



# NON-CORE DRILL HOLE - GEOLOGICAL LOG

HOLE NO : BH-002

CLIENT : MPDC  
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776  
SHEET : 1 OF 4

POSITION : E: 527407.71, N: 5252514.77 (MGA2020-55) SURFACE ELEVATION : 5.77 (AHD) ANGLE FROM HORIZONTAL : 90°  
 RIG TYPE : MRS XL Max MOUNTING : Track CONTRACTOR : SWD DRILLER : GB  
 DATE STARTED : 18/4/2024 DATE COMPLETED : 19/4/2024 DATE LOGGED : 18/4/2024 LOGGED BY : TS CHECKED BY : JRG

DRILLING					MATERIAL						
PROGRESS		DRILLING PENETRATION	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) RL (m AHD)	GRAPHIC LOG	GROUP SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY RELATIVE DENSITY	STRUCTURE & Other Observations
DRILLING & CASING	WATER										
S PWT		E-F	Not Encountered		0.0 5.8		0.06m	FILL Gravelly SAND: medium to coarse grained, brown, trace clay; trace cobbles.	D		FILL Acid Sulfate Sampling every 0.5m to bedrock
		E-F		0.80m	FILL Silty CLAY: low to medium plasticity, black mottled brown, trace sand and gravel.		D - M				
		F		1.10m	FILL CONCRETE: pale grey.		D				
				1.50m SPT 1,3,4 N=7	1.50m		FILL Silty CLAY: high plasticity, dark green and black.		1.60-2.20: PP=130kPa		
		E		1.95m	2.0 3.8			M	2.50-2.80: PP=200kPa		
		E		3.00m SPT 13,16,15 N=31	2.85m		FILL Gravelly Clayey SAND: medium to coarse grained, pale brown, with dolerite cobbles.	M			
		E-F		3.45m	3.80m		FILL Sandy GRAVEL: medium to coarse, brown, with dolerite cobbles, with clay.	D			
				SPT 15/20mm HB N=R 4.52m	4.65m		4.50m-4.60m: perched water	M D			
		F			5.0 0.8		DOLERITE: medium to coarse grained, brown, iron staining, inferred as highly weathered, medium to high strength.		ROCK		
		H			6.0 -0.2		DOLERITE: medium to coarse grained, grey with dark grey, iron staining, inferred as moderately weathered, high to very high strength.				
			7.0 -1.2	7.24m		Continued as Cored Drill Hole					
			8.0 -2.2								

See Explanatory Notes for details of abbreviations & basis of descriptions.

WSP-AU-GLB Log IS AU BOREHOLE 2A PS212776\_MASTER.GPJ <DrawingFiles> 18/6/2024 12:09 10:03:00.09 D:\git\Lab and H\_Situ\_Tech - DGD [Lib: WSP-5.05.2.2023-08-23 Proj: WSP-5.04.0.2023-04-11



# CORED DRILL HOLE LOG

HOLE NO : BH-002

CLIENT : MPDC  
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776  
SHEET : 2 OF 4

POSITION : E: 527407.71, N: 5252514.77 (MGA2020-55) SURFACE ELEVATION : 5.77 (AHD) ANGLE FROM HORIZONTAL : 90°  
 RIG TYPE : MRS XL Max MOUNTING : Track CONTRACTOR : SWD DRILLER : GB  
 DATE STARTED : 18/4/2024 DATE COMPLETED : 19/4/2024 DATE LOGGED : 18/4/2024 LOGGED BY : TS CHECKED BY : JRG  
 CASING DIAMETER : 140 mm BARREL (Length) : 1.50 m BIT : IMPREG BIT CONDITION : Good

DRILLING				MATERIAL				FRACTURES							
PROGRESS		CORE LOSS DRILL RUN (%)	ROD (%)	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	DESCRIPTION ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	WEATHERING	ESTIMATED STRENGTH				NATURAL FRACTURE (mm)	VISUAL	ADDITIONAL DATA (joints, partings, seams, zones, etc) Description, orientation, infilling or coating, shape, roughness, thickness, other
DRILLING & CASING	WATER								UCS-154 <sub>200</sub>	UCS	UCS	UCS			
					0.0										
					1.0										
					2.0										
					3.0										
					4.0										
					5.0										
					6.0										
					7.0										
					7.24		7.24m START CORING AT 7.24m								
		0% LOSS	72		8.0		DOLERITE: fine to coarse grained, dark grey with brown, phaneritic, iron staining along defects.	MW					J, 80°, SN, PR, RF, Fe J, 25°, SN, PR, RF, Fe EW, 75°, Fe, clay, 2mm EW, 65 - 80°, Fe, clay, 2mm  EW, 65°, Fe, clay, 1mm J, 65°		

See Explanatory Notes for details of abbreviations & basis of descriptions.

WSP-AU-GLB Log IS AU CORED BOREHOLE 2A PS212776 MASTER.GPJ -<DrawingFile> 18/04/2024 12:09 10.03.00.09 Datalab and In Situ Tool - DGD | Lib: WSP-5.03.2 2023-08-23 Proj: WSP-5.04.0 2023-04-11



# CORED DRILL HOLE LOG

HOLE NO : BH-002

CLIENT : MPDC  
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776  
SHEET : 3 OF 4

POSITION : E: 527407.71, N: 5252514.77 (MGA2020-55)	SURFACE ELEVATION : 5.77 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : MRS XL Max	MOUNTING : Track	CONTRACTOR : SWD
DRILLER : GB	DATE STARTED : 18/4/2024	DATE COMPLETED : 19/4/2024
DATE LOGGED : 18/4/2024	LOGGED BY : TS	CHECKED BY : JRG
CASING DIAMETER : 140 mm	BARREL (Length) : 1.50 m	BIT : IMPREG
		BIT CONDITION : Good

DRILLING				MATERIAL				FRACTURES				
DRILLING & CASING	WATER	CORE LOSS (% LOSS)	ROD (%)	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	DESCRIPTION ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	WEATHERING	ESTIMATED STRENGTH	NATURAL FRACTURE (mm)	VISUAL	ADDITIONAL DATA (joints, partings, seams, zones, etc) Description, orientation, infilling or coating, shape, roughness, thickness, other
		0% LOSS	78		8.0		DOLERITE: fine to coarse grained, dark grey with brown, phaneritic, iron staining along defects. (continued)	MW				J, 60°, SN, PR, RF J, 80°, SN, PR, RF
		9.20 0% LOSS	95	Is(50) D>8.66 MPa Is(50) A>8.51 MPa	9.0		9.45m	DOLERITE: fine to coarse grained, dark grey, phaneritic.  UCS failure influenced by defects, not indicative of true rock strength	SW			
		10.65 0% LOSS	99	Is(50) D>7.35 MPa Is(50) A>8.57 MPa	11.0			FR				SS, 20° SN, PR, RF, clayey gravel J, 5° SN, PR, RF J, 80 - 85° SN, PR, RF, Fe V, 60 - 85°, VN, CU, RF, Cal, 1mm J, 10°, CN, PR, RF
		12.23 0% LOSS	100	Is(50) D>8.09 MPa Is(50) A>7.67 MPa	12.0							J, 80°, CN, PR, RF  J, 0°, SN, PR, RF, Zeo, Cal
		13.82 0% LOSS	100	Is(50) D>6.99 MPa Is(50) A>6.05 MPa	14.0							J, 20°, CN, PR, RF J, 20°, CN, PR, RF  CS, 60 - 85°, CT, UN, RF, Zeo, clay, 2mm CS, 15°, CT, PR, RF, Zeo, 2mm  J, 85°, VN, PR, RF, Zeo
		15.24 0% LOSS	95	Is(50) D>6.94 MPa Is(50) A>7.91 MPa	15.0							J, 0°, CN, PR, RF J, 25°, VN, PR, RF, Fe, Chl
				Is(50) D>7.44 MPa Is(50) A>4.19 MPa	16.0							J, 60°, VN, PR, SM-RF, Zeo  J, 10°, VN, PR, RF J, 10°, SN, PR, RF J, 0°, CN, PR, RF J, 0°, CN, PR, RF

See Explanatory Notes for details of abbreviations & basis of descriptions.

WSP-AU-GLB Log IS AU CORED BOREHOLE 2A PS212776\_MASTER.GPJ -> DrawingFile>> 18/6/2024 12:09 10.03.00.09 Dargal Lab and In Situ Tool - DGD | Lib. WSP 5.03.2 2023-08-23 Proj. WSP 5.04.0 2023-04-11



# CORED DRILL HOLE LOG

HOLE NO : BH-002

CLIENT : MPDC  
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776  
SHEET : 4 OF 4


POSITION : E: 527407.71, N: 5252514.77 (MGA2020-55)	SURFACE ELEVATION : 5.77 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : MRS XL Max	MOUNTING : Track	CONTRACTOR : SWD
DRILLER : GB	DATE STARTED : 18/4/2024	DATE COMPLETED : 19/4/2024
DATE LOGGED : 18/4/2024	LOGGED BY : TS	CHECKED BY : JRG
CASING DIAMETER : 140 mm	BARREL (Length) : 1.50 m	BIT : IMPREG
		BIT CONDITION : Good

DRILLING				MATERIAL				FRACTURES				
DRILLING & CASING	WATER	CORE LOSS (DRILL DEPTH / CORE RUN %)	ROD (%)	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	DESCRIPTION ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	WEATHERING	ESTIMATED STRENGTH UCS=194 MPa ● - Axial O - Diametral ■ - UCS	NATURAL FRACTURE (mm)	VISUAL	ADDITIONAL DATA (joints, partings, seams, zones, etc) Description, orientation, infilling or coating, shape, roughness, thickness, other
HQ3	90-95% RETURN	0% LOSS	95		16.0		DOLERITE: fine to coarse grained, dark grey, phaneritic, equigranular. (continued)	FR				<ul style="list-style-type: none"> <li>J, 65°, VN, PR, SM-RF</li> <li>J, 5°, CN, PR, RF</li> <li>J, 0°, VN, PR, RF, Cal</li> <li>J, 65°, VN, PR, SM, Zeo, Cal</li> <li>J, 20°, VN, PR, RF, Cal</li> <li>J, 40°, VN, PR, SM-RF, Zeo</li> <li>J, 45°, CT, PR, SM-RF, Zeo, Chl</li> </ul>
		0% LOSS	96	Is(50) D>=8.26 MPa Is(50) A>=5.92 MPa	16.71							
		0% LOSS		Is(50) D>=8.53 MPa Is(50) A>=6.15 MPa	18.30							
					18.30		Hole Terminated at 18.30 m Target depth Grouted to Surface					
					19.0							
					20.0							
					21.0							
					22.0							
					23.0							
					24.0							

See Explanatory Notes for details of abbreviations & basis of descriptions.




PointID : BH-002 Depth Range: 0.00 - 1.50 m

	TITLE  MPDC Macquarie Point Macquarie Point GI Core Photo - BH-002	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No	PS212776	FIGURE No




PointID : BH-002 Depth Range: 1.50 - 3.00 m

	TITLE  MPDC Macquarie Point Macquarie Point GI Core Photo - BH-002	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No PS212776	FIGURE No 2/8	




PointID : BH-002 Depth Range: 3.00 - 4.65 m

	TITLE  MPDC Macquarie Point Macquarie Point GI Core Photo - BH-002	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No	PS212776	FIGURE No




PointID : BH-002 Depth Range: 4.65 - 6.00 m

	TITLE	DRAWN	DATE
	MPDC Macquarie Point Macquarie Point GI Core Photo - BH-002	CHECKED	DATE
		SCALE	FIGURE No
		PROJECT No	
		PS212776	4/8




PointID : BH-002 Depth Range: 6.00 - 7.24 m

	TITLE	DRAWN	DATE
	MPDC Macquarie Point Macquarie Point GI Core Photo - BH-002	CHECKED	DATE
		SCALE	FIGURE No
		PROJECT No	
		PS212776	5/8




PointID : BH-002 Depth Range: 7.24 - 11.00 m

	TITLE  MPDC Macquarie Point Macquarie Point GI Core Photo - BH-002	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No	PS212776	FIGURE No




PointID : BH-002 Depth Range: 11.00 - 15.00 m

	TITLE  MPDC Macquarie Point Macquarie Point GI Core Photo - BH-002	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No PS212776	FIGURE No	7/8



PointID : BH-002 Depth Range: 15.00 - 18.30 m

	TITLE  MPDC Macquarie Point Macquarie Point GI Core Photo - BH-002	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No PS212776	FIGURE No	8/8