

Index No **RN 25423**Advice No **80/3354**

20. Describe rock type, colour etc. any changes must be recorded.

From - To

0 - 1.6 TOPSOIL + LATERITE
PEBBLES

1.6 - 6.9 MULTI COLOURED
DRY CLAY

6.9 - 13.4 MULT COLOURED CLAY

13.4 - 17.7 WHITE CLAY

17.7 - 19 WHITE + YELLOW HARD
SANDY CLAYSTONE

19 - 25 WHITE SANDSTONE

25 - 26 BROWN + YELLOW
MUGGY CLAY

26 - 31.6 MULTI COLOURED CLAY

31.6 - 36.2 WHITE CLAYSTONE

36.2 - 61.4 YELLOW + BROWN CLAY
WITH SANDS

61.4 - 62.1 NO CIRCULATION
NO RETURNS

62.1 - 68.5 BLACK FRESH DOLOMITE

1. Name of Bore

HOWARD EAST 6/87

2. Name of Property

KOOLPINYAH

3. Owner of Property

4. Type of Lease

5. Lease/Block No.

P.L. 547

6. Bore or Well

BORE

7. Name of Contractor

WATER RESOURCES

8. Name of Driller

P ESPIC

9. Depth Recommended

68.5 mt.

10. Depth Drilled.

68.5 mt.

11. Date Commenced

2-12-87

12. Date Completed.

7-12-8713. Proposed use of Bore ☒ Domestic☐ Pastoral ☐ Stock Route ☐ Irrigation☐ Town Supply ☐ Observation ☒ Investigation14. Bore has been drilled by ☒ Rotary☐ Cable Tool ☐ Jetting ☐ Other15. Bore Drilled Using ☒ Air ☒ Mud☒ Foam ☒ Water ☒ Degradable PolymerSize of drilling Bit **250.8 mm** from **0** to **62.1 mt****200 mm** from **62.1** to **68.5 mt**16. Casing Installed ☒ Steel ☐ ABS ☒ PVC☐ Fibreglass ☐ Other.....STEEL **219 mm** Dia from **0** to **2.5 mt**PVC **152.4 mm** Dia from **0** to **56.3 mt**Threaded Welded **GLUED**17. Screens ☐ None installed☐ Stainless Steel ☐ Bronze ☐ PVC

Dia..... Slot Size..... From..... to.....

Dia..... Slot Size..... From..... to.....

Screens are Screwed connected by Pac

21. Sample of strata and water

have been will be left at

Darwin Katherine

Alice Springs Other.....

18. Perforation in casing ☐ Percussion Slotted☐ Oxycut ☐ Drilled PVC other **40.1 mm**Slot/hole size **1 mm** From **61.3** to **56.3 mt**

Slot/hole size..... From..... to.....

19. Is any strata cemented off ☒ Yes ☐ NoIf so, give depth **0** to **2.5 mt**

22. WATER

1st Supply

2nd Supply

3rd Supply

4th Supply

5th Supply

Remarks

Struck at

56-61.4Standing Water
Level

Discharge

5 l/s

RN025423

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Please show boundaries of sections etc, and location of bore (s) within section. If more than one bore clearly identify each. Marked distance from boundaries if possible.

24. This bore has been constructed under by supervision and this report is true to the best of my knowledge.

Signature Driller Date

PLEASE NOTE THE FOLLOWING:-

1. UNITS If possible please use metric units (metres, Millimetres, litres per second). Old units are acceptable (feet, inches, gallons per hour) but make sure you make it clear which you are using.
2. WATER SAMPLES A sample of not less than one litre of each water supply encountered during the drilling is required. Suitable plastic bottles can be obtained from the Water Resources Branch. Please rinse out all bottles properly before sampling. Completely fill the bottle leaving no entrapped air. Please label the bottle with the bore name and depth of supply.
3. STRATA SAMPLES A sample of not less than 0.2 kilograms of each 3m of stratum encountered during drilling is required. Please label all samples with the hole name and interval drilled. Plastic bags and tags can be obtained from Water Division.
4. LOCATION Please describe the location as accurately as possible giving distances from one or more features (such as other bores, dams, etc.) within a close distance. Preferably give a sketch of the area.

26. OFFICE USE ONLY:

Map No: 1:100,000 SHEET 5173 KOPPINAH Plotted on Map Date: 2/2/88
AMG Co-ordinates: 735000 - 8627300 Traced to Master Map Date:
Datum (A.H.D.): ZONE 52 8/5 Checked by: Date:
Geological Basin: Signature (Bore Inspector) Date:

735126E

8627309N

ZONE: 52

GPS BY JON SUMNER
27/9/10

80/3354

C. GARDNER
GROUNDWATER MANAGEMENT
GARDNER

WATER ANALYSIS

Department of Transport & Works
Water Division, Darwin N.T.



Laboratory Register No. 87/88/0931

Date received in Laboratory 16-12-87

WR 4/1A

Bottle No. R171

Time of sampling 1230

Date of sampling 7-12-87

LOCATION AND DETAILS HOWARD EAST KOOLPINYAH PIN 25423 TEMP-DEPTH 48M

DISCH. 2 LBS pH 8.2 COND 1125 PINO. 8051

RSP 202

Proposed water use:- Domestic, Stock, Irrigation, other (specify)

ANALYSIS - PHYSICAL

<input type="checkbox"/> pH	7.3	<input type="checkbox"/> Colour (Hazen units)
<input type="checkbox"/> Specific conductance (microsiemens/cm at 25° C)	1230	<input type="checkbox"/> Turbidity (NTU's)
<input type="checkbox"/> Total dissolved solids (mg/L - by evaporation at 180° C)	900	<input type="checkbox"/> Suspended solids (mg/L)

ANALYSIS - CHEMICAL (mg/L)

<input type="checkbox"/> Sodium, Na	95	<input type="checkbox"/> Chloride, Cl	42
<input type="checkbox"/> Potassium, K	2	<input type="checkbox"/> Sulphate, SO ₄	415
<input type="checkbox"/> Calcium, Ca	175	<input type="checkbox"/> Nitrate, NO ₃	8
<input type="checkbox"/> Magnesium, Mg	15	<input type="checkbox"/> Bicarbonate, HCO ₃	245
<input type="checkbox"/> Total Hardness (as CaCO ₃)	505	<input type="checkbox"/> Carbonate, CO ₃	
<input type="checkbox"/> Total Alkalinity (as CaCO ₃)	200	<input type="checkbox"/> Fluoride, F	0.2
<input checked="" type="checkbox"/> Iron, (total) Fe	UNSUITABLE FOR ANALYSIS	<input type="checkbox"/> Orthophosphate, PO ₄	
<input type="checkbox"/> Silica, SiO ₂	22	<input type="checkbox"/> NaCl (calc. from chloride)	70

ANALYSIS - ADDITIONAL (mg/L)

<input type="checkbox"/> Copper, Cu	<input type="checkbox"/> Lead, Pb	<input type="checkbox"/> Arsenic, As
<input type="checkbox"/> Manganese, Mn	<input type="checkbox"/> Zinc, Zn	<input type="checkbox"/> Cadmium, Cd
<input type="checkbox"/> Nickel, N	<input type="checkbox"/> Cobalt, Co	<input type="checkbox"/>

THE SAMPLE AS ANALYSED COMPLIES / DOES NOT COMPLY WITH NORTHERN TERRITORY DRINKING WATER STANDARDS AS RECOMMENDED BY THE NORTHERN TERRITORY DEPARTMENT OF HEALTH.



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Analysed By *[Signature]*

Date 11 / 1 / 88