



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

JUL 1 2004



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: Waste Isolation Pilot Plant Groundwater Level Measurements for June 2004

Dear Mr. Zappe:

The purpose of this letter is to submit the Waste Isolation Pilot Plant groundwater level data for the month of June 2004, as required by Module V.J.2.b of the Hazardous Waste Facility Permit No. NM4890139088—TSDf. This report is the first containing revised top of casing elevations in wells WQSP-6 and WQSP-6a as compared to all earlier reports. This correction was based on an error noted earlier this month and will stand in all future reports.

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.

If you have any questions regarding this data transmittal, please contact Mr. Jody Plum at (505) 234-7462.

Sincerely,

R. Paul Detwiler, Acting Manager
Carlsbad Field Office

S. D. Warren, Manager
Washington TRU Solutions LLC

Enclosure

cc: w/enclosure
C. Walker, Trinity Engineering
C. Byrum, EPA

cc: w/o enclosure
J. Keiling, NMED
J. Bearzi, NMED



SUMMARY COMMENTS FOR THE WATER LEVEL MEASUREMENTS FOR THE
MONTH OF JUNE 2004

1. The WIPP Groundwater Detection Monitoring Program Plan, 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 is not attributable to site tests or natural stabilization to be reported. None of the Water Quality Sampling Program (WQSP) wells indicate more than two feet of cumulative change from July 2003 through June 2004. Interim fluctuations in the DMP wells greater than two feet are related to specific pumping episodes or natural stabilization.
2. Groundwater level measurements were not taken at well H-15 due to instrumentation installed by Sandia National Laboratories (SNL). Also automated water level monitoring testing continues at well H-15. Water level measurements will not be taken from this well until all testing is completed and all instrumentation removed.
3. The water level for well DOE-2 is not reported this month. The well's fluid density has not been measured since the well was recompleted as a Bell Canyon monitoring well. The equivalent freshwater head cannot be calculated. The fluid density for DOE-2 will be determined when the Pressure-Density Survey is completed.
4. Adjusted freshwater heads are based on the most current fluid density measured for each well.
5. The top of casing elevations for wells WQSP-6 and WQSP-6A have been changed in this report to correct an identified error. They are different than in all prior reports, and will stand in all future reports.

Waterlevel Measurements

For
June 2004

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	3657.28	06/07/04	14:22	377.22	0.00	377.22	114.98	3280.06	999.76	3324.78
C-2737 (PIP)	CUL	3399.30	06/10/04	09:36	391.01	1.28	389.73	118.79	3009.57	917.32	3014.66
DOE-1	CUL	3466.04	06/08/04	12:38	482.35	0.00	482.35	147.02	2983.69	909.43	3012.75
ERDA-9	CUL	3410.10	06/10/04	10:00	401.40	0.65	400.75	122.15	3009.35	917.25	3024.84
H-02a	CUL	3378.09	06/10/04	07:00	338.19	0.00	338.19	103.08	3039.90	926.56	3043.45
H-02b2	CUL	3378.31	06/10/04	06:55	339.85	0.00	339.85	103.59	3038.46	926.12	3040.82
H-02c	CUL	3378.41	06/10/04	06:40	340.02	0.00	340.02	103.64	3038.39	926.10	3051.31
H-03b2	CUL	3390.03	06/09/04	07:05	390.74	0.00	390.74	119.10	2999.29	914.18	3010.65
H-03b3	CUL	3388.67	06/09/04	07:16	385.14	0.00	385.14	117.39	3003.53	915.48	3013.38
H-04b	CUL	3333.35	06/10/04	09:09	331.90	0.00	331.90	101.16	3001.45	914.84	3005.04
H-05a	CUL	3506.24	06/07/04	07:48	473.98	0.00	473.98	144.47	3032.26	924.23	3072.30
H-05b	CUL	3506.04	06/07/04	07:40	476.46	0.00	476.46	145.23	3029.58	923.42	3074.58
H-06a	CUL	3348.11	06/07/04	11:40	294.97	0.00	294.97	89.91	3053.14	930.60	3065.35
H-06b	CUL	3348.25	06/07/04	11:45	296.01	0.00	296.01	90.22	3052.24	930.32	3064.41
H-07b1	CUL	3164.17	06/07/04	07:30	166.10	0.00	166.10	50.63	2998.07	913.81	2998.52
H-07b2	CUL	3165.07	06/07/04	07:25	167.28	0.00	167.28	50.99	2997.79	913.73	2997.70
H-09c (PIP)	CUL	3407.30	06/08/04	14:33	412.71	0.08	412.63	125.77	2994.67	912.78	2994.92
H-10c	CUL	3688.64	06/08/04	13:46	664.00	0.00	664.00	202.39	3024.64	921.91	3024.64
H-11b1	CUL	3411.62	06/09/04	08:48	419.45	0.00	419.45	127.85	2992.17	912.01	3016.16
H-11b4	CUL	3410.89	06/09/04	08:39	426.38	0.00	426.38	129.96	2984.51	909.68	3004.61
H-17	CUL	3385.31	06/09/04	09:15	421.84	0.00	421.84	128.58	2963.47	903.27	3012.95
H-19b0	CUL	3418.38	06/09/04	07:48	428.10	0.00	428.10	130.48	2990.28	911.44	3012.08
H-19b2	CUL	3419.01	06/09/04	07:33	429.45	0.00	429.45	130.90	2989.56	911.22	3011.42
H-19b3	CUL	3419.09	06/09/04	08:07	429.65	0.00	429.65	130.96	2989.44	911.18	3011.19
H-19b4	CUL	3419.03	06/09/04	07:55	428.90	0.00	428.90	130.73	2990.13	911.39	3011.78
H-19b5	CUL	3418.63	06/09/04	07:38	428.96	0.00	428.96	130.75	2989.67	911.25	3011.23
H-19b6	CUL	3419.07	06/09/04	08:14	429.57	0.00	429.57	130.93	2989.50	911.20	3011.19
H-19b7	CUL	3418.99	06/09/04	07:44	429.66	0.00	429.66	130.96	2989.33	911.15	3011.05
P-17	CUL	3337.24	06/09/04	09:51	353.23	0.54	352.69	107.50	2984.55	909.69	2998.80
SNL-01	CUL	3512.84	06/10/04	08:29	441.90	0.00	441.90	134.69	3070.94	936.02	3075.22
SNL-02	CUL	3323.03	06/07/04	10:30	258.26	0.00	258.26	78.72	3064.77	934.14	3067.95
SNL-03	CUL	3490.34	06/07/04	13:55	425.07	0.00	425.07	129.56	3065.27	934.29	3074.84
SNL-05	CUL	3381.88	06/07/04	12:48	313.60	0.00	313.60	95.59	3068.28	935.21	3070.30
SNL-09	CUL	3360.95	06/07/04	10:55	312.55	0.00	312.55	95.27	3048.40	929.15	3052.67
SNL-12	CUL	3339.44	06/08/04	14:56	340.05	0.00	340.05	103.65	2999.39	914.21	3000.31
WIPP-12	CUL	3472.06	06/09/04	13:18	440.41	0.00	440.41	134.24	3031.65	924.05	3068.40
WIPP-13	CUL	3405.71	06/07/04	12:19	349.95	0.00	349.95	106.66	3055.76	931.40	3066.28
WIPP-19	CUL	3435.14	06/09/04	13:34	395.21	0.00	395.21	120.46	3039.93	926.57	3077.73
WIPP-21	CUL	3418.96	06/09/04	13:52	402.40	0.00	402.40	122.65	3016.56	919.45	3040.74
WIPP-22	CUL	3428.12	06/09/04	13:44	397.67	0.00	397.67	121.21	3030.45	923.68	3061.55
WIPP-25 (PIP)	CUL	3214.39	06/07/04	10:10	155.61	0.42	155.19	47.30	3059.20	932.44	3056.14
WIPP-26	CUL	3153.20	06/07/04	08:00	130.67	0.00	130.67	39.83	3022.53	921.27	3022.67
WIPP-27 (PIP)	CUL	3178.98	06/07/04	09:09	97.99	0.42	97.57	29.74	3081.41	939.21	3087.48
WIPP-29	CUL	2978.26	06/07/04	08:27	11.20	0.00	11.20	3.41	2967.06	904.36	2970.23
WIPP-30 (PIP)	CUL	3429.05	06/07/04	13:13	360.06	0.70	359.36	109.53	3069.69	935.64	3076.80
WQSP-1	CUL	3419.20	06/09/04	14:27	365.95	0.16	365.79	111.49	3053.41	930.68	3070.08
WQSP-2	CUL	3463.90	06/09/04	14:09	405.36	0.16	405.20	123.50	3058.70	932.29	3078.41
WQSP-3	CUL	3480.30	06/09/04	13:04	468.53	0.16	468.37	142.76	3011.93	918.04	3069.08
WQSP-4	CUL	3433.00	06/09/04	12:40	445.50	0.16	445.34	135.74	2987.66	910.64	3012.62
WQSP-5	CUL	3384.40	06/09/04	12:34	381.24	0.16	381.08	116.15	3003.32	915.41	3010.39
WQSP-6	CUL	3364.70	06/09/04	12:16	347.61	0.16	347.45	105.90	3017.25	919.66	3021.00
C-2737 (ANNULUS)	MAG	3399.30	06/10/04	09:43	257.48	0.00	257.48	78.48	3141.82	957.63	*
H-02b1	MAG	3378.46	06/10/04	06:47	234.02	0.00	234.02	71.33	3144.44	958.43	*
H-03b1	MAG	3390.64	06/09/04	07:00	249.60	0.00	249.60	76.08	3141.04	957.39	*
H-04c	MAG	3334.04	06/10/04	09:19	192.50	0.00	192.50	58.67	3141.54	957.54	*
H-05c	MAG	3506.04	06/08/04	07:56	349.51	0.00	349.51	106.53	3156.53	962.11	*
H-06c	MAG	3348.52	06/07/04	11:52	281.98	0.00	281.98	85.95	3066.54	934.68	*
H-08a	MAG	3432.99	06/09/04	10:50	405.89	0.00	405.89	123.72	3027.10	922.66	*
H-09c (ANNULUS)	MAG	3407.30	06/08/04	14:36	272.13	0.00	272.13	82.95	3135.17	955.60	*
H-10a	MAG	3688.67	06/08/04	13:40	466.54	0.00	466.54	142.20	3222.13	982.11	*
H-11b2	MAG	3411.64	06/09/04	09:57	278.77	0.00	278.77	84.97	3132.87	954.90	*
H-14	MAG	3347.11	06/09/04	12:06	237.60	0.00	237.60	72.42	3109.51	947.78	*

Waterlevel Measurements
For
June 2004

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
H-18	MAG	3414.21	06/07/04	12:07	339.63	0.00	339.63	103.52	3074.58	937.13	*
WIPP-18	MAG	3458.76	06/09/04	13:25	315.14	0.00	315.14	96.05	3143.62	958.18	*
H-03d/DL (PVC)	DL	3390.01	06/09/04	07:24	315.02	2.22	312.80	95.34	3077.21	937.93	*
WQSP-6a	DL	3363.80	06/09/04	12:23	166.90	0.25	166.65	50.79	3197.15	974.49	*
H-08c	RUS/SAL	3432.90	06/09/04	10:53	452.17	0.00	452.17	137.82	2980.73	908.53	*
AEC-8	B/C	3537.10	06/08/04	07:19	476.27	0.00	476.27	145.17	3060.83	932.94	*
CB-1(PIP)	B/C	3328.38	06/09/04	09:30	604.08	0.00	604.08	184.12	2724.30	830.37	*
C-2505	SR/D	3413.05	06/10/04	11:28	45.26	0.00	45.26	13.80	3367.79	1026.50	*
C-2506	SR/D	3412.87	06/10/04	11:25	44.64	0.00	44.64	13.61	3368.23	1026.64	*
C-2507	SR/D	3410.01	06/10/04	11:19	45.30	0.00	45.30	13.81	3364.71	1025.56	*
C-2811	SR/D	3398.92	06/10/04	09:53	59.49	0.00	59.49	18.13	3339.43	1017.86	*
PZ-01	SR/D	3413.41	06/10/04	11:09	42.23	0.00	42.23	12.87	3371.18	1027.54	*
PZ-02	SR/D	3413.42	06/10/04	11:35	43.38	0.00	43.38	13.22	3370.04	1027.19	*
PZ-03	SR/D	3416.15	06/10/04	11:43	44.70	0.00	44.70	13.62	3371.45	1027.62	*
PZ-04	SR/D	3412.10	06/10/04	11:14	47.19	0.00	47.19	14.38	3364.91	1025.62	*
PZ-05	SR/D	3415.31	06/10/04	11:48	42.46	0.00	42.46	12.94	3372.85	1028.04	*
PZ-06	SR/D	3413.49	06/10/04	11:58	43.70	0.00	43.70	13.32	3369.79	1027.11	*
PZ-07	SR/D	3413.99	06/10/04	10:41	37.39	0.00	37.39	11.40	3376.60	1029.19	*
PZ-09	SR/D	3421.21	06/10/04	10:53	56.43	0.00	56.43	17.20	3364.78	1025.58	*
PZ-10	SR/D	3405.80	06/10/04	10:24	37.79	0.00	37.79	11.52	3368.01	1026.57	*
PZ-11	SR/D	3418.95	06/10/04	10:34	44.98	0.00	44.98	13.71	3373.97	1028.39	*
PZ-12	SR/D	3408.99	06/10/04	10:16	52.65	0.00	52.65	16.05	3356.34	1023.01	*

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