dat 14/41  

1750 - [unreadable] dinner

End
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0700</td>
<td>URS WAT</td>
</tr>
<tr>
<td></td>
<td>Setup last several days of samples for container pick up.</td>
</tr>
<tr>
<td>0755</td>
<td>Collect EBI-11/12 - Rinse tank over sampling bowl + spoons.</td>
</tr>
<tr>
<td></td>
<td>BLY - Advanced samples to 15' @ mw 947</td>
</tr>
<tr>
<td></td>
<td>Top gray clay @ 12'</td>
</tr>
<tr>
<td></td>
<td>(USRCE) Spork &amp; spoon</td>
</tr>
<tr>
<td></td>
<td>Want 2' of screen 0.5' into gray clay, so will set to 12.5'.</td>
</tr>
<tr>
<td></td>
<td>Collect samples for gamma spec. Iso U, Iso Th.</td>
</tr>
<tr>
<td></td>
<td>The metal, TOTAL UI</td>
</tr>
<tr>
<td>1120</td>
<td>mw 946SB 6.0 - 6.5 0030</td>
</tr>
<tr>
<td>1125</td>
<td>mw 946SB 6.0 - 8.5 0031</td>
</tr>
<tr>
<td>1130</td>
<td>mw 946SB 12.0 - 12.5 0032</td>
</tr>
<tr>
<td>1200</td>
<td>MW947@2 Roped to mw947</td>
</tr>
<tr>
<td></td>
<td>BLY breaks for lunch</td>
</tr>
<tr>
<td>1345</td>
<td>Start Hand Roping at mw 947</td>
</tr>
<tr>
<td></td>
<td>Onsite to observe</td>
</tr>
<tr>
<td>1355</td>
<td>Collect gray tank over U2 1/2 core pipe.</td>
</tr>
<tr>
<td></td>
<td>U2B-11/12, for</td>
</tr>
<tr>
<td></td>
<td>Gamma spec, Iso U, Iso Th, Total metals, Total UI, TEC, VCS.</td>
</tr>
<tr>
<td>1420</td>
<td>Collected surface soil</td>
</tr>
<tr>
<td></td>
<td>mw 9475SB 0.0 - 0.5 0033</td>
</tr>
</tbody>
</table>

Perform backhoe & core saws - USACE onsite collecting more samples & conventional samples from each interval.
Clean up & Depart EBI site.
1750 - URS OFF SITE.
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0700</td>
<td>Start sampling at MW 949</td>
</tr>
<tr>
<td></td>
<td>Select samples MW 949,550.00-0.5-0037</td>
</tr>
<tr>
<td></td>
<td>MW 949,550.00-0.5-0515-9006</td>
</tr>
<tr>
<td></td>
<td>MW 949,550.00-0.5-0515-9007</td>
</tr>
<tr>
<td></td>
<td>Sampled to 11', 8'/4' Temp PVC.</td>
</tr>
<tr>
<td></td>
<td>Scan Core, scan Perim hole, No elevated</td>
</tr>
<tr>
<td></td>
<td>P12 readings to using had to pick sample intervals</td>
</tr>
<tr>
<td></td>
<td>Use Air Taping Encon + conventional PVC.</td>
</tr>
<tr>
<td></td>
<td>Samples every 2'.</td>
</tr>
<tr>
<td>1300</td>
<td>200m3 hole Seems few sins complete</td>
</tr>
<tr>
<td></td>
<td>Dugged highest interval until hole is complete</td>
</tr>
<tr>
<td></td>
<td>Recorded area to developer/light MW 950/951</td>
</tr>
<tr>
<td>1325</td>
<td>Oversight</td>
</tr>
<tr>
<td></td>
<td>Drivers return from lunch.</td>
</tr>
<tr>
<td></td>
<td>Set up to advance casing (12&quot;)</td>
</tr>
<tr>
<td>1445</td>
<td>Changed chuck for larger (15&quot;)</td>
</tr>
<tr>
<td></td>
<td>casing. Begin advancing larger casing to 16&quot;</td>
</tr>
<tr>
<td>1455</td>
<td>Check out larger casing 1/10 casing</td>
</tr>
<tr>
<td></td>
<td>Finish cleaning out larger casing</td>
</tr>
<tr>
<td>1550</td>
<td>Begin installing permanent casing (6&quot;)</td>
</tr>
<tr>
<td></td>
<td>Pipe in 17'. Dudley drop off crew.</td>
</tr>
<tr>
<td></td>
<td>Plan is to grout in 2pm.</td>
</tr>
</tbody>
</table>

(1700) BOACT OFFSITE

Samples GW @ MW 950/951

1638 Sampled MW 951 GW 9901-0038 (unfiltered)
MW 951 GW 9901-0038 (filtered)
1650 Sampled MW 950 GW 9901-0039 (unfiltered)
MW 950 GW 9901-0039 (filtered)

End of Day Framework
1705-FOART 512. R. Mcnair box to FedEx.
1840 Drop GW Sample to FedEx
EOD 6/28/12
Location: NFSS  Date: 11/16/12

Project / Client: NFSS BOP FIELD INVESTIGATION

0700 - URS meeting.
- MORNING PAPER WORK & HES BRIEFINGS

0730 - Meet LONGEYEN ENGINEER.
- BOART NQ/SB to MW948 to Coats Casing in place.

0830 - Pulling 12" casing.
- 1425 25 quart, 5 bags type I/II, Bead Gravel
- 47 1/2 bags
- Take 12" pipe to Deco.
- Swab out Janzon Trap Table.

0930 - Begin Sampling MW948
- While core, taking samples every 2'.
- After sampling to 15', board core up.
- Goes to first swab installed & dig out processing pads - and load 12" + 10" pipe for debris from site. Soil may be removed tomorrow.

1125 - Sample MW948 SS 0.0-0.5 - 0040
1135 - MW948 SB 0.5-6.5 - 0044
1145 - MW948 SB 16.0-10.5 - 0042
1155 - MW948 SB 13.0-13.5 - 0043

Plus duplicate MW948 SB 13.0-13.5 - 9008

1330 - Meet LONGEYEN - will dig our remaining well.
- Pops + 7 ft. processings - & finish well.
- Not surface soil contaminated.

DEALS PUE E CHARGE BURIED LANDFILL AREA.
- On concrete pad, after getting OK from.

~1400 - To drain soil from wells.
- From now on,
- 1535-1545 - Checkman crews.
- Then go to core box to pack yesterday's today's samples.

BOART LONGEYEN does surface conditions
- MW950, MW952, MW951, MW960, MW969
- MW957, MW958, MW946

1740 - URS DEHORS SITE
0705 - URS on site
- Morning, Paper work, H&S meeting

0730 - URS on site

0745 - Drillers advance to 70' @ MW 949
- Down Core samples

1100 - MW 949 SB 16.0-16.5 - 0044
1115 - MW 949 SB 29.5-30.0 - 0045
1130 - MW 949 SB 34.5-35.0 - 0046

1140 - Drillers - Pull 4" PVC - then clean out hole to 40'

1210 - Break for lunch, Load up well supplies

1400 - Cleaning out hole to 50' well

1430 - Well set to 40', 10' Screen

1445 - Take screen benentite chipto

1500 - BHP, UDECON'S + Works on well

1530 - Load pads + Move rig in for MW 949/400

1630 - DEPART SITE
1530 MW 944 SB 13.0-13.5 - 0054
- Drillers setting Ballards + Digging Pads
- Ballards set to 9, 9.5 - 13' stackup
- Push Rig Back inside

1715 - Drillers back from 944/945
- Ballards in ground 400' Locations
- Pass Duel out behind set of concrete

1725 Bore Long Year Offsite
1730 - URS Offsite

0730 - URS onsite - [redacted]
0730 - Bore Long Year offsite
- Decem Pipe from Yesterday - 1928
To MW 952, MW 953, MW 954, MW 955, L04
915 Rig @ MW 952, ready to load Aug
915 MW 18 - DTW - 3.183, DTB 15.15
0411A - DTW - 8.73', DTB 58.10

0930 - Start Hauling Rig
1000 - Set up for Sonic Drill, URS onsite
- Film up Testamerica site for pick-up

1035 - Supplied to 10', 4" PVC in floor,
- Incr. Clay @ 8.5',
- Soil well to 9', 9' 5" Swmr

1150 - Collect Resin block over lent + speed
EDB - 111912
1155 MW 952 550.0-015 - 0055
1200 MW 952 SB 4.0-4.5 - 0056
1205 MW 952 SB 60-65 - 0057
1210 MW 952 SB 65-70 - 0058
1210 MW 952 SB 65-70 - 0012
Location: NFSS  
Date: 11/19/12  
Project / Client: NFSS BOP FIELD INVESTIGATION

1315 - Start and auger to MW 953  
1340 Hand auger to 5', MDB Rig, Sample
to sample  
1420 - Scanning Core + Dewater
1455 - MW 953 SS 0.0 - 0.5 - 0059  
1500 - MW 953 SB 1.0 - 2.0 - 0060  
1505 - MW 953 SB 4.0 - 4.5 - 0061  
1510 - MW 953 SB 6.0 - 6.5 - 0062  

Cam Up, will not start new hole, BLY  
Drying tree root, eat of MW 953 well pad area
1630 - BLY OFFSITE  

Sweep sample tubing from MW 950/951, Sampling, No Elephants Detected
End of Day Patchwork
1730 - Depart Site

Location: NFSS  
Date: 11/20/12  
Project / Client: NFSS BOP F-162D INVESTIGATION

0700 was onsite, morning paperwork  
0730 - BLFY onsite, morning H-5 MTG  
- Decor Equip from yesterday  
0830 = collect EBY - 11/20/12 on C45 Pipe  
C45T = Start Hand Clear MW 954
0945 - Hand auger to 5', start sonic  
- Sample to 10', Top 6' Clay 9.2'  
- Scan Core, Scan Down hole  
  - Set well to 10', 10.5' Gypsum, 4.5' sand, 3.4'  
  Collected Soil Samples
  110: MW 954 SS 0.0 - 0.5 - 0067  
  115: MW 954 SS 2.0 - 2.5 - 0064  
  1120: MW 954 SB 5.5 - 6.0 - 0065  
  1125: MW 954 SB 8.5 - 9.0 - 0066  
  1125: MW 954 SB 8.5 - 9.0D - 9013  

Boat Takes Lunch
1205 - Start Hand Augering MW 955
1315 - Refug on cable 2.5', Advance 6' casing  
  - to collect 3.5 - 5.0'  
  - and continue to 15'  
  - Scan Core + Backhole, Set Wall to 15'  
  Collected Soil Sample's
Location NE55
Date 11/20/12
Project / Client NE55 BOF FIELD INVESTIGATION

1455 NW 955 S 0.0-05-0067
1500 NW 955 S 0.5-1.0-0068
1505 NW 955 S 2.5-3.0-0069
1510 NW 955 S 7.0-8.0-0070
1510 NW 955 S 7.0-8.0-0073-9014
1510 NW 955 S 7.0-8.0-0073-9015
1530 BLY - Goes to Down.
1620 BLY - Offsite
1625 - Rele Paviks Attie
1745 - Offsite en Route to Site
1910 - Depart Site

Location NE55
Date 11/20/12
Project / Client NE55 BOF FIELD INVESTIGATION

0730 - Onsite, BLY onsite since 0730
- 415.8 - Site Meeting
- BLY - to work on plywood, rebar, etc. 0744
- MW 915, far right, adding rebar to concrete
- Decom back of pickup & general cleanup
- Conyers back of pickup
1100 - BLY lifts concrete off site
- Deck forms, paperwork
1145 - Depart Site
1210 - Depart Site
1230 - Depart Site
<table>
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<tr>
<td></td>
<td>11/27/12</td>
<td>NNESS BOP FIELD INVESTIGATION</td>
<td></td>
</tr>
</tbody>
</table>

- **0720:** Site, Overite, Overite.
- **0730:** BLY- welded hap broken Procasing @ MW944
- Place PVC casing post sleeves over ballards @ MW944, MW945
- Work on Forms for remaining piles @ MW945
- **0810:** Conducts in ground.

**MW944:** 24 @ 15.15" stick up to be added today
**MW945:** DRY @ 17.58
**MW946:** 15.01, 15.21 DTB
**MW947:** 21.06, 21.22 DTB
**MW948:** DRY @ 17.79
**MW949:** 13.10', 3.50 DTB (SOFT)
**MW950:** 6.24, 22.90 DTB
**MW951:** 6.98, 22.75 DTB
**MW952:** 7.04, 12.08 DTB
**MW953:** 9.56, 12.70 DTB
**MW954:** 11.80, 12.89 DTB
**MW955:** 5.88, 18.01 DTB
**MW956:** 9.49, 22.60 DTB
**MW957:** 9.77, 17.70 DTB
**MW958:** 12.23, 12.82 DTB
**MW959:** 8.73, 18.10 DTB
**MW960:** 7.20, 18.18 DTB

- **7** Procasings @ All locations except: MW952, MW953, MW954

- **ADD 0.28 TO DTR Measurements (PROBE TIP):**
  - 0.40 - 0.47" depending on male or female threads — Snap @ Bottom of well screen

- **BLY - Did well Procasing + Pads @ MW952**
  - MW953, MW954, MW955, MW948, MW949
  - MW947, PAINTED Procasings Yellow @ these locations, drilled weep holes and added sand between Procasing & liner @ these locations.

- **BLY - DEVELOPMENT equipment for ALUM:**
  - @ US Buffalo Tower

- **1700 BLY OFFSITE**
- **1730 US buffering Offsite**
0700. ARRIVE SITE.
0730 BLY arrive, H+S briefing.
BLY to complete Painting of Precastings.
Drilling weep holes, adding sand to between laterite + Precasting.
0830 - Pushed 3 Billard pipes (4'1' long) to 4'9'5'
w/3' stick up @ MWS-9'57 location. Filled
w/Porland, and set PVC Billard sleeves over
them.
- Load up / DEMO / BEST grades All equip
- BREAK DOWN + Drum Decal Pad
- Consolidate TRASH.
- Paint Precastings inside fence
- south of cap ad southeast of cap.
- Drill remaining weep holes & File Precasting
- Tops for safety.

1600 BLY off-site
630 - DECON PAD

1. MW 950 + MW 951 - Developed water.
2. MW 954 + MW 955 - Soil + LINTS + Subgrade.
3. MW 955 - Soil + LINTS + Surface Soil (PFA)
4. MW 944 - Soil + WTR + Surface Soil (PFA)
5. MW 945 + MW 944 - Soil + LINTS
6. MW 952 + MW 953 - Soil + LINTS
7. MW 949 - Soil
8. MW 947 + MW 948 - Soil + LINTS
9. MW 949 - Soil + LINTS
10. MW 949 - Soil
11. MW 957 + MW 958 - Soil + LINTS
12. MW 950 + MW 960 - Soil + LINTS
13. MW 951 + MW 955 - Soil + LINTS
14. MW 959 + MW 956 - Soil + LINTS
15. MW 946 + MW 997 - Soil + LINTS
16. DECON PAD
Date 11/28/12

Location

Project / Client

- Will put water from Drape Wells in Drum.
- Water from known elevated leadwells - in 450g Tank
- Water from PermaDrain wells will be added to 150g poly which is Drilling Decanter water./
- Water from FE 3/PE 3.
- Go to MW 950, Purg Dry @ 5 gallons.
- Go to MW 960, Purg Dry @ 5 gallons.
- Go to MW 957, Purg Dry @ 4 gallons.
16:20 - Return to Water Storage Area
- Transfer all water
16:25 - Depart 5:10pm

- 07:00 - Start @ 0.315B
- 07:30 - But @ 0.3145, Goto to Trainer.
- 08:00 - But @ 0.317, Done.
- Setting up for well development.
- All equip being secured.
- 09:45: MW 949 - Setup to develop
- ANS sent memo Drainer tubing for
- Water - setup submersible submersible.
- Purge 15g. then we Laurel for submersible.
- Allow recharge to slowly purge
- 1200 - Leave site to pickup correct size tubing in N
- From 16 ranch.
- 12:30 - Return to site
- Return to MW 949. Canoe total of 25g
- Well dry. but clear. PH is elevated.
- 09:30 after development.
- Move to MW 947 @ little rate to purge
- Same Result @ MW 946, MW 944, MW 945
- AND MW 948
- MW TO Water Storage Area and Transfer
- Water to 450g drum.
- Took water from Flat drum (from 950+951 level) and
- Transferred to 450g poly tank.
Location: MSS
Date: 11/30/12

Project/Client: MSS, BOP Field Investigation

0800 - collect, shipped office.

- Pick up tubing on way finished paperwork from yesterday.

1000 - @ MW 957, develop additional 15 g. Resin added.
- Consider developing 1 st range, from 8.9 - 9.6cd

1130 - to transfer water

1230 @ MW 957, use submersible pump to develop well, surge pump, add 25 g. Resin.

1350 - go to transfer pump, transfer.

1430 - @ MW 956, start development.

1452 - MW 956 Dry

1520 - MW 958 Purged Dry (only 0.25)

1540 - MW 957 Purged Dry (3rd)

1558 - MW 960 Purged Dry (2nd time)

1615 - MW 959 Purged Dry (2nd time)

1635 - MW 950 Purged Dry (2nd time)

- TRANSFER ALL PURGE WATER

1700 - All WSP Personel Depart Site.

Location: MSS
Date: 12/5/12

Project/Client: MSS, BOP Field Investigation

0830 - Snack, shipped @ 11/30/12

Any office equipment to see.

0925 - Purged MW 952 Dry

1015 - Purged MW 953 Dry

1025 - Purged MW 954 Dry

1050 - Purged MW 955 Dry

- TRANSFER PURGE WATER

1145 - Purged MW 950 Dry (3rd time)

1155 - Purged MW 960 Dry (3rd time)

1215 - Purged MW 957 Dry (3rd time)

1230 - Purged MW 956 Dry (2nd time)

1320 - Purged MW 957 Dry (2nd time)

1330 - Purged MW 758 Dry (2nd time)

- Very little water recovered (0.35 g)

Check Wells @ All wells developed today.

Only MW 953 has come back > 80%.

1450 - Purge MW 953 Dry 2nd time.

- Monitor recovery @ other wells

- TRANSFER PURGE WATER

ORDER EQUIPMENT FROM 11/5.

Fill out DQRs

1715 - All personnel depart Site.
0720 - Onsite, Morning Paperwork
- Scan docs + Email footers
- Set up for development
0907 - Purged MW956 Dry (3rd Time)
0927 - Purged MW957 Dry (3rd Time)
0932 - Purged MW958 Dry (0.5L) (3rd Time)

1000 - Purged MW952 Dry (2nd Time)
1040 - Purged MW953 Dry (3rd Time) (Dry)
1100 - Purged MW954 Dry (2nd Time) (Decanted)
1115 - Purged MW955 Dry (2nd Time)

- Transfer Lab SEC Water
1255 - 4g Distilled Water added, Sucre + Purred and 3.75g Recovered @ MW948

As Per Ultra Direction
1300 - Added 4g Distilled water to MW944
- Surge + Purred, 2.5 gallons Recovered
1420 - Added 4g Distilled water to MW944, Sucre and Purred, 3.5 gallons Recovered
1450 - Added 4g Distilled water to MW945, Sucre and Purred 2 gallons Recovered out.
1600 - Added 4 gallons of Distilled water to MW946
- Surge + Purred out 3.5 gallons Recovered.
- Transfer Surge Water
1700 - URS OFF SITE
0730 - Arrives onsite.
- Write up Data from yesterday.
- Scan all notes to office. Check cal on YSI probe.

M100 - Start purge @ MW949.
M1215 - Start sample @ MW949.
- MW949 GW001F-0071
- MW949 GW001-0071
- MW949 GW001D-9016
- MW949 GW001D-9016 3 duplicate

For EC, U0, TDS, pH, T, DO, LAB.

1400 - All bottles filled
- Clean up, deep well.

1430 - 1600 - Assist/monitor of incoming Cooler Scans.

1600 - 1630 - Discuss/Adopt work schedule

1630 - Depart Site.

1745 - Drop samples @ TestAmerica Amherst
- Depart for home.
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0720</td>
<td>Arrive onsite</td>
</tr>
<tr>
<td></td>
<td>Morning Paperwork, scan documents / email</td>
</tr>
<tr>
<td></td>
<td>Check Calibration - 46f</td>
</tr>
<tr>
<td>0918</td>
<td>Start purge @ MW959</td>
</tr>
<tr>
<td>1008</td>
<td>Start sampling MW959</td>
</tr>
<tr>
<td></td>
<td>Well goes dry during sampling (45% removal)</td>
</tr>
<tr>
<td>1314</td>
<td>Start purge @ MW950</td>
</tr>
<tr>
<td>1404</td>
<td>Start sampling MW950 @ 125 mL/min</td>
</tr>
<tr>
<td>1413</td>
<td>Return to MW959 fill add’l volume</td>
</tr>
<tr>
<td></td>
<td>SAMPLE TDS</td>
</tr>
<tr>
<td></td>
<td>MW959GW0001-0074</td>
</tr>
<tr>
<td></td>
<td>MW959GW0001F-0074</td>
</tr>
<tr>
<td></td>
<td>MW950GW0001-0075</td>
</tr>
<tr>
<td></td>
<td>MW950GW0001F-0075</td>
</tr>
<tr>
<td>1730</td>
<td>Depart Site</td>
</tr>
<tr>
<td>0730</td>
<td>Morning Paperwork, scan documents / email</td>
</tr>
<tr>
<td></td>
<td>Check Calibration - 46f</td>
</tr>
<tr>
<td>0950</td>
<td>Start purge @ MW956</td>
</tr>
<tr>
<td>1030</td>
<td>Start sampling MW956</td>
</tr>
<tr>
<td></td>
<td>MW956GW0001-0076</td>
</tr>
<tr>
<td></td>
<td>MW956GW0001F-0076</td>
</tr>
<tr>
<td></td>
<td>For All TDS Analysis, Total U. Ra226, Tel Webb Iso / Iso Th / Ra226, Filled &amp; Run for 1150 Well goes dry of 3.5L Remaining tank filled (Filtered Volume)</td>
</tr>
<tr>
<td>1206</td>
<td>Start Purging MW957</td>
</tr>
<tr>
<td>1246</td>
<td>Well stable start sampling for samples listed above</td>
</tr>
<tr>
<td></td>
<td>MW957GW0001-0077</td>
</tr>
<tr>
<td></td>
<td>MW957GW0001F-0077</td>
</tr>
<tr>
<td>1438</td>
<td>Well goes dry while filling sample volume 1.1Lters needed</td>
</tr>
<tr>
<td>1445</td>
<td>Collected Remaining 3.5L to MW956</td>
</tr>
<tr>
<td>1515</td>
<td>Collect Remaining 1.1Lters @ MW957</td>
</tr>
<tr>
<td>1600</td>
<td>Purged MW958, well goes dry</td>
</tr>
<tr>
<td></td>
<td>Purge - Allow recovery overnight</td>
</tr>
<tr>
<td>1610</td>
<td>End of day activities, Clean up / Pack up</td>
</tr>
<tr>
<td></td>
<td>Set up宝特 for two tomorrow - David &amp; Sue</td>
</tr>
</tbody>
</table>
Location: NPSS  
Date: 12/12/12

Project / Client: NPSS BOF FIELD INVESTIGATION

0730
- Fill out Doc for 12/12, scan + email.
- Filled COCs from 12/11/12 pickup + email.

1000
- Start Purge @ MW 952

1045 - Start Sampling MW 952. Well goes dry during sampling @ 1138. After 4.5L empty.

1152
- Start Purge @ MW 953

1227 - Start Sampling MW 953

1352 - Well dry after fill 5.75L of sample bottles

1411 - Start Purge @ MW 954

1431 - Well goes dry during purge, will allow recovery overnight + collect sample 12/13/12

1500 - Check Drv @ MW 952 and 953

1504 - Recover 0.4L head value from 452

1515 - Recovered 1.0L head value from 953.

1535 - Pump Aldi 0.4L from well 953

1612 - Pump last 0.1L needed for Unfiltered Volume from 953

1630 - Check Drv @ 953, not measurable v 0.10'

1720 - Depart Site.
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0730</td>
<td>Arrives on site, fills out DCR, survey, and email.</td>
</tr>
<tr>
<td></td>
<td>Morning HITS meeting.</td>
</tr>
<tr>
<td>0915</td>
<td>Collect additional volume needed to complete bottle if needed volume at MW955. Complete.</td>
</tr>
<tr>
<td>0930</td>
<td>Begin filling bottles from MW952, dry after 1.2L.</td>
</tr>
<tr>
<td>1030</td>
<td>Recovered 1/2 from MW958, 1/2 total to date.</td>
</tr>
<tr>
<td>1030</td>
<td>1600 - Assist Steve w/ labels.</td>
</tr>
<tr>
<td>1600</td>
<td>Parking coolers.</td>
</tr>
<tr>
<td>1700</td>
<td>Take coolers to lab.</td>
</tr>
<tr>
<td>1805</td>
<td>Relinquish coolers.</td>
</tr>
<tr>
<td>1830</td>
<td>End of day.</td>
</tr>
</tbody>
</table>
0730 - Meet on site.
0730 - Prepping Paperwork.
0750 - Collect add'l sample volume M1952.
1000 - Collect add'l sample volume M1954.
1113 - Collect add'l volume M1958.
- Labels COCs, Assist w/ Demo.
- Activities: For bulk of day.
1645 - Depart site.
1723 - Drop samples @ 126.

0730 - Meet on site.
- Assists w/ Survey activities throughout the day.
- Re-plot label/line IPW sample collected off upper day.
- Prepare surveys. All test holes for vertical & horizontal.

1420 - Meet on site.
1500 - Demo & exiting.
- Demolishing final office walls.
1545 - Dropped samples from previous day @ TA-Atherton.