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Sandia National Laboratories

Operated for the U.S. Department of Energy

by

Sandia Corporation

Carlsbad, New Mexico 88220

date: January 30, 2012

to: Records Center

from: Patricia Johnson, SNL Contractor

A handwritten signature in black ink, appearing to read 'Patricia Johnson'.

subject: 2006 Calculated Densities

The groundwater densities for the WIPP Culebra monitoring wells were calculated for 2006 as described in the Activity/Project Specific Procedure (SP) 9-11 *Calculation of Densities for Groundwater in WIPP Wells*. The derivation of the data is explained in the following sections and the supporting data are attached.

1. Calculation Process:

As stated in SP 9-11, for each calculation the observed water pressure is divided by the height of the water column. Specifically, the measured pressure value was divided by the Troll depth minus the closest corresponding depth to water (from or adjusted to the same measurement point elevation), and that result was then divided by 0.4335 (psi to feet of fresh water conversion at 4°C, at which temperature the density of pure water is 1.000 g/cm³). The individual calculated density results for each well were then averaged for a final density value.

The density data are included in the *2006 Calc Dens.xlsx* spreadsheet file created in Excel. Within that spreadsheet, the worksheet *2006 Calc Dens* summarizes the resulting density values and supporting information for the calculated densities, and the worksheet *2006 Calc Dens Formulas* provides the formulas in the worksheet. In addition, the Excel file contains individual well worksheets that include the data used for the calculations and plots of the Troll pressure data. The columns in the worksheets and their contents are described below:

- A – Monitor Well – Well ID
- B – 2006 Avg Calc Dens (g/cm³) – Average calculated density value for 2006
- C – 2005 Avg Calc Dens (g/cm³) – Average calculated density value for 2005
- D – 2006 – 2005 Difference – Difference between 2006 and 2005 densities (Column B - Column C)
- E – # of Dens Averaged – Number of density values averaged to get the final value
- F – Troll – Mini/Level, Vented (v)/Non-Vented (nv) – Type of Troll and cable used to collect pressure measurements

WIPP:1.4.2.3:TD:QA-L:RECERT:541153

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- G – Timeframe of Data – Time period for pressure data used in calculations
- H – Troll File Name(s) – File names for pressure data
- I – Troll Install Depth (ft BTOC/T) – Depth below primary measuring point at which the Troll was installed, below top of casing or tubing
- J – Troll Ideal Install Depth (ft BTOC/T) (ERMS 549564) – Mid-Culebra depth below top of casing/tubing
- K – Length Off Ideal Depth (ft) – Depth in feet that the Troll is installed below/above ideal (Column I - Column J)
- L – Date of Install – Date the Troll was installed into the well
- M – Installation Logbook Page – Reference to the logbook and page where the Troll installation was documented
- N – Comments/Explanations – Comments and/or explanations regarding data

The spreadsheet entries were verified by Dale O. Bowman II, Organization 6212.

2. Identification/Listing of Input, Input sources, and Output:

- Excel spreadsheet including the data – 2006 Calc Dens.xlsx
 - Worksheet 1 – 2006 Calc Dens (printed copy attached)
 - Worksheet 2 – 2006 Calc Dens Formulas (printed copy attached)
 - Worksheet 3 – C-2737
 - Worksheet 4 – DOE-1
 - Worksheet 5 – ERDA-9
 - Worksheet 6 – H-2b2
 - Worksheet 7 – H-3b2
 - Worksheet 8 – H-4b
 - Worksheet 9 – H-5b
 - Worksheet 10 – H-6b
 - Worksheet 11 – H-7b1
 - Worksheet 12 – H-9c
 - Worksheet 13 – H-10c
 - Worksheet 14 – H-11b4
 - Worksheet 15 – H-12
 - Worksheet 16 – H-15
 - Worksheet 17 – H-16
 - Worksheet 18 – H-17
 - Worksheet 19 – H-19b0
 - Worksheet 20 – IMC-461
 - Worksheet 21 – P-17
 - Worksheet 22 – SNL-1
 - Worksheet 23 – SNL-2
 - Worksheet 24 – SNL-3
 - Worksheet 25 – SNL-5
 - Worksheet 26 – SNL-6

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- Worksheet 27 – SNL-8
- Worksheet 28 – SNL-9
- Worksheet 29 – SNL-10
- Worksheet 30 – SNL-12
- Worksheet 31 – SNL-13
- Worksheet 32 – SNL-14
- Worksheet 33 – SNL-15
- Worksheet 34 – SNL-16
- Worksheet 35 – SNL-17A
- Worksheet 36 – SNL-18
- Worksheet 37 – SNL-19
- Worksheet 38 – WIPP-11
- Worksheet 39 – WIPP-12
- Worksheet 40 – WIPP-13
- Worksheet 41 – WIPP-19
- Worksheet 42 – WIPP-25
- Worksheet 43 – WIPP-26
- Worksheet 44 – WIPP-30

3. Data Qualification for Compliance Decision Analysis:

Data sources provided in Column H (Troll File Name(s)), Column M (Installation Logbook Page), and in the References Section.

4. Software Used:

Intel® Xeon® CPU, Microsoft Windows 7, Microsoft Office Professional Plus 2010 Excel

5. Reviews:

Technical: Dale O. Bowman II, 6212

QA: Shelly Nielsen, 6210

6. References:

- Troll installation data and SNL water level data from the following logbooks (package ERMS 543277):
 - Troll Logbook 4 – Troll-4
 - Troll Logbook 5 – Troll-5
 - Long-Term Monitoring 1 – LTM-1
 - Long-Term Monitoring 2 – LTM-2
 - WIPP Site Well Testing 7 – WSWT-7
 - WIPP Site Well Testing 9 – WSWT-9
- WRES Water Level Data submitted to SNL in monthly memoranda (package ERMS 525178)
- Johnson, Patricia B., Culebra Center Depths for Use in Calculating Equivalent Freshwater Heads of the Culebra Dolomite Member of the Rustler Formation near the WIPP Site, Revision 3, June 10, 2010 (ERMS 553781)

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7. List of Attachments:

1. Printout of Excel file worksheet 2006 Calc Dens.xlsx
2. Printout of Excel file worksheet 2006 Calc Dens Formulas.xlsx
3. CD including the Excel file and memorandum

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2006 Calc Dens

| A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|--------------|--|---|---|--------------------|--|-------------------|---|---------------------------------|---|-----------------------------|-----------------------|---------------------------|-----------------------|
| Monitor Well | 2006 Avg Calc Dens (g/cm ³) | 2005 Avg Calc Dens (g/cm ³) | 2006 - 2005 Difference (g/cm ³) | # of Dens Averaged | Troll - Mini/Level, Vented (v)/Non-Vented (nv) | Timeframe of Data | Troll File Name(s) | Troll Install Depth (ft BTOC/T) | Troll Ideal Install Depth (ft BTOC/T) (ERMS 549564) | Length Off Ideal Depth (ft) | Date of Install | Installation Logbook Page | Comments/Explanations |
| C-2737 | 1.017 | 1.019 | -0.002 | 4 | Mini, vented | Sept - Nov | SN17333 2006-02-22 150000 C-2737(C11).bin | 700.8 | 691.0 | 9.80 | 2/26/2006 | LTM-1, 47 | |
| DOE-1 | 1.091 | | | 5 | Mini, vented | Mar - May | SN17764 2006-02-24 170000 DOE-1(C1).bin | 600.0 | 831.6 | -231.55 | 7/18/2005 | WSWT-7, 91 | Ideal depth is BGS |
| ERDA-9 | 1.046 | 1.066 | -0.020 | 5 | Mini, vented | Mar - May | SN14199 2006-03-31 120000 ERDA-9(C5).bin | 475.8 | 716.8 | -240.98 | 3/31/2006 | LTM-1, 115 | |
| H-2b2 | NO TROLL DATA FOR 2006 | | | | | | | | | | | | |
| H-3b2 | 1.040 | 1.053 | -0.013 | 5 | Mini, vented | Mar - May | SN17386 2006-02-22 160000 H-3b2(C5).bin, SN17386 2006-06-28 110000 H-3b2(C6).bin | 500.8 | 687.7 | -186.90 | 2/22/2006 | LTM-1, 49 | |
| H-4b | 1.015 | 1.015 | 0.000 | 8 | Mini, vented | Aug - Dec | SN17334 2006-02-23 110000 H-4b(C3).bin, SN17310 2006-07-25 140000 H-4b(C4).bin | 500.8 | 504.1 | -3.30 | 7/25/2006 | LTM-2, 68 | |
| H-5b | 1.092 | 1.097 | -0.005 | 8 | Mini, vented | Sept - Dec | SN08276 2006-03-02 140000 H-5b(C3).bin | 600.8 | 910.3 | -309.50 | 3/2/2006 | LTM-1, 69 | |
| H-6b | 1.039 | 1.040 | -0.001 | 8 | Mini, vented | Aug - Nov | SN17400 2006-06-29 120000 H-6b (C9).bin, SN17400 2006-08-22 120000 H-6b(C10).bin | 450.8 | 617.5 | -166.70 | 6/29/2006 | LTM-2, 36 | |
| H-7b1 | 0.923 | 1.008 | -0.085 | 6 | Mini, vented | Sept - Nov | SN04580 2006-05-22 150000 H-7b1(C5).bin | 275.8 | 269.9 | 5.92 | 5/22/2006 | LTM-1, 155 | |
| H-9c | 1.022 | 1.028 | -0.006 | 6 | Mini, vented | Sept - Nov | SN11025 2006-09-06 160000 H-9C (C11).bin | 500.1 | 663.5 | -163.45 | 9/6/2006 | LTM-2, 139 | |
| H-10c | 1.037 | | | 8 | Mini, vented | Jul - Dec | SN13474 2006-03-03 170000 H-10C(C1).bin | 679.8 | 1372.1 | -692.30 | 3/3/2006 | LTM-1, 73 | |
| H-11b4 | 1.084 | 1.088 | -0.004 | 8 | Mini, vented | Sept - Dec | SN11231 2006-08-21 120000 H-11b4(C5).bin | 500.0 | 736.2 | -236.20 | 8/21/2006 | LTM-2, 106 | |
| H-12 | 1.096 | 1.106 | -0.010 | 7 | Mini, vented | Sept - Dec | SN14199 2006-08-21 130000 H-12(C7).bin | 550.8 | 838.4 | -287.60 | 8/21/2006 | LTM-2, 108 | |
| H-15 | AVAILABLE TROLL DATA APPEARS TO HAVE FAILED - DENSITIES NOT REPRESENTATIVE | | | | | | | | | | | | |
| H-16 | NO TROLL DATA FOR 2006 | | | | | | | | | | | | |
| H-17 | 1.165 | 1.168 | -0.003 | 7 | Mini, vented | Feb - May | SN18758 2006-02-27 160000 H-17(C2).bin | 500.0 | 720.4 | -220.40 | 4/28/2005 | Troll-4, 85 | |
| H-19b0 | 1.067 | 1.067 | 0.000 | 8 | Mini, vented | Sept - Dec | SN17334 2006-09-08 120000 H-19b0 (C6).bin | 500.8 | 754.0 | -253.20 | 8/21/2006 | LTM-2, 104 | |
| IMC-461 | 1.012 | 1.015 | -0.003 | 5 | Mini, vented | Oct - Dec | SN13485 2006-09-06 150000 IMC-461 (C11).bin | 375.8 | 376.5 | -0.70 | 9/6/2006 | LTM-2, 137 | |
| P-17 | 1.048 | 1.201 | -0.153 | 5 | Mini, vented | Mar - May | SN17400 2006-03-28 150000 P-17(C7).bin | 550.8 | 570.5 | -19.70 | 12/22/2005 | Troll-5, 45 | Ideal depth is BGS |
| SNL-1 | 1.075 | 1.032 | 0.043 | 5 | Mini, vented | Sept - Nov | SN17764 2006-08-11 120000 SNL-1(C11).bin | 610.8 | 612.9 | -2.07 | 8/11/2006 | LTM-2, 97 | |
| SNL-2 | 0.989 | 1.001 | -0.012 | 6 | Mini, vented | Sept - Nov | SN13590 2006-03-29 140000 SNL-2(C17).bin | 474.6 | 470.7 | 3.90 | 11/22/2005 | Troll-5, 18 | |
| SNL-3 | 1.024 | 1.029 | -0.005 | 8 | Mini, vented | Sept - Dec | SN16771 2006-08-09 120000 SNL-3(C6).bin | 600.8 | 766.5 | -165.70 | 8/9/2006 | LTM-2, 92 | |
| SNL-5 | 1.005 | 1.008 | -0.003 | 7 | Mini, vented | Sept - Dec | SN11306 2006-06-30 140000 SNL-5 (C6).bin | 450.8 | 649.0 | -198.20 | 6/30/2006 | LTM-2, 50 | |
| SNL-6 | NO TROLL DATA FOR 2006 | | | | | | | | | | | | |
| SNL-8 | 1.031 | 1.039 | -0.008 | 7 | Mini, vented | Aug - Nov | SN18778 2006-08-21 140000 SNL-8(C10).bin | 650.8 | 969.7 | -318.90 | 8/21/2006 | LTM-2, 109 | |
| SNL-9 | 1.029 | 1.025 | 0.004 | 6 | Mini, vented | Sept - Nov | SN18758 2006-05-23 130000 SNL-9(C12).bin | 521.0 | 567.2 | -46.20 | 5/23/2006 | LTM-2, 7 | |
| SNL-10 | 1.000 | | | 6 | Mini, vented | Jul - Oct | SN17353 2006-07-25 150000 SNL-10(C1).bin, SN17353 2006-10-18 160000 SNL-10 (C2).bin | 600.8 | 613.5 | -12.66 | 7/25/2006 | LTM-2, 70 | |
| SNL-12 | 1.005 | 1.000 | 0.005 | 8 | Mini, vented | Sept - Dec | SN17716 2006-07-25 120000 SNL-12(C8).bin | 575.8 | 570.9 | 4.90 | 7/25/2006 | LTM-2, 66 | |
| SNL-13 | 1.015 | 1.035 | -0.020 | 4 | Mini, vented | Oct - Nov | SN18823 2006-07-25 130000 SNL-13(C11).bin | 400.8 | 401.2 | -0.36 | 7/25/2006 | LTM-2, 67 | |
| SNL-14 | 1.037 | 1.042 | -0.005 | 8 | Mini, vented | Jun - Sept | SN17359 2006-03-03 140000 SNL-14(C8).bin, SN17337 2006-08-21 120000 SNL-14(C9).bin | 600.8 | 669.5 | -68.70 | 10/25/05 8/21/2006 | SNL-14, 153 LTM-2, 105 | |
| SNL-15 | 1.482 | 1.233 | 0.249 | 2 | Mini, vented | March | SN11358 2006-03-10 150000 SNL-15(C4).bin | 800.8 | 922.8 | -122.00 | 3/10/2006 | LTM-1, 91 | |
| SNL-16 | 0.925 | | | 8 | Mini, vented | Sept - Dec | SN07861 2006-06-26 100000 SNL-16(C2).bin | 207.5 | 206.3 | 1.20 | 5/2/2006 | LTM-1, 147 | |
| SNL-17A | 1.000 | | | 5 | Mini, vented | Oct - Dec | SN08268 2006-10-11 110000 SNL-17(C4).bin | 350.8 | 349.6 | 1.24 | 8/23/2006 | LTM-2, 121 | |
| SNL-18 | 1.073 | | | 8 | Mini, vented | Sept - Dec | SN12473 2006-09-06 100000 SNL-18 (C5).bin | 539.6 | 551.2 | -11.55 | 8/10/2006 | WSWT-9, 40 | |
| SNL-19 | 1.004 | | | 8 | Mini, vented | Sept - Dec | SN17621 2006-08-10 110000 SNL-19(C5).bin | 355.8 | 355.1 | 0.70 | 8/10/2006 | WSWT-9, 36 | |
| WIPP-11 | 1.031 | 1.042 | -0.011 | 8 | Mini, vented | Sept - Dec | SN11134 2006-08-11 130000 WIPP-11(C14).bin, SN13562 2006-09-18 150000 WIPP-11 (C15).bin | 600.8 | 857.8 | -257.00 | 8/11/2006 | LTM-2, 98 | |
| WIPP-12 | NO WATER LEVELS OR TROLL DATA FOR 2006 | | | | | | | | | | | | |
| WIPP-13 | 1.033 | 1.038 | -0.005 | 8 | Mini, vented | Aug - Dec | SN11028 2006-06-29 130000 WIPP-13 (C5).bin | 500.8 | 715.3 | -214.50 | 6/29/2006 | LTM-2, 37 | |
| WIPP-19 | NO TROLL DATA FOR 2006 | | | | | | | | | | | | |
| WIPP-25 | NO CORRESPONDING WATER LEVEL AND TROLL DATA IN 2006 | | | | | | | | | | | | |
| WIPP-26 | 1.016 | 1.033 | -0.017 | 8 | Mini, vented | May - Sept | SN11336 2006-04-14 150000 WIPP-26(C5).bin | 170.6 | 197.5 | -26.90 | 4/14/2006 | LTM-1, 142 | Ideal depth is BGS |
| WIPP-30 | 0.997 | | | 6 | Mini, vented | Sept - Nov | SN18823 2006-08-09 130000 WIPP-30 | 500.8 | 646.0 | -145.24 | 8/9/2006 | LTM-2, 94 | |

Notes:
ft BTOC = feet below top of casing
ft BTOT = feet below top of tubing
(v) = vented
(nv) = non-vented

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2006 Calc Dens Formulas

| A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|--------------|--|---|---|--------------------|--|-------------------|---|---------------------------------|---|-----------------------------|-----------------------|---------------------------|-----------------------|
| Monitor Well | 2006 Avg Calc Dens (g/cm ³) | 2005 Avg Calc Dens (g/cm ³) | 2006 - 2005 Difference (g/cm ³) | # of Dens Averaged | Troll - Mini/Level, Vented (v)/Non-Vented (nv) | Timeframe of Data | Troll File Name(s) | Troll Install Depth (ft BTOC/T) | Non-Vented Install Depth (ft BTOC/T) (ERMS Formula) | Length Off Ideal Depth (ft) | Date of Install | Installation Logbook Page | Comments/Explanations |
| C-2737 | 1.017 | 1.019 | =B4-C4 | 4 | Mini, vented | Sept - Nov | SN17333 2006-02-22 150000 C-2737(C11).bin | 700.8 | 691 | =I4-J4 | 38774 | LTM-1, 47 | |
| DOE-1 | 1.091 | | | 5 | Mini, vented | Mar - May | SN17764 2006-02-24 170000 DOE-1(C1).bin | 600 | 831.55 | =I5-J5 | 38551 | WSWT-7, 91 | Ideal depth is BGS |
| ERDA-9 | 1.046 | 1.066 | =B6-C6 | 5 | Mini, vented | Mar - May | SN14199 2006-03-31 120000 ERDA-9(C5).bin | 475.8 | 716.78 | =I6-J6 | 38807 | LTM-1, 115 | |
| H-2b2 | NO TROLL DATA FOR 2006 | | | | | | | | | | | | |
| H-3b2 | 1.04 | 1.053 | =B8-C8 | 5 | Mini, vented | Mar - May | SN17386 2006-02-22 160000 H-3b2(C5).bin, SN17386 2006-06-28 110000 H-3b2(C6).bin | 500.8 | 687.7 | =I8-J8 | 38770 | LTM-1, 49 | |
| H-4b | 1.015 | 1.015 | =B9-C9 | 8 | Mini, vented | Aug - Dec | SN17334 2006-02-23 110000 H-4b(C3).bin, SN17310 2006-07-25 140000 H-4b(C4).bin | 500.8 | 504.1 | =I9-J9 | 38923 | LTM-2, 68 | |
| H-5b | 1.092 | 1.097 | =B10-C10 | 8 | Mini, vented | Sept - Dec | SN08276 2006-03-02 140000 H-5b(C3).bin | 600.8 | 910.3 | =I10-J10 | 38778 | LTM-1, 69 | |
| H-6b | 1.039 | 1.04 | =B11-C11 | 8 | Mini, vented | Aug - Nov | SN17400 2006-06-29 120000 H-6b (C9).bin, SN17400 2006-08-22 120000 H-6b(C10).bin | 450.8 | 617.5 | =I11-J11 | 38897 | LTM-2, 36 | |
| H-7b1 | 0.923 | 1.008 | =B12-C12 | 7 | Mini, vented | Sept - Nov | SN04580 2006-05-22 150000 H-7b1(C5).bin | 275.82 | 269.9 | =I12-J12 | 38859 | LTM-1, 155 | |
| H-9c | 1.022 | 1.028 | =B13-C13 | 6 | Mini, vented | Sept - Nov | SN11025 2006-09-06 160000 H-9C (C11).bin | 500.05 | 663.5 | =I13-J13 | 38966 | LTM-2, 139 | |
| H-10c | 1.037 | | | 8 | Mini, vented | Jul - Dec | SN13474 2006-03-03 170000 H-10C(C1).bin | 679.8 | 1372.1 | =I14-J14 | 38779 | LTM-1, 73 | |
| H-11b4 | 1.084 | 1.088 | =B15-C15 | 8 | Mini, vented | Sept - Dec | SN11231 2006-08-21 120000 H-11b4(C5).bin | 500 | 736.2 | =I15-J15 | 38950 | LTM-2, 106 | |
| H-12 | 1.096 | 1.106 | =B16-C16 | 7 | Mini, vented | Sept - Dec | SN14199 2006-08-21 130000 H-12(C7).bin | 550.8 | 838.4 | =I16-J16 | 38950 | LTM-2, 108 | |
| H-15 | AVAILABLE TROLL DATA APPEARS TO HAVE FAILED - DENSITIES NOT REPRESENTATIVE | | | | | | | | | | | | |
| H-16 | NO TROLL DATA FOR 2006 | | | | | | | | | | | | |
| H-17 | 1.165 | 1.168 | =B19-C19 | 7 | Mini, vented | Feb - May | SN18758 2006-02-27 160000 H-17(C2).bin | 500 | 720.4 | =I19-J19 | 38470 | Troll-4, 85 | |
| H-19b0 | 1.067 | 1.067 | =B20-C20 | 8 | Mini, vented | Sept - Dec | SN17334 2006-09-08 120000 H-19b0 (C6).bin | 500.8 | 754 | =I20-J20 | 38950 | LTM-2, 104 | |
| IMC-461 | 1.012 | 1.015 | =B21-C21 | 5 | Mini, vented | Oct - Dec | SN13485 2006-09-06 150000 IMC-461 (C11).bin | 375.8 | 376.5 | =I21-J21 | 38966 | LTM-2, 137 | |
| P-17 | 1.065 | 1.201 | =B22-C22 | 5 | Mini, vented | Mar - May | SN17400 2006-03-28 150000 P-17(C7).bin | 550.8 | 570.5 | =I22-J22 | 38708 | Troll-5, 45 | Ideal depth is BGS |
| SNL-1 | 1.075 | 1.032 | =B23-C23 | 5 | Mini, vented | Sept - Nov | SN17764 2006-08-11 120000 SNL-1(C11).bin | 610.8 | 612.87 | =I23-J23 | 38940 | LTM-2, 97 | |
| SNL-2 | 0.989 | 1.001 | =B24-C24 | 6 | Mini, vented | Sept - Nov | SN13590 2006-03-29 140000 SNL-2(C17).bin | 474.6 | 470.7 | =I24-J24 | 38678 | Troll-5, 18 | |
| SNL-3 | 1.024 | 1.029 | =B25-C25 | 8 | Mini, vented | Sept - Dec | SN16771 2006-08-09 120000 SNL-3(C6).bin | 600.8 | 766.5 | =I25-J25 | 38938 | LTM-2, 92 | |
| SNL-5 | 1.005 | 1.008 | =B26-C26 | 7 | Mini, vented | Sept - Dec | SN11306 2006-06-30 140000 SNL-5 (C6).bin | 450.8 | 649 | =I26-J26 | 38898 | LTM-2, 50 | |
| SNL-6 | NO TROLL DATA FOR 2006 | | | | | | | | | | | | |
| SNL-8 | 1.031 | 1.039 | =B28-C28 | 7 | Mini, vented | Aug - Nov | SN18778 2006-08-21 140000 SNL-8(C10).bin | 650.8 | 969.7 | =I28-J28 | 38950 | LTM-2, 109 | |
| SNL-9 | 1.029 | 1.025 | =B29-C29 | 6 | Mini, vented | Sept - Nov | SN18758 2006-05-23 130000 SNL-9(C12).bin | 521 | 567.2 | =I29-J29 | 38860 | LTM-2, 7 | |
| SNL-10 | 1 | | | 6 | Mini, vented | Jul - Oct | SN17353 2006-07-25 150000 SNL-10(C1).bin, SN17353 2006-10-18 160000 SNL-10 (C2).bin | 600.8 | 613.46 | =I30-J30 | 38923 | LTM-2, 70 | |
| SNL-12 | 1.005 | 1 | =B31-C31 | 8 | Mini, vented | Sept - Dec | SN17716 2006-07-25 120000 SNL-12(C8).bin | 575.8 | 570.9 | =I31-J31 | 38923 | LTM-2, 66 | |
| SNL-13 | 1.015 | 1.035 | =B32-C32 | 4 | Mini, vented | Oct - Nov | SN18823 2006-07-25 130000 SNL-13(C11).bin | 400.8 | 401.16 | =I32-J32 | 38923 | LTM-2, 67 | |
| SNL-14 | 1.037 | 1.042 | =B33-C33 | 8 | Mini, vented | Jun - Sept | SN17359 2006-03-03 140000 SNL-14(C8).bin, SN17337 2006-08-21 120000 SNL-14(C9).bin | 600.8 | 669.5 | =I33-J33 | 10/25/05 8/21/2006 | SNL-14, 153 LTM-2, 105 | |
| SNL-15 | 1.482 | 1.233 | =B34-C34 | 2 | Mini, vented | March | SN11358 2006-03-10 150000 SNL-15(C4).bin | 800.8 | 922.8 | =I34-J34 | 38786 | LTM-1, 91 | |
| SNL-16 | 0.925 | | | 8 | Mini, vented | Sept - Dec | SN07861 2006-06-26 100000 SNL-16(C2).bin | 207.5 | 206.3 | =I35-J35 | 38839 | LTM-1, 147 | |
| SNL-17A | 1 | | | 5 | Mini, vented | Oct - Dec | SN08268 2006-10-11 110000 SNL-17(C4).bin | 350.8 | 349.56 | =I36-J36 | 38952 | LTM-2, 121 | |
| SNL-18 | 1.073 | | | 8 | Mini, vented | Sept - Dec | SN12473 2006-09-06 100000 SNL-18 (C5).bin | 539.64 | 551.19 | =I37-J37 | 38939 | WSWT-9, 40 | |
| SNL-19 | 1.004 | | | 8 | Mini, vented | Sept - Dec | SN17621 2006-08-10 110000 SNL-19(C5).bin | 355.8 | 355.1 | =I38-J38 | 38939 | WSWT-9, 36 | |
| WIPP-11 | 1.031 | 1.042 | =B39-C39 | 8 | Mini, vented | Sept - Dec | SN11134 2006-08-11 130000 WIPP-11(C14).bin, SN13562 2006-09-18 150000 WIPP-11 (C15).bin | 600.8 | 857.8 | =I39-J39 | 38940 | LTM-2, 98 | |
| WIPP-12 | NO WATER LEVELS OR TROLL DATA FOR 2006 | | | | | | | | | | | | |
| WIPP-13 | 1.033 | 1.038 | =B41-C41 | 8 | Mini, vented | Aug - Dec | SN11028 2006-06-29 130000 WIPP-13 (C5).bin | 500.8 | 715.3 | =I41-J41 | 38897 | LTM-2, 37 | |
| WIPP-19 | NO TROLL DATA FOR 2006 | | | | | | | | | | | | |
| WIPP-25 | NO CORRESPONDING WATER LEVEL AND TROLL DATA IN 2006 | | | | | | | | | | | | |
| WIPP-26 | 1.016 | 1.033 | =B44-C44 | 8 | Mini, vented | May - Sept | SN11336 2006-04-14 150000 WIPP-26(C5).bin | 170.6 | 197.5 | =I44-J44 | 38821 | LTM-1, 142 | Ideal depth is BGS |
| WIPP-30 | 0.997 | | | 6 | Mini, vented | Sept - Nov | SN18823 2006-08-09 130000 WIPP-30 | 500.8 | 646.04 | =I45-J45 | 38938 | LTM-2, 94 | |

Notes:
ft BTOC = feet
ft BTOT = feet
(v) = vented
(nv) = non-vented

Information Only