Hydrogeology of Delamere: 1:250,000 Scale Map
Explanatory Notes
HYDROGEOLOGY OF
DELAMERE

1:250 000 Scale Map
Explanatory Notes

WATER RESOURCES DIVISION
DEPARTMENT OF LANDS
PLANNING AND ENVIRONMENT
HYDROGEOLOGY OF

DELAMERE

1: 250 000 Scale Map
Explanatory Notes

Ian Matthews
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ABSTRACT

A hydrogeological map of the Delamere region is presented as part of the assessment of the groundwater resources of the Victoria River Region of the Northern Territory, Australia. The map shows major aquifer types and their potential yields. A database containing information on all the recorded bores on the sheet is included with this report.

The majority of aquifers are formed in fractured and weathered rocks, including sandstone, basalt, siltstone and dolomite of Proterozoic and Early Palaeozoic age. They are commonly local in extent and the yields, although small, are generally adequate for community/homestead supplies and for stock watering. Of the 194 recorded water bores on the Delamere sheet, 104 yielded more than 0.5 L/s of potable water. Rock type, the fracture pattern and weathering are the main controls on groundwater availability.

The Cambrian limestones and Cretaceous sandstones on the eastern margin of the sheet are extensive, regional aquifers with potentially large supplies. Cainozoic sediments associated with the Victoria River yield small supplies.

1.0 INTRODUCTION

1.1 General

The 1:250 000 scale hydrogeological map of Delamere is the first published hydrogeological map of the region and covers the area between latitudes of 15° 00' and 16° 00' S and longitudes 130° 30' and 132° 00' E (Figure 1). The main access is provided by the sealed Victoria and Buchanan Highways. The formed road from the Victoria Highway to Top Springs and numerous graded gravel roads provide access to the various cattle stations. The map includes all or parts of seven cattle stations, four Aboriginal Land Trusts, parts of the Gregory National Park and the RAAF Delamere Weapons Testing Range. There is also some vacant crown land (currently under land claim) in the south-eastern corner.

1.2 Climate

The climate is monsoonal, with a long dry season between April and October, and a short rainy season from November to March. The yearly rainfall is nearly 1000 mm in the north-west and about 700 mm in the south-east (Figure 2). Average monthly rainfall data from Willeroo homestead is shown as a side figure on the hydrogeological map. Evaporation is high, averaging 3200 mm per year (Figure 2) with monthly evaporation exceeding monthly rainfall throughout the year.

Mean daily maximum temperatures range from about 29°C in June and July, to near 38°C in November and December, while mean daily minima for the same months are 13°C and 24°C.
Average annual rainfall and evaporation for the Victoria River Region

Bureau of Meteorology, Darwin

Figure 2
1.3 Geomorphology

The map area falls within four major geomorphic regions (modified here from Sweet, 1972). These are shown on a side map on the hydrogeological map.

**Tablelands and Sloping Plateaus** is underlain by flat-lying to gently sloping Proterozoic sedimentary rocks. The elevation of the tablelands and plateaus is generally over 200 m (with a maximum of just over 300 m) and they are often bounded by scarps that are up to 150 m above sea level. The scarps are more prominent where the plateau is capped by the resistant Jasper Gorge Sandstone. In the southeast, less precipitous scarps occur where the sandstone/siltstone interbeds of the Stubb Formation are present. The Victoria River and some of its tributaries are deeply incised into the tablelands.

**Victoria River Plains and Benches** is typified by rounded and terraced low hills developed over the flat-lying Antrim Plateau Volcanics. Drainage of the southern half is to the west while the northern section drains to a central depression and then northward through the Aroona Creek. Elevations are typically 150 - 200 m above sea level.

**Sturt Plateau** occupies the eastern part of the map and represents the remnants of an extensive peneplain which developed in the Late Cretaceous or Tertiary time and is typically underlain by Cretaceous sediments overlying Cambrian limestones of the Wiso Basin. Its elevation is typically about 250 m. Remnants of the plateau overlie the Tablelands to the west. The drainage is subdued and is to the east and northeast.

**Inland Plains** comprise two north-easterly trending belts within the Tablelands and Plateaus. The northern belt is underlain by the soft Angalarri Siltstone and the southern belt by the readily eroded, siltstone-dominated Bynoe Formation. These areas form the lowest points on the map sheet with elevations ranging from 20 - 70 m.

Drainage patterns within the Proterozoic sediments and the Antrim Plateau Volcanics is predominately dendritic with significant lithological and structural control in some areas. Within the Sturt Plateau the pattern is ‘linear’ down the slope. There are fewer drainage lines there due to deep sandy soils which provide less run-off.

1.4 Surface Water

The Delamere map sheet includes parts of the Victoria River, Daly River and Fitzmaurice surface drainage basins with approximate coverage of 75%, 23% and 2% respectively.

There are no permanent streams in the area. The Victoria River stops flowing around August each year leaving numerous, large permanent waterholes. There are also permanent waterholes in a number of other creeks, some of which may be spring fed.
2.0 GEOLOGY

The geology of the Delamere map sheet has been described by Sweet (1972) and that of the northern Victoria River region by Sweet et al (1974). The Delamere sheet covers parts of four geological provinces, the Victoria, Wiso and Daly Basins and the Antrim Plateau Volcanics (Figure 3). The Victoria Basin covers approximately 70% of the map sheet and contains a thick sequence of gently folded to flat-lying Proterozoic sedimentary rocks. On Delamere the basin fill comprises two major groups, the Bullita Group, a dolomite/siltstone sequence and the overlying Auvergne Group, a sandstone/siltstone dominant sequence. The groups are separated by a regional low angle unconformity causing the Auvergne Group to overlie progressively older formations of the Bullita Group from south-east to south-west. From oldest to youngest, the formations of the Victoria Basin are described below:

The oldest unit is the Timber Creek Formation, a red/brown siltstone with interbeds of fine to medium grained flaggy sandstone. It grades up into the Skull Creek Formation which is composed of dolomite, siltstone, sandstone and chert and is up to 240 m thick. The Bardia Chert Member, a red/brown to pink chert occurs at the top of the Skull Creek Formation and is up to 15 m thick. In places it is vuggy and/or brecciated and recemented. A distinctive, 30 m thick dolomite layer is present 60 m below the top of the Skull Creek Formation.

The Bynoe Formation consists of thick-bedded, red-brown, grey, green and white dolomitic siltstone with thin interbeds of fine grained sandstone and dolomite. The siltstone is similar to that of the Timber Creek Formation, but with fewer and thinner sandstone interbeds.

The Wondoan Hill Formation is comprised of a basal glauconitic sandstone succeeded by green siltstone and shale, with sandstone interbeds. It is overlain in places by the Stubb Formation and by the Jasper Gorge Sandstone. The Stubb Formation, the basal formation of the Auvergne Group consists of brown, white and purple micaceous, quartz siltstone, grading upwards into white and brown sandstone with siltstone interbeds. The unit was deposited on an irregular erosion surface as its thickness varies from 200 m at Stokes Range to nothing only fifteen kilometres to the north.

The Angalarri Siltstone is a soft, grey to green quartz siltstone with minor fine grained sandstone and limestone. The unit underlies the Angalarri River Valley where it is up to 400 m thick.

The Pinkerton Sandstone, Saddle Creek Formation and Jasper Gorge Sandstone all consist of fine to medium grained quartz sandstone with minor siltstone. The Pinkerton Sandstone and the Saddle Creek Formation are generally less than 50 m thick while the Jasper Gorge Sandstone can be up to 100 m in places.

In the eastern part of the map area the Victoria Basin is overlain by the Antrim Plateau Volcanics a basalt sequence of Lower Cambrian age. Dark grey/green coarse grained basalt is the main rock type with minor interbeds of sandstone, conglomerate, chert and limestone. The interbeds average less than 3 m thick but occasionally reach...
REGIONAL GEOLOGY OF THE VICTORIA RIVER REGION

Base mapping by N.T Geological Survey Division
Department of Mines and Energy

Figure 3
a maximum of 30 m. The volcanics were erupted under sub-aerial conditions onto an undulating landscape where they filled valleys up to 60 m deep. The overall thickness of the volcanics is of the order of 150 m. Numerous water bores penetrate through the basalt into Proterozoic formations below.

The volcanics are overlain by limestone, sandstone, dolomite, siltstone and mudstone of the Wiso and Daly Basins. The Daly Basin covers the northeast corner of the map while the remainder of the eastern area falls within the Wiso Basin. The boundary between the two is poorly defined at present. On Delamere the Wiso Basin sequence consists of the Montejinni Limestone. Three units are recognised in that formation on the adjoining Larrimah sheet to the east, an upper and a lower limestone each about 25 m thick and an intervening red/brown mudstone about 10 m thick. The lower limestone and the mudstone outcrop around the southwestern margin of the basin just west of the Delamere road, however it is not known if the upper limestone extends onto the Delamere sheet.

The Daly basin sequence comprises the Tindall Limestone overlain by the Jinduckin Formation. The Tindall Limestone is a massive thinly bedded limestone up to 150 m thick, although it is probably considerably thinner within Delamere. The unit crops out as a discontinuous belt along the northwestern edges of the basin. The Jinduckin Formation consists of siltstone, shale and limestone and is conformable on the Tindall Limestone.

A thin mantle of lateritised Cretaceous claystone and sandstone caps the Sturt Plateau. A narrow strip of alluvial silt, clay, sand and gravel and up to 30 m thick are associated with the Victoria River, downstream of the confluence with the Gregory Creek.

3.0 HYDROGEOLOGY

Groundwater is stored in and moves through minute spaces in rocks caused by fractures (cracks), the spaces between sand grains or spaces where minerals have dissolved away. If economically viable quantities of water can be extracted, the water bearing horizon is termed an aquifer.

Aquifers on the Delamere sheet were mapped according to average yield and aquifer typed. In general water quality is good enough for most domestic and stock purposes so this factor was not mapped. Yields are grouped into three classes; less than 0.5 L/s, 0.5 to 5.0 L/s and more than 5.0 L/s. Typical uses for bores within these yield ranges are:

<table>
<thead>
<tr>
<th>Yield Range</th>
<th>Typical Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 0.5 L/s</td>
<td>Small domestic supplies</td>
</tr>
<tr>
<td>0.5 - 5.0 L/s</td>
<td>Stock and domestic, community supplies up to 350 people.</td>
</tr>
<tr>
<td>More than 5.0 L/s</td>
<td>Irrigation, town supplies, large scale stock supplies.</td>
</tr>
</tbody>
</table>

The yields shown on the maps are meant to give an indication on the most likely yield which could be expected. Natural variations in the properties of rocks means that
variation also occurs in groundwater yields. For example in a zone mapped as 0.5 - 5.0 L/s, a certain percentage of bores may obtain higher yields and some may be lower, but most will fall within the range. At a specific site, yield is often highly dependent on the number of water bearing fractures intersected. There are generally too few existing bores to determine the likely yields with statistical certainty. Rather they are based on a combination of geological knowledge and known yields.

Three classes of aquifer type are depicted on the map; unconsolidated sediments; fractured and karstic rocks; and fractured and weathered rocks. These take porosity/permeability types and rock type into account.

Generalized groundwater characteristics for each of the main geological formations are summarized in Table 1.

3.1 Unconsolidated Sediments

The Quaternary Terrace deposits are the only surficial sediments with sufficient depth (up to 30 m) to form aquifers. Alluvial sand and gravel forms a narrow aquifer along the lower reaches of the Victoria River and potable water supplies up to 4.5 L/s have been reported on Coolibah Station (RN 27285). The average yield and standing water level for successful bores is 1.8 L/s and 19 m respectively.

Although alluvium extends along the Victoria River from its junction with Gregory Creek, it is generally too thin and shallow to form aquifers. The Fitzroy and Coolibah homestead bores and one of the bores at the Victoria River Roadhouse tap this aquifer, as well as two stock bores west of Fitzroy homestead.

Saline water is likely to be present in this aquifer adjacent to those sections of the river which are tidal.

3.2 Fractured & Karstic Rocks - Extensive Aquifers

These units form large regional aquifers and provide the most substantial and reliable groundwater resources in the region.

Groundwater occurrence is mostly controlled by fractures and solution cavities. Few bores have been drilled into this unit on the Delamere sheet but experience in areas to the east and northeast suggests that aquifers will be present in the main geological formations including the Tindall Limestone, Jinduckin Formation and Montejinni Limestone. The success rate is likely to be high, with potential yields of more than 5 L/s, and in places up to 50 L/s.

Only small areas of the Jinduckin Formation and Tindall Limestone are present in the north-east corner of the map and the Montejinni Limestone occurs in a strip along the eastern edge. The majority of recharge would be associated with direct infiltration of rainfall during the wet season.
## TABLE 1

### GROUNDWATER CHARACTERISTICS OF DELAMERE

<table>
<thead>
<tr>
<th>UNIT WITH MAP SYMBOL</th>
<th>HYDROGEOLOGICAL CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Terrace Deposits (Qt)</strong></td>
<td>Sand, silt and gravel</td>
</tr>
<tr>
<td><strong>Mullaman Beds (Kim)</strong></td>
<td>Saccharoidal and glauconitic sandstone, siltstone and conglomerate</td>
</tr>
<tr>
<td><strong>Jinduckin Formation (Coij)</strong></td>
<td>Limestone, calcareous sandstone, siltstone and shale</td>
</tr>
<tr>
<td><strong>Tindall Limestone (Cmt)</strong></td>
<td>Massive, thinly bedded limestone with chert bands and nodules</td>
</tr>
<tr>
<td><strong>Montejinni Limestone (Cmm)</strong></td>
<td>Limestone, dolomite, calcareous mudstone</td>
</tr>
<tr>
<td><strong>Antrim Plateau Volcanics (Cla)</strong></td>
<td>Massive tholeiitic basalt, with interbedded sandstone and conglomerate</td>
</tr>
<tr>
<td><strong>Pinkerton Sandstone (Pap)</strong></td>
<td>Quartz sandstone, minor siltstone</td>
</tr>
<tr>
<td><strong>Saddle Creek Formation (Pad)</strong></td>
<td>Cross-bedded sandstone, minor siltstone and shale</td>
</tr>
<tr>
<td><strong>Angalaari Siltstone (Paa)</strong></td>
<td>Further Grey to green quartz siltstone, minor shale</td>
</tr>
<tr>
<td><strong>Jasper Gorge Sandstone (Paj)</strong></td>
<td>Massive, medium grained, white to brown sandstone</td>
</tr>
<tr>
<td><strong>Stubb Formation (Pat)</strong></td>
<td>Micaceous siltstone and shale, minor sandstone interbeds</td>
</tr>
<tr>
<td><strong>Wondoan Hill Formation (Pwo)</strong></td>
<td>Glauconitic siltstone and sandstone</td>
</tr>
<tr>
<td><strong>Bynoe Formation (Pby)</strong></td>
<td>Deeply Multi-coloured siltstone, minor sandstone</td>
</tr>
<tr>
<td><strong>Skull Creek Formation (Pbs)</strong></td>
<td>Dolomite, minor dolomitic siltstone and sandstone</td>
</tr>
<tr>
<td><strong>Bardia Chert Member (Pbm)</strong></td>
<td>Red to pink chert and vuggy chert</td>
</tr>
<tr>
<td><strong>Timber Creek Formation (Pbt)</strong></td>
<td>Siltstone and shale, minor fine-grained sandstone</td>
</tr>
</tbody>
</table>

- **Terrace Deposits (Qt)**
  - Yields to 5 L/s where sufficient thickness exists
- **Mullaman Beds (Kim)**
  - Located above the water table, normally dry
- **Jinduckin Formation (Coij)**
  - Yields usually 1 - 5 L/s, up to 10 L/s. Least prospective unit of Wiso/Daly Basins
- **Tindall Limestone (Cmt)**
  - Prolific aquifer (10 L/s +), high secondary permeability due to karstic features
- **Montejinni Limestone (Cmm)**
  - Prolific aquifer (10 L/s +), considered equivalent to parts of the Tindall Limestone
  - Yields to 5 L/s, aquifers in fractured zones and at top and bottom contact and flow interfaces. Best to target airphoto and satellite image lineament/fracture zones.
- **Pinkerton Sandstone (Pap)**
  - Yields to 5 L/s
- **Saddle Creek Formation (Pad)**
  - Effectively impermeable, poor groundwater prospects, investigation/drilling not warranted
  - Yields to 5 L/s, successful drilling at depths up to 150 m
- **Angalaari Siltstone (Paa)**
  - Yields to 5 L/s, improved success rate from sandier sections in upper part of formation
  - Yields to 5 L/s, moderate success rate only
- **Jasper Gorge Sandstone (Paj)**
  - Generally poor prospects, some aquifers developed in weathered zones, no supplies below 40 m
  - Yields to 5 L/s
- **Stubb Formation (Pat)**
  - Yields to 5 L/s, more prospective than the underlying and overlying formations
  - Yields to 5 L/s, supply dependant on fracturing, only small supplies from sandstone interbeds
The Jinduckin Formation is the least productive formation of the Daly Basin. Yields average 1 - 5 L/s with occasional yields to 10 L/s or more. No drilling has been undertaken in this unit on Delamere.

The Tindall Limestone is a massive limestone and in places is a prolific aquifer. It typically displays high secondary permeability associated with sinkholes and other karstic features which allow for direct recharge to the aquifer. Loss of circulation is common when drilling this formation due to the presence of cavities. As such, bores drilled into the cavernous limestone can have anonymously low airlift yields which improve markedly when test pumped.

The 6 bores drilled for the RAAF Weapons Testing Range encountered limestone, sandstone, mudstone and clay (Verma 1988). Those which encountered the limestone and sandstone at depth had yields above 5 L/s while others nearby struck mudstone and clay and were dry or had low yields. The highest yielding bore (RN 25386 which was test pumped at 18 L/s) is the most easterly of all six bores. It appears that close to the edge of the basin, the highly permeable limestone may not always be present.

3.3 Fractured & Weathered Rocks

Fractured and weathered rock aquifers are typically extremely varied in hydraulic characteristics making yield predictions difficult. As a result, bores in the same rock type can have widely differing aquifer properties, even within a small area. The intensity and type of fracturing and faulting all effect groundwater prospects within individual rock types. The more fractures intersected the greater the chance of locating water. The degree and depth of weathering of the rocks also influence the chances of success. Weathering can increase porosity and permeability by opening fractures and dissolving minerals.

3.3.1 Timber Creek Formation

There is only a small section of the Timber Creek Formation in the central western part of the map sheet and no bores have been drilled into it on the Delamere map sheet.

The nearby Timber Creek township water supply is drawn from this formation. Bore yields ranged from up to 30 L/s, dependant on the intensity of fracturing within the siltstones and shales. These rocks probably have a degree of secondary porosity due to dissolution of dolomite. Thin interbeds of fine grained sandstone only provide small supplies.

3.3.2 Skull Creek Formation

Less than 10 bores have been drilled into this formation and of these only half were successful with yields around 2 L/s. The drillers log invariably describes the strata as 'limestone and dolomite' in both successful bores and unsuccessful bores. Targeting fractured areas, appears to be the best way to achieve a higher success rate.
3.3.3 Bardia Chert Member

The Bardia Chert Member is a chert unit up to 15 m thick at the top of the Skull Creek Formation. It is a reasonable aquifer but more importantly it is more prospective than the overlying Bynoe Formation, and the underlying Skull Creek Formation. The average yield is 1.4 L/s with the standing water level ranging from 20 - 40 m below ground level.

3.3.4 Bynoe Formation

The groundwater prospects within this siltstone unit are generally poor, with only 7 successful bores out of 27 drilled. Bores have been drilled to more than 150 m, but no water strikes have occurred deeper than 38m. It appears that minor aquifers are associated with shallow weathered rock. Further drilling should be sited by a hydrogeologist and drilled to a maximum depth of 50 m.

3.3.5 Wondoan Hill Formation

There are no bores drilled in this unit on the map sheet. Drilling on the Victoria River Downs sheet to the south had a moderate success rate with the strata dominated by multi-coloured siltstone. Yields of 1 - 2 L/s would be expected.

3.3.6 Stubb Formation

Just over half the bores drilled into this formation have been successful. Yields range up to 4.5 L/s (average of 2.2 L/s) with standing water levels between 3 - 21 m. The majority of the successful bores were drilled through overlying basalt and struck water in the top 30 m of the formation, which is known to contain a higher proportion of sandstone beds than deeper sections of the formation.

3.3.7 Pinkerton Sandstone, Saddle Creek Formation, Jasper Gorge Sandstone

The Pinkerton Sandstone and Saddle Creek Formation are present only in the extreme north-west corner of the map sheet. Most bores yield more than 1.5 L/s, with occasional yields to 10 L/s.

The Jasper Gorge Sandstone forms an aquifer in the northwest and northern parts of the mapsheet. Slightly over half of the bores drilled into it have been successful with water strikes as deep as 90 m and standing water levels ranging from 3 - 40 m. Yields average 2 L/s. Many of the bores started in the overlying basalt and up to 85 m of basalt was drilled before sandstone was encountered. Water was commonly struck in weathered sandstone at the contact between the two rock types.

In the western portion of the map sheet, the Jasper Gorge Sandstone underlies the very unprospective Angalaari Siltstone. At the Bulla Camp community, west of the Delamere sheet, drilling has been successful when targeting the sandstone below the siltstone at depths up to 150 m. This suggests that permeability can exist at considerable depth.
3.3.8 Angalarri Siltstone

The Angalarri Siltstone occurs beneath the Angalarri River valley. The unit is effectively impermeable and offers poor groundwater prospects. No drilling has been undertaken on the Delamere. On Auvergne Station to the west of the map sheet small supplies of water were occasionally encountered in thin interbeds of sandstone and dolomite.

3.3.9 Antrim Plateau Volcanics

Approximately 40 out of the 70 bores drilled into this formation were successful. Most struck water from 20 - 70 m with the maximum being 136 m and typically yielding 1 - 3 L/s. The standing water level ranged from 3 - 70 m, with the majority being less than 30 m.

Bores targeting fractured zones adjacent to distinct aerial photograph and satellite imagery lineaments tend to have a higher success rate and a higher yield. The prime targets for bores in this unit are where the local drainage pattern follows these lineaments, and where lineaments cross creeks. Many small fractures occur within the basalt and careful aerial photograph interpretation should be undertaken prior to bore site selection.

Of the sedimentary interbeds, only the sandstone is known to form aquifers. In most places however, it appears to be too thin to exploit by drilling although a number of springs and waterholes appear to be associated with the sandstones.

The majority of springs are small and emanate from porous zones associated with the horizontal partings between lava flows. Some springs marked on maps as permanent were found to be dry during inspection (November 1996).

4.0 GROUNDWATER QUALITY

The groundwater quality in the area is almost always suitable for human consumption, being within the NHMRC limits for potable water (see Table 2 for the guideline limits for potable and stock use). All groundwaters are suitable for stock. Chemical analyses are listed in Appendix 2 and are shown graphically on the Durov Diagram on the hydrogeological map.

There is little variation in the chemistry of the groundwaters with all successful bores having a low Total Dissolved Solids (TDS), a neutral to alkaline pH with low nitrate and fluoride levels. Although concentrations of individual ions do change (mostly depending on aquifer type), the bulk water chemistry is very consistent.

The TDS of water from the unconsolidated sediments typically ranges from 300 - 500 mg/L. The water is slightly alkaline with low individual ion components apart from a carbonate hardness over 300 mg/L. Very hard water (defined as more than 200 mg/L as calcium carbonate) is likely to cause scaling, encrustation and inhibit the solubility
**TABLE 2**

**WATER QUALITY REQUIREMENTS FOR STOCK AND DOMESTIC WATER**

### 1. WATER QUALITY STANDARDS FOR STOCK USE

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>GUIDELINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH range</td>
<td>5.5 - 9.0</td>
</tr>
<tr>
<td>Total dissolved solids</td>
<td>8000mg/L</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>Not more than 75% when total dissolved solids</td>
</tr>
<tr>
<td></td>
<td>near limit.</td>
</tr>
<tr>
<td>Sulphate</td>
<td>2000mg/L</td>
</tr>
<tr>
<td>Nitrate</td>
<td>400mg/L</td>
</tr>
<tr>
<td>Fluoride</td>
<td>5.0mg/L</td>
</tr>
<tr>
<td>Magnesium</td>
<td>300mg/L</td>
</tr>
</tbody>
</table>

The composition of mineral supplements to stock feed must be considered when stock waters are near to the guideline limits, especially for fluoride and sulphate. Further information is available from the Chief Veterinary Officer, Northern Territory Department of Primary Industry and Fisheries.

### 2. WATER QUALITY STANDARDS FOR DOMESTIC USE (NATIONAL HEALTH AND MEDICAL RESEARCH COUNCIL, AUSTRALIAN DRINKING WATER GUIDELINES 1996)

Analyses of water intended for human consumption should lie within the guidelines listed below. Discussion relating to the quality of domestic water should be addressed to the Northern Territory Department of Health and Community Services.

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>GUIDELINEVALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH range</td>
<td>6.5 - 8.5*</td>
</tr>
<tr>
<td>Total dissolved solids</td>
<td>500mg/L**</td>
</tr>
<tr>
<td>Chloride</td>
<td>250mg/L**</td>
</tr>
<tr>
<td>Sulphate</td>
<td>250mg/L**</td>
</tr>
<tr>
<td>Nitrate</td>
<td>50mg/L***</td>
</tr>
<tr>
<td>Fluoride</td>
<td>1.5mg/L</td>
</tr>
<tr>
<td>Hardness (as Calcium Carbonate)</td>
<td>200mg/L*</td>
</tr>
<tr>
<td>Sodium</td>
<td>180mg/L*</td>
</tr>
</tbody>
</table>

(*) Values outside of the guidelines for ph and hardness may result in either build-up of scale in pipes or corrosion of pipes but they do not pose a health problem.

(**) Above these limits the taste may be unacceptable but they do not pose a health problem.

(***) For nitrate a limit of 50mg/L is recommended for babies less than 3 months old, 100mg/L is the guideline for older children and adults.
of soap. No trends along or across this aquifer are apparent due to its narrow nature and the close-grouping of the bores around the Fitzroy and Coolibah Homesteads.

The groundwaters of the Daly and Wiso Basins are usually of low salinity with calcium and bicarbonate being the predominate major ions. Both bores in the Tindall Limestone have a TDS of around 900 mg/L with accompanying high calcium, bicarbonate and sulphate. The latter is derived from gypsum beds within the limestone.

The Montejinni Limestone has a low TDS and pH (typically around 5.8) and high bicarbonate. This is expected as the bores are on the edge of the basin and within the recharge zone. The low pH indicates that the water will be corrosive. Consequently inert materials or some form of treatment should be included in any reticulation systems.

All bores within the Antrim Plateau Volcanics are potable. No spatial or depth trends are evident apart from some higher TDS levels near the southern margin of the map sheet. The reason for the large variation in pH (6.4 - 9.6) is not known. Calcium carbonate deposition is often encountered when pumping from bores to remote tanks.

Water from aquifers within the Victoria River Basin are generally alkaline with the dominant cation being sodium and the dominant anion being bicarbonate.

The only non-potable waters struck on DELAMERE were from bores RN's 6630 and 7109. Both encountered seepage in fractured and weathered siltstone of the Bynoe Formation. The TDS were 18000 mg/L and 8800 mg/L respectively. The high values are probably associated with the long residence times due to the low transmissivity of the aquifer.

5.0 ACKNOWLEDGMENTS

The author would like to thank Steve Tickell for guidance and good ideas and Jeff Fong for the drafting.

6.0 REFERENCES


APPENDIX 1

BORE SUMMARY
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APPENDIX 2

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