





CLIENT:Stamford Property Services Pty LtdPROJECT:Macquarie VillageLOCATION:110-114 Herring Road, Macquarie Park

SURFACE LEVEL: 72.2 AHD EASTING: NORTHING: DIP/AZIMUTH: 90°/--

BORE No: 111 PROJECT No: 72138 DATE: 9/12/2010 SHEET 1 OF 2

Depth (m)	Description of Strata	Degree of Weathering up of the second	Very Low Low Medium Medium High High Ex High Ex High Ex High Ex High O.01	Fracture Spacing (m)	Discontinuities	Type		ing &	In Situ Testin Test Result
0.15	CONCRETE - 150mm thick FILLING - brown silty clay filling, with some organic matter (grass cuttings) and sub-rounded gravel FILLING - light brown, silty clay filling with some angular gravel				S - Shear F - Fault Note: Unless otherwise stated, rock is fractured along rough planar bedding planes dipping between 0°- 10°	A/E	=		Comments
- 1.1	LAMINITE - extremely low strength extremely weathered, red purple laminite with some clay LAMINITE - high strength with extremely low strength bands, highly weathered with extremely weathered bands, highly fractured to fractured, grey and red brown, medium grained laminite			▞₽₽₽₽₽₽₽₽₽₽₽₽ ੵੵੵੵੵੵੵੵੵੵੵੵੵੵੵੵੵੵੵੵੵੵੵੵੵ	1.7m: Cs, 10mm 2.05m: Cs, 20mm 2.4m: Cs, 20mm 2.53m: J45°, pl, ro, cly 2.7-2.9m: F90°, pl, ro,	c			PL(A) = 1.2
-4 4.36-	SANDSTONE - medium to high then high strength, slightly weathered then fresh, slightly				50mm displaced				PL(A) = 1.1 PL(A) = 1
6	fractured, light grey then orange brown, medium grained sandstone, thickly bedded with indistinct and distinct laminations				5.3m: J60°, pl, ro, he	С	100	34	PL(A) = 0.9
-					6.35m: Cs, 20mm				PL(A) = 0.9
8									PL(A) = 1.5
						с	100	99	PL(A) = 1.1
2 	SANDSTONE - high strength, slightly then moderately weathered, ight grey then orange brown, slightly fractured, medium grained								PL(A) = 0.8 PL(A) = 1.2
	sandstone, thickly bedded with distinct laminations				-	с	100	92	

TYPE OF BORING: Diatube to 0.15m; Solid flight auger (TC-bit) to 1.0m; WATER OBSERVATIONS: No free groundwater observed whilst augering REMARKS:

SAMF	LING & IN SITU TESTING	G LEGEND
A Auger sample B Bulk sample BLK Block sample C Core drilling D Disturbed sample E Environmental sample	G Gas sample P Piston sample U, Tube sample (x mm dia.) W Water sample ▷ Water seep ¥ Water level	PID Photo ionisation detector (ppm) PL(A) Point load axial test Is(50) (MPa) PL(D) Point load diametral test Is(50) (MPa) pp Pocket penetrometer (kPa) S Standard penetration test V Shear vane (kPa)



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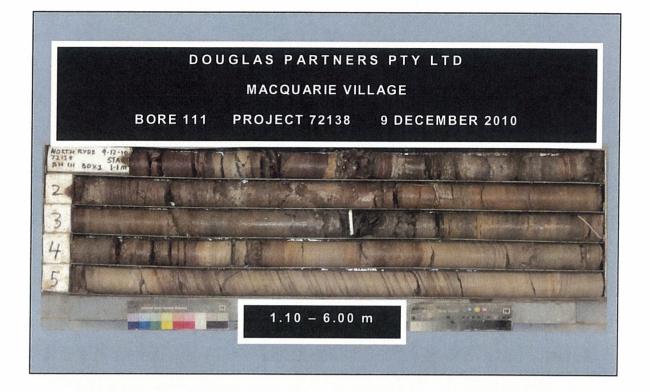
BORE No: 111 PROJECT No: 72138 DATE: 9/12/2010 SHEET 2 OF 2

Depth	Description	Degree of Weathering 글 _	Rock Strength ត្រ	Fracture Spacing	Discontinuities				In Situ Testin
(m)	of Strata	Degree of Weathering Jod Cod Cod Cod Cod	Strength Very Low Very High Medium Very High Ex High Ex High Fill Fill Fill Fill Fill Fill Fill Fil	(m)	B - Bedding J - Joint S - Shear F - Fault	Type	Core Rec. %	00%	Test Result &
-11	SANDSTONE - high strength, slightly then moderately weathered, light grey then orange brown, slightly fractured, medium grained sandstone, thickly bedded with distinct laminations (continued)				10.78m: Cs, 7mm	C	100	92	Comments PL(A) = 1.3 PL(A) = 1.2 PL(A) = 1.3
-13						с	100	97	PL(A) = 1.4
14.2	Bore discontinued at 14.2m		<u>╃┽╀┽</u> ┫┽┼┤ ╽╽╷╷╷╷╷						PL(A) = 1
- 15									
·17	1								
18									

TYPE OF BORING: Diatube to 0.15m; Solid flight auger (TC-bit) to 1.0m; Rotary (water) to 1.10m; NMLC-Coring to 14.20m WATER OBSERVATIONS: No free groundwater observed whilst augering **REMARKS:**

SAMPLING & IN SITU TESTING LEGEND A Auger sample B Bulk sample BLK Block sample C Core drilling D Disturbed sam E Environmental Gas sample Piston sample Tube sample (x mm dia.) Water sample Water seep Water level LEGEND PID Photo ionisation detector (ppm) PL(A) Point load axial test Is(50) (MPa) PL(D) Point load diametral test Is(50) (MPa) pp Pocket penetrometer (kPa) S Standard penetration test V Shear vane (kPa) G P U, W Core drilling Disturbed sample ₽ Environmental sample









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SURFACE LEVEL: 72 AHD EASTING: NORTHING: DIP/AZIMUTH: 90°/-- BORE No: 112 PROJECT No: 72138 DATE: 20/12/2010 SHEET 1 OF 2

Depth	Description	Uegree of Weathering <u>:</u> ≌ _	Rock Strength ក្រ	Fracture	Discontinuities	s			In Situ Testing
(m)	of	Degree of Weathering Hdg B B B B B B B B B B B B B B B B B B B	Strength Very Low Medum Medum Kery High Reversion Kery High Kery Strength Kery Strengt	Spacing (m)	B - Bedding J - Joint	Type	sre %	RQD %	Test Results
¥	Strata	ER S W H EV	EX LOW CONTRACT	0.05 0.10 0.50 1.00	S - Shear F - Fault	12	် ဂြ မီ		Comments
0.08 0.1 0.2	FILLING - yellow brown, sand filling FILLING (ROADBASE) - grey blue metal gravel filling LAMINITE - extremely low strength, yellow brown laminite				Note: Unless otherwise stated, rock is fractured along rough planar bedding planes dipping between 0°- 10°	A/E A/E S			10,12/125mm refusal
- 1.2 	LAMINITE - medium and high strength, highly to moderately weathered, slightly fractured, orange brown, grey and purple red laminite					с	100	98	PL(A) = 0.8
-3	2.19-2.4m: fragmented zone				2.93m: J45°, st, ro, cln				PL(A) = 0.6
-4 4.6-	3.83-3.95m: 130mm clay band SANDSTONE - high strength, highly weathered to fresh, fractured to slightly fractured, orange brown and grey, medium to coarse					С	100	96	PL(A) = 1.4
-6	grained sandstone								PL(A) = 1.6
7						С	100	93	PL(A) = 1.5
8									PL(A) = 1
									PL(A) = 1
9	9.45-11.20m: distinctly laminated	╺ ╸╸╸╸ ╵╘╧╧╧┨				с	100	99	PL(A) = 1

 RIG:
 Multi-drill
 DRILLER:
 SK
 LOGGED:
 PGH

 TYPE OF BORING:
 Diatube to 0.1m;
 Solid flight auger (TC-bit) to 1.2m;
 NMLC-Coring to 14.0m

 WATER OBSERVATIONS:
 No free groundwater observed whilst augering
 REMARKS:

 SAMPLING & IN SITU TESTING LEGEND

 A
 Auger sample
 G
 Gas sample
 PID
 Photo ionisation detector (ppm)

 B
 Bulk sample
 P
 Piston sample
 PL(A) Point load axial test Is(50) (MPa)

 BLK
 Block sample
 U,
 Tube sample (xmm dia.)
 PL(D) Point load diametral test Is(50) (MPa)

 C
 Core drilling
 W
 Water sample
 pp
 Pocket penetrometer (kPa)

 D
 Disturbed sample
 >
 Water seep
 S
 Standard penetration test

 E
 Environmental sample
 ¥
 Water level
 V
 Shear vane (kPa)



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SURFACE LEVEL: 72 AHD EASTING: NORTHING: DIP/AZIMUTH: 90°/-- BORE No: 112 PROJECT No: 72138 DATE: 20/12/2010 SHEET 2 OF 2

	Depth	Description	Degree of Weathering Degree of Upp Upp Upp Upp Upp	Rock Strength ਰਹ	Fracture Spacing	Discontinuities	Sa	ampli	ng &	In Situ Testing
RL	(m)	of Strata	Grap	Strength Kerk Low Very L	(m)	B - Bedding J - Joint S - Shear F - Fault	Type	Core ec. %	RQD %	Test Results
61	-11	SANDSTONE - high strength, highly weathered to fresh, fractured to slightly fractured, orange brown and grey, medium to coarse grained sandstone <i>(continued)</i>					c	100	99	Comments PL(A) = 1.5
	-12									PL(A) = 1.3 PL(A) = 1.3
						13.52m: Cs, 12mm	С	100	94	PL(A) = 1.1
- 89-	14 14.0	Bore discontinued at 14.0m		╶╞╼╞╶┠╺<mark>╿</mark>╸┍ ╶┥ ╿╎╿╿╿╿╽╽						
22 22 24	15									
	16									
1 - 1 - 1 - 23 23										

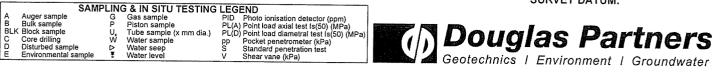
RIG: Multi-drill

DRILLER: SK

LOGGED: PGH

CASING: NW to 1.2m

TYPE OF BORING: Diatube to 0.1m; Solid flight auger (TC-bit) to 1.2m; NMLC-Coring to 14.0m WATER OBSERVATIONS: No free groundwater observed whilst augering REMARKS:









SURFACE LEVEL: 68.1 AHD BORE No: 113 EASTING: NORTHING: DIP/AZIMUTH: 90°/--

PROJECT No: 72138 DATE: 17/12/2010 SHEET 1 OF 1

			Di	P/AZIMUTH	. 30 /	SHE	.C I	10	
Denth	Description	Degree of Weathering i≌	Rock Strength	Fracture	Discontinuities	S		-	In Situ Testing
Depth (m)		Degree of Weathering M M M M M M M M M M M M M M M M M M M		Spacing (m)	B - Bedding J - Joint S - Shear F - Fault	Type	Core Rec %	RQD %	Test Result & Comments
8 0.17 0.4 0.5	CONCRETE - 170mm thick SANDY CLAY - orange brown sandy clay				Note: Unless otherwise stated, rock is fractured along rough planar bedding planes dipping	A/E			
1	SANDSTONE - weathered sandstone SANDSTONE - high strength, slightly weathered, fractured to slightly fractured, light grey, medium to coarse grained sandstone				between 0°- 10° 0.93m: Cs, 4mm	C		100	PL(A) = 1.4 PL(A) = 0.9
2 2.0	SANDSTONE - medium strength, moderately weathered to fresh, slightly fractured and unbroken, medium to coarse grained sandstone				1.66m: CORE LOSS: 340mm 2.1m: CORE LOSS: 400mm	с	48	100	
-3						C	100	100	PL(A) = 0.8
									PL(A) = 0.8
-4					3.94m: J50°, pl, ro	с	100	100	
-5						с	100	100	PL(A) = 0.7 PL(A) = 0.5
7						с	100	100	PL(A) = 0.6 PL(A) = 0.7
	- distinctly laminated from 8.4m to 9.7m				7.92m: CORE LOSS: 80mm 8.7m: Cs, 5mm	с	94	100	
10 10.0						с	100	100	PL(A) = 0.9
: Under	Bore discontinued at 10.0m oinner DRILLE ORING: Solid flight auger (TC-bit) to			GED: PGH	CASING: HW	/ to 0.	50m		

WATER OBSERVATIONS: No free groundwater observed whilst augering **REMARKS:**

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PROJECT: Macquarie Village

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LOCATION: 110-114 Herring Road, Macquarie Park

SAN	PLIN	3 & IN SITU TESTING	LEG	END
A Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B Bulk sample	Р	Piston sample) Point load axial test Is(50) (MPa)
BLK Block sample	U,	Tube sample (x mm dia.)) Point load diametral test Is(50) (MPa)
C Core drilling	Ŵ	Water sample		Pocket penetrometer (kPa)
D Disturbed sample		Water seep	s	Standard penetration test
E Environmental sample	ž	Water level	V	Shear vane (kPa)





