

UNPUBLISHED REPORT 1969/21

Report on groundwater surveys for the period 1 January to 30 June 1969

by P. C. Stevenson

Staff

The section has consisted of a senior geologist and two geologists for the whole of the period. One vacancy exists and D. Leaman is still with the University of Tasmania.

Water work has occupied 49% of the section's time. Engineering work has continued to be in demand.

Surveys in progress

The Longford Basin
The Scottsdale– Bridport area
The East Coast sand areas

The Longford Basin

Drilling has continued, with the Failing machine working full time, while the percussion rig only worked seven weeks during the period in the area.

Results have been as follows:

T. Green — Failing 500 rotary rig, Longford area

<i>Bore</i>	<i>Location</i>	<i>Date completed</i>	<i>Depth (feet)</i>	<i>Yield (gallons)</i>
48	A. C. Sherwood, Bishopsbourne	12/2/1969	502	2,000
49	Mr Creswell, Oaks Road	26/2/1969	502	1,800
50	Mr Grey, Mount View, Whitmore	19/3/1969	*260	2,200
51	Heazlewood Bros., Melton Vale, Whitmore	21/4/1969	1012	1,700
52	P. Archer, Quamby Plains, Carrick	5/5/1969	502	1,750
53	A. C. Cowan, Red Hills, Hagley	22/5/1969	502	1,500
54	Mr Heazlewood, West Whitmore	4/6/1969	*176	1,500
55	Mr French, Bellemore, South Hagley	11/6/1969	*138	200
56	Mr Donovan, Quamby Home, Westbury	25/6/1969	*112	3,700
57	Mr French, North Hagley	to be pump tested	56	bailed 1,500

* in basalt

Estimates of yield are conservative, being slightly limited by the capacity of the pumps. Water quality has been less than 1,000 ppm TDS.

Epping area

J. Hammersley — G 33 percussion rig, Epping area

Drill on other work from 6/2/1969 to 21/5/1969

<i>Bore</i>	<i>Location</i>	<i>Date completed</i>	<i>Depth (feet)</i>	<i>Yield (gallons)</i>
9	Mr Gibson, Bellvue Road (1 mile NE Epping PO)	23/1/1969	175	2,150
10	The Bend (about 1 mile west of homestead)	28/5/1969	180	to be tested
11	Hawkridge (about 1 mile south of homestead)	12/6/1969	210	to be tested
12	Mrs Provost, Mt Joy (SE corner of Hummocky Hills)	not complete	~100	

Work in the Longford Basin has occupied geologist W. L. Matthews for 17½ weeks and drilling crews for 32 weeks.

Scottsdale–Bridport area

Little work has been done in this half year because a drilling rig has not been available. The one hole begun before Christmas 1968 has been taken to over 300 feet, but has not been completed.

Work has occupied 1½ geologist weeks, 2 weeks by field assistants and 8 weeks by drilling crew.

East Coast sand survey

Two field assistants with geological supervision spent eighteen man weeks reconnaissance testing East Coast sand aquifers by augering and water quality measurements. Some eighty holes to about 12 feet were drilled. Water as good as 200 ppm TDS was found in some holes, and very few were dry. Our knowledge of the sand aquifers has greatly improved, but no pumping has yet been attempted.

Farm bores

Two requests for siting farm bores have been received and dealt with.

Groundwater Map of Australia

Work has continued on the Tasmanian contribution and has involved a trip to Adelaide.

T.C.U.W.

Hobart was the venue of the T.C.U.W. Annual Meeting on 4–5 March 1969.

The joint committee of T.C.U.W. and T.C.S.W. on the *Forward Assessment of Water Resources* required the presence of P. C. Stevenson in Melbourne on 6 March.

[1 July 1969]