



John Grimes Partnership Ltd

Consulting Engineers & Engineering Geologists

Telephone: (01752) 690533

Borehole No

BH1

Hole Type

WS

Project Name

Beach Road (ch 315-355)

Co-ords:

-

Project No.

6702

Location:

Beach Road, Babbacombe, Torquay

Contractor:

Stunt Drilling Services

Ground level:

17.50 m AOD

Client:

Havana West Ltd.

Dates:

25/10/2007-26/10/2007

Orientation:

90

Installation Backfill	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.16			0.16	17.34		MADE GROUND comprising tarmac.	
		0.25			0.25	17.25		MADE GROUND comprising subbase.	
		0.35			0.35	17.15		MADE GROUND comprising tarmac.	
								MADE GROUND: Firm, red/brown to orange, gravelly CLAY with limestone cobbles.	1
		2.00	SPT	N = 12					2
					2.30	15.20		Very weak, completely weathered, reddish grey MUDSTONE (Late Devonian mudstones) with iron staining.	
		3.00	SPT	N = 20	3.00	14.50		Very weak to weak, highly to completely weathered, dark grey MUDSTONE (Late Devonian Babbacombe Slates), highly fractured along bedding and cleavage planes, with occasional iron staining.	3
		4.00	SPT	N = 30					4
		5.00	SPT	N = 29				Change in cleavage orientation from horizontal to inclined.	5
		6.00	SPT	N = 31				Becoming more weathered, cleavage almost vertical.	6
		7.00	SPT	N = 13				Damp/wet sample, clayey.	7
		8.00	SPT	N = 37					8
		9.00	SPT	N = 52				Becoming drier, more visible relict structure within sample.	9
					10.20	7.30		End of Borehole at 10.20 m	10
									11

Remarks:

Inspection pit dug to 1.10m
Rotary coring 9.00-10.20m (Alcoda 20) - limited recovery
87/78mm dia. samples

Logged By

LW

Checked By

Equipment Used:

Competitor 130

Scale

1:60

Sheet 1 of 1

10000 SE 1.1 (Borehole Log V2 dated 27th Nov 08)



John Grimes Partnership Ltd
Consulting Engineers & Engineering Geologists
Telephone: (01752) 690533

Borehole No

BH2

Hole Type

WS

Project Name

Beach Road (ch 315-355)

Co-ords:

-

Project No.

6702

Location:

Beach Road, Babbacombe, Torquay

Contractor:

Stunt Drilling Services

Ground level:

16.00 m AOD

Client:

Havana West Ltd.

Dates:

26/10/2007-29/10/2007

Orientation:

90

Installation Backfill	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.26			0.26	15.74		MADE GROUND comprising tarmac.	
		0.35			0.35	15.65		MADE GROUND comprising subbase.	
		0.43			0.43	15.57		MADE GROUND comprising tarmac.	
		1.20	SPT	N = 7				MADE GROUND: Firm becoming soft, red/brown to orange, gravelly CLAY with limestone cobbles and occasional boulders.	1
		2.00	SPT	N = 5					2
		2.40			2.40	13.60			
		3.00	SPT	N = 10				Very weak, completely weathered, alternating bands of reddish and light greenish grey MUDSTONE (Late Devonian mudstones) with iron staining.	3
		4.00	SPT	N = 7				Very disturbed sample due to cavings, limestone gravels from above.	4
		4.40			4.40	11.60		High water content, loss of sample and structure.	
		5.00	SPT	N = 37				Very weak to weak, highly to completely weathered, dark grey MUDSTONE (Late Devonian Babbacombe Slates), highly fractured along bedding and cleavage planes, with occasional iron staining and calcite veins.	5
		5.80	SPT	N = 30				Relict structure becoming more apparent. Some sample lost, slightly harder, change in cleavage orientation from horizontal to inclined.	6
		6.80	SPT	N = 22				Very wet sample, structure lost, clayey, some cavings from above.	7
		7.80	SPT	N = 24				Becoming drier, more visible relict structure within sample.	8
		8.80	SPT	N = 31				Becoming stronger, cleavage almost vertical. Occasional calcite veins, approximately 5mm thick.	9
		10.00	SPT	N = 33				Large calcite vein, approximately 10mm thick, becoming moderately strong calcareous mudstone.	10
		10.45			10.45	5.55	End of Borehole at 10.45 m		11

Remarks: **Inspection pit dug to 1.20m
87/78/54/46 dia. samples**

Logged By

LW

Checked By

Equipment Used:

Competitor 130

Scale

1:60

Sheet 1 of 1

101045 SE 1.1 (Borehole Standard Borehole Log V2 dated 27th Nov 03)



John Grimes Partnership Ltd

Consulting Engineers & Engineering Geologists

Telephone: (01752) 690533

Borehole No

BH3

Hole Type

WS

Project Name

Beach Road (ch 315-355)

Co-ords:

-

Project No.

6702

Location:

Beach Road, Babbacombe, Torquay

Contractor:

Stunt Drilling Services

Ground level:

14.00 m AOD

Client:

Havana West Ltd.

Dates:

30/10/2007

Orientation:

90

Installation Backfill	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.30	13.70		MADE GROUND comprising tarmac.	
					0.50	13.50		MADE GROUND comprising subbase.	
					0.60	13.40		MADE GROUND comprising tarmac.	
		1.20	SPT	N = 8				MADE GROUND: Firm becoming soft, red/brown to orange, gravelly CLAY with limestone cobbles.	1
		2.00	SPT	N = 13	1.80	12.20		Very weak, completely weathered, alternating bands of reddish and light greenish grey MUDSTONE (Late Devonian mudstones) with iron staining.	2
		3.00	SPT	N = 27	2.00	12.00		Very weak to weak, highly to completely weathered, dark grey MUDSTONE (Late Devonian Babbacombe Slates), highly fractured along bedding and cleavage planes, with occasional iron staining and calcite veins. Becoming coarser, more blocky cleaved fracturing with depth, frequent iron staining, occasional red siltstone bands. Cleavage becoming inclined, occasional iron staining and calcite veins.	3
		4.00	SPT	N = 16				Becoming stronger, cleavage almost vertical.	4
		5.00	SPT	N = 19				Very weak, slight relict structure visible.	5
		5.70	SPT	N = 50				Very weak, wet/damp sample, no visible structure.	6
		6.15	SPT	N = 50				Structure becoming more visible, occasional calcareous mudstone and calcite veins.	7
		7.00	SPT	N = 34				Only 20% of sample retained, very wet, no visible structure, very clayey.	8
		8.00	SPT	N = 28				Some structure becoming visible. Very wet sample, no visible structure, very clayey.	9
		9.00	SPT	N = 50					
					9.39	4.61		End of Borehole at 9.39 m	11
		Type	Results						

Remarks:

**Inspection pit dug to 1.20m
87/54mm dia. samples**

Logged By

LW

Checked By

Equipment Used:

Competitor 130

Scale

1:60

Sheet 1 of 1