HYDROGEOLOGY of LAKE MACKAY

**Rainsfall**

- **Jan-Dec**: Mean Monthly Rainfall (mm)
  - 20 mm
  - 40 mm
  - 60 mm
  - 0 mm

**Water Resources**

- **Water for road construction**: TDS <20,000 mg/L
- **Water for cattle**: TDS <8,000 mg/L

**Water Supplies from Bores**

- Suitable for most uses depending on water quality which is variable.

**Groundwater**

- **A**: Source: percolate rain
  - Reasonable geological data
  - Reasonable water yield

- **C**: Source: percolate rain
  - Reasonable geological data
  - Reasonable water yield

- **D**: Source: percolate rain
  - Reasonable geological data
  - Reasonable water yield

- **E**: Source: percolate rain
  - Reasonable geological data
  - Reasonable water yield

- **F**: Source: percolate rain
  - Reasonable geological data
  - Reasonable water yield

- **G**: Source: percolate rain
  - Reasonable geological data
  - Reasonable water yield

- **H**: Source: percolate rain
  - Reasonable geological data
  - Reasonable water yield

- **I**: Source: percolate rain
  - Reasonable geological data
  - Reasonable water yield

- **J**: Source: percolate rain
  - Reasonable geological data
  - Reasonable water yield

**Notes**

- Fresh water contains less than 1,000 mg/L Total Dissolved Salts (TDS).
- Brackish water contains between 1,500 mg/L and 3,000 mg/L TDS.
- Fresh water contains between 0 and 1,500 mg/L TDS.

**Bore Density**

- **A**: Good percolation rate
  - Reasonable geological data
  - Reasonable water yield
- **B**: Good percolation rate
  - Reasonable geological data
  - Reasonable water yield
- **C**: Good percolation rate
  - Reasonable geological data
  - Reasonable water yield
- **D**: Good percolation rate
  - Reasonable geological data
  - Reasonable water yield

**Reliability Diagram**

- **A**: Good percolation rate
  - Reasonable geological data
  - Reasonable water yield
- **B**: Good percolation rate
  - Reasonable geological data
  - Reasonable water yield
- **C**: Good percolation rate
  - Reasonable geological data
  - Reasonable water yield
- **D**: Good percolation rate
  - Reasonable geological data
  - Reasonable water yield

**Legend**

- **Green**: Good percolation rate
- **Yellow**: Reasonable percolation rate
- **Red**: Unsatisfactory percolation rate
- **Blue**: Non-permeable bedrock

**Map Grid of Australia (MGA) Zone 52**: Transverse Mercator Projection

- **Horizontal Datum**: GDA 94
- **Vertical Datum**: AHD (metres)

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**Department of Lands, Planning and Environment.**

**Information Group 1:250 000 topographic maps supplied through the Land Information Division, NTDLPE.**

**GEOLOGY OF THE REGION**

- **Salt lakes, playas, and evaporite deposits**: Usually brackish water.
- **Claypans**: Low yielding bores. Water quality varies from fresh to brackish.
- **Calcrete**: Low yielding stock and road bores.
- **Low permeability mudstones and clays containing brackish to saline sediments**: Suitable for most uses depending on water quality which is variable.

**Hydrogeological advice should be sought if fresh water supplies are required.**

**Suitable for most uses depending on water quality which is variable.**

**Water supplies from bores are typically between 1 and 5 litres per second.**

**Outstation supplies are possible, depending on water quality. Generally**

**Water supplies from bores are typically less than 1 litre per second.**

**Low yielding stock and road bores.**

**Hot rock**: Generally not suitable for drinking water supplies. Generally good hydrogeological data.

**Rocks**: Suitable for most uses depending on water quality which is variable.

**Water supplies from bores are typically between 1 and 5 litres per second.**

**Low yielding stock and road bores.**