

3. Pumping Test Data

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 21 Feb 2001

STEP No. : 1/10

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1 Well Depth: 274.00 m, Well Diameter: ϕ 355.60 mm

Screen Depth(s): 12.5-215.75, 227.75-231.0, 237.0-240.25, 246.25-249.5, 255.5-258.75, 264.75-268 m

Static Groundwater Level: GL- 5.61 m Screen Length: 19.50 m

Pump Type: Submersible Pump

Pump Setting: 30.87 m, Discharge (Q): 1680.0 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 21/02/2001 | 3:10 | | 0 | 5.610 | 0.000 | | | |
| | | | 1 | 10.490 | 4.880 | | | |
| | | | 2 | 10.598 | 4.988 | | | |
| | | | 4 | 10.668 | 5.058 | | | |
| | | | 6 | 10.675 | 5.065 | | | |
| | | | 8 | 10.675 | 5.065 | | | |
| | | | 10 | 10.675 | 5.065 | 88.7 | 7.15 | 0.031 |
| | | | 12 | 10.676 | 5.066 | | | |
| | | | 14 | 10.676 | 5.066 | | | |
| | | | 16 | 10.676 | 5.066 | | | |
| | | | 18 | 10.676 | 5.066 | | | |
| | | | 20 | 10.676 | 5.066 | | | |
| | | | 25 | 10.676 | 5.066 | | | |
| | | | 30 | 10.680 | 5.070 | | | |
| | | | 35 | 10.705 | 5.095 | | | |
| | | | 40 | 10.710 | 5.100 | | | |
| | | | 45 | 10.714 | 5.104 | | | |
| | | | 50 | 10.713 | 5.103 | | | |
| | | | 55 | 10.714 | 5.104 | | | |
| | | 1 | 60 | 10.714 | 5.104 | 88.6 | 7.01 | 0.031 |
| | | | 70 | 10.716 | 5.106 | | | |
| | | | 80 | 10.717 | 5.107 | | | |
| | | | 90 | 10.717 | 5.107 | | | |
| | | | 100 | 10.717 | 5.107 | | | |
| | | | 110 | 10.719 | 5.109 | | | |
| | 5:10 | 2 | 120 | 10.725 | 5.115 | 88.7 | 7.13 | 0.031 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 21 Feb 2001

STEP No. : 2/10

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1 Well Depth: 274.00 m, Well Diameter: ϕ 355.60 mm

Screen Depth(s): 12.5-215.75, 227.75-231.0, 237.0-240.25, 246.25-249.5, 255.5-258.75, 264.75-268 m

Static Groundwater Level: GL- 5.61 m Screen Length: 19.50 m

Pump Type: Submersible Pump

Pump Setting: 30.87 m, Discharge (Q): 2400.0 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 21/02/2001 | 5:10 | | 0 | 10.725 | 5.115 | | | |
| | | | 1 | 11.731 | 6.121 | | | |
| | | | 2 | 11.734 | 6.124 | | | |
| | | | 4 | - | - | | | |
| | | | 6 | 15.913 | 10.303 | | | |
| | | | 8 | 15.916 | 10.306 | | | |
| | | | 10 | 15.910 | 10.300 | 94.8 | 7.16 | 0.045 |
| | | | 12 | 15.925 | 10.315 | | | |
| | | | 14 | 15.923 | 10.313 | | | |
| | | | 16 | 15.922 | 10.312 | | | |
| | | | 18 | 15.921 | 10.311 | | | |
| | | | 20 | 15.921 | 10.311 | | | |
| | | | 25 | 15.915 | 10.305 | | | |
| | | | 30 | 15.913 | 10.303 | | | |
| | | | 35 | 15.913 | 10.303 | | | |
| | | | 40 | 15.910 | 10.300 | | | |
| | | | 45 | 15.910 | 10.300 | | | |
| | | | 50 | 15.910 | 10.300 | | | |
| | | | 55 | 15.911 | 10.301 | | | |
| | | 1 | 60 | 15.909 | 10.299 | 89.8 | 7.14 | 0.044 |
| | | | 70 | 15.909 | 10.299 | | | |
| | | | 80 | 15.909 | 10.299 | | | |
| | | | 90 | 15.909 | 10.299 | | | |
| | | | 100 | 15.905 | 10.295 | | | |
| | | | 110 | 15.882 | 10.272 | | | |
| | 7:10 | 2 | 120 | 15.912 | 10.302 | 88.1 | 7.18 | 0.038 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 21 Feb 2001

STEP No. : 3/10

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1 Well Depth: 274.00 m, Well Diameter: ϕ 355.60 mm

Screen Depth(s): 12.5-215.75, 227.75-231.0, 237.0-240.25, 246.25-249.5, 255.5-258.75, 264.75-268 m

Static Groundwater Level: GL- 5.61 m Screen Length: 19.50 m

Pump Type: Submersible Pump

Pump Setting: 30.87 m, Discharge (Q): 3120.0 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 21/02/2001 | 7:10 | | 0 | 15.912 | 10.302 | | | |
| | | | 1 | 17.698 | 12.088 | | | |
| | | | 2 | 18.027 | 12.417 | | | |
| | | | 4 | 18.465 | 12.855 | | | |
| | | | 6 | 18.486 | 12.876 | | | |
| | | | 8 | 18.482 | 12.872 | | | |
| | | | 10 | 18.476 | 12.866 | 87.2 | 7.17 | 0.040 |
| | | | 12 | 18.475 | 12.865 | | | |
| | | | 14 | 18.470 | 12.860 | | | |
| | | | 16 | 18.469 | 12.859 | | | |
| | | | 18 | 18.469 | 12.859 | | | |
| | | | 20 | 18.470 | 12.860 | | | |
| | | | 25 | 18.471 | 12.861 | | | |
| | | | 30 | 18.471 | 12.861 | | | |
| | | | 35 | 18.471 | 12.861 | | | |
| | | | 40 | 18.469 | 12.859 | | | |
| | | | 45 | 18.468 | 12.858 | | | |
| | | | 50 | 18.467 | 12.857 | | | |
| | | | 55 | 18.467 | 12.857 | | | |
| | | 1 | 60 | 18.466 | 12.856 | 88.7 | 7.19 | 0.041 |
| | | | 70 | 18.459 | 12.849 | | | |
| | | | 80 | 18.464 | 12.854 | | | |
| | | | 90 | 18.462 | 12.852 | | | |
| | | | 100 | 18.410 | 12.800 | | | |
| | | | 110 | 18.410 | 12.800 | | | |
| | 9:10 | 2 | 120 | 18.360 | 12.750 | 79.0 | 7.17 | 0.047 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 21 Feb 2001

STEP No. : 4/10

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1 Well Depth: 274.00 m, Well Diameter: ϕ 355.60 mm

Screen Depth(s): 12.5-215.75, 227.75-231.0, 237.0-240.25, 246.25-249.5, 255.5-258.75, 264.75-268 m

Static Groundwater Level: GL- 5.61 m Screen Length: 19.50 m

Pump Type: Submersible Pump

Pump Setting: 30.87 m, Discharge (Q): 3600.0 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 21/02/2001 | 9:10 | | 0 | 18.360 | 12.750 | | | |
| | | | 1 | 19.106 | 13.496 | | | |
| | | | 2 | 20.158 | 14.548 | | | |
| | | | 4 | 20.395 | 14.785 | | | |
| | | | 6 | 20.425 | 14.815 | | | |
| | | | 8 | 20.413 | 14.803 | | | |
| | | | 10 | 20.415 | 14.805 | 86.5 | 7.17 | 0.035 |
| | | | 12 | 20.415 | 14.805 | | | |
| | | | 14 | 20.415 | 14.805 | | | |
| | | | 16 | 20.415 | 14.805 | | | |
| | | | 18 | 20.416 | 14.806 | | | |
| | | | 20 | 20.416 | 14.806 | | | |
| | | | 25 | 20.417 | 14.807 | | | |
| | | | 30 | 20.408 | 14.798 | | | |
| | | | 35 | 20.408 | 14.798 | | | |
| | | | 40 | 20.408 | 14.798 | | | |
| | | | 45 | 20.401 | 14.791 | | | |
| | | | 50 | 20.399 | 14.789 | | | |
| | | | 55 | 20.391 | 14.781 | | | |
| | | 1 | 60 | 20.387 | 14.777 | 85.9 | 7.12 | 0.049 |
| | | | 70 | 20.373 | 14.763 | | | |
| | | | 80 | 20.373 | 14.763 | | | |
| | | | 90 | 20.359 | 14.749 | | | |
| | | | 100 | 20.350 | 14.740 | | | |
| | | | 110 | 20.359 | 14.749 | | | |
| | 11:10 | 2 | 120 | 20.355 | 14.745 | 87.3 | 7.19 | 0.039 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 21 Feb 2001

STEP No. : 5/10

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1 Well Depth: 274.00 m, Well Diameter: ϕ 355.60 mm

Screen Depth(s): 12.5-215.75, 227.75-231.0, 237.0-240.25, 246.25-249.5, 255.5-258.75, 264.75-268 m

Static Groundwater Level: GL- 5.61 m Screen Length: 19.50 m

Pump Type: Submersible Pump

Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 21/02/2001 | 11:10 | | 0 | 20.355 | 14.745 | | | |
| | | | 1 | 23.655 | 18.045 | | | |
| | | | 2 | 23.918 | 18.308 | | | |
| | | | 4 | 23.956 | 18.346 | | | |
| | | | 6 | 23.966 | 18.356 | | | |
| | | | 8 | 23.954 | 18.344 | | | |
| | | | 10 | 23.958 | 18.348 | 86.2 | 7.17 | 0.036 |
| | | | 12 | 23.960 | 18.350 | | | |
| | | | 14 | 23.950 | 18.340 | | | |
| | | | 16 | 23.948 | 18.338 | | | |
| | | | 18 | 23.946 | 18.336 | | | |
| | | | 20 | 23.946 | 18.336 | | | |
| | | | 25 | 23.935 | 18.325 | | | |
| | | | 30 | 23.925 | 18.315 | | | |
| | | | 35 | 23.915 | 18.305 | | | |
| | | | 40 | 23.915 | 18.305 | | | |
| | | | 45 | 23.905 | 18.295 | | | |
| | | | 50 | 23.888 | 18.278 | | | |
| | | | 55 | 23.886 | 18.276 | | | |
| | | 1 | 60 | 23.885 | 18.275 | 85.4 | 7.14 | 0.036 |
| | | | 70 | 23.875 | 18.265 | | | |
| | | | 80 | 23.876 | 18.266 | | | |
| | | | 90 | 23.873 | 18.263 | | | |
| | | | 100 | 23.865 | 18.255 | | | |
| | | | 110 | 23.860 | 18.250 | | | |
| | 13:10 | 2 | 120 | 23.763 | 18.153 | 85.5 | 7.17 | 0.041 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 21 Feb 2001

STEP No. : 6/10

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1 Well Depth: 274.00 m, Well Diameter: ϕ 355.60 mm

Screen Depth(s): 12.5-215.75, 227.75-231.0, 237.0-240.25, 246.25-249.5, 255.5-258.75, 264.75-268 m

Static Groundwater Level: GL- 5.61 m Screen Length: 19.50 m

Pump Type: Submersible Pump

Pump Setting: 30.87 m, Discharge (Q): 3388.3 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 21/02/2001 | 13:10 | | 0 | 23.763 | 18.153 | | | |
| | | | 1 | 16.641 | 11.031 | | | |
| | | | 2 | 15.370 | 9.760 | | | |
| | | | 4 | 19.702 | 14.092 | | | |
| | | | 6 | 20.352 | 14.742 | | | |
| | | | 8 | 20.409 | 14.799 | | | |
| | | | 10 | 20.393 | 14.783 | 83.9 | 7.15 | 0.049 |
| | | | 12 | 20.397 | 14.787 | | | |
| | | | 14 | 20.390 | 14.780 | | | |
| | | | 16 | 20.394 | 14.784 | | | |
| | | | 18 | 20.394 | 14.784 | | | |
| | | | 20 | 20.396 | 14.786 | | | |
| | | | 25 | 20.395 | 14.785 | | | |
| | | | 30 | 20.394 | 14.784 | | | |
| | | | 35 | 20.389 | 14.779 | | | |
| | | | 40 | 20.394 | 14.784 | | | |
| | | | 45 | 20.389 | 14.779 | | | |
| | | | 50 | 20.380 | 14.770 | | | |
| | | | 55 | 20.380 | 14.770 | | | |
| | | 1 | 60 | 20.379 | 14.769 | 87.0 | 7.16 | 0.037 |
| | | | 70 | 20.355 | 14.745 | | | |
| | | | 80 | 20.355 | 14.745 | | | |
| | | | 90 | 20.360 | 14.750 | | | |
| | | | 100 | 20.355 | 14.745 | | | |
| | | | 110 | 20.355 | 14.745 | | | |
| | 15:10 | 2 | 120 | 20.355 | 14.745 | 81.2 | 7.15 | 0.036 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 21 Feb 2001

STEP No. : 7/10

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1 Well Depth: 274.00 m, Well Diameter: ϕ 355.60 mm

Screen Depth(s): 12.5-215.75, 227.75-231.0, 237.0-240.25, 246.25-249.5, 255.5-258.75, 264.75-268 m

Static Groundwater Level: GL- 5.61 m Screen Length: 19.50 m

Pump Type: Submersible Pump

Pump Setting: 30.87 m, Discharge (Q): 2634.2 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 21/02/2001 | 15:10 | | 0 | 20.355 | 14.745 | | | |
| | | | 1 | 18.972 | 13.362 | | | |
| | | | 2 | 17.213 | 11.603 | | | |
| | | | 4 | 16.076 | 10.466 | | | |
| | | | 6 | 15.988 | 10.378 | | | |
| | | | 8 | 15.981 | 10.371 | | | |
| | | | 10 | 15.972 | 10.362 | 86.3 | 7.14 | 0.041 |
| | | | 12 | 15.970 | 10.360 | | | |
| | | | 14 | 15.972 | 10.362 | | | |
| | | | 16 | 15.969 | 10.359 | | | |
| | | | 18 | 15.968 | 10.358 | | | |
| | | | 20 | 15.969 | 10.359 | | | |
| | | | 25 | 15.968 | 10.358 | | | |
| | | | 30 | 15.968 | 10.358 | | | |
| | | | 35 | 15.968 | 10.358 | | | |
| | | | 40 | 15.968 | 10.358 | | | |
| | | | 45 | 15.967 | 10.357 | | | |
| | | | 50 | 15.967 | 10.357 | | | |
| | | | 55 | 15.969 | 10.359 | | | |
| | | 1 | 60 | 15.968 | 10.358 | 85.5 | 7.14 | 0.044 |
| | | | 70 | 15.968 | 10.358 | | | |
| | | | 80 | 15.968 | 10.358 | | | |
| | | | 90 | 15.971 | 10.361 | | | |
| | | | 100 | 15.974 | 10.364 | | | |
| | | | 110 | 15.987 | 10.377 | | | |
| | 17:10 | 2 | 120 | 15.987 | 10.377 | 85.6 | 7.11 | 0.042 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 21 Feb 2001

STEP No. : 8/10

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1 Well Depth: 274.00 m, Well Diameter: ϕ 355.60 mm

Screen Depth(s): 12.5-215.75, 227.75-231.0, 237.0-240.25, 246.25-249.5, 255.5-258.75, 264.75-268 m

Static Groundwater Level: GL- 5.61 m Screen Length: 19.50 m

Pump Type: Submersible Pump

Pump Setting: 30.87 m, Discharge (Q): 1901.0 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|--------------------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) ² | | | | | |
| 21/02/2001 | 17:10 | | 0 | 15.987 | 10.377 | | | |
| | | | 1 | 13.408 | 7.798 | | | |
| | | | 2 | 13.038 | 7.428 | | | |
| | | | 4 | 13.034 | 7.424 | | | |
| | | | 6 | 12.968 | 7.358 | | | |
| | | | 8 | 12.962 | 7.352 | | | |
| | | | 10 | 12.960 | 7.350 | 85.7 | 7.15 | 0.045 |
| | | | 12 | 12.958 | 7.348 | | | |
| | | | 14 | 12.957 | 7.347 | | | |
| | | | 16 | 12.961 | 7.351 | | | |
| | | | 18 | 12.964 | 7.354 | | | |
| | | | 20 | 12.965 | 7.355 | | | |
| | | | 25 | 12.966 | 7.356 | | | |
| | | | 30 | 12.966 | 7.356 | | | |
| | | | 35 | 12.968 | 7.358 | | | |
| | | | 40 | 12.967 | 7.357 | | | |
| | | | 45 | 12.967 | 7.357 | | | |
| | | | 50 | 12.968 | 7.358 | | | |
| | | | 55 | 12.969 | 7.359 | | | |
| | | 1 | 60 | 12.970 | 7.360 | 84.4 | 7.13 | 0.044 |
| | | | 70 | 12.972 | 7.362 | | | |
| | | | 80 | 12.972 | 7.362 | | | |
| | | | 90 | 12.975 | 7.365 | | | |
| | | | 100 | 12.975 | 7.365 | | | |
| | | | 110 | 12.978 | 7.368 | | | |
| | 19:10 | 2 | 120 | 12.978 | 7.368 | 84.9 | 7.1 | 0.038 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 21 Feb 2001

STEP No. : 9/10

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1 Well Depth: 274.00 m, Well Diameter: ϕ 355.60 mm

Screen Depth(s): 12.5-215.75, 227.75-231.0, 237.0-240.25, 246.25-249.5, 255.5-258.75, 264.75-268 m

Static Groundwater Level: GL- 5.61 m Screen Length: 19.50 m

Pump Type: Submersible Pump

Pump Setting: 30.87 m, Discharge (Q): 1510.5 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 21/02/2001 | 19:10 | | 0 | 12.978 | 7.368 | | | |
| | | | 1 | 11.367 | 5.757 | | | |
| | | | 2 | 11.335 | 5.725 | | | |
| | | | 4 | 11.292 | 5.682 | | | |
| | | | 6 | 11.292 | 5.682 | | | |
| | | | 8 | 11.293 | 5.683 | | | |
| | | | 10 | 11.292 | 5.682 | 84.8 | 7.13 | 0.044 |
| | | | 12 | 11.291 | 5.681 | | | |
| | | | 14 | 11.289 | 5.679 | | | |
| | | | 16 | 11.287 | 5.677 | | | |
| | | | 18 | 11.288 | 5.678 | | | |
| | | | 20 | 11.287 | 5.677 | | | |
| | | | 25 | 11.288 | 5.678 | | | |
| | | | 30 | 11.288 | 5.678 | | | |
| | | | 35 | 11.288 | 5.678 | | | |
| | | | 40 | 11.291 | 5.681 | | | |
| | | | 45 | 11.292 | 5.682 | | | |
| | | | 50 | 11.291 | 5.681 | | | |
| | | | 55 | 11.292 | 5.682 | | | |
| | | 1 | 60 | 11.288 | 5.678 | 85.3 | 7.16 | 0.047 |
| | | | 70 | 11.292 | 5.682 | | | |
| | | | 80 | 11.296 | 5.686 | | | |
| | | | 90 | 11.297 | 5.687 | | | |
| | | | 100 | 11.295 | 5.685 | | | |
| | | | 110 | 11.295 | 5.685 | | | |
| | 21:10 | 2 | 120 | 11.295 | 5.685 | 84.7 | 7.11 | 0.033 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 21 Feb 2001

STEP No. : 10/10

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1 Well Depth: 274.00 m, Well Diameter: ϕ 355.60 mm

Screen Depth(s): 12.5-215.75, 227.75-231.0, 237.0-240.25, 246.25-249.5, 255.5-258.75, 264.75-268 m

Static Groundwater Level: GL- 5.61 m Screen Length: 19.50 m

Pump Type: Submersible Pump

Pump Setting: 30.87 m, Discharge (Q): 1144.4 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 21/02/2001 | 21:10 | | 0 | 11.295 | 5.685 | | | |
| | | | 1 | 9.829 | 4.219 | | | |
| | | | 2 | 9.870 | 4.260 | | | |
| | | | 4 | 9.856 | 4.246 | | | |
| | | | 6 | 9.855 | 4.245 | | | |
| | | | 8 | 9.855 | 4.245 | | | |
| | | | 10 | 9.855 | 4.245 | 85.0 | 7.11 | 0.034 |
| | | | 12 | 9.855 | 4.245 | | | |
| | | | 14 | 9.860 | 4.250 | | | |
| | | | 16 | 9.861 | 4.251 | | | |
| | | | 18 | 9.860 | 4.250 | | | |
| | | | 20 | 9.853 | 4.243 | | | |
| | | | 25 | 9.854 | 4.244 | | | |
| | | | 30 | 9.854 | 4.244 | | | |
| | | | 35 | 9.854 | 4.244 | | | |
| | | | 40 | 9.854 | 4.244 | | | |
| | | | 45 | 9.854 | 4.244 | | | |
| | | | 50 | 9.854 | 4.244 | | | |
| | | | 55 | 9.855 | 4.245 | | | |
| | | 1 | 60 | 9.850 | 4.240 | 86.0 | 7.13 | 0.039 |
| | | | 70 | 9.849 | 4.239 | | | |
| | | | 80 | 9.849 | 4.239 | | | |
| | | | 90 | 9.848 | 4.238 | | | |
| | | | 100 | 9.848 | 4.238 | | | |
| | | | 110 | 9.842 | 4.232 | | | |
| | 23:10 | 2 | 120 | 9.842 | 4.232 | 85.2 | 7.13 | 0.040 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (Ch-1) DATA SHEET No. : 1/2**

Date: 22 Feb 2001

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1 Well Depth: 274.00 m, Well Diameter: ϕ 355.60 mm
Screen Depth(s): 12.5-215.75, 227.75-231.0, 237.0-240.25, 246.25-249.5, 255.5-258.75, 264.75-268 m
Static Groundwater Level: GL- 6.258 m Screen Length: 19.50 m
Pump Type: Submersible Pump
Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 22/02/2001 | 9:00 | | 1 | 22.752 | 16.494 | | | |
| | | | 2 | 23.524 | 17.266 | | | |
| | | | 3 | 23.613 | 17.355 | | | |
| | | | 4 | 23.642 | 17.384 | | | |
| | | | 5 | 23.653 | 17.395 | 86.1 | 7.11 | 0.035 |
| | | | 6 | 23.630 | 17.372 | | | |
| | | | 8 | 23.603 | 17.345 | | | |
| | | | 10 | 23.576 | 17.318 | | | |
| | | | 15 | 23.536 | 17.278 | | | |
| | | | 20 | 23.503 | 17.245 | | | |
| | | | 25 | 23.476 | 17.218 | | | |
| | | | 30 | 23.448 | 17.190 | | | |
| | | | 35 | 23.429 | 17.171 | | | |
| | | | 40 | 23.400 | 17.142 | | | |
| | | | 45 | 23.395 | 17.137 | | | |
| | | | 50 | 23.378 | 17.120 | | | |
| | | | 55 | 23.369 | 17.111 | | | |
| | 10:00 | 1 | 60 | 23.362 | 17.104 | 90.0 | 7.09 | 0.039 |
| | | | 70 | 23.351 | 17.093 | | | |
| | | | 80 | 23.335 | 17.077 | | | |
| | | | 90 | 23.326 | 17.068 | | | |
| | | | 100 | 23.312 | 17.054 | | | |
| | | | 110 | 23.300 | 17.042 | | | |
| | 11:00 | 2 | 120 | 23.281 | 17.023 | | | |
| | | | 140 | 23.268 | 17.010 | | | |
| | | | 160 | 23.251 | 16.993 | | | |
| | 12:00 | 3 | 180 | 23.233 | 16.975 | 88.3 | 7.02 | 0.039 |
| | | | 210 | 23.218 | 16.960 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (Ch-1) DATA SHEET No. : 2/2**

Date: 22 Feb 2001

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1 Well Depth: 274.00 m, Well Diameter: ϕ 355.60 mm

Screen Depth(s): 12.5-215.75, 227.75-231.0, 237.0-240.25, 246.25-249.5, 255.5-258.75, 264.75-268 m

Static Groundwater Level: GL- 6.258 m Screen Length: 19.50 m

Pump Type: Submersible Pump

Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 22/02/2001 | 13:00 | 4 | 240 | 23.200 | 16.942 | | | |
| | | | 270 | 23.178 | 16.920 | | | |
| | 14:00 | 5 | 300 | 23.104 | 16.846 | | | |
| | | | 330 | 23.188 | 16.930 | | | |
| | 15:00 | 6 | 360 | 23.115 | 16.857 | 87.0 | 7.50 | 0.039 |
| | 16:00 | 7 | 420 | 23.112 | 16.854 | | | |
| | 17:00 | 8 | 480 | 23.112 | 16.854 | | | |
| | 18:00 | 9 | 540 | 23.160 | 16.902 | 81.6 | 6.88 | 0.040 |
| | 19:00 | 10 | 600 | 23.222 | 16.964 | | | |
| | 20:00 | 11 | 660 | 23.258 | 17.000 | | | |
| | 21:00 | 12 | 720 | 23.263 | 17.005 | 85.4 | 7.01 | 0.040 |
| | 22:00 | 13 | 780 | 23.270 | 17.012 | | | |
| | 23:00 | 14 | 840 | 23.271 | 17.013 | | | |
| 23/02/2001 | 0:00 | 15 | 900 | 23.265 | 17.007 | 86.1 | 7.07 | 0.037 |
| | 1:00 | 16 | 960 | 23.271 | 17.013 | | | |
| | 3:00 | 18 | 1080 | 23.261 | 17.003 | 86.0 | 7.05 | 0.035 |
| | 5:00 | 20 | 1200 | 23.255 | 16.997 | | | |
| | 6:00 | 21 | 1260 | 23.255 | 16.997 | 86.5 | 7.05 | 0.036 |
| | 7:00 | 22 | 1320 | 23.250 | 16.992 | | | |
| | 9:00 | 24 | 1440 | 23.178 | 16.920 | 86.2 | 7.13 | 0.041 |
| | 12:00 | 27 | 1620 | 23.030 | 16.772 | 86.6 | 7.09 | 0.042 |
| | 15:00 | 30 | 1800 | 22.960 | 16.702 | 85.2 | 7.06 | 0.036 |
| | 18:00 | 33 | 1980 | 23.032 | 16.774 | 85.6 | 6.94 | 0.039 |
| | 21:00 | 36 | 2160 | 23.151 | 16.893 | 86.5 | 6.96 | 0.040 |
| 24/02/2001 | 0:00 | 39 | 2340 | 23.150 | 16.892 | 85.8 | 7.02 | 0.038 |
| | 3:00 | 42 | 2520 | 23.145 | 16.887 | 86.9 | 7.02 | 0.026 |
| | 6:00 | 45 | 2700 | 23.080 | 16.822 | 86.2 | 7.02 | 0.031 |
| | 9:00 | 48 | 2880 | 23.058 | 16.800 | 85.4 | 7.03 | 0.032 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

**CONTINUOUS PUMPING TEST DATA SHEET
OBS. HOLE (Ch-1-1) DATA SHEET No. : 1/2**

Date: 22 Feb 2001

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1-1 Well Depth: 63.00 m, Well Diameter: ϕ 100.00 mm
Screen Depth(s): 54.00-60.00 m
Static Groundwater Level: GL- 6.061 m Screen Length: 6.00 m
Distance from Pumped Well: 5.00 m
Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day at Ch-1 Well

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 22/02/2001 | 9:00 | | 1 | 6.061 | 0.000 | | | |
| | | | 2 | 6.061 | 0.000 | | | |
| | | | 3 | 6.061 | 0.000 | | | |
| | | | 4 | 6.061 | 0.000 | | | |
| | | | 5 | 6.061 | 0.000 | | | |
| | | | 6 | 6.067 | 0.006 | | | |
| | | | 8 | 6.068 | 0.007 | | | |
| | | | 10 | 6.068 | 0.007 | | | |
| | | | 15 | 6.075 | 0.014 | | | |
| | | | 20 | 6.072 | 0.011 | | | |
| | | | 25 | 6.079 | 0.018 | | | |
| | | | 30 | 6.077 | 0.016 | | | |
| | | | 35 | 6.080 | 0.019 | | | |
| | | | 40 | 6.082 | 0.021 | | | |
| | | | 45 | 6.085 | 0.024 | | | |
| | | | 50 | 6.082 | 0.021 | | | |
| | | | 55 | 6.090 | 0.029 | | | |
| | 10:00 | 1 | 60 | 6.090 | 0.029 | | | |
| | | | 70 | 6.095 | 0.034 | | | |
| | | | 80 | 6.099 | 0.038 | | | |
| | | | 90 | 6.100 | 0.039 | | | |
| | | | 100 | 6.101 | 0.040 | | | |
| | | | 110 | 6.105 | 0.044 | | | |
| | 11:00 | 2 | 120 | 6.102 | 0.041 | | | |
| | | | 140 | 6.106 | 0.045 | | | |
| | | | 160 | 6.110 | 0.049 | | | |
| | 12:00 | 3 | 180 | 6.110 | 0.049 | | | |
| | | | 210 | 6.110 | 0.049 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

**CONTINUOUS PUMPING TEST DATA SHEET
OBS. HOLE (Ch-1-1) DATA SHEET No. : 2/2**

Date: 22 Feb 2001

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1-1 Well Depth: 63.00 m, Well Diameter: ϕ 100.00 mm

Screen Depth(s): 54.00-60.00 m

Static Groundwater Level: GL- 6.061 m Screen Length: 6.00 m

Distance from Pumped Well: 5.00 m

Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day at Ch-1 Well

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|------------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 22/02/2001 | 13:00 | 4 | 240 | 6.112 | 0.051 | | | |
| | | | 270 | 6.112 | 0.051 | | | |
| | 14:00 | 5 | 300 | 6.102 | 0.041 | | | |
| | | | 330 | 6.115 | 0.054 | | | |
| | 15:00 | 6 | 360 | 6.115 | 0.054 | | | |
| | | 16:00 | 7 | 420 | 6.125 | 0.064 | | |
| | 17:00 | 8 | 480 | 6.125 | 0.064 | | | |
| | 18:00 | 9 | 540 | 6.132 | 0.071 | | | |
| | 19:00 | 10 | 600 | 6.141 | 0.080 | | | |
| | 20:00 | 11 | 660 | 6.135 | 0.074 | | | |
| | 21:00 | 12 | 720 | 6.125 | 0.064 | | | |
| | 22:00 | 13 | 780 | 6.135 | 0.074 | | | |
| | 23:00 | 14 | 840 | 6.122 | 0.061 | | | |
| | 23/02/2001 | 0:00 | 15 | 900 | 6.125 | 0.064 | | |
| 1:00 | | 16 | 960 | 6.121 | 0.060 | | | |
| 3:00 | | 18 | 1080 | 6.131 | 0.070 | | | |
| 5:00 | | 20 | 1200 | 6.115 | 0.054 | | | |
| 7:00 | | 22 | 1320 | 6.110 | 0.049 | | | |
| 9:00 | | 24 | 1440 | 6.110 | 0.049 | | | |
| 12:00 | | 27 | 1620 | 6.135 | 0.074 | | | |
| 15:00 | | 30 | 1800 | 6.130 | 0.069 | | | |
| 18:00 | | 33 | 1980 | 6.155 | 0.094 | | | |
| 21:00 | | 36 | 2160 | 6.135 | 0.074 | | | |
| 24/02/2001 | 0:00 | 39 | 2340 | 6.115 | 0.054 | | | |
| | 3:00 | 42 | 2520 | 6.115 | 0.054 | | | |
| | 6:00 | 45 | 2700 | 6.080 | 0.019 | | | |
| | 9:00 | 48 | 2880 | 6.100 | 0.039 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

**CONTINUOUS PUMPING TEST DATA SHEET
OBS. HOLE (Ch-1-2) DATA SHEET No. : 1/2**

Date: 22 Feb 2001

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1-2 Well Depth: 120.00 m, Well Diameter: ϕ 100.00 mm

Screen Depth(s): 100-120 m

Static Groundwater Level: GL- 6.057 m Screen Length: 20.00 m

Distance from Pumped Well: 5.00 m

Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day at Ch-1 Well

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 22/02/2001 | 9:00 | | 1 | 6.057 | 0.000 | | | |
| | | | 2 | 6.057 | 0.000 | | | |
| | | | 3 | 6.057 | 0.000 | | | |
| | | | 4 | 6.057 | 0.000 | | | |
| | | | 5 | 6.057 | 0.000 | | | |
| | | | 6 | 6.060 | 0.003 | | | |
| | | | 8 | 6.060 | 0.003 | | | |
| | | | 10 | 6.061 | 0.004 | | | |
| | | | 15 | 6.070 | 0.013 | | | |
| | | | 20 | 6.071 | 0.014 | | | |
| | | | 25 | 6.068 | 0.011 | | | |
| | | | 30 | 6.075 | 0.018 | | | |
| | | | 35 | 6.074 | 0.017 | | | |
| | | | 40 | 6.075 | 0.018 | | | |
| | | | 45 | 6.083 | 0.026 | | | |
| | | | 50 | 6.080 | 0.023 | | | |
| | | | 55 | 6.082 | 0.025 | | | |
| | 10:00 | 1 | 60 | 6.088 | 0.031 | | | |
| | | | 70 | 6.086 | 0.029 | | | |
| | | | 80 | 6.088 | 0.031 | | | |
| | | | 90 | 6.092 | 0.035 | | | |
| | | | 100 | 6.100 | 0.043 | | | |
| | | | 110 | 6.102 | 0.045 | | | |
| | 11:00 | 2 | 120 | 6.094 | 0.037 | | | |
| | | | 140 | 6.100 | 0.043 | | | |
| | | | 160 | 6.102 | 0.045 | | | |
| | 12:00 | 3 | 180 | 6.102 | 0.045 | | | |
| | | | 210 | 6.104 | 0.047 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

**CONTINUOUS PUMPING TEST DATA SHEET
OBS. HOLE (Ch-1-2) DATA SHEET No. : 2/2**

Date: 22 Feb 2001

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
 GPS Reading: 88°51'02" E, 23°39'22" N
 Well No.: Ch-1-2 Well Depth: 120.00 m, Well Diameter: ϕ 100.00 mm
 Screen Depth(s): 100-120 m
 Static Groundwater Level: GL- 6.057 m Screen Length: 20.00 m
 Distance from Pumped Well: 5.00 m
 Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day at Ch-1 Well

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 22/02/2001 | 13:00 | 4 | 240 | 6.114 | 0.057 | | | |
| | | | 270 | 6.105 | 0.048 | | | |
| | 14:00 | 5 | 300 | 6.110 | 0.053 | | | |
| | | | 330 | 6.122 | 0.065 | | | |
| | 15:00 | 6 | 360 | 6.115 | 0.058 | | | |
| | 16:00 | 7 | 420 | 6.105 | 0.048 | | | |
| | 17:00 | 8 | 480 | 6.105 | 0.048 | | | |
| | 18:00 | 9 | 540 | 6.120 | 0.063 | | | |
| | 19:00 | 10 | 600 | 6.131 | 0.074 | | | |
| | 20:00 | 11 | 660 | 6.130 | 0.073 | | | |
| | 21:00 | 12 | 720 | 6.115 | 0.058 | | | |
| | 22:00 | 13 | 780 | 6.125 | 0.068 | | | |
| | 23:00 | 14 | 840 | 6.110 | 0.053 | | | |
| 23/02/2001 | 0:00 | 15 | 900 | 6.110 | 0.053 | | | |
| | 1:00 | 16 | 960 | 6.110 | 0.053 | | | |
| | 3:00 | 18 | 1080 | 6.108 | 0.051 | | | |
| | 5:00 | 20 | 1200 | 6.100 | 0.043 | | | |
| | 7:00 | 22 | 1320 | 6.095 | 0.038 | | | |
| | 9:00 | 24 | 1440 | 6.110 | 0.053 | | | |
| | 12:00 | 27 | 1620 | 6.122 | 0.065 | | | |
| | 15:00 | 30 | 1800 | 6.115 | 0.058 | | | |
| | 18:00 | 33 | 1980 | 6.123 | 0.066 | | | |
| | 21:00 | 36 | 2160 | 6.120 | 0.063 | | | |
| 24/02/2001 | 0:00 | 39 | 2340 | 6.115 | 0.058 | | | |
| | 3:00 | 42 | 2520 | 6.112 | 0.055 | | | |
| | 6:00 | 45 | 2700 | 6.098 | 0.041 | | | |
| | 9:00 | 48 | 2880 | 6.110 | 0.053 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

CONTINUOUS PUMPING TEST DATA SHEET

Date: 22 Feb 2001

OBS. HOLE (Ch-1-3) DATA SHEET No. : 1/2

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1-3 Well Depth: 168.00 m, Well Diameter: ϕ 100.00 mm

Screen Depth(s): 150-162 m

Static Groundwater Level: GL- 5.715 m Screen Length: 12.00 m

Distance from Pumped Well: 5.00 m

Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day at Ch-1 Well

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 22/02/2001 | 9:00 | | 1 | 5.730 | 0.015 | | | |
| | | | 2 | 5.740 | 0.025 | | | |
| | | | 3 | 5.745 | 0.030 | | | |
| | | | 4 | 5.730 | 0.015 | | | |
| | | | 5 | 5.735 | 0.020 | | | |
| | | | 6 | 5.740 | 0.025 | | | |
| | | | 8 | 5.730 | 0.015 | | | |
| | | | 10 | 5.730 | 0.015 | | | |
| | | | 15 | 5.739 | 0.024 | | | |
| | | | 20 | 5.740 | 0.025 | | | |
| | | | 25 | 5.749 | 0.034 | | | |
| | | | 30 | 5.748 | 0.033 | | | |
| | | | 35 | 5.755 | 0.040 | | | |
| | | | 40 | 5.760 | 0.045 | | | |
| | | | 45 | 5.765 | 0.050 | | | |
| | | | 50 | 5.760 | 0.045 | | | |
| | | | 55 | 5.762 | 0.047 | | | |
| | 10:00 | 1 | 60 | 5.765 | 0.050 | | | |
| | | | 70 | 5.768 | 0.053 | | | |
| | | | 80 | 5.771 | 0.056 | | | |
| | | | 90 | 5.770 | 0.055 | | | |
| | | | 100 | 5.771 | 0.056 | | | |
| | | | 110 | 5.771 | 0.056 | | | |
| | 11:00 | 2 | 120 | 5.773 | 0.058 | | | |
| | | | 140 | 5.778 | 0.063 | | | |
| | | | 160 | 5.778 | 0.063 | | | |
| | 12:00 | 3 | 180 | 5.770 | 0.055 | | | |
| | | | 210 | 5.781 | 0.066 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

CONTINUOUS PUMPING TEST DATA SHEET
OBS. HOLE (Ch-1-3) DATA SHEET No. : 1/2

Date: 22 Feb 2001

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
GPS Reading: 88°51'02" E, 23°39'22" N
Well No.: Ch-1-3 Well Depth: 168.00 m, Well Diameter: ϕ 100.00 mm
Screen Depth(s): 150-162 m
Static Groundwater Level: GL- 5.715 m Screen Length: 12.00 m
Distance from Pumped Well: 5.00 m
Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day at Ch-1 Well

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 22/02/2001 | 13:00 | 4 | 240 | 5.782 | 0.067 | | | |
| | | | 270 | 5.785 | 0.070 | | | |
| | 14:00 | 5 | 300 | 5.785 | 0.070 | | | |
| | | | 330 | 5.783 | 0.068 | | | |
| | 15:00 | 6 | 360 | 5.780 | 0.065 | | | |
| | 16:00 | 7 | 420 | 5.791 | 0.076 | | | |
| | 17:00 | 8 | 480 | 5.800 | 0.085 | | | |
| | 18:00 | 9 | 540 | 5.803 | 0.088 | | | |
| | 19:00 | 10 | 600 | 5.810 | 0.095 | | | |
| | 20:00 | 11 | 660 | 5.810 | 0.095 | | | |
| | 21:00 | 12 | 720 | 5.802 | 0.087 | | | |
| | 22:00 | 13 | 780 | 5.800 | 0.085 | | | |
| | 23:00 | 14 | 840 | 5.800 | 0.085 | | | |
| 23/02/2001 | 0:00 | 15 | 900 | 5.827 | 0.112 | | | |
| | 1:00 | 16 | 960 | 5.790 | 0.075 | | | |
| | 3:00 | 18 | 1080 | 5.801 | 0.086 | | | |
| | 5:00 | 20 | 1200 | 5.795 | 0.080 | | | |
| | 7:00 | 22 | 1320 | 5.780 | 0.065 | | | |
| | 9:00 | 24 | 1440 | 5.795 | 0.080 | | | |
| | 12:00 | 27 | 1620 | 5.805 | 0.090 | | | |
| | 15:00 | 30 | 1800 | 5.800 | 0.085 | | | |
| | 18:00 | 33 | 1980 | 5.803 | 0.088 | | | |
| | 21:00 | 36 | 2160 | 5.803 | 0.088 | | | |
| 24/02/2001 | 0:00 | 39 | 2340 | 5.803 | 0.088 | | | |
| | 3:00 | 42 | 2520 | 5.800 | 0.085 | | | |
| | 6:00 | 45 | 2700 | 5.797 | 0.082 | | | |
| | 9:00 | 48 | 2880 | 5.800 | 0.085 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

CONTINUOUS PUMPING TEST DATA SHEET

Date: 22 Feb 2001

OBS. HOLE (Ch-1-4) DATA SHEET No. : 1/2

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1-4 Well Depth: 300.00 m, Well Diameter: ϕ 100.00 mm

Screen Depth(s): 228-267, 291-294 m

Static Groundwater Level: GL- 5.985 m Screen Length: 42.00 m

Distance from Pumped Well: 5.00 m

Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day at Ch-1 Well

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 22/02/2001 | 9:00 | | 1 | 6.090 | 0.105 | | | |
| | | | 2 | 6.159 | 0.174 | | | |
| | | | 3 | | | | | |
| | | | 4 | | | | | |
| | | | 5 | 6.308 | 0.323 | | | |
| | | | 6 | 6.308 | 0.323 | | | |
| | | | 8 | 6.316 | 0.331 | | | |
| | | | 10 | 6.348 | 0.363 | | | |
| | | | 15 | 6.385 | 0.400 | | | |
| | | | 20 | 6.399 | 0.414 | | | |
| | | | 25 | 6.405 | 0.420 | | | |
| | | | 30 | 6.416 | 0.431 | | | |
| | | | 35 | 6.423 | 0.438 | | | |
| | | | 40 | 6.432 | 0.447 | | | |
| | | | 45 | 6.432 | 0.447 | | | |
| | | | 50 | 6.435 | 0.450 | | | |
| | | | 55 | 6.445 | 0.460 | | | |
| | 10:00 | 1 | 60 | 6.444 | 0.459 | | | |
| | | | 70 | 6.448 | 0.463 | | | |
| | | | 80 | 6.453 | 0.468 | | | |
| | | | 90 | 6.455 | 0.470 | | | |
| | | | 100 | 6.457 | 0.472 | | | |
| | | | 110 | 6.458 | 0.473 | | | |
| | 11:00 | 2 | 120 | 6.461 | 0.476 | | | |
| | | | 140 | 6.465 | 0.480 | | | |
| | | | 160 | 6.470 | 0.485 | | | |
| | 12:00 | 3 | 180 | 6.470 | 0.485 | | | |
| | | | 210 | 6.469 | 0.484 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

**CONTINUOUS PUMPING TEST DATA SHEET
OBS. HOLE (Ch-1-4) DATA SHEET No. : 1/2**

Date: 22 Feb 2001

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
 GPS Reading: 88°51'02" E, 23°39'22" N
 Well No.: Ch-1-4 Well Depth: 300.00 m, Well Diameter: ϕ 100.00 mm
 Screen Depth(s): 228-267, 291-294 m
 Static Groundwater Level: GL- 5.985 m Screen Length: 42.00 m
 Distance from Pumped Well: 5.00 m
 Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day at Ch-1 Well

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 22/02/2001 | 13:00 | 4 | 240 | 6.469 | 0.484 | | | |
| | | | 270 | 6.465 | 0.480 | | | |
| | 14:00 | 5 | 300 | 6.465 | 0.480 | | | |
| | | | 330 | 6.475 | 0.490 | | | |
| | 15:00 | 6 | 360 | 6.469 | 0.484 | | | |
| | 16:00 | 7 | 420 | 6.461 | 0.476 | | | |
| | 17:00 | 8 | 480 | 6.470 | 0.485 | | | |
| | 18:00 | 9 | 540 | 6.480 | 0.495 | | | |
| | 19:00 | 10 | 600 | 6.480 | 0.495 | | | |
| | 20:00 | 11 | 660 | 6.489 | 0.504 | | | |
| | 21:00 | 12 | 720 | 6.488 | 0.503 | | | |
| | 22:00 | 13 | 780 | 6.485 | 0.500 | | | |
| | 23:00 | 14 | 840 | 6.485 | 0.500 | | | |
| 23/02/2001 | 0:00 | 15 | 900 | 6.475 | 0.490 | | | |
| | 1:00 | 16 | 960 | 6.476 | 0.491 | | | |
| | 3:00 | 18 | 1080 | 6.511 | 0.526 | | | |
| | 5:00 | 20 | 1200 | 6.485 | 0.500 | | | |
| | 7:00 | 22 | 1320 | 6.478 | 0.493 | | | |
| | 9:00 | 24 | 1440 | 6.475 | 0.490 | | | |
| | 12:00 | 27 | 1620 | 6.510 | 0.525 | | | |
| | 15:00 | 30 | 1800 | 6.510 | 0.525 | | | |
| | 18:00 | 33 | 1980 | 6.509 | 0.524 | | | |
| | 21:00 | 36 | 2160 | 6.509 | 0.524 | | | |
| 24/02/2001 | 0:00 | 39 | 2340 | 6.509 | 0.524 | | | |
| | 3:00 | 42 | 2520 | 6.483 | 0.498 | | | |
| | 6:00 | 45 | 2700 | 6.470 | 0.485 | | | |
| | 9:00 | 48 | 2880 | 6.480 | 0.495 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

RECOVERY TEST DATA SHEET

Date: 24 Feb 2001

PUMPED WELL (Ch-1) DATA SHEET No. : 1/1

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1 Well Depth: 274.00 m, Well Diameter: ϕ 355.60 mm
Screen Depth(s): 12.5-215.75, 227.75-231.0, 237.0-240.25, 246.25-249.5, 255.5-258.75, 264.75-268 m
Static Groundwater Level: GL- 6.258 m Screen Length: 19.50 m
Pump Type: Submersible Pump
Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day

| Date | Time | Time since Pumping Stopped, [t'] | | Time since Pumping Started [t] (min) | Time Ratio [t/t'] | Water Level (GL - m) | Residual Drawdown [s] (m) |
|------------|-------|----------------------------------|-------|--------------------------------------|-------------------|----------------------|---------------------------|
| | | (hour) | (min) | | | | |
| 24/02/2001 | 9:00 | | 1 | 2881 | 2881.000 | 7.135 | 0.877 |
| | | | 2 | 2882 | 1441.000 | 6.355 | 0.097 |
| | | | 4 | 2884 | 721.000 | 6.429 | 0.171 |
| | | | 6 | 2886 | 481.000 | 6.391 | 0.133 |
| | | | 8 | 2888 | 361.000 | 6.370 | 0.112 |
| | | | 10 | 2890 | 289.000 | 6.358 | 0.100 |
| | | | 12 | 2892 | 241.000 | 6.345 | 0.087 |
| | | | 14 | 2894 | 206.714 | 6.337 | 0.079 |
| | | | 16 | 2896 | 181.000 | 6.326 | 0.068 |
| | | | 18 | 2898 | 161.000 | 6.325 | 0.067 |
| | | | 20 | 2900 | 145.000 | 6.322 | 0.064 |
| | | | 25 | 2905 | 116.200 | 6.321 | 0.063 |
| | | | 30 | 2910 | 97.000 | 6.305 | 0.047 |
| | | | 35 | 2915 | 83.286 | 6.301 | 0.043 |
| | | | 40 | 2920 | 73.000 | 6.298 | 0.040 |
| | | | 45 | 2925 | 65.000 | 6.295 | 0.037 |
| | | | 50 | 2930 | 58.600 | 6.293 | 0.035 |
| | 10:00 | 1 | 60 | 2940 | 49.000 | 6.290 | 0.032 |
| | | | 70 | 2950 | 42.143 | 6.289 | 0.031 |
| | | | 80 | 2960 | 37.000 | 6.287 | 0.029 |
| | | | 90 | 2970 | 33.000 | 6.286 | 0.028 |
| | | | 100 | 2980 | 29.800 | 6.284 | 0.026 |
| | | | 110 | 2990 | 27.182 | 6.283 | 0.025 |
| | 11:00 | 2 | 120 | 3000 | 25.000 | 6.282 | 0.024 |
| | | | 150 | 3030 | 20.200 | 6.280 | 0.022 |
| | 12:00 | 3 | 180 | 3060 | 17.000 | 6.277 | 0.019 |
| | | | 210 | 3090 | 14.714 | 6.273 | 0.015 |
| | 13:00 | 4 | 240 | 3120 | 13.000 | 6.272 | 0.014 |
| | | | 270 | 3150 | 11.667 | 6.272 | 0.014 |
| | 14:00 | 5 | 300 | 3180 | 10.600 | 6.271 | 0.013 |
| | | | 330 | 3210 | 9.727 | 6.271 | 0.013 |
| | 15:00 | 6 | 360 | 3240 | 9.000 | 6.277 | 0.019 |
| | | | 390 | 3270 | 8.385 | 6.279 | 0.021 |
| | 16:00 | 7 | 420 | 3300 | 7.857 | 6.285 | 0.027 |
| | | | 450 | 3330 | 7.400 | 6.290 | 0.032 |
| | 17:00 | 8 | 480 | 3360 | 7.000 | 6.298 | 0.040 |
| | 18:00 | 9 | 540 | 3420 | 6.333 | 6.310 | 0.052 |
| | 19:00 | 10 | 600 | 3480 | 5.800 | 6.318 | 0.060 |
| | 20:00 | 11 | 660 | 3540 | 5.364 | 6.312 | 0.054 |
| | 21:00 | 12 | 720 | 3600 | 5.000 | 6.310 | 0.052 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

RECOVERY TEST DATA SHEET

Date: 24 Feb 2001

OBS. HOLE (Ch-1-1) DATA SHEET No. : 1/1

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1-1 Well Depth: 63.00 m, Well Diameter: ϕ 100.00 mm

Screen Depth(s): 54.0-60.0 m

Static Groundwater Level: GL- 6.061 m Screen Length: 6.00 m

Distance from Pumped Well: 5.00 m

Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day at Ch-1 Well

| Date | Time | Time since Pumping Stopped, [t'] | | Time since Pumping Started [t] | Time Ratio [t/t'] | Water Level (GL - m) | Residual Drawdown [s'] (m) |
|------------|-------|----------------------------------|-------|--------------------------------|-------------------|----------------------|----------------------------|
| | | (hour) | (min) | | | | |
| 24/02/2001 | 9:00 | | 1 | 2881 | 2881.000 | 6.116 | 0.055 |
| | | | 2 | 2882 | 1441.000 | 6.116 | 0.055 |
| | | | 4 | 2884 | 721.000 | 6.115 | 0.054 |
| | | | 6 | 2886 | 481.000 | 6.115 | 0.054 |
| | | | 8 | 2888 | 361.000 | 6.115 | 0.054 |
| | | | 10 | 2890 | 289.000 | 6.114 | 0.053 |
| | | | 12 | 2892 | 241.000 | 6.113 | 0.052 |
| | | | 14 | 2894 | 206.714 | 6.113 | 0.052 |
| | | | 16 | 2896 | 181.000 | 6.113 | 0.052 |
| | | | 18 | 2898 | 161.000 | 6.112 | 0.051 |
| | | | 20 | 2900 | 145.000 | 6.111 | 0.050 |
| | | | 25 | 2905 | 116.200 | 6.109 | 0.048 |
| | | | 30 | 2910 | 97.000 | 6.108 | 0.047 |
| | | | 35 | 2915 | 83.286 | 6.106 | 0.045 |
| | | | 40 | 2920 | 73.000 | 6.105 | 0.044 |
| | | | 50 | 2930 | 58.600 | 6.104 | 0.043 |
| | 10:00 | 1 | 60 | 2940 | 49.000 | 6.102 | 0.041 |
| | | | 70 | 2950 | 42.143 | 6.100 | 0.039 |
| | | | 80 | 2960 | 37.000 | 6.090 | 0.029 |
| | | | 90 | 2970 | 33.000 | 6.090 | 0.029 |
| | | | 100 | 2980 | 29.800 | 6.090 | 0.029 |
| | | | 110 | 2990 | 27.182 | 6.089 | 0.028 |
| | 11:00 | 2 | 120 | 3000 | 25.000 | 6.088 | 0.027 |
| | | | 150 | 3030 | 20.200 | 6.085 | 0.024 |
| | 12:00 | 3 | 180 | 3060 | 17.000 | 6.078 | 0.017 |
| | | | 210 | 3090 | 14.714 | 6.078 | 0.017 |
| | 13:00 | 4 | 240 | 3120 | 13.000 | 6.078 | 0.017 |
| | | | 270 | 3150 | 11.667 | 6.078 | 0.017 |
| | 14:00 | 5 | 300 | 3180 | 10.600 | 6.078 | 0.017 |
| | | | 330 | 3210 | 9.727 | 6.085 | 0.024 |
| | 15:00 | 6 | 360 | 3240 | 9.000 | 6.090 | 0.029 |
| | | | 390 | 3270 | 8.385 | 6.094 | 0.033 |
| | 16:00 | 7 | 420 | 3300 | 7.857 | 6.097 | 0.036 |
| | | | 450 | 3330 | 7.400 | 6.108 | 0.047 |
| | 17:00 | 8 | 480 | 3360 | 7.000 | 6.111 | 0.050 |
| | 18:00 | 9 | 540 | 3420 | 6.333 | 6.120 | 0.059 |
| | 19:00 | 10 | 600 | 3480 | 5.800 | 6.120 | 0.059 |
| | 20:00 | 11 | 660 | 3540 | 5.364 | 6.115 | 0.054 |
| | 21:00 | 12 | 720 | 3600 | 5.000 | 6.112 | 0.051 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

RECOVERY TEST DATA SHEET

Date: 24 Feb 2001

OBS. HOLE (Ch-1-2) DATA SHEET No. : 1/1

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
 GPS Reading: 88°51'02" E, 23°39'22" N
 Well No.: Ch-1-2 Well Depth: 120.00 m, Well Diameter: ϕ 100.00 mm
 Screen Depth(s): 100-120 m
 Static Groundwater Level: GL- 6.057 m Screen Length: 20.00 m
 Distance from Pumped Well: 5.00 m
 Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day at Ch-1 Well

| Date | Time | Time since Pumping Stopped, [t'] | | Time since Pumping Started [t] | Time Ratio [t/t'] | Water Level (GL - m) | Residual Drawdown [s'] (m) |
|------------|-------|----------------------------------|-------|--------------------------------|-------------------|----------------------|----------------------------|
| | | (hour) | (min) | | | | |
| 24/02/2001 | 9:00 | | 1 | 2881 | 2881.000 | 6.108 | 0.051 |
| | | | 2 | 2882 | 1441.000 | 6.108 | 0.051 |
| | | | 4 | 2884 | 721.000 | 6.107 | 0.050 |
| | | | 6 | 2886 | 481.000 | 6.107 | 0.050 |
| | | | 8 | 2888 | 361.000 | 6.107 | 0.050 |
| | | | 10 | 2890 | 289.000 | 6.105 | 0.048 |
| | | | 12 | 2892 | 241.000 | 6.103 | 0.046 |
| | | | 14 | 2894 | 206.714 | 6.102 | 0.045 |
| | | | 16 | 2896 | 181.000 | 6.102 | 0.045 |
| | | | 18 | 2898 | 161.000 | 6.102 | 0.045 |
| | | | 20 | 2900 | 145.000 | 6.102 | 0.045 |
| | | | 25 | 2905 | 116.200 | 6.098 | 0.041 |
| | | | 30 | 2910 | 97.000 | 6.097 | 0.040 |
| | | | 35 | 2915 | 83.286 | 6.095 | 0.038 |
| | | | 40 | 2920 | 73.000 | 6.094 | 0.037 |
| | | | 50 | 2930 | 58.600 | 6.092 | 0.035 |
| | 10:00 | 1 | 60 | 2940 | 49.000 | 6.091 | 0.034 |
| | | | 70 | 2950 | 42.143 | 6.090 | 0.033 |
| | | | 80 | 2960 | 37.000 | 6.089 | 0.032 |
| | | | 90 | 2970 | 33.000 | 6.088 | 0.031 |
| | | | 100 | 2980 | 29.800 | 6.086 | 0.029 |
| | | | 110 | 2990 | 27.182 | 6.085 | 0.028 |
| | 11:00 | 2 | 120 | 3000 | 25.000 | 6.084 | 0.027 |
| | | | 150 | 3030 | 20.200 | 6.084 | 0.027 |
| | 12:00 | 3 | 180 | 3060 | 17.000 | 6.081 | 0.024 |
| | | | 210 | 3090 | 14.714 | 6.080 | 0.023 |
| | 13:00 | 4 | 240 | 3120 | 13.000 | 6.080 | 0.023 |
| | | | 270 | 3150 | 11.667 | 6.080 | 0.023 |
| | 14:00 | 5 | 300 | 3180 | 10.600 | 6.079 | 0.022 |
| | | | 330 | 3210 | 9.727 | 6.096 | 0.039 |
| | 15:00 | 6 | 360 | 3240 | 9.000 | 6.093 | 0.036 |
| | | | 390 | 3270 | 8.385 | 6.097 | 0.040 |
| | 16:00 | 7 | 420 | 3300 | 7.857 | 6.099 | 0.042 |
| | | | 450 | 3330 | 7.400 | 6.107 | 0.050 |
| | 17:00 | 8 | 480 | 3360 | 7.000 | 6.120 | 0.063 |
| | 18:00 | 9 | 540 | 3420 | 6.333 | 6.121 | 0.064 |
| | 19:00 | 10 | 600 | 3480 | 5.800 | 6.111 | 0.054 |
| | 20:00 | 11 | 660 | 3540 | 5.364 | 6.120 | 0.063 |
| | 21:00 | 12 | 720 | 3600 | 5.000 | 6.115 | 0.058 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

RECOVERY TEST DATA SHEET

Date: 24 Feb 2001

OBS. HOLE (Ch-1-3) DATA SHEET No. : 1/1

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1-3 Well Depth: 168.00 m, Well Diameter: ϕ 100.00 mm

Screen Depth(s): 150-162 m

Static Groundwater Level: GL- 5.715 m Screen Length: 12.00 m

Distance from Pumped Well: 5.00 m

Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day at Ch-1 Well

| Date | Time | Time since Pumping Stopped, [t'] | | Time since Pumping Started [t] | Time Ratio [t/t'] | Water Level (GL - m) | Residual Drawdown [s'] (m) |
|------------|-------|----------------------------------|-------|--------------------------------|-------------------|----------------------|----------------------------|
| | | (hour) | (min) | | | | |
| 24/02/2001 | 9:00 | | 1 | 2881 | 2881.000 | 5.800 | 0.085 |
| | | | 2 | 2882 | 1441.000 | 5.791 | 0.076 |
| | | | 4 | 2884 | 721.000 | 5.779 | 0.064 |
| | | | 6 | 2886 | 481.000 | 5.779 | 0.064 |
| | | | 8 | 2888 | 361.000 | 5.779 | 0.064 |
| | | | 10 | 2890 | 289.000 | 5.779 | 0.064 |
| | | | 12 | 2892 | 241.000 | 5.779 | 0.064 |
| | | | 14 | 2894 | 206.714 | 5.779 | 0.064 |
| | | | 16 | 2896 | 181.000 | 5.778 | 0.063 |
| | | | 18 | 2898 | 161.000 | 5.778 | 0.063 |
| | | | 20 | 2900 | 145.000 | 5.777 | 0.062 |
| | | | 25 | 2905 | 116.200 | 5.775 | 0.060 |
| | | | 30 | 2910 | 97.000 | 5.775 | 0.060 |
| | | | 35 | 2915 | 83.286 | 5.775 | 0.060 |
| | | | 40 | 2920 | 73.000 | 5.771 | 0.056 |
| | | | 50 | 2930 | 58.600 | 5.770 | 0.055 |
| | 10:00 | 1 | 60 | 2940 | 49.000 | 5.769 | 0.054 |
| | | | 70 | 2950 | 42.143 | 5.768 | 0.053 |
| | | | 80 | 2960 | 37.000 | 5.764 | 0.049 |
| | | | 90 | 2970 | 33.000 | 5.762 | 0.047 |
| | | | 100 | 2980 | 29.800 | 5.760 | 0.045 |
| | | | 110 | 2990 | 27.182 | 5.759 | 0.044 |
| | 11:00 | 2 | 120 | 3000 | 25.000 | 5.758 | 0.043 |
| | | | 150 | 3030 | 20.200 | 5.750 | 0.035 |
| | 12:00 | 3 | 180 | 3060 | 17.000 | 5.749 | 0.034 |
| | | | 210 | 3090 | 14.714 | 5.748 | 0.033 |
| | 13:00 | 4 | 240 | 3120 | 13.000 | 5.746 | 0.031 |
| | | | 270 | 3150 | 11.667 | 5.743 | 0.028 |
| | 14:00 | 5 | 300 | 3180 | 10.600 | 5.743 | 0.028 |
| | | | 330 | 3210 | 9.727 | 5.755 | 0.040 |
| | 15:00 | 6 | 360 | 3240 | 9.000 | 5.755 | 0.040 |
| | | | 390 | 3270 | 8.385 | 5.757 | 0.042 |
| | 16:00 | 7 | 420 | 3300 | 7.857 | 5.765 | 0.050 |
| | | | 450 | 3330 | 7.400 | 5.765 | 0.050 |
| | 17:00 | 8 | 480 | 3360 | 7.000 | 5.780 | 0.065 |
| | 18:00 | 9 | 540 | 3420 | 6.333 | 5.850 | 0.135 |
| | 19:00 | 10 | 600 | 3480 | 5.800 | 5.790 | 0.075 |
| | 20:00 | 11 | 660 | 3540 | 5.364 | 5.780 | 0.065 |
| | 21:00 | 12 | 720 | 3600 | 5.000 | 5.772 | 0.057 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

RECOVERY TEST DATA SHEET

Date: 24 Feb 2001

OBS. HOLE (Ch-1-4) DATA SHEET No. : 1/1

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
 GPS Reading: 88°51'02" E, 23°39'22" N
 Well No.: Ch-1-4 Well Depth: 300.00 m, Well Diameter: ϕ 100.00 mm
 Screen Depth(s): 228-267, 291-294 m
 Static Groundwater Level: GL- 5.985 m Screen Length: 42.00 m
 Distance from Pumped Well: 5.00 m
 Pump Setting: 30.87 m, Discharge (Q): 4320.0 m³/day at Ch-1 Well

| Date | Time | Time since Pumping Stopped, [t'] | | Time since Pumping Started [t] | Time Ratio [t/t'] | Water Level (GL - m) | Residual Drawdown [s'] (m) |
|------------|-------|----------------------------------|-------|--------------------------------|-------------------|----------------------|----------------------------|
| | | (hour) | (min) | | | | |
| 24/02/2001 | 9:00 | | 1 | 2881 | 2881.000 | 6.470 | 0.485 |
| | | | 2 | 2882 | 1441.000 | 6.339 | 0.354 |
| | | | 4 | 2884 | 721.000 | 6.230 | 0.245 |
| | | | 6 | 2886 | 481.000 | 6.185 | 0.200 |
| | | | 8 | 2888 | 361.000 | 6.157 | 0.172 |
| | | | 10 | 2890 | 289.000 | 6.135 | 0.150 |
| | | | 12 | 2892 | 241.000 | 6.124 | 0.139 |
| | | | 14 | 2894 | 206.714 | 6.111 | 0.126 |
| | | | 16 | 2896 | 181.000 | 6.090 | 0.105 |
| | | | 18 | 2898 | 161.000 | 6.090 | 0.105 |
| | | | 20 | 2900 | 145.000 | 6.085 | 0.100 |
| | | | 25 | 2905 | 116.200 | 6.080 | 0.095 |
| | | | 30 | 2910 | 97.000 | 6.075 | 0.090 |
| | | | 35 | 2915 | 83.286 | 6.070 | 0.085 |
| | | | 40 | 2920 | 73.000 | 6.063 | 0.078 |
| | | | 50 | 2930 | 58.600 | 6.058 | 0.073 |
| | 10:00 | 1 | 60 | 2940 | 49.000 | 6.058 | 0.073 |
| | | | 70 | 2950 | 42.143 | 6.055 | 0.070 |
| | | | 80 | 2960 | 37.000 | 6.055 | 0.070 |
| | | | 90 | 2970 | 33.000 | 6.048 | 0.063 |
| | | | 100 | 2980 | 29.800 | 6.045 | 0.060 |
| | | | 110 | 2990 | 27.182 | 6.041 | 0.056 |
| | 11:00 | 2 | 120 | 3000 | 25.000 | 6.041 | 0.056 |
| | | | 150 | 3030 | 20.200 | 6.035 | 0.050 |
| | 12:00 | 3 | 180 | 3060 | 17.000 | 6.030 | 0.045 |
| | | | 210 | 3090 | 14.714 | 6.028 | 0.043 |
| | 13:00 | 4 | 240 | 3120 | 13.000 | 6.028 | 0.043 |
| | | | 270 | 3150 | 11.667 | 6.028 | 0.043 |
| | 14:00 | 5 | 300 | 3180 | 10.600 | 6.025 | 0.040 |
| | | | 330 | 3210 | 9.727 | 6.025 | 0.040 |
| | 15:00 | 6 | 360 | 3240 | 9.000 | 6.025 | 0.040 |
| | | | 390 | 3270 | 8.385 | 6.029 | 0.044 |
| | 16:00 | 7 | 420 | 3300 | 7.857 | 6.033 | 0.048 |
| | | | 450 | 3330 | 7.400 | 6.033 | 0.048 |
| | 17:00 | 8 | 480 | 3360 | 7.000 | 6.051 | 0.066 |
| | 18:00 | 9 | 540 | 3420 | 6.333 | 6.055 | 0.070 |
| | 19:00 | 10 | 600 | 3480 | 5.800 | 6.060 | 0.075 |
| | 20:00 | 11 | 660 | 3540 | 5.364 | 6.060 | 0.075 |
| | 21:00 | 12 | 720 | 3600 | 5.000 | 6.052 | 0.067 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

SIMPLE PUMPING TEST DATA SHEET
OBS. HOLE (Ch-1-1) DATA SHEET No. : 1/2

Date: 26 Feb 2001

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1-1 Well Depth: 63.00 m, Well Diameter: ϕ 76.20 mm

Screen Depth(s): 54.00-60.00 m

Static Groundwater Level: GL- 6.061 m Screen Length: 6.00 m

Distance from Pumped Well: 5.00 m

Pump Setting: 12.45 m, Discharge (Q): 158.0 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 26/02/2001 | 9:13 | | 1 | 9.335 | 3.274 | | | |
| | | | 2 | 9.295 | 3.234 | | | |
| | | | 3 | 9.205 | 3.144 | | | |
| | | | 4 | 9.165 | 3.104 | | | |
| | | | 5 | 9.150 | 3.089 | | | |
| | | | 6 | 9.155 | 3.094 | | | |
| | | | 8 | 9.134 | 3.073 | | | |
| | | | 10 | 9.115 | 3.054 | | | |
| | | | 15 | 9.090 | 3.029 | | | |
| | | | 20 | 9.075 | 3.014 | | | |
| | | | 25 | 9.050 | 2.989 | | | |
| | | | 30 | 9.045 | 2.984 | 44.4 | 7.15 | 0.039 |
| | | | 35 | 9.033 | 2.972 | | | |
| | | | 40 | 9.023 | 2.962 | | | |
| | | | 45 | 9.015 | 2.954 | | | |
| | | | 50 | 9.010 | 2.949 | | | |
| | | | 55 | 9.005 | 2.944 | | | |
| | 10:12 | 1 | 60 | 9.005 | 2.944 | | | |
| | | | 70 | 9.005 | 2.944 | | | |
| | | | 80 | 9.000 | 2.939 | | | |
| | | | 90 | 9.000 | 2.939 | | | |
| | | | 100 | 9.000 | 2.939 | | | |
| | | | 110 | 8.998 | 2.937 | | | |
| | 11:12 | 2 | 120 | 8.996 | 2.935 | | | |
| | | | 140 | 8.995 | 2.934 | 45.9 | 7.17 | 0.040 |
| | | | 160 | 8.995 | 2.934 | | | |
| | 12:12 | 3 | 180 | 8.995 | 2.934 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

SIMPLE PUMPING TEST DATA SHEET

Date: 26 Feb 2001

OBS. HOLE (Ch-1-1) DATA SHEET No. : 2/2

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1-1 Well Depth: 63.00 m, Well Diameter: ϕ 76.20 mm

Screen Depth(s): 54.00-60.00 m

Static Groundwater Level: GL- 6.061 m Screen Length: 6.00 m

Distance from Pumped Well: 5.00 m

Pump Setting: 12.45 m, Discharge (Q): 158.0 m³/day

| Date | Time | Time since Pumping Stopped, [t'] | | Time since Pumping Started [t] (min) | Time Ratio [t/t'] | Water Level (GL - m) | Residual Drawdown [s'] (m) |
|------------|-------|----------------------------------|-------|--------------------------------------|-------------------|----------------------|----------------------------|
| | | (hour) | (min) | | | | |
| 26/02/2001 | 12:13 | | 1 | 181 | 181.000 | 6.115 | 0.054 |
| | | | 2 | 182 | 91.000 | 6.116 | 0.055 |
| | | | 4 | 184 | 46.000 | 6.117 | 0.056 |
| | | | 6 | 186 | 31.000 | 6.113 | 0.052 |
| | | | 8 | 188 | 23.500 | 6.113 | 0.052 |
| | | | 10 | 190 | 19.000 | 6.112 | 0.051 |
| | | | 12 | 192 | 16.000 | 6.111 | 0.050 |
| | | | 14 | 194 | 13.857 | 6.111 | 0.050 |
| | | | 16 | 196 | 12.250 | 6.111 | 0.050 |
| | | | 18 | 198 | 11.000 | 6.100 | 0.039 |
| | | | 20 | 200 | 10.000 | 6.100 | 0.039 |
| | | | 25 | 205 | 8.200 | 6.100 | 0.039 |
| | | | 30 | 210 | 7.000 | 6.098 | 0.037 |
| | | | 40 | 220 | 5.500 | | |
| | | | 45 | 225 | 5.000 | | |
| | | | 50 | 230 | 4.600 | | |
| | | | 55 | 235 | 4.273 | | |
| | 13:12 | 1 | 60 | 240 | 4.000 | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

SIMPLE PUMPING TEST DATA SHEET
OBS. HOLE (Ch-1-2) DATA SHEET No. : 1/2

Date: 26 Feb 2001

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1-2 Well Depth: 120.00 m, Well Diameter: ϕ 76.20 mm
Screen Depth(s): 100-120 m

Static Groundwater Level: GL- 6.057 m Screen Length: 20.00 m

Distance from Pumped Well: 5.00 m

Pump Setting: 18.45 m, Discharge (Q): 153.1 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 26/02/2001 | 17:21 | | 1 | 12.372 | 6.315 | | | |
| | | | 2 | 12.509 | 6.452 | | | |
| | | | 3 | 12.443 | 6.386 | | | |
| | | | 4 | 12.442 | 6.385 | | | |
| | | | 5 | 12.420 | 6.363 | | | |
| | | | 6 | 12.415 | 6.358 | | | |
| | | | 7 | 12.396 | 6.339 | | | |
| | | | 10 | 12.373 | 6.316 | | | |
| | | | 15 | 12.360 | 6.303 | | | |
| | | | 20 | 12.344 | 6.287 | | | |
| | | | 25 | 12.325 | 6.268 | | | |
| | | | 30 | 12.318 | 6.261 | 38.1 | 7.18 | 0.030 |
| | | | 35 | 12.305 | 6.248 | | | |
| | | | 40 | 12.292 | 6.235 | | | |
| | | | 45 | 12.285 | 6.228 | | | |
| | | | 50 | 12.274 | 6.217 | | | |
| | | | 55 | 12.272 | 6.215 | | | |
| | 18:22 | 1 | 60 | 12.272 | 6.215 | | | |
| | | | 70 | 12.262 | 6.205 | | | |
| | | | 80 | 12.255 | 6.198 | | | |
| | | | 90 | 12.235 | 6.178 | | | |
| | | | 100 | 12.216 | 6.159 | | | |
| | | | 110 | 12.206 | 6.149 | | | |
| | 19:22 | 2 | 120 | 12.205 | 6.148 | | | |
| | | | 140 | 12.182 | 6.125 | 37.8 | 7.19 | 0.032 |
| | | | 160 | 12.168 | 6.111 | | | |
| | 20:22 | 3 | 180 | 12.168 | 6.111 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

**SIMPLE PUMPING TEST DATA SHEET
OBS. HOLE (Ch-1-2) DATA SHEET No. : 2/2**

Date: 26 Feb 2001

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1-2 Well Depth: 120.00 m, Well Diameter: ϕ 76.20 mm
Screen Depth(s): 100-120 m

Static Groundwater Level: GL- 6.057 m Screen Length: 20.00 m

Distance from Pumped Well: 5.00 m

Pump Setting: 18.45 m, Discharge (Q): 153.1 m³/day

| Date | Time | Time since Pumping Stopped, [t'] | | Time since Pumping Started [t] (min) | Time Ratio [t/t'] | Water Level (GL - m) | Residual Drawdown [s] (m) |
|------------|-------|----------------------------------|-------|--------------------------------------|-------------------|----------------------|---------------------------|
| | | (hour) | (min) | | | | |
| 26/02/2001 | 20:23 | | 1 | 181 | 181.000 | 6.146 | 0.089 |
| | | | 2 | 182 | 91.000 | 6.138 | 0.081 |
| | | | 4 | 184 | 46.000 | 6.135 | 0.078 |
| | | | 6 | 186 | 31.000 | 6.135 | 0.078 |
| | | | 8 | 188 | 23.500 | 6.134 | 0.077 |
| | | | 10 | 190 | 19.000 | 6.132 | 0.075 |
| | | | 12 | 192 | 16.000 | 6.132 | 0.075 |
| | | | 14 | 194 | 13.857 | 6.132 | 0.075 |
| | | | 16 | 196 | 12.250 | 6.131 | 0.074 |
| | | | 18 | 198 | 11.000 | 6.130 | 0.073 |
| | | | 20 | 200 | 10.000 | 6.130 | 0.073 |
| | | | 25 | 205 | 8.200 | 6.129 | 0.072 |
| | | | 30 | 210 | 7.000 | 6.128 | 0.071 |
| | | | 40 | 220 | 5.500 | | |
| | | | 45 | 225 | 5.000 | | |
| | | | 50 | 230 | 4.600 | | |
| | | | 55 | 235 | 4.273 | | |
| | 21:22 | 1 | 60 | 240 | 4.000 | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

SIMPLE PUMPING TEST DATA SHEET
OBS. HOLE (Ch-1-3) DATA SHEET No. : 1/2

Date: 26 Feb 2001

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1-3 Well Depth: 168.00 m, Well Diameter: ϕ 76.20 mm
Screen Depth(s): 150-162 m

Static Groundwater Level: GL- 5.715 m Screen Length: 12.00 m

Distance from Pumped Well: 5.00 m

Pump Setting: 30.00 m, Discharge (Q): 170.7 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 26/02/2001 | 13:33 | | 1 | 6.585 | 0.870 | | | |
| | | | 2 | 7.055 | 1.340 | | | |
| | | | 3 | 8.090 | 2.375 | | | |
| | | | 4 | 8.128 | 2.413 | | | |
| | | | 5 | 8.130 | 2.415 | | | |
| | | | 6 | 8.165 | 2.450 | | | |
| | | | 8 | 8.185 | 2.470 | | | |
| | | | 10 | 8.201 | 2.486 | | | |
| | | | 15 | 8.205 | 2.490 | | | |
| | | | 20 | 8.200 | 2.485 | | | |
| | | | 25 | 8.195 | 2.480 | | | |
| | | | 30 | 8.190 | 2.475 | 51.3 | 7.12 | 0.047 |
| | | | 35 | 8.190 | 2.475 | | | |
| | | | 40 | 8.205 | 2.490 | | | |
| | | | 45 | 8.205 | 2.490 | | | |
| | | | 50 | 8.200 | 2.485 | | | |
| | | | 55 | 8.205 | 2.490 | | | |
| | 14:32 | 1 | 60 | 8.200 | 2.485 | | | |
| | | | 70 | 8.200 | 2.485 | | | |
| | | | 80 | 8.196 | 2.481 | | | |
| | | | 90 | 8.195 | 2.480 | | | |
| | | | 100 | 8.195 | 2.480 | | | |
| | | | 110 | 8.195 | 2.480 | | | |
| | 15:32 | 2 | 120 | 8.195 | 2.480 | | | |
| | | | 140 | 8.195 | 2.480 | 51.3 | 7.15 | 0.058 |
| | | | 160 | 8.195 | 2.480 | | | |
| | 16:32 | 3 | 180 | 8.195 | 2.480 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

SIMPLE PUMPING TEST DATA SHEET

Date: 26 Feb 2001

OBS. HOLE (Ch-1-3) DATA SHEET No. : 2/2

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1-3 Well Depth: 168.00 m, Well Diameter: ϕ 76.20 mm

Screen Depth(s): 150-162 m

Static Groundwater Level: GL- 5.715 m Screen Length: 12.00 m

Distance from Pumped Well: 5.00 m

Pump Setting: 30.00 m, Discharge (Q): 170.7 m³/day

| Date | Time | Time since Pumping Stopped, [t'] | | Time since Pumping Started [t] (min) | Time Ratio [t/t'] | Water Level (GL - m) | Residual Drawdown [s'] (m) |
|------------|-------|----------------------------------|-------|--------------------------------------|-------------------|----------------------|----------------------------|
| | | (hour) | (min) | | | | |
| 26/02/2001 | 16:33 | | 1 | 181 | 181.000 | 5.804 | 0.089 |
| | | | 2 | 182 | 91.000 | 5.802 | 0.087 |
| | | | 4 | 184 | 46.000 | 5.801 | 0.086 |
| | | | 6 | 186 | 31.000 | 5.801 | 0.086 |
| | | | 8 | 188 | 23.500 | 5.800 | 0.085 |
| | | | 10 | 190 | 19.000 | 5.800 | 0.085 |
| | | | 12 | 192 | 16.000 | 5.800 | 0.085 |
| | | | 14 | 194 | 13.857 | 5.799 | 0.084 |
| | | | 16 | 196 | 12.250 | 5.799 | 0.084 |
| | | | 18 | 198 | 11.000 | 5.799 | 0.084 |
| | | | 20 | 200 | 10.000 | 5.800 | 0.085 |
| | | | 25 | 205 | 8.200 | 5.800 | 0.085 |
| | | | 30 | 210 | 7.000 | 5.799 | 0.084 |
| | | | 40 | 220 | 5.500 | | |
| | | | 45 | 225 | 5.000 | | |
| | | | 50 | 230 | 4.600 | | |
| | | | 55 | 235 | 4.273 | | |
| | 17:32 | 1 | 60 | 240 | 4.000 | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

SIMPLE PUMPING TEST DATA SHEET
OBS. HOLE (Ch-1-4) DATA SHEET No. : 1/2

Date: 26 Feb 2001

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1
GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1-4 Well Depth: 300.00 m, Well Diameter: ϕ 76.20 mm

Screen Depth(s): 228-267, 291-294 m

Static Groundwater Level: GL- 5.985 m Screen Length: 42.00 m

Distance from Pumped Well: 5.00 m

Pump Setting: 36.90 m, Discharge (Q): 153.5 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | As by AAS (mg/l) |
|------------|-------|-------------------|-------|----------------------|-------------------|-----------|---------|------------------|
| | | (hour) | (min) | | | | | |
| 26/02/2001 | 9:15 | | 1 | | | | | |
| | | | 2 | | | | | |
| | | | 3 | | | | | |
| | | | 4 | 18.722 | 12.737 | | | |
| | | | 5 | 18.670 | 12.685 | | | |
| | | | 6 | 18.600 | 12.615 | | | |
| | | | 8 | 18.510 | 12.525 | | | |
| | | | 10 | 18.465 | 12.480 | | | |
| | | | 15 | 18.425 | 12.440 | | | |
| | | | 20 | 18.370 | 12.385 | | | |
| | | | 25 | 18.280 | 12.295 | | | |
| | | | 30 | 18.265 | 12.280 | 89 | 7.07 | 0.031 |
| | | | 35 | 18.225 | 12.240 | | | |
| | | | 40 | 18.180 | 12.195 | | | |
| | | | 45 | 18.130 | 12.145 | | | |
| | | | 50 | 18.080 | 12.095 | | | |
| | | | 55 | 18.045 | 12.060 | | | |
| | 10:14 | 1 | 60 | 18.030 | 12.045 | | | |
| | | | 70 | 18.000 | 12.015 | | | |
| | | | 80 | 17.965 | 11.980 | | | |
| | | | 90 | 17.910 | 11.925 | | | |
| | | | 100 | 17.880 | 11.895 | | | |
| | | | 110 | 17.860 | 11.875 | | | |
| | 11:14 | 2 | 120 | 17.845 | 11.860 | | | |
| | | | 140 | 17.820 | 11.835 | 88.7 | 7.03 | 0.035 |
| | | | 160 | 17.820 | 11.835 | | | |
| | 12:14 | 3 | 180 | 17.820 | 11.835 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

SIMPLE PUMPING TEST DATA SHEET

Date: 26 Feb 2001

OBS. HOLE (Ch-1-4) DATA SHEET No. : 2/2

Location: Posu Hat, Chuadanga Pourashava, Chuadanga District Site No.: CH-1

GPS Reading: 88°51'02" E, 23°39'22" N

Well No.: Ch-1-4 Well Depth: 300.00 m, Well Diameter: ϕ 76.20 mm

Screen Depth(s): 228-267, 291-294 m

Static Groundwater Level: GL- 5.985 m Screen Length: 42.00 m

Distance from Pumped Well: 5.00 m

Pump Setting: 36.90 m, Discharge (Q): 153.5 m³/day

| Date | Time | Time since Pumping Stopped, [t'] | | Time since Pumping Started [t] (min) | Time Ratio [t/t'] | Water Level (GL - m) | Residual Drawdown [s'] (m) |
|------------|-------|----------------------------------|-------|--------------------------------------|-------------------|----------------------|----------------------------|
| | | (hour) | (min) | | | | |
| 26/02/2001 | 12:15 | | 1 | 181 | 181.000 | 7.878 | 1.893 |
| | | | 2 | 182 | 91.000 | | |
| | | | 4 | 184 | 46.000 | | |
| | | | 6 | 186 | 31.000 | | |
| | | | 8 | 188 | 23.500 | 6.110 | 0.125 |
| | | | 10 | 190 | 19.000 | 6.091 | 0.106 |
| | | | 12 | 192 | 16.000 | 6.095 | 0.110 |
| | | | 14 | 194 | 13.857 | 6.095 | 0.110 |
| | | | 16 | 196 | 12.250 | 6.098 | 0.113 |
| | | | 18 | 198 | 11.000 | 6.098 | 0.113 |
| | | | 20 | 200 | 10.000 | 6.095 | 0.110 |
| | | | 25 | 205 | 8.200 | 6.099 | 0.114 |
| | | | 30 | 210 | 7.000 | 6.098 | 0.113 |
| | | | 40 | 220 | 5.500 | | |
| | | | 45 | 225 | 5.000 | | |
| | | | 50 | 230 | 4.600 | | |
| | | | 55 | 235 | 4.273 | | |
| | 13:14 | 1 | 60 | 240 | 4.000 | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-03-2002

STEP No. : 1 / 10

Location: Brahmakati, Keshabpur, Jessore. Site No.: _____

GPS Reading: 89° 13' 42" E, 22° 55' 20" N

Well No.: JS-OW-1 Well Depth: 299m Well Diameter: 355.6mm

Screen Depth(s): 286.28 - 298.00 m

Static Groundwater Level: GL-6.510m Screen Length: 11.72 m

Pump Type: Submersible Pump

Pump Setting: 31.00 m, Discharge (Q): 16.35 m³/ day

| Date | Time | Elapsed Time, [t] | | Water Level (m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | AS byAAS (mg/l) |
|-------|-------|-------------------|-------|-----------------|-------------------|-----------|---------|-----------------|
| | | (hour) | (min) | | | | | |
| 9-Mar | 16:58 | | 0 | 6.510 | 0.000 | | | |
| | | | 1 | 6.811 | 0.301 | | | |
| | | | 2 | 6.895 | 0.385 | | | |
| | | | 4 | 7.085 | 0.575 | | | |
| | | | 6 | 7.136 | 0.626 | 69.6 | 7.94 | |
| | | | 8 | 7.180 | 0.670 | | | |
| | | | 10 | 7.215 | 0.705 | | | |
| | | | 12 | 7.242 | 0.732 | | | |
| | | | 14 | 7.275 | 0.765 | | | |
| | | | 16 | 7.300 | 0.790 | | | |
| | | | 18 | 7.325 | 0.815 | | | |
| | | | 20 | 7.350 | 0.840 | 69.5 | 8.04 | 0.0048 |
| | | | 25 | 7.386 | 0.876 | | | |
| | | | 30 | 7.449 | 0.939 | | | |
| | | | 35 | 7.485 | 0.975 | | | |
| | | | 40 | 7.520 | 1.010 | | | |
| | | | 45 | 7.515 | 1.005 | | | |
| | | | 50 | 7.500 | 0.990 | | | |
| | | | 55 | 7.510 | 1.000 | | | |
| | | 1h | 60 | 7.555 | 1.045 | | | |
| | | | 70 | 7.585 | 1.075 | | | |
| | | | 80 | 7.585 | 1.075 | | | |
| | | | 90 | 7.515 | 1.005 | | | |
| | | | 100 | 7.500 | 0.990 | 69.7 | 8.15 | 0.0042 |
| | | | 110 | 7.546 | 1.036 | | | |
| | 18:58 | 2h | 120 | 7.570 | 1.060 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-03-2002

STEP No. : 2 / 10

Location: Brahmakati, Keshabpur, Jessore. Site No.: _____

GPS Reading: 89° 13' 42" E, 22° 55' 20" N

Well No.: JS-OW-1 Well Depth: 299m Well Diameter: 355.6mm

Screen Depth(s): 286.28 - 298.00 m

Static Groundwater Level: GL-6.510m Screen Length: 11.72 m

Pump Type: Submersible Pump

Pump Setting: 31.00 m, Discharge (Q): 34.56 m³/ day

| Date | Time | Elapsed Time, (t) | | Water Level (m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | AS byAAS (mg/l) |
|-------|-------|-------------------|-------|-----------------|-------------------|-----------|---------|-----------------|
| | | (hour) | (min) | | | | | |
| 9-Mar | 18:58 | | 0 | 7.570 | | | | |
| | | | 1 | 7.700 | 1.190 | | | |
| | | | 2 | 7.765 | 1.255 | | | |
| | | | 4 | 7.935 | 1.425 | | | |
| | | | 6 | 8.095 | 1.585 | | | |
| | | | 8 | 8.205 | 1.695 | | | |
| | | | 10 | 8.300 | 1.790 | | | |
| | | | 12 | 8.379 | 1.869 | | | |
| | | | 14 | 8.450 | 1.940 | | | |
| | | | 16 | 8.525 | 2.015 | | | |
| | | | 18 | 8.575 | 2.065 | | | |
| | | | 20 | 8.620 | 2.110 | 68.3 | 7.8 | 0.0041 |
| | | | 25 | 8.720 | 2.210 | | | |
| | | | 30 | 8.770 | 2.260 | | | |
| | | | 35 | 8.813 | 2.303 | | | |
| | | | 40 | 8.847 | 2.337 | | | |
| | | | 45 | 8.862 | 2.352 | | | |
| | | | 50 | 8.868 | 2.358 | | | |
| | | | 55 | 8.868 | 2.358 | | | |
| | | 1h | 60 | 8.865 | 2.355 | | | |
| | | | 70 | 8.870 | 2.360 | | | |
| | | | 80 | 8.887 | 2.377 | | | |
| | | | 90 | 8.900 | 2.390 | | | |
| | | | 100 | 8.908 | 2.398 | 68.9 | 7.91 | 0.0041 |
| | | | 110 | 8.923 | 2.413 | | | |
| | 20:58 | 2h | 120 | 8.938 | 2.428 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-03-2002

STEP No. : 3 / 10

Location: Brahmakati, Keshabpur, Jessore. Site No.: _____

GPS Reading: 89° 13' 42" E, 22° 55' 20" N

Well No.: JS-OW-1 Well Depth: 299m Well Diameter: 355.6mm

Screen Depth(s): 286.28 - 298.00 m

Static Groundwater Level: GL-6.510m Screen Length: 11.72 m

Pump Type: Submersible Pump

Pump Setting: 31.00 m, Discharge (Q): 49.71 m³/ day

| Date | Time | Elapsed Time, (t) | | Water Level (m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | AS byAAS (mg/l) |
|-------|-------|-------------------|-------|-----------------|-------------------|-----------|---------|-----------------|
| | | (hour) | (min) | | | | | |
| 9-Mar | 20:58 | | 0 | 8.938 | | | | |
| | | | 1 | 9.128 | 2.618 | | | |
| | | | 2 | 9.278 | 2.768 | | | |
| | | | 4 | 9.458 | 2.948 | | | |
| | | | 6 | 9.603 | 3.093 | | | |
| | | | 8 | 9.702 | 3.192 | | | |
| | | | 10 | 9.818 | 3.308 | | | |
| | | | 12 | 9.905 | 3.395 | | | |
| | | | 14 | 9.975 | 3.465 | | | |
| | | | 16 | 10.035 | 3.525 | | | |
| | | | 18 | 10.080 | 3.570 | | | |
| | | | 20 | 10.123 | 3.613 | 68.1 | 7.89 | 0.0034 |
| | | | 25 | 10.213 | 3.703 | | | |
| | | | 30 | 10.280 | 3.770 | | | |
| | | | 35 | 10.328 | 3.818 | | | |
| | | | 40 | 10.362 | 3.852 | | | |
| | | | 45 | 10.345 | 3.835 | | | |
| | | | 50 | 10.430 | 3.920 | | | |
| | | | 55 | 10.455 | 3.945 | | | |
| | | 1h | 60 | 10.478 | 3.968 | | | |
| | | | 70 | 10.520 | 4.010 | | | |
| | | | 80 | 10.595 | 4.085 | | | |
| | | | 90 | 10.590 | 4.080 | | | |
| | | | 100 | 10.618 | 4.108 | 69.2 | 7.84 | 0.0041 |
| | | | 110 | 10.643 | 4.133 | | | |
| | 22:58 | 2h | 120 | 10.680 | 4.170 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-03-2002

STEP No. : 4/10

Location: Brahmakati, Keshabpur, Jessore.

Site No.: _____

GPS Reading: 89° 13' 42" E, 22° 55' 20" N

Well No.: JS-OW-1 Well Depth: 299m Well Diameter: 355.6mm

Screen Depth(s): 286.28 - 298.00 m

Static Groundwater Level: GL-6.510m Screen Length: 11.72 m

Pump Type: Submersible Pump

Pump Setting: 31.00 m, Discharge (Q): 72.58 m³/ day

| Date | Time | Elapsed Time, [t] | | Water Level (m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | AS byAAS (mg/l) |
|--------|-------|-------------------|-------|-----------------|-------------------|-----------|---------|-----------------|
| | | (hour) | (min) | | | | | |
| 9-Mar | 22:58 | | 0 | 10.680 | | | | |
| | | | 1 | 10.800 | 4.290 | | | |
| | | | 2 | 10.918 | 4.408 | | | |
| | | | 4 | 11.013 | 4.503 | | | |
| | | | 6 | 11.245 | 4.735 | | | |
| | | | 8 | 11.350 | 4.840 | | | |
| | | | 10 | 11.445 | 4.935 | | | |
| | | | 12 | 11.528 | 5.018 | | | |
| | | | 14 | 11.582 | 5.072 | | | |
| | | | 16 | 11.643 | 5.133 | | | |
| | | | 18 | 11.700 | 5.190 | | | |
| | | | 20 | 11.732 | 5.222 | 68.9 | 7.87 | 0.0056 |
| | | | 25 | 11.810 | 5.300 | | | |
| | | | 30 | 11.888 | 5.378 | | | |
| | | | 35 | 11.948 | 5.438 | | | |
| | | | 40 | 12.000 | 5.490 | | | |
| | | | 45 | 12.048 | 5.538 | | | |
| | | | 50 | 12.068 | 5.558 | | | |
| | | | 55 | 12.092 | 5.582 | | | |
| | | 1h | 60 | 12.113 | 5.603 | | | |
| | | | 70 | 12.143 | 5.633 | | | |
| | | | 80 | 12.208 | 5.698 | | | |
| | | | 90 | 12.213 | 5.703 | | | |
| | | | 100 | 12.220 | 5.710 | 68.2 | 7.89 | 0.0052 |
| | | | 110 | 12.252 | 5.742 | | | |
| 10-Mar | 0:58 | 2h | 120 | 12.182 | 5.672 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 10-03-2002

STEP No. : 5/10

Location: Brahmakati, Keshabpur, Jessore. Site No.: _____

GPS Reading: 89° 13' 42" E, 22° 55' 20" N

Well No.: JS-OW-1 Well Depth: 299m Well Diameter: 355.6mm

Screen Depth(s): 286.28 - 298.00 m

Static Groundwater Level: GL-6.510m Screen Length: 11.72 m

Pump Type: Submersible Pump

Pump Setting: 31.00 m, Discharge (Q): 88.51 m³/ day

| Date | Time | Elapsed Time, [t] | | Water Level (m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | AS byAAS (mg/l) |
|--------|-------|-------------------|-------|-----------------|-------------------|-----------|---------|-----------------|
| | | (hour) | (min) | | | | | |
| 10-Mar | 0:58 | | 0 | 12.182 | | | | |
| | | | 1 | 12.583 | 6.073 | | | |
| | | | 2 | 12.690 | 6.180 | | | |
| | | | 4 | 12.958 | 6.448 | | | |
| | | | 6 | 13.172 | 6.662 | | | |
| | | | 8 | 13.418 | 6.908 | | | |
| | | | 10 | 13.552 | 7.042 | | | |
| | | | 12 | 13.685 | 7.175 | | | |
| | | | 14 | 13.792 | 7.282 | | | |
| | | | 16 | 13.895 | 7.385 | | | |
| | | | 18 | 13.983 | 7.473 | | | |
| | | | 20 | 14.065 | 7.555 | 68.8 | 7.92 | 0.0049 |
| | | | 25 | 14.248 | 7.738 | | | |
| | | | 30 | 14.372 | 7.862 | | | |
| | | | 35 | 14.510 | 8.000 | | | |
| | | | 40 | 14.618 | 8.108 | | | |
| | | | 45 | 14.728 | 8.218 | | | |
| | | | 50 | 14.878 | 8.368 | | | |
| | | | 55 | 14.945 | 8.435 | | | |
| | | 1h | 60 | 15.050 | 8.540 | | | |
| | | | 70 | 15.205 | 8.695 | | | |
| | | | 80 | 15.350 | 8.840 | | | |
| | | | 90 | 15.475 | 8.965 | | | |
| | | | 100 | 15.645 | 9.135 | 68.6 | 7.9 | 0.0075 |
| | | | 110 | 15.770 | 9.260 | | | |
| | 18:58 | 2h | 120 | 15.838 | 9.328 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 10-03-2002

STEP No. : 6 / 10

Location: Brahmakati, Keshabpur, Jessore.

Site No.: _____

GPS Reading: 89° 13' 42" E, 22° 55' 20" N

Well No.: JS-OW-1 Well Depth: 299m Well Diameter: 355.6mm

Screen Depth(s): 286.28 - 298.00 m

Static Groundwater Level: GL-6.510m Screen Length: 11.72 m

Pump Type: Submersible Pump

Pump Setting: 31.00 m, Discharge (Q): 71.15 m³/ day

| Date | Time | Elapsed Time, [t] | | Water Level (m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | AS byAAS (mg/l) |
|--------|------|-------------------|-------|-----------------|-------------------|-----------|---------|-----------------|
| | | (hour) | (min) | | | | | |
| 10-Mar | 2:58 | | 0 | | | | | |
| | | | 1 | 15.635 | 9.125 | | | |
| | | | 2 | 15.338 | 8.828 | | | |
| | | | 4 | 15.232 | 8.722 | | | |
| | | | 6 | 15.098 | 8.588 | | | |
| | | | 8 | 14.995 | 8.485 | | | |
| | | | 10 | 14.925 | 8.410 | | | |
| | | | 12 | 14.855 | 8.345 | | | |
| | | | 14 | 14.800 | 8.290 | | | |
| | | | 16 | 14.753 | 8.243 | | | |
| | | | 18 | 14.728 | 8.218 | | | |
| | | | 20 | 14.692 | 8.182 | 68.8 | 7.96 | 0.0054 |
| | | | 25 | 14.638 | 8.128 | | | |
| | | | 30 | 14.610 | 8.100 | | | |
| | | | 35 | 14.588 | 8.078 | | | |
| | | | 40 | 14.370 | 7.860 | | | |
| | | | 45 | 14.545 | 8.035 | | | |
| | | | 50 | 14.523 | 8.013 | | | |
| | | | 55 | 14.508 | 7.998 | | | |
| | | 1h | 60 | 14.490 | 7.900 | | | |
| | | | 70 | 14.463 | 7.953 | | | |
| | | | 80 | 14.465 | 7.955 | | | |
| | | | 90 | 14.498 | 7.988 | | | |
| | | | 100 | 14.508 | 7.998 | 68.8 | 8 | 0.0061 |
| | | | 110 | 14.538 | 8.028 | | | |
| | 4:58 | 2h | 120 | 14.055 | 7.545 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-03-2002

STEP No. : 7 / 10

Location: Brahmakati, Keshabpur, Jessore. Site No.: _____

GPS Reading: 89° 13' 42" E, 22° 55' 20" N

Well No.: JS-OW-1 Well Depth: 299m Well Diameter: 355.6mm

Screen Depth(s): 286.28 - 298.00 m

Static Groundwater Level: GL-6.510m Screen Length: 11.72 m

Pump Type: Submersible Pump

Pump Setting: 31.00 m, Discharge (Q): 52.59 m³/ day

| Date | Time | Elapsed Time, [t] | | Water Level (m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | AS byAAS (mg/l) |
|------|------|-------------------|-------|-----------------|-------------------|-----------|---------|-----------------|
| | | (hour) | (min) | | | | | |
| | 4:58 | | 0 | 14.535 | | | | |
| | | | 1 | 14.348 | 7.838 | | | |
| | | | 2 | 14.310 | 7.800 | | | |
| | | | 4 | 14.030 | 7.520 | | | |
| | | | 6 | 13.835 | 7.325 | | | |
| | | | 8 | 13.675 | 7.165 | | | |
| | | | 10 | 13.538 | 7.028 | | | |
| | | | 12 | 13.423 | 6.913 | | | |
| | | | 14 | 13.315 | 6.805 | | | |
| | | | 16 | 13.228 | 6.718 | | | |
| | | | 18 | 13.148 | 6.638 | | | |
| | | | 20 | 13.075 | 6.565 | 68.3 | 8.02 | 0.0039 |
| | | | 25 | 12.942 | 6.432 | | | |
| | | | 30 | 12.845 | 6.335 | | | |
| | | | 35 | 12.773 | 6.263 | | | |
| | | | 40 | 12.713 | 6.203 | | | |
| | | | 45 | 12.678 | 6.168 | | | |
| | | | 50 | 12.630 | 6.120 | | | |
| | | | 55 | 12.600 | 6.090 | | | |
| | | 1h | 60 | 12.587 | 6.077 | | | |
| | | | 70 | 12.538 | 6.028 | | | |
| | | | 80 | 12.523 | 6.013 | | | |
| | | | 90 | 12.515 | 6.005 | | | |
| | | | 100 | 12.498 | 5.988 | 69.8 | 7.95 | 0.0071 |
| | | | 110 | 12.965 | 6.455 | | | |
| | 6:58 | 2h | 120 | 12.455 | 5.945 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-03-2002

STEP No. : 8 / 10

Location: Brahmakati, Keshabpur, Jessore. Site No.: _____

GPS Reading: 89° 13' 42" E, 22° 55' 20" N

Well No.: JS-OW-1 Well Depth: 299m Well Diameter: 355.6mm

Screen Depth(s): 286.28 - 298.00 m

Static Groundwater Level: GL-6.510m Screen Length: 11.72 m

Pump Type: Submersible Pump

Pump Setting: 31.00 m, Discharge (Q): 36.65 m³/ day

| Date | Time | Elapsed Time, [t] | | Water Level (m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | AS byAAS (mg/l) |
|--------|------|-------------------|-------|-----------------|-------------------|-----------|---------|-----------------|
| | | (hour) | (min) | | | | | |
| 10-Mar | 6:58 | | 0 | 12.455 | | | | |
| | | | 1 | 12.310 | 5.800 | | | |
| | | | 2 | 12.233 | 5.723 | | | |
| | | | 4 | 12.045 | 5.535 | | | |
| | | | 6 | 11.893 | 5.383 | | | |
| | | | 8 | 11.758 | 5.248 | | | |
| | | | 10 | 11.640 | 5.130 | | | |
| | | | 12 | 11.543 | 5.033 | | | |
| | | | 14 | 11.460 | 4.950 | | | |
| | | | 16 | 11.378 | 4.868 | | | |
| | | | 18 | 11.315 | 4.805 | | | |
| | | | 20 | 11.263 | 4.753 | 68.6 | 8.01 | 0.0058 |
| | | | 25 | 11.145 | 4.635 | | | |
| | | | 30 | 11.055 | 4.545 | | | |
| | | | 35 | 10.942 | 4.432 | | | |
| | | | 40 | 10.905 | 4.395 | | | |
| | | | 45 | 10.890 | 4.380 | | | |
| | | | 50 | 10.855 | 4.345 | | | |
| | | | 55 | 10.820 | 4.310 | | | |
| | | 1h | 60 | 10.800 | 4.290 | | | |
| | | | 70 | 10.750 | 4.240 | | | |
| | | | 80 | 10.705 | 4.195 | | | |
| | | | 90 | 10.735 | 4.225 | | | |
| | | | 100 | 10.642 | 4.135 | 68.9 | 7.83 | 0.0057 |
| | | | 110 | 10.612 | 4.102 | | | |
| | 8:58 | 2h | 120 | 10.591 | 4.081 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-03-2002

STEP No. : 9 / 10

Location: Brahmakati, Keshabpur, Jessore. Site No.: _____

GPS Reading: 89° 13' 42" E, 22° 55' 20" N

Well No.: JS-OW-1 Well Depth: 299m Well Diameter: 355.6mm

Screen Depth(s): 286.28 - 298.00 m

Static Groundwater Level: GL-6.510m Screen Length: 11.72 m

Pump Type: Submersible Pump

Pump Setting: 31.00 m, Discharge (Q): 34.23 m³/ day

| Date | Time | Elapsed Time, [t] | | Water Level (m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | AS byAAS (mg/l) |
|--------|-------|-------------------|-------|-----------------|-------------------|-----------|---------|-----------------|
| | | (hour) | (min) | | | | | |
| 10-Mar | 8:58 | | 0 | 10.591 | 4.081 | | | |
| | | | 1 | 10.682 | 4.172 | | | |
| | | | 2 | 10.695 | 4.185 | | | |
| | | | 4 | 10.670 | 4.160 | | | |
| | | | 6 | 10.536 | 4.026 | | | |
| | | | 8 | 10.413 | 3.903 | | | |
| | | | 10 | 10.313 | 3.803 | | | |
| | | | 12 | 10.269 | 3.759 | | | |
| | | | 14 | 10.232 | 3.722 | | | |
| | | | 16 | 10.201 | 3.691 | | | |
| | | | 18 | 10.223 | 3.713 | | | |
| | | | 20 | 10.195 | 3.685 | 69.9 | 8.01 | 0.0054 |
| | | | 25 | 10.129 | 3.619 | | | |
| | | | 30 | 10.075 | 3.565 | | | |
| | | | 35 | 10.085 | 3.575 | | | |
| | | | 40 | 9.998 | 3.488 | | | |
| | | | 45 | 9.975 | 3.465 | | | |
| | | | 50 | 9.945 | 3.435 | | | |
| | | | 55 | 9.913 | 3.403 | | | |
| | | 1h | 60 | 9.890 | 3.380 | | | |
| | | | 70 | 9.840 | 3.330 | | | |
| | | | 80 | 9.795 | 3.285 | | | |
| | | | 90 | 9.760 | 3.250 | | | |
| | | | 100 | 9.731 | 3.221 | 68.3 | - | 0.005 |
| | | | 110 | 9.703 | 3.193 | | | |
| | 18:58 | 2h | 120 | 9.680 | 3.170 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

STEP-DRAWDOWN TEST DATA SHEET

Date: 10-03-2002

STEP No. : 10 / 10

Location: Brahmakati, Keshabpur, Jessore.

Site No.: _____

GPS Reading: 89° 13' 42" E, 22° 55' 20" N

Well No.: JS-OW-1 Well Depth: 299m Well Diameter: 355.6mm

Screen Depth(s): 286.28 - 298.00 m

Static Groundwater Level: GL-6.510m Screen Length: 11.72 m

Pump Type: Submersible Pump

Pump Setting: 31.00 m, Discharge (Q): 18.9 m³/ day

| Date | Time | Elapsed Time, [t] | | Water Level (m) | Drawdown, [s] (m) | EC (mS/m) | pH (SU) | AS byAAS (mg/l) |
|--------|-------|-------------------|-------|-----------------|-------------------|-----------|---------|-----------------|
| | | (hour) | (min) | | | | | |
| 10-Mar | 10:58 | | 0 | 9.680 | 3.170 | | | |
| | | | 1 | 9.582 | 3.072 | | | |
| | | | 2 | 9.500 | 2.990 | | | |
| | | | 4 | 9.415 | 2.905 | | | |
| | | | 6 | 9.325 | 2.815 | | | |
| | | | 8 | 9.242 | 2.732 | | | |
| | | | 10 | 9.168 | 2.658 | | | |
| | | | 12 | 9.085 | 2.575 | | | |
| | | | 14 | 9.023 | 2.513 | | | |
| | | | 16 | 8.953 | 2.443 | | | |
| | | | 18 | 8.908 | 2.393 | | | |
| | | | 20 | 8.862 | 2.352 | 68.9 | 7.96 | 0.0036 |
| | | | 25 | 8.769 | 2.259 | | | |
| | | | 30 | 8.695 | 2.185 | | | |
| | | | 35 | 8.642 | 2.132 | | | |
| | | | 40 | 8.598 | 2.088 | | | |
| | | | 45 | 8.555 | 2.045 | | | |
| | | | 50 | 8.520 | 2.010 | | | |
| | | | 55 | 8.482 | 1.972 | | | |
| | | 1h | 60 | 8.465 | 1.955 | | | |
| | | | 70 | 8.420 | 1.910 | | | |
| | | | 80 | 8.382 | 1.872 | | | |
| | | | 90 | 8.348 | 1.838 | | | |
| | | | 100 | 8.315 | 1.805 | 68.6 | 7.99 | 0.004 |
| | | | 110 | 8.283 | 1.773 | | | |
| | 18:58 | 2h | 120 | 8.255 | 1.745 | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

CONTINUOUS PUMPING TEST DATA SHEET

Date: 10/03/2002

PUMPED WELL () DATA SHEET No. : 1/2

Location: Brahmakati, Keshabpur, Jessore Site No.: Brahmakati

GPS Reading: 89° 13' 42" E, 22° 55' 20" N

Well No.: JS-OW-1 Well Depth: 299m Well Diameter: ϕ 355.6mm

Screen Depth(s): 286.28 – 298.00m

Static Groundwater Level GL-6.385m Screen Length: 11.72 m

Pump Type: Submersible Pump

Pump Setting: 43 m, Discharge (Q): 93.75 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown (m) | EC (mS/m) | pH (SU) | AS byAAS (mg/l) | |
|--------|-------|-------------------|--------|----------------------|--------------|-----------|---------|-----------------|-------|
| | | (hour) | (min) | | | | | | |
| 10-Mar | 20:00 | | 1 | 7.100 | 0.715 | | | | |
| | | | 2 | 7.648 | 1.263 | | | | |
| | | | 3 | 8.138 | 1.753 | | | | |
| | | | 4 | 8.868 | 2.483 | | | | |
| | | | 5 | 8.938 | 2.553 | | | | |
| | | | 6 | 9.292 | 2.907 | | | | |
| | | | 8 | 9.878 | 3.493 | | | | |
| | | | 10 | 10.328 | 3.943 | 70.2 | 8.1 | 0.0035 | |
| | | | 15 | 11.148 | 4.763 | | | | |
| | | | 20 | 11.718 | 5.333 | | | | |
| | | | 25 | 12.282 | 5.897 | | | | |
| | | | 30 | 12.675 | 6.290 | | | | |
| | | | 35 | 13.013 | 6.628 | | | | |
| | | | 40 | 13.225 | 6.840 | | | | |
| | | | 45 | 13.428 | 7.043 | | | | |
| | | | 50 | 13.610 | 7.225 | | | | |
| | | | 55 | 13.798 | 7.413 | | | | |
| | | | 1h | 60 | 13.973 | 7.588 | 68.6 | 7.96 | 0.004 |
| | | | | 70 | 14.248 | 7.863 | | | |
| | | | | 80 | 14.480 | 8.101 | | | |
| | | | | 90 | 15.063 | 8.678 | | | |
| | | 100 | 15.480 | 9.095 | | | | | |
| | | 110 | 15.852 | 9.467 | | | | | |
| | 2h | 120 | 16.115 | 9.730 | | | | | |
| | | 140 | 16.625 | 10.240 | | | | | |
| | | 160 | 17.105 | 10.720 | | | | | |
| | 3h | 180 | 17.415 | 11.030 | 68.6 | 7.94 | 0.0044 | | |
| | | 210 | 17.075 | 10.690 | | | | | |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

CONTINUOUS PUMPING TEST DATA SHEET

Date: 11/03/2002

PUMPED WELL () DATA SHEET No. : 2 / 2

Location: Brahmakati, Keshabpur, Jessore Site No.: Brahmakati

GPS Reading: 89° 13' 42" E, 22° 55' 20" N

Well No.: JS-OW-1 Well Depth: 299m Well Diameter: ϕ 355.6mm

Screen Depth(s): 286.28--298.00m

Static Groundwater Level: GL-6.385m Screen Length: 11.72 m

Pump Type: Submersible Pump

Pump Setting: 43 m, Discharge (Q): 93.75 m³/day

| Date | Time | Elapsed Time, [t] | | Water Level (GL - m) | Drawdown (m) | EC (mS/m) | pH (SU) | AS byAAS (mg/l) |
|------|---------|-------------------|-------|----------------------|--------------|-----------|---------|-----------------|
| | | (hour) | (min) | | | | | |
| | | 4h | 240 | 18.133 | 11.750 | | | |
| | | | 270 | 18.433 | 12.048 | | | |
| | | 5h | 300 | 18.630 | 12.245 | | | |
| | | | 330 | | | | | |
| | | 6h | 360 | 19.418 | 13.033 | 68.4 | 7.88 | 0.0041 |
| | | 7h | 420 | 19.688 | 13.303 | | | |
| | | 8h | 480 | 20.698 | 14.313 | | | |
| | | 9h | 540 | 20.713 | 14.328 | 68.5 | 7.94 | 0.0047 |
| | | 10h | 600 | 20.768 | 14.383 | | | |
| | | 11h | 660 | 21.588 | 15.203 | | | |
| | | 12h | 720 | 22.156 | 15.771 | 68.9 | 7.98 | 0.0046 |
| | | 13h | 780 | 22.595 | 16.210 | | | |
| | | 14h | 840 | 22.883 | 16.498 | | | |
| | | 15h | 900 | 23.090 | 16.705 | 68.4 | 7.83 | 0.0043 |
| | | 16h | 960 | 23.245 | 16.860 | | | |
| | | 18h | 1080 | 23.300 | 16.915 | 68.1 | 7.88 | 0.0055 |
| | | 20h | 1200 | 23.022 | 16.637 | | | |
| | | 21h | 1260 | 23.200 | 16.815 | 67.9 | 7.97 | 0.0051 |
| | | 22h | 1320 | 23.513 | 17.128 | | | |
| | 20:00Pm | 24h | 1440 | 23.641 | 17.256 | 68.6 | 7.83 | 0.0048 |
| | | 27h | 1620 | 23.890 | 17.505 | 68.7 | 8.08 | 0.0048 |
| | 02:00Am | 30h | 1800 | 24.318 | 17.933 | 72.6 | 7.99 | 0.0055 |
| | | 33h | 1980 | 24.325 | 17.940 | 68.8 | 7.97 | 0.0054 |
| | 08:00Am | 36h | 2160 | 24.949 | 18.564 | 69.4 | 7.93 | 0.0055 |
| | | 39h | 2340 | 24.853 | 18.468 | 69.5 | 7.71 | 0.0056 |
| | 02:00Pm | 42h | 2520 | 24.890 | 18.505 | 68.6 | 7.92 | 0.0052 |
| | | 45h | 2700 | 25.075 | 18.690 | 70 | 7.96 | 0.0046 |
| | 20:00Pm | 48h | 2880 | 25.195 | 18.810 | 69 | 7.97 | 0.0048 |

**THE STUDY ON THE GROUNDWATER DEVELOPMENT OF DEEP AQUIFERS
FOR SAFE DRINKING WATER SUPPLY TO ARSENIC AFFECTED AREAS
IN WESTERN BANGLADESH**

RECOVERY TEST DATA SHEET

Date: 12/03/2002

PUMPED WELL () DATA SHEET No. : 1/1

Location: Brahmakati, Keshabpur, Jessore. Site No.: _____
 GPS Reading: 89° 13' 42" E, 22° 55' 20" N
 Well No.: JS-OW-1 Well Depth: 299m m, Well Diameter: ϕ 355.6m
 Screen Depth(s): 286.28-298.00m
 Static Groundwater Level: GL- 6.385 m Screen Length: 11.72m
 Pump Type: Submersible Pump
 Pump Setting: 43.00 m, Discharge (Q): 93.75 m³/day

| Date | Time | Time since Pumping Stopped, [t'] | | Time since Pumping Started [t] (min) | Time Ratio [t/t'] | Water Level (m) | Residual Drawdown (m) |
|--------|---------|----------------------------------|-------|--------------------------------------|-------------------|-----------------|-----------------------|
| | | (hour) | (min) | | | | |
| | | | | | | 25.195 | 18.810 |
| 12-Mar | 20:00 | | 1 | 2881 | 2881.000 | 24.660 | 18.275 |
| | | | 2 | 2882 | 1441.000 | 23.903 | 17.518 |
| | | | 4 | 2884 | 721.000 | 22.543 | 16.158 |
| | | | 6 | 2886 | 481.000 | 21.483 | 15.098 |
| | | | 8 | 2888 | 361.000 | 20.425 | 14.040 |
| | | | 10 | 2890 | 289.000 | 19.378 | 12.993 |
| | | | 12 | 2892 | 241.000 | 18.432 | 12.047 |
| | | | 14 | 2894 | 206.714 | 17.565 | 11.180 |
| | | | 16 | 2896 | 181.000 | 16.775 | 10.390 |
| | | | 18 | 2898 | 161.000 | 16.045 | 9.660 |
| | | | 20 | 2900 | 145.000 | 15.373 | 8.988 |
| | | | 25 | 2905 | 116.200 | 13.752 | 7.367 |
| | | | 30 | 2910 | 97.000 | 12.732 | 6.347 |
| | | | 35 | 2915 | 83.286 | 11.808 | 5.423 |
| | | | 40 | 2920 | 73.000 | 10.935 | 4.550 |
| | | | 45 | 2925 | 65.000 | 10.275 | 3.890 |
| | | | 50 | 2930 | 58.600 | 9.798 | 3.413 |
| | | 1h | 60 | 2940 | 49.000 | 9.185 | 2.800 |
| | | | 70 | 2950 | 42.143 | 8.823 | 2.438 |
| | | | 80 | 2960 | 37.000 | 8.585 | 2.200 |
| | | | 90 | 2970 | 33.000 | 8.393 | 2.008 |
| | | | 100 | 2980 | 29.800 | 8.213 | 1.828 |
| | | | 110 | 2990 | 27.182 | 8.053 | 1.668 |
| | 22:00Pm | 2h | 120 | 3000 | 25.000 | 7.972 | 1.587 |
| | | | 150 | 3030 | 20.200 | 7.670 | 1.285 |
| | | 3h | 180 | 3060 | 17.000 | 7.458 | 1.073 |
| | | | 210 | 3090 | 14.714 | 7.253 | 0.868 |
| 13-Mar | 12:00 | 4h | 240 | 3120 | 13.000 | 7.095 | 0.710 |
| | | | 270 | 3150 | 11.667 | 6.965 | 0.580 |
| | | 5h | 300 | 3180 | 10.600 | 6.865 | 0.480 |
| | | | 330 | 3210 | 9.727 | 6.788 | 0.403 |
| | | 6h | 360 | 3240 | 9.000 | 6.695 | 0.310 |
| | | | 390 | 3270 | 8.385 | 6.635 | 0.250 |
| | | 7h | 420 | 3300 | 7.857 | 6.570 | 0.185 |
| | | | 450 | 3330 | 7.400 | 6.510 | 0.125 |
| | | 8h | 480 | 3360 | 7.000 | 6.465 | 0.080 |
| | | 9h | 540 | 3420 | 6.333 | 6.388 | 0.003 |
| | | 10h | 600 | 3480 | 5.800 | 6.318 | -0.067 |
| | | 11h | 660 | 3540 | 5.364 | 6.262 | -0.123 |
| 13-Mar | 8:00 | 12h | 720 | 3600 | 5.000 | 6.223 | -0.162 |

4. Geophysical Prospecting Data

JL042NS

PAGE 1

DATA SET: JL042NS

CLIENT: JICA DATE: Jan, 2001
 LOCATION: CHUADANGA SOUNDING: 6
 COUNTY: BANGLADESH AZIMUTH: 11.5 Deg N-NE
 PROJECT: SAFE DRINKING WATER SUPPLY EQUIPMENT: SyscalR2
 ELEVATION: 0.00
 SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

| | | | | |
|----|-------|-------|-------|---------|
| 11 | 25.00 | 52.40 | 52.24 | 0.300 |
| 12 | 30.00 | 52.50 | 52.36 | 0.259 |
| 13 | 35.00 | 52.00 | 52.43 | -0.842 |
| 14 | 40.00 | 52.80 | 52.49 | 0.570 |
| 15 | 45.00 | 52.50 | 52.55 | -0.113 |
| 16 | 50.00 | 52.80 | 52.62 | 0.327 |
| 17 | 50.00 | 52.90 | 52.72 | 0.327 |
| 18 | 60.00 | 52.90 | 52.88 | 0.0292 |
| 19 | 70.00 | 52.10 | 53.07 | -1.86 |
| 20 | 80.00 | 51.20 | 53.28 | -4.07 |
| 21 | 90.00 | 51.00 | 53.51 | -4.92 |
| 22 | 100.0 | 50.80 | 53.74 | -5.78 |
| 23 | 100.0 | 51.10 | 54.05 | -5.78 |
| 24 | 130.0 | 51.50 | 54.66 | -6.14 |
| 25 | 160.0 | 53.30 | 55.00 | -3.19 |
| 26 | 200.0 | 53.70 | 54.91 | -2.25 |
| 27 | 250.0 | 54.60 | 53.97 | 1.14 |
| 28 | 250.0 | 56.00 | 55.35 | 1.14 |
| 29 | 300.0 | 54.90 | 53.66 | 2.25 |
| 30 | 350.0 | 52.10 | 51.49 | 1.15 |
| 31 | 400.0 | 49.50 | 49.07 | 0.849 |
| 32 | 450.0 | 47.30 | 46.56 | 1.55 |
| 33 | 500.0 | 45.00 | 44.06 | 2.08 |
| 34 | 500.0 | 45.20 | 44.25 | 2.08 |
| 35 | 550.0 | 41.80 | 41.83 | -0.0883 |
| 36 | 600.0 | 38.20 | 39.54 | -3.53 |
| 37 | 650.0 | 35.40 | 37.42 | -5.71 |

Schlumberger Configuration

FITTING ERROR: 2.553 PERCENT

| L# | RESISTIVITY (ohm-m) | THICKNESS (meters) | ELEVATION (meters) | LONG. COND. (Siemens) | TRANS. RES. (Ohm-m^2) |
|----|------------------------|-----------------------|-----------------------|--------------------------|--------------------------|
| | | | 0.0 | | |
| 1 | 25.22 | 0.901 | -0.901 | 0.0357 | 22.73 |
| 2 | 41.10 | 0.697 | -1.59 | 0.0169 | 28.68 |
| 3 | 59.07 | 3.74 | -5.34 | 0.0633 | 221.0 |
| 4 | 54.33 | 65.56 | -70.91 | 1.20 | 3562.4 |
| 5 | 65.13 | 126.6 | -197.5 | 1.94 | 8247.5 |
| 6 | 40.25 | 153.5 | -351.1 | 3.81 | 6181.1 |
| 7 | 18.17 | | | | |

ALL PARAMETERS ARE FREE

| No | SPACING (m) | RHO-A (ohm-m) | | DIFFERENCE (percent) |
|----|----------------|---------------|-----------|-------------------------|
| | | DATA | SYNTHETIC | |
| 1 | 1.00 | 30.40 | 30.69 | -0.972 |
| 2 | 2.00 | 37.30 | 36.49 | 2.15 |
| 3 | 4.00 | 46.60 | 46.75 | -0.333 |
| 4 | 6.00 | 52.20 | 52.81 | -1.17 |
| 5 | 6.00 | 42.80 | 43.30 | -1.17 |
| 6 | 8.00 | 46.00 | 46.18 | -0.405 |
| 7 | 10.00 | 47.50 | 47.90 | -0.849 |
| 8 | 15.00 | 48.90 | 49.84 | -1.93 |
| 9 | 20.00 | 50.50 | 50.49 | 0.00736 |
| 10 | 25.00 | 50.90 | 50.74 | 0.300 |

JL042EW

PAGE 1

DATA SET: JL042EW

CLIENT: JICA

DATE: Jan, 2001

LOCATION: CHUADANGA

SOUNDING: 6

COUNTY: BANGLADESH

AZIMUTH: 11.5 Deg N-NE

PROJECT: SAFE DRINKING WATER SUPPLY

EQUIPMENT: SyscalR2

ELEVATION: 0.00

SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

Schlumberger Configuration

FITTING ERROR: 1.549 PERCENT

| L# | RESISTIVITY (ohm-m) | THICKNESS (meters) | ELEVATION (meters) | LONG. COND. (Siemens) | TRANS. RES. (Ohm-m ²) |
|----|------------------------|-----------------------|-----------------------|--------------------------|--------------------------------------|
| | | | 0.0 | | |
| 1 | 11.95 | 0.407 | -0.407 | 0.0340 | 4.87 |
| 2 | 52.10 | 0.699 | -1.10 | 0.0134 | 36.46 |
| 3 | 45.31 | 2.32 | -3.43 | 0.0513 | 105.5 |
| 4 | 52.83 | 111.0 | -114.4 | 2.10 | 5865.1 |
| 5 | 87.91 | 104.3 | -218.8 | 1.53 | 7089.8 |
| 6 | 45.00 | 177.9 | -396.8 | 3.95 | 8009.4 |
| 7 | 13.18 | | | | |

ALL PARAMETERS ARE FREE

| No | SPACING (m) | RHO-A (ohm-m) | | DIFFERENCE (percent) |
|----|----------------|---------------|-----------|-------------------------|
| | | DATA | SYNTHETIC | |
| 1 | 1.00 | 22.60 | 22.99 | -1.74 |
| 2 | 2.00 | 33.20 | 33.39 | -0.593 |
| 3 | 4.00 | 42.40 | 43.07 | -1.60 |
| 4 | 6.00 | 47.10 | 47.55 | -0.964 |
| 5 | 6.00 | 46.80 | 47.25 | -0.964 |
| 6 | 8.00 | 49.10 | 49.93 | -1.69 |
| 7 | 10.00 | 50.80 | 51.77 | -1.92 |
| 8 | 15.00 | 54.80 | 54.54 | 0.465 |
| 9 | 20.00 | 56.50 | 56.00 | 0.881 |
| 10 | 25.00 | 57.60 | 56.84 | 1.30 |

| | | | | |
|----|-------|-------|-------|--------|
| 11 | 25.00 | 53.10 | 52.40 | 1.30 |
| 12 | 30.00 | 53.70 | 52.89 | 1.49 |
| 13 | 35.00 | 54.00 | 53.22 | 1.43 |
| 14 | 40.00 | 53.80 | 53.46 | 0.630 |
| 15 | 45.00 | 54.10 | 53.63 | 0.859 |
| 16 | 50.00 | 54.70 | 53.77 | 1.69 |
| 17 | 50.00 | 54.80 | 53.87 | 1.69 |
| 18 | 60.00 | 54.30 | 54.08 | 0.401 |
| 19 | 70.00 | 53.70 | 54.24 | -1.02 |
| 20 | 80.00 | 54.00 | 54.39 | -0.736 |
| 21 | 90.00 | 53.80 | 54.54 | -1.37 |
| 22 | 100.0 | 53.00 | 54.68 | -3.17 |
| 23 | 100.0 | 52.40 | 54.06 | -3.17 |
| 24 | 130.0 | 52.90 | 54.47 | -2.98 |
| 25 | 160.0 | 53.40 | 54.84 | -2.70 |
| 26 | 200.0 | 54.40 | 55.12 | -1.33 |
| 27 | 250.0 | 55.90 | 54.98 | 1.63 |
| 28 | 250.0 | 55.10 | 54.19 | 1.63 |
| 29 | 300.0 | 54.30 | 53.46 | 1.54 |
| 30 | 350.0 | 53.20 | 52.19 | 1.88 |
| 31 | 400.0 | 50.80 | 50.50 | 0.577 |
| 32 | 450.0 | 48.30 | 48.52 | -0.465 |
| 33 | 500.0 | 45.70 | 46.36 | -1.44 |
| 34 | 500.0 | 45.60 | 46.25 | -1.44 |
| 35 | 550.0 | 43.60 | 44.00 | -0.939 |
| 36 | 600.0 | 41.80 | 41.73 | 0.144 |
| 37 | 650.0 | 39.00 | 39.50 | -1.29 |
| 38 | 700.0 | 37.10 | 37.34 | -0.654 |

JL073EW

PAGE 1

DATA SET: JL073EW

CLIENT: JICA

DATE: Jan, 2001

LOCATION: CHUADANGA

SOUNDING: 6

COUNTY: BANGLADESH

AZIMUTH: 11.5 Deg N-NE

PROJECT: SAFE DRINKING WATER SUPPLY

EQUIPMENT: SyscalR2

ELEVATION: 0.00

SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

Schlumberger Configuration

FITTING ERROR: 2.473 PERCENT

| L# | RESISTIVITY (ohm-m) | THICKNESS (meters) | ELEVATION (meters) | LONG. COND. (Siemens) | TRANS. RES. (Ohm-m ²) |
|----|------------------------|-----------------------|-----------------------|--------------------------|--------------------------------------|
| | | | 0.0 | | |
| 1 | 74.78 | 0.333 | -0.333 | 0.00446 | 24.94 |
| 2 | 382.8 | 1.19 | -1.52 | 0.00312 | 457.7 |
| 3 | 57.23 | 39.44 | -40.96 | 0.689 | 2257.3 |
| 4 | 71.38 | 62.23 | -103.2 | 0.871 | 4442.8 |
| 5 | 65.80 | 81.48 | -184.6 | 1.23 | 5362.3 |
| 6 | 38.99 | 126.1 | -310.8 | 3.23 | 4921.1 |
| 7 | 15.03 | | | | |

ALL PARAMETERS ARE FREE

| No | SPACING (m) | RHO-A (ohm-m) | | DIFFERENCE (percent) |
|----|----------------|---------------|-----------|-------------------------|
| | | DATA | SYNTHETIC | |
| 1 | 1.00 | 148.6 | 145.4 | 2.14 |
| 2 | 2.00 | 191.3 | 192.0 | -0.313 |
| 3 | 4.00 | 168.6 | 172.6 | -2.37 |
| 4 | 6.00 | 123.7 | 126.7 | -2.47 |
| 5 | 6.00 | 116.5 | 119.3 | -2.47 |
| 6 | 8.00 | 83.10 | 89.81 | -8.08 |
| 7 | 10.00 | 72.30 | 73.47 | -1.62 |
| 8 | 15.00 | 59.20 | 59.16 | 0.0537 |
| 9 | 20.00 | 56.80 | 55.93 | 1.51 |
| 10 | 25.00 | 55.30 | 54.94 | 0.641 |

| | | | | |
|----|-------|-------|-------|--------|
| 11 | 25.00 | 50.30 | 49.97 | 0.641 |
| 12 | 30.00 | 49.70 | 49.66 | 0.0759 |
| 13 | 35.00 | 49.30 | 49.59 | -0.608 |
| 14 | 40.00 | 49.30 | 49.67 | -0.762 |
| 15 | 45.00 | 49.50 | 49.83 | -0.682 |
| 16 | 50.00 | 50.10 | 50.05 | 0.0879 |
| 17 | 50.00 | 49.70 | 49.65 | 0.0879 |
| 18 | 60.00 | 50.50 | 50.17 | 0.636 |
| 19 | 70.00 | 51.30 | 50.74 | 1.08 |
| 20 | 80.00 | 52.10 | 51.28 | 1.57 |
| 21 | 90.00 | 52.20 | 51.75 | 0.846 |
| 22 | 100.0 | 51.90 | 52.15 | -0.485 |
| 23 | 100.0 | 52.10 | 52.35 | -0.485 |
| 24 | 130.0 | 51.80 | 52.98 | -2.29 |
| 25 | 160.0 | 52.00 | 52.85 | -1.64 |
| 26 | 200.0 | 50.10 | 51.76 | -3.33 |
| 27 | 250.0 | 49.60 | 49.44 | 0.309 |
| 28 | 250.0 | 50.10 | 49.94 | 0.309 |
| 29 | 300.0 | 47.70 | 46.99 | 1.48 |
| 30 | 350.0 | 45.70 | 43.78 | 4.19 |
| 31 | 400.0 | 42.20 | 40.54 | 3.92 |
| 32 | 450.0 | 34.90 | 37.42 | -7.24 |
| 33 | 500.0 | 33.60 | 34.51 | -2.71 |
| 34 | 500.0 | 39.60 | 40.67 | -2.71 |
| 35 | 550.0 | 37.40 | 37.53 | -0.363 |
| 36 | 600.0 | 34.40 | 34.71 | -0.912 |

JL193EW

PAGE 1

DATA SET: JL193EW

CLIENT: JICA

DATE: Oct, 2000

LOCATION: JHENAIDAHA

SOUNDING: 6

COUNTY: BANGLADESH

AZIMUTH: 11.5 Deg N-NE

PROJECT: SAFE DRINKING WATER SUPPLY

EQUIPMENT: SyscalR2

ELEVATION: 0.00

SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

Schlumberger Configuration

FITTING ERROR: 24.102 PERCENT

| L# | RESISTIVITY (ohm-m) | THICKNESS (meters) | ELEVATION (meters) | LONG. COND. (Siemens) | TRANS. RES. (Ohm-m ²) |
|----|------------------------|-----------------------|-----------------------|--------------------------|--------------------------------------|
| | | | 0.0 | | |
| 1 | 24.05 | 0.495 | -0.495 | 0.0206 | 11.92 |
| 2 | 10.39 | 0.911 | -1.40 | 0.0876 | 9.47 |
| 3 | 304.4 | 4.74 | -6.15 | 0.0155 | 1444.7 |
| 4 | 31.97 | 7.19 | -13.34 | 0.224 | 229.9 |
| 5 | 91.06 | 18.02 | -31.36 | 0.197 | 1641.2 |
| 6 | 39.05 | 216.5 | -247.9 | 5.54 | 8457.4 |
| 7 | 23.68 | | | | |

ALL PARAMETERS ARE FREE

| No | SPACING (m) | RHO-A (ohm-m) | | DIFFERENCE (percent) |
|----|----------------|---------------|-----------|-------------------------|
| | | DATA | SYNTHETIC | |
| 1 | 1.00 | 26.10 | 33.22 | -27.29 |
| 2 | 2.00 | 26.30 | 33.74 | -28.29 |
| 3 | 4.00 | 43.20 | 56.38 | -30.51 |
| 4 | 6.00 | 61.60 | 78.47 | -27.38 |
| 5 | 6.00 | 43.80 | 55.79 | -27.38 |
| 6 | 8.00 | 56.00 | 68.83 | -22.92 |
| 7 | 10.00 | 65.60 | 79.35 | -20.97 |
| 8 | 15.00 | 81.30 | 96.52 | -18.73 |
| 9 | 20.00 | 87.70 | 104.3 | -18.98 |
| 10 | 25.00 | 87.10 | 106.5 | -22.34 |

| | | | | |
|----|-------|-------|-------|--------|
| 11 | 25.00 | 83.60 | 102.2 | -22.34 |
| 12 | 30.00 | 81.80 | 101.4 | -23.98 |
| 13 | 35.00 | 78.30 | 99.06 | -26.51 |
| 14 | 40.00 | 75.60 | 96.06 | -27.07 |
| 15 | 45.00 | 73.10 | 92.90 | -27.08 |
| 16 | 50.00 | 71.80 | 89.80 | -25.07 |
| 17 | 50.00 | 75.40 | 94.30 | -25.07 |
| 18 | 60.00 | 73.00 | 88.34 | -21.01 |
| 19 | 70.00 | 69.10 | 83.21 | -20.41 |
| 20 | 80.00 | 65.40 | 78.79 | -20.47 |
| 21 | 90.00 | 62.00 | 74.94 | -20.87 |
| 22 | 100.0 | 58.20 | 71.58 | -22.99 |
| 23 | 100.0 | 60.50 | 74.41 | -22.99 |
| 24 | 130.0 | 51.60 | 66.29 | -28.48 |
| 25 | 160.0 | 47.70 | 60.84 | -27.55 |
| 26 | 200.0 | 44.60 | 56.13 | -25.86 |
| 27 | 250.0 | 42.70 | 52.42 | -22.77 |
| 28 | 250.0 | 40.70 | 49.97 | -22.77 |
| 29 | 300.0 | 38.70 | 47.48 | -22.69 |
| 30 | 350.0 | 36.90 | 45.46 | -23.22 |
| 31 | 400.0 | 35.20 | 43.70 | -24.17 |
| 32 | 450.0 | 34.00 | 42.13 | -23.91 |
| 33 | 500.0 | 33.20 | 40.70 | -22.61 |
| 34 | 500.0 | 27.00 | 33.10 | -22.61 |
| 35 | 550.0 | 39.10 | 32.06 | 17.98 |

JL045EW

PAGE 1

DATA SET: JL045EW

CLIENT: JICA

DATE: Feb, 2001

LOCATION: JHENAI DAHA

SOUNDING: 6

COUNTY: BANGLADESH

AZIMUTH: 11.5 Deg N-NE

PROJECT: SAFE DRINKING WATER SUPPLY

EQUIPMENT: SyscalR2

ELEVATION: 0.00

SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

Schlumberger Configuration

FITTING ERROR: 1.995 PERCENT

| L# | RESISTIVITY (ohm-m) | THICKNESS (meters) | ELEVATION (meters) | LONG. COND. (Siemens) | TRANS. RES. (Ohm-m ²) |
|----|------------------------|-----------------------|-----------------------|--------------------------|--------------------------------------|
| | | | 0.0 | | |
| 1 | 20.10 | 7.16 | -7.16 | 0.356 | 143.9 |
| 2 | 32.75 | 23.54 | -30.71 | 0.718 | 771.3 |
| 3 | 104.7 | 81.15 | -111.8 | 0.774 | 8502.7 |
| 4 | 33.91 | 205.6 | -317.4 | 6.06 | 6974.4 |
| 5 | 23.11 | | | | |

ALL PARAMETERS ARE FREE

| No | SPACING (m) | RHO-A (ohm-m) | | DIFFERENCE (percent) |
|----|----------------|---------------|-----------|-------------------------|
| | | DATA | SYNTHETIC | |
| 1 | 1.00 | 15.60 | 16.29 | -4.46 |
| 2 | 2.00 | 16.50 | 16.31 | 1.12 |
| 3 | 4.00 | 16.80 | 16.45 | 2.05 |
| 4 | 6.00 | 16.80 | 16.77 | 0.149 |
| 5 | 6.00 | 18.50 | 18.47 | 0.149 |
| 6 | 8.00 | 19.90 | 19.02 | 4.42 |
| 7 | 10.00 | 20.30 | 19.71 | 2.89 |
| 8 | 15.00 | 22.10 | 21.70 | 1.79 |
| 9 | 20.00 | 23.80 | 23.66 | 0.558 |
| 10 | 25.00 | 25.70 | 25.48 | 0.824 |
| 11 | 25.00 | 26.10 | 25.88 | 0.824 |
| 12 | 30.00 | 28.30 | 27.63 | 2.36 |

| | | | | |
|----|-------|-------|-------|---------|
| 13 | 35.00 | 29.90 | 29.32 | 1.91 |
| 14 | 40.00 | 31.80 | 30.99 | 2.51 |
| 15 | 45.00 | 33.20 | 32.65 | 1.63 |
| 16 | 50.00 | 34.90 | 34.29 | 1.74 |
| 17 | 50.00 | 34.30 | 33.70 | 1.74 |
| 18 | 60.00 | 37.30 | 36.81 | 1.31 |
| 19 | 70.00 | 39.60 | 39.71 | -0.290 |
| 20 | 80.00 | 42.90 | 42.35 | 1.27 |
| 21 | 90.00 | 45.70 | 44.69 | 2.19 |
| 22 | 100.0 | 47.70 | 46.74 | 2.00 |
| 23 | 100.0 | 50.80 | 49.78 | 2.00 |
| 24 | 130.0 | 55.70 | 54.53 | 2.09 |
| 25 | 160.0 | 57.20 | 57.04 | 0.267 |
| 26 | 200.0 | 59.90 | 57.92 | 3.30 |
| 27 | 250.0 | 56.50 | 56.54 | -0.0867 |
| 28 | 250.0 | 59.00 | 59.05 | -0.0867 |
| 29 | 300.0 | 55.60 | 56.17 | -1.02 |
| 30 | 350.0 | 53.30 | 52.76 | 1.01 |
| 31 | 400.0 | 47.60 | 49.31 | -3.60 |
| 32 | 450.0 | 46.90 | 46.08 | 1.74 |
| 33 | 500.0 | 43.90 | 43.16 | 1.67 |
| 34 | 500.0 | 44.30 | 43.55 | 1.67 |
| 35 | 550.0 | 41.70 | 40.96 | 1.76 |
| 36 | 600.0 | 38.90 | 38.70 | 0.499 |
| 37 | 650.0 | 36.30 | 36.75 | -1.25 |
| 38 | 700.0 | 34.40 | 35.07 | -1.97 |

JL059NS

PAGE 1

DATA SET: JL059NS

CLIENT: JICA

DATE: Feb, 2001

LOCATION: JESSORE

SOUNDING: 6

COUNTY: BANGLADESH

AZIMUTH: 11.5 Deg N-NE

PROJECT: SAFE DRINKING WATER SUPPLY

EQUIPMENT: SyscalR2

ELEVATION: 0.00

SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

Schlumberger Configuration

FITTING ERROR: 7.086 PERCENT

| L# | RESISTIVITY (ohm-m) | THICKNESS (meters) | ELEVATION (meters) | LONG. COND. (Siemens) | TRANS. RES. (Ohm-m ²) |
|----|------------------------|-----------------------|-----------------------|--------------------------|--------------------------------------|
| | | | 0.0 | | |
| 1 | 362.2 | 0.411 | -0.411 | 0.00114 | 148.9 |
| 2 | 22.06 | 5.36 | -5.77 | 0.243 | 118.2 |
| 3 | 14.01 | 36.90 | -42.67 | 2.63 | 517.3 |
| 4 | 22.06 | 16.51 | -59.18 | 0.748 | 364.2 |
| 5 | 36.79 | 173.9 | -233.0 | 4.72 | 6398.8 |
| 6 | 28.82 | | | | |

ALL PARAMETERS ARE FREE

| No | SPACING (m) | RHO-A (ohm-m) | | DIFFERENCE (percent) |
|----|----------------|---------------|-----------|-------------------------|
| | | DATA | SYNTHETIC | |
| 1 | 1.00 | 86.50 | 104.8 | -21.26 |
| 2 | 2.00 | 23.30 | 26.49 | -13.70 |
| 3 | 4.00 | 16.90 | 18.23 | -7.88 |
| 4 | 6.00 | 17.40 | 17.28 | 0.665 |
| 5 | 6.00 | 19.40 | 19.27 | 0.665 |
| 6 | 8.00 | 20.00 | 18.33 | 8.33 |
| 7 | 10.00 | 18.40 | 17.43 | 5.25 |
| 8 | 15.00 | 15.20 | 15.64 | -2.95 |
| 9 | 20.00 | 15.20 | 14.60 | 3.90 |
| 10 | 25.00 | 13.20 | 14.07 | -6.61 |
| 11 | 25.00 | 15.30 | 16.31 | -6.61 |

| | | | | |
|----|-------|-------|-------|--------|
| 12 | 30.00 | 15.20 | 16.04 | -5.53 |
| 13 | 35.00 | 15.70 | 15.98 | -1.80 |
| 14 | 40.00 | 16.30 | 16.06 | 1.45 |
| 15 | 45.00 | 16.70 | 16.23 | 2.76 |
| 16 | 50.00 | 16.80 | 16.48 | 1.88 |
| 17 | 50.00 | 18.00 | 17.66 | 1.88 |
| 18 | 60.00 | 19.00 | 18.34 | 3.44 |
| 19 | 70.00 | 20.20 | 19.15 | 5.16 |
| 20 | 80.00 | 20.20 | 20.03 | 0.806 |
| 21 | 90.00 | 20.40 | 20.94 | -2.64 |
| 22 | 100.0 | 22.50 | 21.83 | 2.94 |
| 23 | 100.0 | 20.20 | 19.60 | 2.94 |
| 24 | 130.0 | 20.60 | 21.85 | -6.09 |
| 25 | 160.0 | 19.20 | 23.75 | -23.70 |
| 26 | 200.0 | 28.00 | 25.74 | 8.04 |
| 27 | 250.0 | 26.80 | 27.54 | -2.79 |
| 28 | 250.0 | 31.50 | 32.37 | -2.79 |
| 29 | 300.0 | 38.10 | 33.83 | 11.19 |
| 30 | 350.0 | 34.90 | 34.81 | 0.231 |
| 31 | 400.0 | 33.50 | 35.47 | -5.88 |
| 32 | 450.0 | 36.30 | 35.88 | 1.14 |
| 33 | 500.0 | 37.90 | 36.13 | 4.66 |
| 34 | 500.0 | 32.00 | 30.50 | 4.66 |
| 35 | 550.0 | 30.30 | 30.61 | -1.05 |
| 36 | 600.0 | 29.70 | 30.66 | -3.23 |
| 37 | 650.0 | 29.80 | 30.65 | -2.87 |

JL104EW

PAGE 1

DATA SET: JL104EW

CLIENT: JICA

DATE: Jan, 2001

LOCATION: JESSORE

SOUNDING: 6

COUNTY: BANGLADESH

AZIMUTH: 11.5 Deg N-NE

PROJECT: SAFE DRINKING WATER SUPPLY

EQUIPMENT: SyscalR2

ELEVATION: 0.00

SOUNDING COORDINATES: X: 0.0000 Y: 0.0000

Schlumberger Configuration

FITTING ERROR: 3.541 PERCENT

| L# | RESISTIVITY (ohm-m) | THICKNESS (meters) | ELEVATION (meters) | LONG. COND. (Siemens) | TRANS. RES. (Ohm-m ²) |
|----|------------------------|-----------------------|-----------------------|--------------------------|--------------------------------------|
| | | | 0.0 | | |
| 1 | 25.20 | 4.69 | -4.69 | 0.186 | 118.2 |
| 2 | 15.03 | 43.00 | -47.69 | 2.85 | 646.7 |
| 3 | 14.02 | 42.78 | -90.48 | 3.05 | 600.1 |
| 4 | 19.06 | 94.55 | -185.0 | 4.95 | 1802.5 |
| 5 | 41.64 | 105.4 | -290.5 | 2.53 | 4392.7 |
| 6 | 27.78 | | | | |

ALL PARAMETERS ARE FREE

| No | SPACING (m) | RHO-A (ohm-m) | | DIFFERENCE (percent) |
|----|----------------|---------------|-----------|-------------------------|
| | | DATA | SYNTHETIC | |
| 1 | 1.00 | 31.90 | 30.10 | 5.62 |
| 2 | 2.00 | 32.60 | 29.99 | 8.00 |
| 3 | 4.00 | 27.10 | 29.24 | -7.93 |
| 4 | 6.00 | 26.60 | 27.87 | -4.78 |
| 5 | 6.00 | 23.70 | 24.83 | -4.78 |
| 6 | 8.00 | 23.90 | 23.37 | 2.21 |
| 7 | 10.00 | 22.30 | 21.96 | 1.51 |
| 8 | 15.00 | 19.50 | 19.38 | 0.577 |
| 9 | 20.00 | 17.70 | 18.00 | -1.69 |
| 10 | 25.00 | 16.70 | 17.27 | -3.42 |
| 11 | 25.00 | 17.50 | 18.09 | -3.42 |

| | | | | |
|----|-------|-------|-------|--------|
| 12 | 30.00 | 16.80 | 17.67 | -5.21 |
| 13 | 35.00 | 16.70 | 17.42 | -4.33 |
| 14 | 40.00 | 16.80 | 17.26 | -2.76 |
| 15 | 45.00 | 16.80 | 17.16 | -2.15 |
| 16 | 50.00 | 16.70 | 17.09 | -2.34 |
| 17 | 50.00 | 17.40 | 17.80 | -2.34 |
| 18 | 60.00 | 17.40 | 17.73 | -1.91 |
| 19 | 70.00 | 17.20 | 17.71 | -3.01 |
| 20 | 80.00 | 17.00 | 17.75 | -4.41 |
| 21 | 90.00 | 17.10 | 17.82 | -4.22 |
| 22 | 100.0 | 17.80 | 17.92 | -0.724 |
| 23 | 100.0 | 17.00 | 17.12 | -0.724 |
| 24 | 130.0 | 17.40 | 17.59 | -1.09 |
| 25 | 160.0 | 17.80 | 18.23 | -2.45 |
| 26 | 200.0 | 18.60 | 19.24 | -3.46 |
| 27 | 250.0 | 20.10 | 20.58 | -2.39 |
| 28 | 250.0 | 19.00 | 19.45 | -2.39 |
| 29 | 300.0 | 20.70 | 20.68 | 0.0765 |
| 30 | 350.0 | 21.20 | 21.81 | -2.91 |
| 31 | 400.0 | 22.40 | 22.83 | -1.92 |
| 32 | 450.0 | 24.50 | 23.71 | 3.18 |
| 33 | 500.0 | 25.20 | 24.48 | 2.83 |
| 34 | 500.0 | 24.00 | 23.32 | 2.83 |
| 35 | 550.0 | 23.40 | 23.94 | -2.33 |
| 36 | 600.0 | 23.80 | 24.48 | -2.86 |
| 37 | 650.0 | 24.10 | 24.93 | -3.48 |