



Department of Energy
Carlsbad Field Office
P. O. Box 3090
Carlsbad, New Mexico 88221



March 10, 2005

Mr. Steve Zappe, WIPP Project Leader
Hazardous Waste Permits Program
Hazardous Waste Bureau
New Mexico Environment Department
2905 E. Rodeo Park Dr. Bldg. 1
Santa Fe, New Mexico 87505-6303



Subject: Transmittal of the Waste Isolation Pilot Plant Groundwater Level Measurements for the Month of February 2005

Dear Mr. Zappe:

The purpose of this letter is to submit the Waste Isolation Pilot Plant ground water level data for the month of February 2005, as required by Module V.J.2.b of the Hazardous Waste Facility Permit No. NM4890139088-TSDF.

We certify under penalty of law that this document and all attachments were prepared under our direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on our inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of our knowledge and belief, true, accurate, and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Please feel free to contact Mr. Jody Plum at (505) 234-7462, if you have any questions regarding this data transmittal.

Sincerely,

Dr. Ines R. Triay, Acting Manager
DOE Carlsbad Field Office

Richard D. Raaz, General Manager
Washington TRU Solutions LLC

Enclosure

cc: w/enclosure
C. Walker, Trinity Engineering

cc: w/o enclosure
J. Kieling, NMED * ED
J. Bearzi, NMED ED



SUMMARY COMMENTS FOR THE WATER LEVEL MEASUREMENTS FOR THE
MONTH OF FEBRUARY 2005

1. The WIPP Hazardous Waste Facility Permit, Attachment L, Section L-4c (1) requires cumulative fluctuations noted in the Detection Monitoring Program wells of more than two feet in the course of one year which are not attributable to site tests or natural stabilization to be reported. None of the Water Quality Sampling Program wells indicate more than two feet of cumulative change from January 2004 through February 2005. Interim fluctuations in the Detection Monitoring Program wells greater than two feet are related to specific pumping episodes or natural stabilization.
2. Groundwater level measurements were not taken at wells WQSP-1, WQSP-2, and WQSP-3 due to instrumentation installed by Sandia National Laboratories (SNL). Manual water level measurements will resume in April.
3. Groundwater level measurements were not taken at wells WIPP-30 Production Inflation Packer (PIP), SNL-1 and SNL-2 due to SNL testing. Water level measurements will not be taken from these wells until all testing is completed and instrumentation removed.
4. Groundwater level measurements were not taken at well WIPP-26 due to road hazards after recent rainfall. Water level measurements will be taken next month as the road was repaired on February 21, 2005.
5. A groundwater level measurement was not taken at well H-15 Magenta (MAG) due to automated water level monitoring testing. Water level measurements will not be taken until all testing is completed and all instrumentation removed.
6. Adjusted freshwater heads are based on published fluid density data. Density values may be changed from previously published data (such as DOE/WIPP 03-3291, *SNL 9 Basic Data Report*) for any well that has experienced a significant event such as well maintenance, sampling, development, or pumping activities if the wellbore fluid density was altered.

WATERLEVEL ELEVATION
UPDATE
February 2005

| WELL NUMBER | ZONE | CASING ELEVATION ft amsl | DATE | TIME (MST) | DEPTH TO WATER ft | ADJUST TO TOC ft | ADJUSTED DEPTH TOC ft | ADJUSTED DEPTH METERS | WATER LEVEL ELEVATION ft amsl | ELEVATION IN METERS amsl | ADJUSTED FRESHWATER HEAD ft amsl |
|-------------------|---------|-----------------------------|----------|------------|----------------------|---------------------|--------------------------|-----------------------|----------------------------------|-----------------------------|-------------------------------------|
| AEC-7 | CUL | 3657.29 | 02/14/05 | 13:55 | 592.04 | 0.00 | 592.04 | 180.45 | 3065.25 | 934.29 | 3090.63 |
| C-2737 (PIP) | CUL | 3399.30 | 02/16/05 | 13:47 | 389.90 | 0.89 | 389.01 | 118.57 | 3010.29 | 917.54 | 3015.39 |
| DOE-1 | CUL | 3466.04 | 02/14/05 | 12:10 | 477.16 | 0.00 | 477.16 | 145.44 | 2988.88 | 911.01 | 3018.37 |
| ERDA-9 | CUL | 3410.10 | 02/17/05 | 13:00 | 400.80 | 0.65 | 400.15 | 121.97 | 3009.95 | 917.43 | 3025.47 |
| H-02b2 | CUL | 3378.31 | 02/16/05 | 13:33 | 339.56 | 0.00 | 339.56 | 103.50 | 3038.75 | 928.21 | 3041.11 |
| H-03b2 | CUL | 3390.03 | 02/17/05 | 09:23 | 389.51 | 0.00 | 389.51 | 118.72 | 3000.52 | 914.56 | 3011.93 |
| H-04b | CUL | 3333.35 | 02/14/05 | 12:43 | 329.54 | 0.00 | 329.54 | 100.44 | 3003.81 | 915.56 | 3007.45 |
| H-05b | CUL | 3506.04 | 02/16/05 | 11:11 | 476.42 | 0.00 | 476.42 | 145.21 | 3029.62 | 923.43 | 3074.62 |
| H-06b | CUL | 3348.25 | 02/15/05 | 11:16 | 301.48 | 0.00 | 301.48 | 91.89 | 3046.77 | 928.66 | 3058.73 |
| H-07b2 | CUL | 3165.07 | 02/15/05 | 07:15 | 164.07 | 0.00 | 164.07 | 50.01 | 3001.00 | 914.70 | 3000.91 |
| H-09c (PIP) | CUL | 3407.30 | 02/16/05 | 08:56 | 410.68 | 0.08 | 410.60 | 125.15 | 2996.70 | 913.39 | 2996.95 |
| H-10c | CUL | 3688.64 | 02/16/05 | 08:00 | 663.80 | 0.00 | 663.80 | 202.33 | 3024.84 | 921.97 | 3024.84 |
| H-11b4 | CUL | 3410.89 | 02/14/05 | 10:50 | 424.03 | 0.00 | 424.03 | 129.24 | 2986.86 | 910.39 | 3007.11 |
| H-15 | CUL | 3481.63 | 02/17/05 | 13:10 | 492.48 | 0.98 | 491.50 | 149.81 | 2990.13 | 911.39 | 3047.59 |
| H-17 | CUL | 3385.31 | 02/14/05 | 11:16 | 419.75 | 0.00 | 419.75 | 127.94 | 2965.56 | 903.90 | 3015.38 |
| H-19b0 | CUL | 3418.38 | 02/14/05 | 12:27 | 426.66 | 0.00 | 426.66 | 130.05 | 2991.72 | 911.88 | 3013.62 |
| I-481 | CUL | 3289.48 | 02/16/05 | 10:27 | 238.50 | 0.00 | 238.50 | 72.69 | 3050.98 | 929.94 | 3053.60 |
| P-17 | CUL | 3337.24 | 02/14/05 | 11:33 | 350.54 | 0.00 | 350.54 | 106.84 | 2986.70 | 910.35 | 3001.09 |
| SNL-03 | CUL | 3490.34 | 02/15/05 | 14:45 | 432.79 | 0.00 | 432.79 | 131.91 | 3057.55 | 931.94 | 3066.91 |
| SNL-05 | CUL | 3381.88 | 02/15/05 | 12:20 | 320.13 | 0.00 | 320.13 | 97.58 | 3061.75 | 933.22 | 3063.73 |
| SNL-09 | CUL | 3360.95 | 02/16/05 | 11:53 | 312.13 | 0.00 | 312.13 | 95.14 | 3048.82 | 929.28 | 3053.11 |
| SNL-12 | CUL | 3339.44 | 02/16/05 | 10:15 | 337.31 | 0.00 | 337.31 | 102.81 | 3002.13 | 915.05 | 3003.06 |
| WIPP-12 | CUL | 3472.06 | 02/17/05 | 10:04 | 442.41 | 0.00 | 442.41 | 134.85 | 3029.65 | 923.44 | 3066.21 |
| WIPP-13 | CUL | 3405.71 | 02/14/05 | 13:24 | 370.79 | 0.00 | 370.79 | 113.02 | 3034.92 | 925.04 | 3044.84 |
| WIPP-19 | CUL | 3435.14 | 02/17/05 | 10:33 | 396.84 | 0.00 | 396.84 | 120.96 | 3038.30 | 926.07 | 3075.94 |
| WIPP-21 | CUL | 3418.96 | 02/17/05 | 10:58 | 402.05 | 0.00 | 402.05 | 122.54 | 3016.91 | 919.55 | 3041.11 |
| WIPP-22 | CUL | 3428.12 | 02/17/05 | 10:44 | 398.00 | 0.00 | 398.00 | 121.31 | 3030.12 | 923.58 | 3061.19 |
| WIPP-25 (PIP) | CUL | 3214.39 | 02/15/05 | 09:56 | 148.90 | 0.42 | 148.48 | 45.26 | 3065.91 | 934.49 | 3062.78 |
| WIPP-27 (PIP) | CUL | 3178.98 | 02/15/05 | 08:52 | 93.28 | 0.42 | 92.86 | 28.30 | 3086.12 | 940.65 | 3092.32 |
| WIPP-29 | CUL | 2978.26 | 02/15/05 | 08:08 | 10.60 | 0.00 | 10.60 | 3.23 | 2967.66 | 904.54 | 2970.94 |
| WQSP-4 | CUL | 3433.00 | 02/17/05 | 08:53 | 444.24 | 0.16 | 444.08 | 135.36 | 2988.92 | 911.02 | 3013.98 |
| WQSP-5 | CUL | 3384.40 | 02/17/05 | 08:40 | 380.12 | 0.16 | 379.96 | 115.81 | 3004.44 | 915.75 | 3011.54 |
| WQSP-6 | CUL | 3364.70 | 02/17/05 | 08:20 | 346.60 | 0.16 | 346.44 | 105.59 | 3018.26 | 919.97 | 3022.02 |
| C-2737 (ANNULUS) | MAG | 3399.30 | 02/16/05 | 13:57 | 255.93 | 0.00 | 255.93 | 78.01 | 3143.37 | 958.10 | * |
| H-02b1 | MAG | 3378.46 | 02/16/05 | 13:27 | 234.86 | 0.00 | 234.86 | 71.59 | 3143.60 | 958.17 | * |
| H-03b1 | MAG | 3390.64 | 02/17/05 | 09:07 | 245.08 | 0.00 | 245.08 | 74.70 | 3145.56 | 958.77 | * |
| H-04c | MAG | 3334.04 | 02/14/05 | 12:50 | 193.01 | 0.00 | 193.01 | 58.83 | 3141.03 | 957.39 | * |
| H-05c | MAG | 3506.04 | 02/16/05 | 11:21 | 349.47 | 0.00 | 349.47 | 106.52 | 3156.57 | 962.12 | * |
| H-06c | MAG | 3348.52 | 02/15/05 | 11:11 | 281.41 | 0.00 | 281.41 | 85.77 | 3067.11 | 934.86 | * |
| H-06a | MAG | 3432.99 | 02/16/05 | 09:36 | 405.68 | 0.00 | 405.68 | 123.65 | 3027.31 | 922.72 | * |
| H-09c (ANNULUS) | MAG | 3407.30 | 02/16/05 | 08:01 | 271.07 | 0.00 | 271.07 | 82.62 | 3136.23 | 955.92 | * |
| H-10a | MAG | 3688.67 | 02/16/05 | 08:12 | 466.73 | 0.00 | 466.73 | 142.26 | 3221.94 | 982.05 | * |
| H-11b2 | MAG | 3411.64 | 02/14/05 | 11:07 | 278.36 | 0.00 | 278.36 | 84.84 | 3133.28 | 955.02 | * |
| H-14 | MAG | 3347.11 | 02/16/05 | 13:00 | 236.19 | 0.00 | 236.19 | 71.99 | 3110.92 | 948.21 | * |
| H-18 | MAG | 3414.21 | 02/16/05 | 12:18 | 349.85 | 0.00 | 349.85 | 106.63 | 3064.36 | 934.02 | * |
| WIPP-18 | MAG | 3458.76 | 02/17/05 | 10:18 | 314.16 | 0.00 | 314.16 | 95.76 | 3144.60 | 958.47 | * |
| WIPP-25 (ANNULUS) | MAG | 3214.39 | 02/15/05 | 10:00 | 152.35 | 0.00 | 152.35 | 46.44 | 3062.04 | 933.31 | * |
| H-03d/DL (PVC) | DL | 3390.01 | 02/17/05 | 09:14 | 313.92 | 2.22 | 311.70 | 95.01 | 3078.31 | 938.27 | * |
| WQSP-6a | DL | 3363.80 | 02/17/05 | 08:27 | 167.06 | 0.25 | 166.81 | 50.84 | 3196.99 | 974.44 | * |
| H-08c | RUS/SAL | 3432.90 | 02/16/05 | 09:45 | 451.55 | 0.00 | 451.55 | 137.63 | 2981.35 | 908.72 | * |
| AEC-8 | B/C | 3537.10 | 02/14/05 | 14:40 | 466.20 | 0.00 | 466.20 | 142.10 | 3070.90 | 936.01 | * |
| CB-1(PIP) | B/C | 3328.87 | 02/14/05 | 11:50 | 602.83 | 0.00 | 602.83 | 183.74 | 2726.04 | 830.90 | * |
| DOE-2 | B/C | 3418.96 | 02/16/05 | 11:55 | 741.12 | 0.00 | 741.12 | 225.89 | 2677.84 | 816.21 | * |

* Density data not acquired, therefore adjusted freshwater head measurements cannot be calculated for these wells.