

4 References

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Appendix 1: Monitoring Bore Site Information

Site 1: Quintals Road, Omaha

Waitemata Sandstone Aquifer

Lat / Long: 36° 19' 46.6" S, 174° 44' 9.8" E

Bore Depth: 129.60 metres

Elevation: 12.82 metres

The Quintals Road site has four bores. Two are visible in the photograph, and the remaining two are on the road verge. The 200mm-diameter bore is the bore to be sampled.

Care needs to be taken with the 200mm-diameter bore, which has the hinged green cover, as it is very easy to drop equipment down the open bore.

Discharge pumped water to the roadside ditch.

Average Pumping Time: 3hrs 50 minutes

Site I.D. No: 6437005

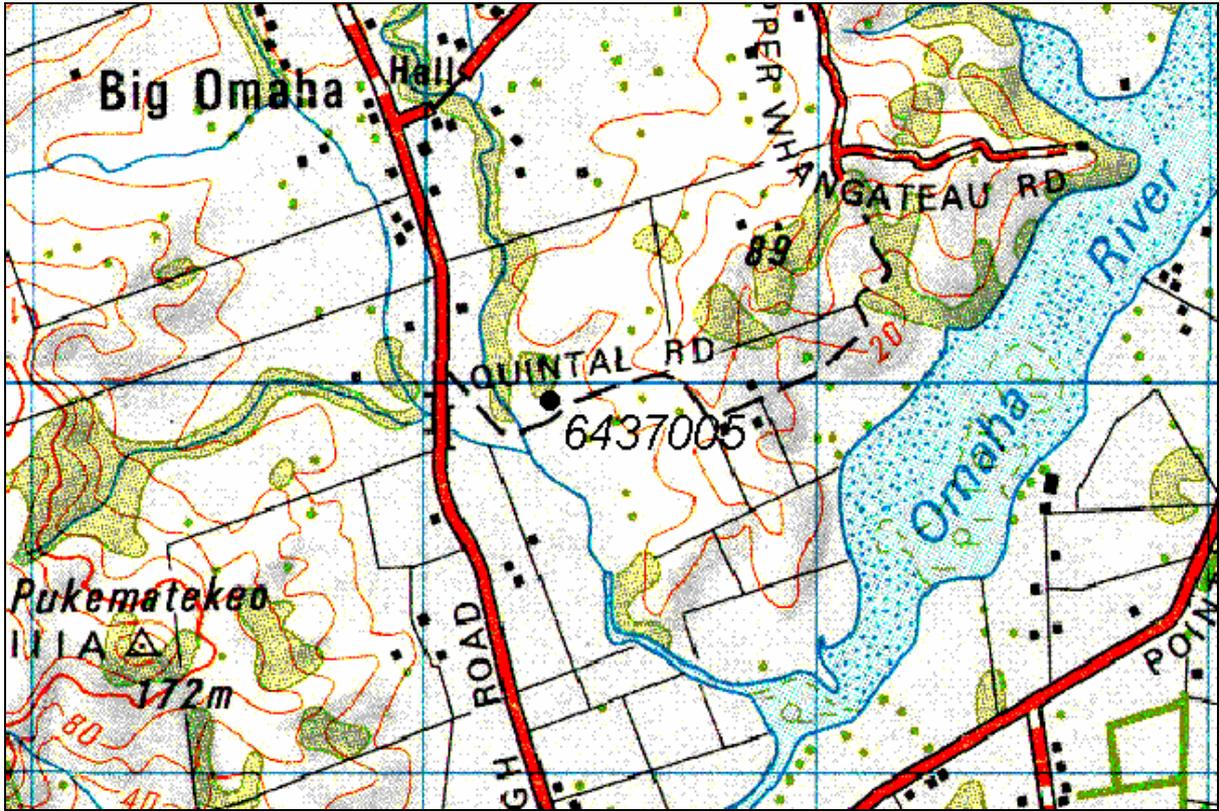
NZMS 260 Ref: R09: 665 400

Casing depth: 94.00 metres

Casing diameter: 0.200 m

TOC =0.205 m above ground level





Site 2: Waiwera Thermal Resort

Bore I.D. No:

Waitemata Sandstone Geothermal

NZMS 260 Ref:

R10: 634 158

Lat / Long:

Casing depth:

Bore Depth:

Casing diameter:

Elevation:

TOC = 0.420 m above ground level

Private production bore – utilised as supply for adjacent public swimming pools complex. Access to borehead provided by company, *so long as 24 hours advance notification is provided.*

Contact site manager for access.

Sampling carried out by opening tap on side of casing, at borehead, while pump is running – flush for 2 minutes prior to sampling.

NOTE: DO NOT place electronic meters in flow or sample – discharge from bore is too hot !

Site 3: Parakai – Aquatic Park

Waitemata Sandstone Geothermal

Lat / Long:

Depth:

Elevation:

Sample collected from side of production bore, servicing the Aquatic Park pool complex. Access gained by phoning site manager at least 48 hours prior to site visit.

Bore confined by wooden shed located in public reserve, 50 m west of main pool complex.

Sample collected from dedicated valve at borehead – flush for two minutes prior to collecting sample, *whilst pump is running*.

Aquatic Park staff **MUST** accompany ARC staff on this site, to prevent inadvertent damage to pump mechanism.

NOTE: DO NOT place electronic meters in flow or sample – discharge from bore is too hot !

Bore I.D. No:

NZMS 260 Ref:

Q10: 386 037

Casing depth:

Casing diameter

0.200 m

TAP = 1.36 m above ground level

Site 4: Rimmer Rd, Kaipara

Kaipara Sand Aquifer

Lat / Long: 36° 41' 13.2" S, 174° 24' 1.3" E

Bore Depth: 63.50 metres

Elevation: 33.74 metres

Bore I.D. No: 6464089

NZMS 260 Ref: Q09: 366 011

Casing depth: 49.50 metres

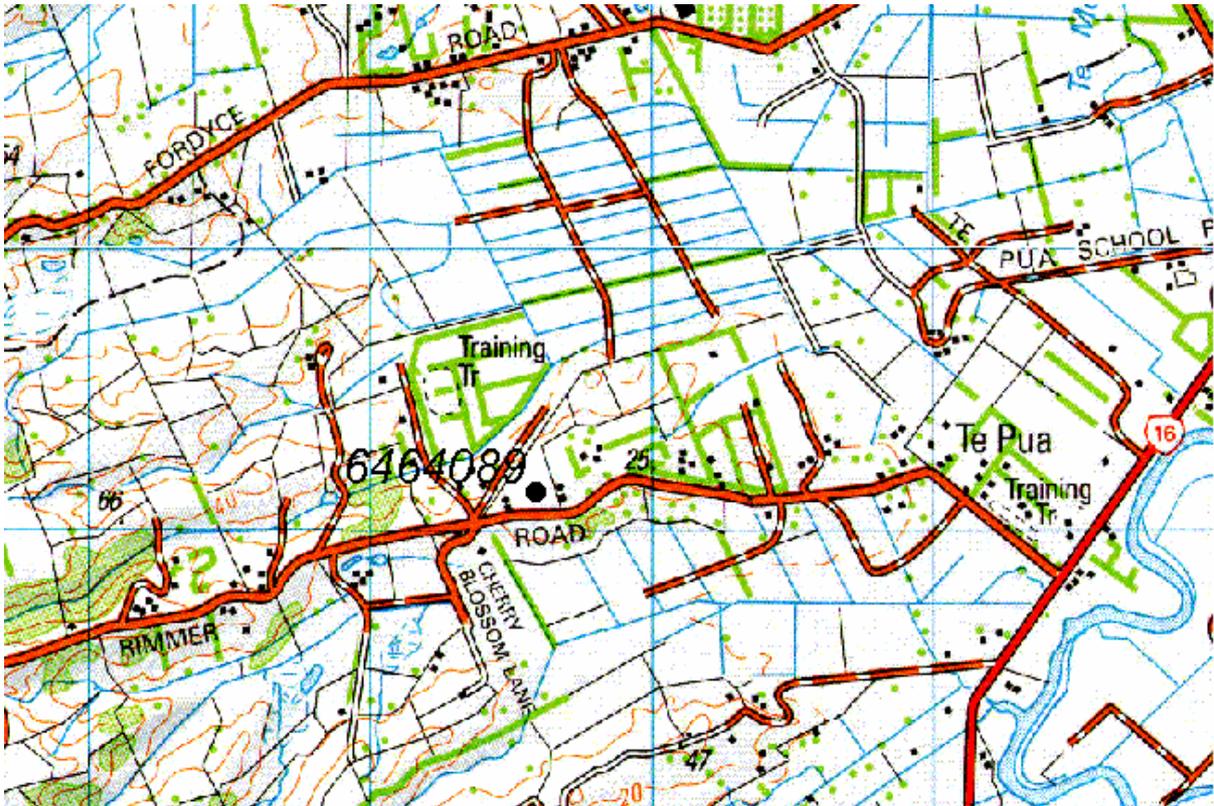
Casing diameter: 0.100 m

TOC = 0.360m above ground level

The site can become difficult to access during the winter months due to soft ground around the borehead. Access by 4WD vehicle if possible, or park safely on the road.

Average Pumping Time: 1 hour





Site 5: Chenery Rd, Orewa

Bore I.D. No: 6467025

Waitemata Sandstone Aquifer

NZMS 260 Ref: R10: 626 086

Lat / Long: 36° 36' 47.4" S, 174° 42' 6.4" E

Casing depth: 151.00 metres

Bore Depth: 500.00 metres

Casing diameter: 0.150 m

Elevation: 37.33 metres

TOC = 1.06 m above ground level

This site was a municipal supply bore for the Hibiscus Coast. Currently disconnected from reticulation but with the pump remaining.

Bore requires approximately 1.5m³ purge (meter still installed) to sample bore water rather than static water in riser.

Contact **Rodney Water** to organise access to the pump shed.



Site 6: Waitakere Rd Shallow

Site I.D. No: 6475015

Waitemata Sandstone Aquifer

NZMS 260 Ref: Q11: 497 898

Lat / Long: 36° 47' 5.3" S, 174° 33' 33.3" E

Casing depth: 10.00 metres

Bore Depth: 15.04 metres

Casing diameter: 0.050 m

Elevation: 22.63 metres

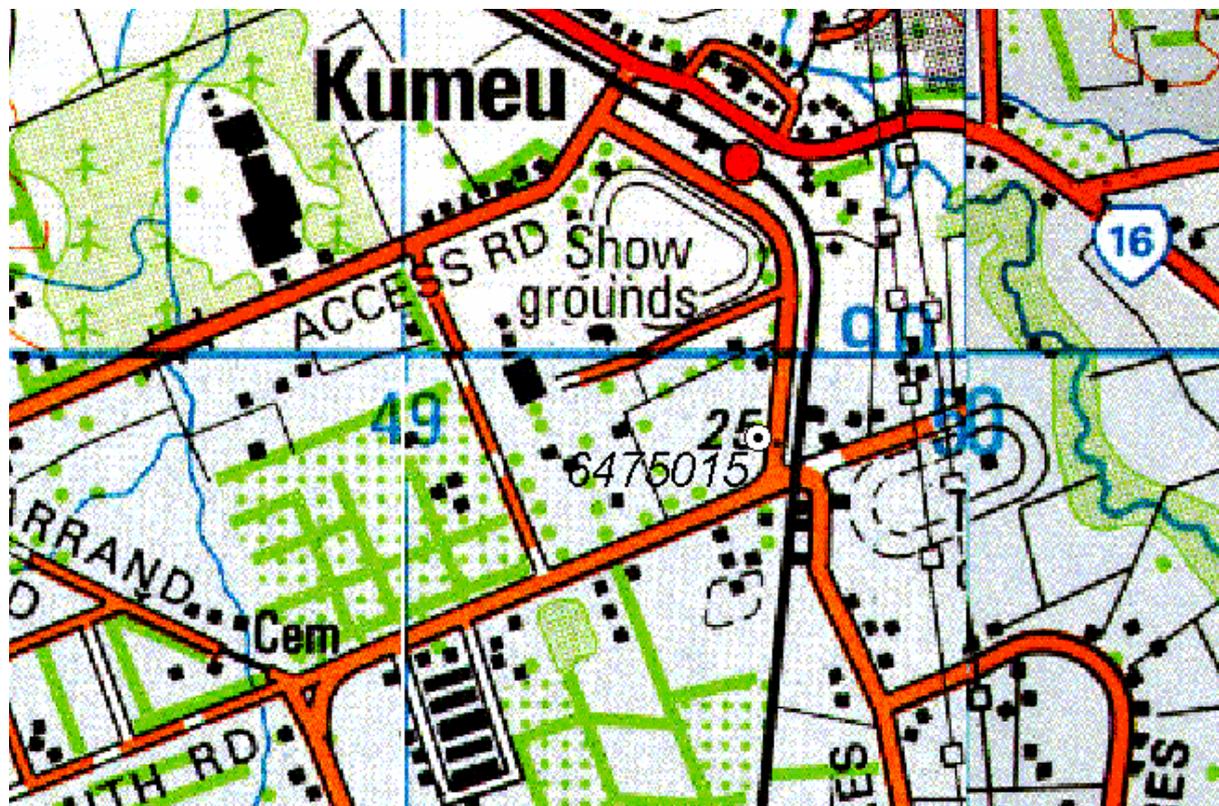
TOC = 0.510 m above ground level

Cased to 10.0m, screened to 15.040m.

The site is very shallow and regularly shows high suspended sediment levels during initial pumping.

Care must be taken with parking as far off the road as practicable at this site as the bore is located immediately after a blind corner.

Average Pumping Time: 1 hour 25 minutes



Site 7: Waitakere Rd Deep

Site I.D. No: 6474003

Waitemata Sandstone Aquifer

NZMS 260 Ref: Q11: 495 898

Lat / Long: *to be confirmed*

Casing depth: 78.00 metres

Bore Depth: 150.00 metres

Casing diameter: 0.100 m

Elevation: 33.182 metres

TOC = 0.315 m above ground level

This site has a dedicated pump installed for sampling for the NGMP.

Dedicated pump installed 3 July 1998. Grundfos Mod. MP-1.

Average Pumping Time: 1 hour 25 minutes

