



BOREHOLE LOG

SOIL

Bore No.: BH2

Page: 1 of 2

Client: Barwon Water
Project: Ocean Grove Raising Main
Job No.: 31/21263
Location: Park (Ocean Grove side)
Date Drilled: 9/10/07 to: 10/10/07

Drilling Co.: VicRoads Geopave
Driller: Fred C.
Rig Type: Gemco 210D
Inclination: vertical
Bearing: n.a

Easting: 281506 (Zone 55)
Northing: 5760514
Grid Ref: WGS 84
Collar RL: not recorded
Logged by: KC **Checked by:** AS

DRILLING						Graphic Log	SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	Consistency	STRUCTURE, ADDITIONAL OBSERVATIONS AND COMMENTS	Depth (m)
Depth (m)	Run	Method	Support	Samples, Tests.	Water						
0.0						Ground Surface					0.0
0.0 - 1.0		AS	N			Sandy CLAY (CL) brown, fine grained	M	F	TOPSOIL (Grassed)		0.0
1.0 - 2.0						SAND (SP) grey, brown, fine grained orange brown, fine grained					1.0
2.0 - 3.0		RW	C	SPT @ 1.5m 5/7/10 N=17		brown, coarse to fine grained	W	MD		2.0	
3.0 - 4.0				SPT @ 3.0m 3/8/11 N=19		grey, fine grained, with cemented calcite				3.0	
4.0 - 5.0				SPT @ 4.5m 8/8/11 N=19		pale grey, whitish, very fine grained, with some cemented calcite				4.0	
5.0 - 6.0				SPT @ 6.0m 12/17/24 N=41		Silty SAND (SM) grey, fine grained sand and some calcite and gravels		D		6.0	
6.0 - 8.0				SPT @ 7.5m 30/25 for 50mm		brown, coarse to fine grained, with cemented calcite		VD		8.0	
8.0 - 9.0				SPT @ 9.0m 3/4/3 N=7		brown, very fine grained		L		9.0	
9.0 - 11.0				SPT @ 10.5m 45/10 for 25mm		Silty SAND (SM) brown, fine to coarse grained, with some seashells and calcite	M	VD		11.0	
11.0 - 12.0				SPT @ 12.0m 35 for 60mm		Silty CLAY (CI)		H	No recovery from SPT	12.0	
12.0 - 13.0						Washing boring refusal changed to coring at 12.10m				13.0	

NOTES: Watertable estimated at 1.5m. Details of piezometer standpipe installation can be found in the report.



BOREHOLE LOG

ROCK

Bore No.: BH2

Page: 2 of 2

Client: Barwon Water
 Project: Ocean Grove Raising Main
 Job No.: 31/21263
 Location: Barwon River
 Date Drilled: 10/9/07 to: 10/9/07

Drilling Co.: VicRoads GeoPave
 Driller: Fred C.
 Rig Type: Gemco 210D
 Inclination: vertical
 Bearing: n.a

Easting: 281506 (Zone 55)
 Northing: 5760514
 Grid Ref: WGS 84
 Collar RL: not recorded
 Logged by: KC

Checked by: AS

DRILLING						Graphic Log	ROCK SUBSTANCE DESCRIPTION Rock Type; Structure; Grain Size; Texture; Colour	Estimated Strength	Weathering	RQD (%)		Fracture Frequency (/m)		DISCONTINUITIES Type, Orientation, Roughness, Coating, Thickness	Depth (m)
Depth (m)	Run	Method	Core Recovery (%)		Fluid Loss Estimated (%)					25	75	5	15		
11.0														11.0	
12.0							NMLC coring commenced at 12.10m							12.0	
13.0	1	RT					BASALT grey, vesicular	L	HW				12.25: J, u, 30° 12.46: J, u, 0° 12.47: J, u, 0° 12.5: J, u, 0° 12.67: J, u, 25° 12.76: J, u, 22° 12.8 - 13.4: W	13.0	
14.0	2						grey, some vesicular on surface	M-H	MW				13.51 J, u, 0° 13.55: J, u, 10° 13.6: J, u, 15° 13.66: J, u, 10° 13.77: J, u, 0° 13.81: J, u, 0° 13.87: J, u, 0° 14.01: J, u, 0° 14.10: J, u, 10° 14.22: J, u, 0° 14.3: J, u, 0° 14.3 - 14.52: W 14.52: J, u, 35° 14.77 - 14.9: W	14.0	
15.0	3						grey, vesicular	H	MW				14.975: J, u, 15° 14.9 - 15.04: W 15.24: J, u, 0° 15.33 - 15.48: W 15.76 - 15.9: W 16.04 - 16.15: W 16.18: J, u, 60° 16.26: J, u, 60° 16.29: J, u, 60° 16.45: J, u, 20° 16.56: J, u, 60° 16.56 - 16.74: W 16.86: J, u, 71° 16.91: J, u, 0°	15.0	
16.0	4						grey	H-V	SW - Fr				17.55 - 17.65: W 17.55: J, u, 0° 17.65 - 17.95: W	16.0	
17.0	5						grey	VH	SW - Fr				18.79: J, u, 0°	17.0	
18.0	6						grey	VH-HFR	SW - SW				18.51: J, u, 30° 18.67: J, u, 45° 18.97: J, u, 20° 19.23: J, u, 60° 19.39: J, u, 5° 19.39 - 19.58: W 19.7: J, u, 15° 19.8 - 19.85: W	18.0	
19.0														19.0	
20.0							Borehole terminated at 19.85m							20.0	
21.0														21.0	

NOTES: Piezometer standpipe installed after completion of borehole, with 3m screen located at bottom of bore.

6H2

G.H.D.
BARWON WATER
OCEAN GROVE — RISING MAIN
B07-65192

NMLC
14-11-07

12-10	13-40
13-40	14-90
14-90	16-15
16-15	17-65
17-65	18-35
18-35	19-85