

Regulation 8



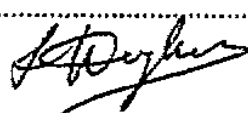
THE NORTHERN TERRITORY OF AUSTRALIA

Control of Waters Act

WR4/3

FINAL STATEMENT OF BORE

28/242

From	To	Description of Strata (including colour and hardness)	Name of Bore —			
0-3	Red Clay		ADVICE AT3/18			
3-6	Gravels		R.N. 147 88			
6-72	Sandstones		Name of Property —			
			NEUTRAL JUNCTION			
			Description of Property —			
			CATTLE			
			Name of Owner —			
			J. MINGLE			
			Name of Contractor —			
			BOWMAN & HUGHES			
			Name of Driller —			
			TREVOR HUGHES			
Location of Bore (or supply sketch on the back hereof) —			Date of Commencement —			
24 km			14/5/86			
(a) S  of (b) OF NEUTRAL JUNCTION			Date of Completion —			
E  HOMESTEAD			14/5/86			
(a) Circle appropriate direction.			Total Depth —			
(b) Use known point such as existing bore, homestead, outstation, etc.			72 mtrs			
Additional information of interest about bore.			Particulars of Casing —			
Grid Reference 182 291 183 287			6 mtrs 8" P.U.C.			
Map Number SF 53-6 Barrow Creek			12 1/2 mtrs 6" P.V.C.			
Samples of Strata and Water Supplies 405896 E			Particulars of Perforations or Screens —			
have been* will be* 7598778 N			12 mtrs on Bottom			
left at the following place —			Water	1st Supply only	2nd Supply only	3rd Supply only
ALICE SPRINGS			Struck at	58m	67m	69m
Signature 			Standing Water Level	42m		TG
*Delete non applicable			Pumping Supply Litres/sec	0.6	0.9	2.8
For Office use only — SAND PROBLEMS			Duration of Pump Test	2hrs		TOTAL 4.3
			Water Level During Test	AIR LIFT		
			Quality: Good, Fair or Bad	GOOD		

22403.812

G. L. DUFFIELD, Government Printer of the Northern Territory

GEOLOGICAL LOG OF WATER BORE

Locality Neutral Junction Station

Bore Name Runaway Bore
Rural Advice A73/18

R.N. 14788

IN 28/242

Tenure

1:250000 Sheet Barrow Creek SF 53-6

1:1000 000 Sheet

DATA FILE: 52.73C
52.73D

Summary Log:

Depth (m)	Lithology	Stratigraphic Unit	
0 - 3m	Silt	Qa Alluvium	Quaternary
0 - 72m	Sandstone	Pus Central Mount Stuart Beds	Proterozoic

GEOPHYSICAL LOGS AVAILABLE TO

Major Aquifers

Approx SWL 42.0m

Depth (m)	Yield (Ls ¹)	Type
58.0	0.6	Sandstone
67.0	0.9	Sandstone
69.0	2.8	Sandstone

Total supply anticipated 4.3 l/s

Drilling Technique

Percussion - Air drilling to 72.0m by Bowman and Hughes contract drilling.

Casing	Depth (m)	Size (mm)	Material
0 - 6m	233mm	blank PVC surface casing	
0 - 60m	125mm	blank PVC casing	
60 - 72m	125mm	PVC casing with perforation/slots	

Detailed Log

Depth (m)	Lithology	Description
0 - 3m	Silt	Soft, orange/brown, sandy silt
3 - 9m	Sandstone	Pale brown to white/grey, weathered, fine-grained sandstone with minor kaolin clays.
9 - 24m	Sandstone	Soft white kaolinitic sandstone.
24 - 51m	Sandstone	Weathered, soft, pale grey, fine-grained kaolinitic sandstone.
51 - 66m	Sandy Clays	Very white, sandy, kaolinitic clay; wet throughout.
66 - 72m	Sandstone	Weathered, dirty grey to white weathered kaolinitic sandstone.

LOGGED BY:

J.R. Wane

WATER ANALYSIS

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



Laboratory Register No.

87/88/0455

Date received in Laboratory

1.10.87

WR 4/1A

Bottle No.

PZ21

Time of sampling

1315

Date of sampling

16.9.87 ✓

LOCATION AND DETAILS NEUTRAL JUNCTION STATION RUNAWAY BORE

D/N 14788 DISCH 4.0 LPS MAP SF 53/6 G.R. E4058918 N 7598788

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

D/N° 8150 RBP 227

ANALYSIS - PHYSICAL

<input type="checkbox"/> pH	7.2	<input type="checkbox"/> Colour (Hazen units)	
<input type="checkbox"/> Specific conductance (microsiemens/cm at 25° C)	1845	<input type="checkbox"/> Turbidity (NTU's)	
<input type="checkbox"/> Total dissolved solids (mg/L - by evaporation at 180° C)	1115	<input type="checkbox"/> Suspended solids (mg/L)	

ANALYSIS - CHEMICAL (mg/L)

<input type="checkbox"/> Sodium, Na	168	<input type="checkbox"/> Chloride, Cl	245
<input type="checkbox"/> Potassium, K	36	<input type="checkbox"/> Sulphate, SO ₄	120
<input type="checkbox"/> Calcium, Ca	96	<input type="checkbox"/> Nitrate, NO ₃	9
<input type="checkbox"/> Magnesium, Mg	90	<input type="checkbox"/> Bicarbonate, HCO ₃	653
<input checked="" type="checkbox"/> Total Hardness (as CaCO ₃)	609	<input type="checkbox"/> Carbonate, CO ₃	
<input type="checkbox"/> Total Alkalinity (as CaCO ₃)	536	<input type="checkbox"/> Fluoride, F	0.8
<input type="checkbox"/> Iron, (total) Fe	0.1	<input type="checkbox"/> Orthophosphate, PO ₄	
<input type="checkbox"/> Silica, SiO ₂	52	<input type="checkbox"/> NaCl (calc. from chloride)	404

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.



This Laboratory is registered by the National
Association of Testing Authorities, Australia. The test(s)
reported herein have been performed in accordance with
its terms of registration. This document shall not be
reproduced except in full.

Analysed By *[Signature]* Date 12/10/87

Boxes marked thus ☒ indicate levels considered undesirable for drinking water by the

WATER ANALYSIS

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

WR 4/1A



Laboratory Register No.

85/86/2221

Date received in Laboratory

2/6/86

Bottle No.

PW33

Time of sampling

Date of sampling

14/5/86 ✓

LOCATION AND DETAILS

NEUTRAL JUNCTION STATION R/N 14788 ADVICE A73-18
DEPTH 69m DISCH 4.5LPS MAP SF 53-6 G.R. 183287 WRA 6016

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

RSP 227

ANALYSIS — PHYSICAL

☐ pH 7.9 ☐ Colour (Hazen units)
☐ Specific conductance (microsiemens/cm at 25° C) 1700 ☐ Turbidity (NTU's)
☐ Total dissolved solids (mg/L - by evaporation at 180° C) 1010 ☐ Suspended solids (mg/L)

ANALYSIS — CHEMICAL (mg/L)

☐ Sodium, Na 173 ☐ Chloride, Cl 235
☐ Potassium, K 35 ☐ Sulphate, SO₄ 112
☐ Calcium, Ca 52 ☐ Nitrate, NO₃ 9
☐ Magnesium, Mg 87 ☐ Bicarbonate, HCO₃ 530
☐ Total Hardness (as CaCO₃) 487 ☐ Carbonate, CO₃
☐ Total Alkalinity (as CaCO₃) 435 ☐ Fluoride, F 0.7
☒ Iron, (total) Fe 3.2 ☐ Orthophosphate, PO₄
☐ Silica, SiO₂ 56 ☐ NaCl (calc. from chloride) 387

ANALYSIS — ADDITIONAL (mg/L)

☐ Copper, Cu ☐ Lead, Pb ☐ Arsenic, As
☐ Manganese, Mn ☐ Zinc, Zn ☐ Cadmium, Cd
☐ ☐ ☐

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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With suitable treatment the Iron
concentration may be lowered to an
acceptable level.

Analysed By:

H. Jemey

Date 10/6/86

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BORE DATA - MASTER INDEX - COMPUTER INPUT SHEET

REG 8 UPDATE

016

CASING & BORE CONDITION GOOD
POOLRN 14788 INDEX 28 242NAME (30) RUNAWAY A73/13LOCATION (30) 33KM SE OF HOME STATIONCADASTRAL (35) NEUTRAL JUNCTION PL=775-DAT NAV TIME 0533 ELEV 14 N° 300 C T 26-2AMG (metric) ZONE 53 EASTING 405898 NORTHING 7598 788LATITUDE 21° 42' 713 LONGITUDE 134° 05' 416LOCATION PRECISION 5 FIX TAKEN 400MTRS SE OF BORE

AWRC BASIN NUMBER _____ (4)

IMP GRID SF53/6 182-291 BHAPPO CK 1-250000RSP _____ DISCHARGE 4 LPS. DEPTH SAMPLED _____SAMPLE NO. PZ 21 TIME 1315 HRS. P/BACK? _____
MILL? _____ MONO? _____
E/C/SUB? _____CONDUCTIVITY= 1,820 TEMP= 29.3 PH= 6.55 NITRATE= _____

T-DEPTH IF MEASURED _____ METERS

SWL IF MEASURED _____ METERS TIME _____ DATE _____

BORE EQUIPPED WITH 6" x 8" PIC BMK 3 MONO KUBOTA 1250 300WST100L EARTH TANK. 20' CONCRETE TROUGH

TROUBLE WITH FINE WHITE SANDS

TAG ON PUMP FRAME.

INSPECTING OFFICER [Signature]DATE 16-9-86

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Water Division, Darwin N.T.



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16-9-87

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D/N 14788 DISCH 4.0 LPS MAP SF 53/6 G.R. E4058918 N 759878

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

D/N° 8150 RSP 227

ANALYSIS - PHYSICAL

<input type="checkbox"/> pH	7.2	<input type="checkbox"/> Colour (Hazen units)	
<input type="checkbox"/> Specific conductance (microsiemens/cm at 25° C)	1845	<input type="checkbox"/> Turbidity (NTU's)	
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ANALYSIS - CHEMICAL (mg/L)

<input type="checkbox"/> Sodium, Na	168	<input type="checkbox"/> Chloride, Cl	245
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<input type="checkbox"/> Silica, SiO ₂	52	<input type="checkbox"/> NaCl (calc. from chloride)	404

ANALYSIS - ADDITIONAL (mg/L)

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<input type="checkbox"/> Manganese, Mn	<input type="checkbox"/> Zinc, Zn	<input type="checkbox"/> Cadmium, Cd
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Analysed By *Int. J. J. J.*

Date 12/10/87



RN014788

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WATER ANALYSIS

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



28/242.

Laboratory Register No.

85/86/2221

Date received in Laboratory

2/6/86

Time of sampling

Date of sampling

14/5/86

WR 4/1A

Bottle No.

PW33

LOCATION AND DETAILS

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DEPTH 69m DISCH 4.5LPS MAP SF 53-6 G.R. 183287 WRA 6016

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

RSP 227

ANALYSIS — PHYSICAL

☐ pH

7.9

☐ Colour (Hazen units)☐ Specific conductance
(microsiemens/cm at 25° C)

1700

☐ Turbidity (NTU's)☐ Total dissolved solids
(mg/L - by evaporation at 180° C)

1010

☐ Suspended solids (mg/L)

ANALYSIS — CHEMICAL (mg/L)

☐ Sodium, Na

173

☐ Chloride, Cl

235

☐ Potassium, K

35

☐ Sulphate, SO₄

112

☐ Calcium, Ca

52

☐ Nitrate, NO₃

9

☐ Magnesium, Mg

87

☐ Bicarbonate, HCO₃

530

☐ Total Hardness (as CaCO₃)

487

☐ Carbonate, CO₃☐ Total Alkalinity (as CaCO₃)

435

☐ Fluoride, F

0.7

☒ Iron, (total) Fe

3.2

☐ Orthophosphate, PO₄☐ Silica, SiO₂

56

☐ NaCl (calc. from chloride)

387

ANALYSIS — ADDITIONAL (mg/L)

☐ Copper, Cu☐ Lead, Pb☐ Arsenic, As☐ Manganese, Mn☐ Zinc, Zn☐ Cadmium, Cd☐☐☐

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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