

Waimea Drilling Co Ltd

Drillers Water Well Log Form

MEMBER OF
N.Z.D.F.

WDC Log No 6266

Well Owner Demonstration Well
56 Green Grass Lane
Lush Valley
Greenland

Contact Name Fred Someone

Map Sheet No P 28

Altitude (m): 30.00

Driller C Woodford, B Mercer, C Crozier

Grid Ref East 834




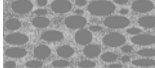




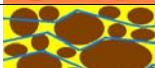



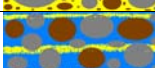

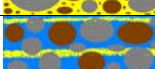

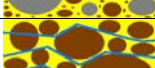
North 631

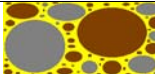
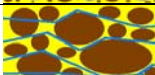

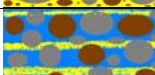

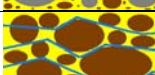
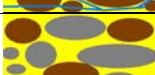


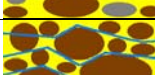
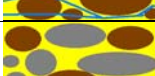
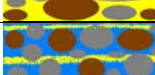
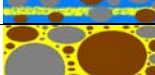
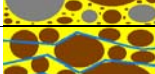
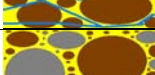
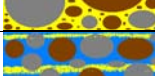
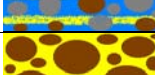
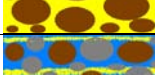
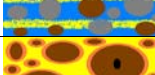
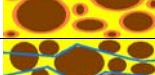
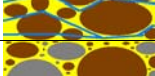

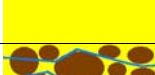
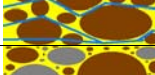
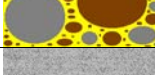

Drilling Date 05/08/1997




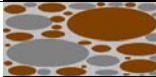
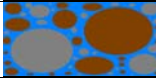
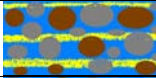
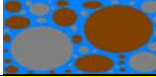

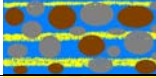





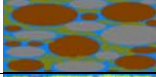




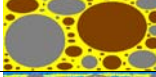
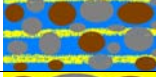

GPS Easting

GPS Northing:

Locality 3m North East of existing well.

<i>Depth To Strata Top (m)</i>	<i>Strata Bottom (m)</i>	<i>Strata Thickness (m)</i>	<i>Static Level (m)</i>	<i>Strata Description</i>	<i>Strata Picture</i>
0.00	0.00	0.00	0.00	Golf course	
0.00	0.30	0.30	0.00	Green grass and brown topsoil	
0.30	4.50	4.20	0.00	Yellow clay and brown fine gravels	
4.50	6.00	1.50	0.00	Grey fine gravels, grey clay bound	
6.00	9.50	3.50	0.00	Yellow clay and brown medium gravels	
9.50	11.80	2.30	0.00	Grey coarse gravels, grey clay bound	
11.80	14.00	2.20	0.00	Tan clay	
14.00	19.00	5.00	0.00	Tan clay, brown coarse gravels	
19.00	21.50	2.50	-1.00	Brown cobble, coarse gravel, some yellow clay, water bearing	
21.50	30.50	9.00	0.00	Tan clay, brown coarse gravels	
30.50	31.50	1.00	-1.00	Brown and grey coarse gravel, some yellow clay, water bearing	
31.50	32.00	0.50	0.00	Brown and grey cobble to medium sand, yellow clay bound	
32.00	33.50	1.50	-1.00	Brown and grey coarse gravel, some yellow clay, water bearing	
33.50	40.50	7.00	0.00	Brown and grey cobble to medium sand, yellow clay bound	
40.50	41.50	1.00	-1.00	Brown and grey coarse gravel, some yellow clay, water bearing	
41.50	45.00	3.50	0.00	Brown and grey cobble to medium sand, yellow clay bound	
45.00	46.00	1.00	-1.00	Brown cobble, coarse gravel, some yellow clay, water bearing	

46.00	47.00	1.00	0.00	Brown and grey cobble to medium sand, yellow clay bound	
47.00	48.00	1.00	-1.00	Brown cobble, coarse gravel, some yellow clay, water bearing	
48.00	49.00	1.00	0.00	Brown and grey cobble to medium sand, yellow clay bound	
49.00	50.00	1.00	-1.00	Brown and grey coarse gravel, some yellow clay, water bearing	
50.00	51.00	1.00	0.00	Brown and grey cobble to medium sand, yellow clay bound	
51.00	52.00	1.00	-1.00	Brown cobble, coarse gravel, some yellow clay, water bearing	
52.00	53.00	1.00	0.00	Brown and grey coarse gravels, yellow clay bound	
53.00	56.00	3.00	0.00	Brown clay	
56.00	58.00	2.00	0.00	Brown and grey coarse gravels, yellow clay bound	
58.00	58.50	0.50	-1.50	Brown cobble, coarse gravel, some yellow clay, water bearing	
58.50	59.00	0.50	0.00	Brown and grey coarse gravels, yellow clay bound	
59.00	60.00	1.00	-2.00	Brown and grey coarse gravel, some yellow clay, water bearing	
60.00	61.00	1.00	0.00	Brown and grey cobble to medium sand, yellow clay bound	
61.00	62.00	1.00	-2.00	Brown cobble, coarse gravel, some yellow clay, water bearing	
62.00	63.00	1.00	0.00	Brown and grey cobble to medium sand, yellow clay bound	
63.00	64.00	1.00	-2.00	Brown and grey coarse gravel, some yellow clay, water bearing	
64.00	65.00	1.00	0.00	Brown coarse gravels, yellow clay bound	
65.00	66.00	1.00	-2.00	Brown and grey coarse gravel, some yellow clay, water bearing	
66.00	67.00	1.00	0.00	Brown cobble, coarse gravels, yellow clay bound	
67.00	68.00	1.00	-2.00	Brown cobble, coarse gravel, some yellow clay, water bearing	
68.00	69.00	1.00	0.00	Brown and grey cobble to medium sand, yellow clay bound	
69.00	71.00	2.00	0.00	Yellow clay	
71.00	74.00	3.00	-2.00	Brown cobble, coarse gravel, some yellow clay, water bearing	
74.00	76.00	2.00	0.00	Brown and grey cobble to medium sand, yellow clay bound	
76.00	80.00	4.00	0.00	Grey mud	
80.00	81.00	1.00	0.00	Grey clay	

81.00	84.00	3.00	0.00	Grey mud	
84.00	85.00	1.00	0.00	Grey clay	
85.00	87.00	2.00	0.00	Grey mud	
87.00	88.00	1.00	0.00	Brown and grey cobble to medium sand, grey clay bound	
88.00	90.00	2.00	-7.00	Brown and grey cobble to coarse sand, water bearing	
90.00	90.80	0.80	0.00	Brown and grey coarse gravel, some yellow clay, water bearing	
90.80	91.30	0.50	-7.00	Brown and grey cobble to coarse sand, water bearing	
91.30	92.00	0.70	0.00	Brown and grey coarse gravels, yellow clay bound	
92.00	92.50	0.50	-7.00	Brown and grey coarse gravel, some yellow clay, water bearing	
92.50	94.00	1.50	0.00	Brown and grey coarse gravels, yellow clay bound	
94.00	95.00	1.00	0.00	Brown and grey cobble to medium sand, yellow clay bound	
95.00	96.00	1.00	-7.00	Brown and grey cobble to coarse sand, water bearing	
96.00	97.00	1.00	0.00	Grey cobble to medium sand, yellow clay bound	
97.00	97.50	0.50	0.00	Brown and grey cobble to medium sand, green clay bound	
97.50	98.00	0.50	-7.00	Brown and grey coarse gravel, some green clay, water bearing	
98.00	98.50	0.50	-7.00	Brown and grey coarse gravel, some yellow clay, water bearing	
98.50	99.00	0.50	0.00	Brown and grey cobble to medium sand, green clay bound	
99.00	99.50	0.50	-7.00	Brown and grey coarse gravel, some green clay, water bearing	
99.50	100.00	0.50	0.00	Brown and grey cobble to medium sand, green clay bound	
100.00	100.50	0.50	0.00	Brown and grey cobble to medium sand, yellow clay bound	
100.50	101.00	0.50	-7.00	Brown and grey coarse gravel, some yellow clay, water bearing	
101.00	102.60	1.60	0.00	Brown and grey coarse gravels, yellow clay bound	

Finished Static
Water Level: -9.00

Test Pumping: 2.00 Hours

Draw Down (m): 33.00 Below Static Water Level

Flow Rate: 70.90 cubic mph

Step Test By: M D C

Casing above ground (mm): 800

Casing NB Dia
(mm): 150

Ground Level

Leader Length
(m): 2.50

Screen NB Dia
(mm): 100

Steel Casing
Length (m): 30.36

Top of Screen Leader (m): 27.50

Top Of Screen (m): 30.00

PVC Casing
Length (m):

	From:	To:	Slot Size	Length
No: 1	30.00	52.00	3.00	22.00
No: 2	58.00	74.00	3.00	16.00
No: 3	88.00	99.50	3.00	11.50

Bottom Of Screen (m) 100.00

Length of Sump (m) 0.50

Total Screen

Length (m): 69.50

Finished Depth of Well (m) 100.50

Remarks:

At 90m depth drilling was halted and the artesian flow temporarily capped while a weighted drilling fluid was prepared to contain the 7m above ground level water head allowing drilling to proceed further. The Greenland District Council carried out a step draw down pumping test on the finished well. (Peter Davidson). The finished well was also pumped at the following rates and the 'Below Ground Level Pumping Water Level' recorded (The static water level of the finished well is approx' 9m above ground.)

At 260 Imperial gallons per minute - pumping water level = 25m.

PLEASE NOTE:

This well log report is subject to being edited (eg. A down hole flow test may be carried out at any time).
Test pumping flow rates, static levels, and water level draw down are as recorded at the time of test pumping.
These figures could change at a later time due to influences beyond our control (e.g. seasonal variations).