

CORED BOREHOLE LOG

Client: HELM PTY LTD
Project: PROPOSED RESIDENTIAL DEVELOPMENT
Location: 177 RUSSELL AVENUE, DOLLS POINT, NSW

Job No.: 29353S **Core Size:** NMLC **R.L. Surface:** ~1.6 m
Date: 5/5/16 **Inclination:** VERTICAL **Datum:** AHD
Plant Type: JK308 **Bearing:** N/A **Logged/Checked By:** A.B./P.S.

Water Level	Barrel Lift	RL (m AHD)	Depth (m)	Graphic Log	CORE DESCRIPTION Rock Type, grain characteristics, colour, structure, minor components.	Weathering	Strength	POINT LOAD STRENGTH INDEX $I_p(50)$	DEFECT DETAILS	
									DEFECT SPACING (mm)	DESCRIPTION Type, inclination, thickness, planarity, roughness, coating.
								EL-0.03 VI-0.1 L-0.3 M-1 H-3 VIH-10 EH	500 300 100 50 30 10	Specific General
		-21	23		START CORING AT 23.16m					
		-22	24		SANDSTONE: fine to medium grained, light grey, bedded at 5-10°.	SW	M - H			(23.45m) Be, 0°
		-23	25		as above, but bedded at 0-5°.	FR	H			(23.75m) Be, 0°, P, R, CLAY INFILL
		-24	26		SANDSTONE: fine to medium grained, light grey, orange brown and red brown, cross bedded at 15-20°.	SW				(24.51m) XWS, 0°, 70 mm.t, P, R
		-25	27		SANDSTONE: fine to medium grained, light grey with brown and grey bands, bedded at 15°.					(25.34m) CS, 0°, 5 mm.t
		-26	28		END OF BOREHOLE AT 26.10 m					(26.00m) Be, 15°, P, S, IS
		-27								



JK Geotechnics

JOB No. 29353S

BH3 START CORING AT 23.16m

23

24

25

26

EOBH AT 26.10m



Borehole No.

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BOREHOLE LOG

Client: HELM PTY LTD
Project: PROPOSED RESIDENTIAL DEVELOPMENT
Location: 177 RUSSELL AVENUE, DOLLS POINT, NSW

Job No.: 29353S

Method: SPIRAL AUGER & CASING ADVANCER

R.L. Surface: ~1.6 m

Date: 2/5/16

Datum: AHD

Plant Type: JK308

Logged/Checked By: A.B./P.S.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/Weathering	Strength/Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
										FILL: Silty sand, fine grained, grey brown.	M			GRASS COVER
					N = 4 2,1,3		1		SP	SAND: fine to medium grained, light brown.	M	VL		APPEARS POORLY COMPACTED
							1			SAND: fine to medium grained, grey and grey brown, trace of organic material, roots and shell fragments.	W			MARINE
					N = 6 2,2,4		0							
							2			SAND: fine to medium grained, grey, with fine grained shell fragments and shells.				
					N = 3 0,0,3		-1							
							3							
							-2							
					N = 3 1,1,2		-3							
							5							
							-4							
					N = 3 1,1,2		6							WASHBORING WITH CASING ADVANCER
							-5							

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WIK LIB CURRENT - V8.00.GLB Log J & K AUGERHOLE - MASTER 29353S DOLLS POINT.GPJ <<DrawingFile>> 25/05/2016 11:11 Produced by gINT Professional, Developed by Datgel



Borehole No.
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BOREHOLE LOG

Client: HELM PTY LTD
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Location: 177 RUSSELL AVENUE, DOLLS POINT, NSW

Job No.: 29353S **Method:** SPIRAL AUGER & CASING ADVANCER **R.L. Surface:** ~1.6 m
Date: 2/5/16 **Datum:** AHD
Plant Type: JK308 **Logged/Checked By:** A.B./P.S.

Groundwater Record	SAMPLES			Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/Weathering	Strength/Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS									
						-13			SAND: fine to medium grained, dark grey, trace of silt. <i>(continued)</i>	W	L		SLIGHT ORGANIC ODOUR
						15			SAND: fine to medium grained, light grey and grey.		D		
						-14							
						16		SC	CLAYEY SAND/SANDY CLAY: fine to medium grained, light grey and yellow brown.				
						-15							
						17							PUSH - NO MOVEMENT
						-16					(L)		ASSESSMENT BASED ON PENETRATION RATE
						18							
						-17							
						19							
						-18							
						20							
						-19					(D)		PENETRATION RATE SLOWED AND CHAIN TIGHTENED

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Borehole No.

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BOREHOLE LOG

Client: HELM PTY LTD
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Location: 177 RUSSELL AVENUE, DOLLS POINT, NSW

Job No.: 29353S

Method: SPIRAL AUGER & CASING ADVANCER

R.L. Surface: ~1.6 m

Date: 2/5/16

Datum: AHD

Plant Type: JK308

Logged/Checked By: A.B./P.S.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
							-20		SC	CLAYEY SAND/SANDY CLAY: fine to medium grained, light grey and yellow brown. (continued)	W	(D)		PENETRATION RATE SLOWED AND CHAIN TIGHTENED
							22		-	SANDSTONE: fine to medium grained, light grey.	DW	M		
							-21			REFER TO CORED BOREHOLE LOG				
							23							
							-22							
							24							
							-23							
							25							
							-24							
							26							
							-25							
							27							
							-26							



Borehole No.
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CORED BOREHOLE LOG

Client: HELM PTY LTD
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Location: 177 RUSSELL AVENUE, DOLLS POINT, NSW

Job No.: 29353S **Core Size:** NMLC **R.L. Surface:** ~1.6 m
Date: 2/5/16 **Inclination:** VERTICAL **Datum:** AHD
Plant Type: JK308 **Bearing:** N/A **Logged/Checked By:** A.B./P.S.

Water Level Loss/Lift	Barrel Lift	RL (m AHD)	Depth (m)	Graphic Log	CORE DESCRIPTION Rock Type, grain characteristics, colour, structure, minor components.	Weathering	Strength	POINT LOAD STRENGTH INDEX $I_p(50)$	DEFECT DETAILS	
									DEFECT SPACING (mm)	DESCRIPTION Type, inclination, thickness, planarity, roughness, coating.
								EL-0.03 VL-0.1 L-0.3 M-1 H-3 VH-10 EH	500 300 100 50 30 10	Specific General
		-20	22							
					START CORING AT 22.49m					
		-21	23		SANDSTONE: fine to coarse grained, light grey, bedded at 0-5°.	FR	M			(22.60m) Be, 5°, P, R, CLAY INFILL
		-22	24		SANDSTONE: fine to medium grained, light grey, orange brown and red brown, cross bedded at 15°-20°.	SW	H			(24.63m) CS, 0°, 25 mm.t
		-23	25							(25.18m) Be, 2°, P, R, CLAY INFILL
		-24	26		END OF BOREHOLE AT 25.50 m					MONITORING WELL INSTALLED TO 6m, BENTONITE FROM 0.1m TO 0.5m. FINISHED WITH CONCRETE ENCASED GATIC COVER
		-25	27							
		-26								

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JOB No. 29353S BH4 START CORING AT 22.49m

22

23

24

25

EOBH AT 25.50m

ELECTRICAL FRICTION CONE PENETROMETER TEST RESULTS

Client: HELM PTY LTD
Project: PROPOSED RESIDENTIAL DEVELOPMENT
Location: 177 RUSSELL AVENUE, DOLLS POINT, NSW

Job No.: 29353S

R.L. Surface: ~1.3 m

Data File: J:\29000's\29353S

Date: 6/5/16

Datum: AHD

Operator: T.C.

