4  A village survey: Mandari, Lakshmipur

A rapid hydrochemical survey of the mouza (village) of Mandari, Lakshmipur District was carried out during November 1999.

Arsenic in the survey was measured in a various field 'laboratories' using an Arsenator developed and operated by Professor Walter Kosmus of Karl-Franzens University of Graz, Austria.

The shallow wells in Mandari are at a fairly uniform depth — mostly in the range 30–36 ft (9–11 m). Additional analyses were also carried out on acidified samples by ICP-AES as with the other surveys. A discussion of the data is given in Chapter 8 A village survey: Mandari, Lakshmipur District of the Main Report.

SAMPLE POINTS
Depth of Well

Aluminium
ARSENIC

ARSENIC (CLOSE-UP)
**Boron**

![Boron Map]

**Barium**

![Barium Map]
A village survey: Mandari, Lakshmipur

**CALCIUM**

- Village boundary
- Path
- Track
- Tarmac road
- Triangles for deep wells
- Amin bazar
- Mandari bazar
- Union Council offices
- School
- Chairman's house
- Mosque
- Wabda river
- Noakhali

**IRON**

- Village boundary
- Path
- Track
- Tarmac road
- Triangles for deep wells
- Amin bazar
- Mandari bazar
- Union Council offices
- School
- Chairman's house
- Mosque
- Wabda river
- Noakhali

*Note: The maps show the distribution of calcium and iron levels in the area.*
**Magnesium**

**Manganese**
**PHOSPHORUS**

![Map of Phosphorus]

- Landmark
- Village boundary
- Path
- Track
- Tarmac road
- < 0.17 mg L\(^{-1}\)
- 0.17–0.3
- 0.3–0.7
- > 0.7

**POTASSIUM**

![Map of Potassium]

- Landmark
- Village boundary
- Path
- Track
- Tarmac road
- < 6.9 mg L\(^{-1}\)
- 6.9–9.3
- 9.3–12.8
- > 12.8

- Amin bazar
- Mandari bazar
- Union Council offices
- Wabda river
- Noakhali
- Lakshmipur
- School
- Mosque
- Training Centre
- Triangles for deep wells
SILICON

SODIUM
STRONTIUM

[Schematic diagram of strontium levels in Mandari, Lakshmipur]

SULPHATE

[Schematic diagram of sulphate levels in Mandari, Lakshmipur]