



# NON-CORE DRILL HOLE - GEOLOGICAL LOG

HOLE NO : BH-001

CLIENT : MPDC  
 LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776  
 SHEET : 1 OF 3

POSITION : E: 527448.87, N: 5252553.93 (MGA2020-55) SURFACE ELEVATION : 5.96 (AHD) ANGLE FROM HORIZONTAL : 90°  
 RIG TYPE : MRS XL Max MOUNTING : Track CONTRACTOR : SWD DRILLER : GB  
 DATE STARTED : 19/4/2024 DATE COMPLETED : 20/4/2024 DATE LOGGED : 20/4/2024 LOGGED BY : TS CHECKED BY : JRG

DRILLING					MATERIAL							
DRILLING & CASING	WATER	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
S PWT H		F	Not Encountered	Is(50) I=8.26 MPa	0.0			0.06m ASPHALTIC CONCRETE.	D			FILL Acid Sulfate Sampling every 0.5m to bedrock
					0.80m			FILL Clayey Gravelly SAND: medium to coarse grained, black with brown, gravel is fine to medium grained, sub-angular to angular; with cobbles.				
					H	1.0			1.20m	DOLERITE: fine to coarse grained, dark grey with brown, iron staining, inferred as highly to moderately weathered, high to very high strength.	D - M	
					2.0			Continued as Cored Drill Hole				
					4.0							
					3.0							
					4.0							
					2.0							
					5.0							
					1.0							
					6.0							
					0.0							
					7.0							
					-1.0							
					8.0							
					-2.0							

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-001

CLIENT : MPDC  
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776  
SHEET : 2 OF 3

POSITION : E: 527448.87, N: 5252553.93 (MGA2020-55)	SURFACE ELEVATION : 5.96 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : MRS XL Max	MOUNTING : Track	CONTRACTOR : SWD
DRILLER : GB	DATE STARTED : 19/4/2024	DATE COMPLETED : 20/4/2024
DATE LOGGED : 20/4/2024	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 (%)	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
									UCS-194 <sub>200</sub>	UCS	UH-200	EH			
					0.0										
					1.75m		1.75m START CORING AT 1.75m								
		0% LOSS	45		2.0		DOLERITE: fine to coarse grained, dark grey, phaneritic, iron staining.	MW						J, 70°, VN, PR, RF, Zeo J, 80°, VN, PR, RF, Zeo	
		3.20	48		3.0		Is(50) D>6.94 MPa Is(50) A>6.44 MPa							J, 85°, VN, PR, RF, Fe, Zeo J, 10°, CN, PR, RF J, 85 - 90°, VN, PR, RF, Zeo, Chl J, 15°, VN, PR, RF, Fe Jx4, 40 - 50°, SN, PR, RF, Fe J, 45°, SN, PR, RF, Fe J, 65 - 70°, VN, PR, RF, Fe, Zeo J, 25°, SN, PR, RF, Chl, Fe J, 0°, SN, PR, RF, Fe J, 5°, SN, PR, RF, Zeo, Fe J, 45 - 70°, SN, PR, RF, Fe J, 10°, CN, PR, RF J, 90°, VN, PR, RF, Zeo, Fe J, 85°, VN, PR, RF, Zeo, Fe Jx5, 10 - 30°, SN, PR, RF, Fe J, 5°, SN, PR, RF, Fe	
		4.30	0		4.0									J, 5°, SN, PR, RF, Fe J, 45 - 65°, VN, UN, RF, Fe, partially healed J, 75 - 80°, VN, PR, RF, Fe J, 5°, SN, PR, RF, Fe J, 5°, SN, PR, RF, Fe J, 70 - 75°, VN, UN, RF, Fe J, 60°, VN, PR, RF, Fe J, 50°, VN, PR, RF, Fe	
		4.70	85		5.0		Is(50) D=4.71 MPa Is(50) A>6.49 MPa		HW					SZ SS, 15°, PR, Zeo, clay J, 40°, SN, PR, RF, Zeo, Fe	
		6.10	85		6.0									EW, 50°, 100mm, clayey gravel J, 10°, VN, PR, SM-RF, Zeo, Fe J, 65°, VN, PR, RF, Fe J, 10°, VN, PR, SM-RF, clay	
		7.60	91		7.0		Is(50) D=5.22 MPa Is(50) A=3.21 MPa		MW					EW, 45 - 60°, VN, ST, RF, Fe EW, 60 - 85°, IR, 12-40mm J, 5°, CT, PR, RF, PI, clay, Fe	
					8.0		Is(50) D=4.17 MPa Is(50) A=0.600 MPa							J, 65°, PR, Fe, 3mm J, 15°, SN, PR, RF, Fe J, 45°, SN, PR, RF, Fe J, 55 - 85°, SN, IR, RF, Fe J, 30°, VN, PR, RF, Chl, Fe J, 55°, SN, PR, RF, Fe J, 60°, SN, PR, RF, Fe EW, 60°, PR, Fe, clay CZ, Fe, clay	
														J, 5°, SN, PR, RF, Fe J, 5°, SN, PR, RF, Fe	

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 Dangel 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-001

CLIENT : MPDC  
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776  
SHEET : 3 OF 3

POSITION : E: 527448.87, N: 5252553.93 (MGA2020-55)	SURFACE ELEVATION : 5.96 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : MRS XL Max	MOUNTING : Track	CONTRACTOR : SWD
DRILLER : GB	DATE STARTED : 19/4/2024	DATE COMPLETED : 20/4/2024
DATE LOGGED : 20/4/2024	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 (% 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 UCS=194 <sub>200</sub> ● - Axial O - Diametral M - UCS H - UCS VH - 200 EH	NATURAL FRACTURE (mm)	VISUAL	ADDITIONAL DATA (joints, partings, seams, zones, etc) Description, orientation, infilling or coating, shape, roughness, thickness, other
		0% LOSS	91	Is(50) D>6.73 MPa Is(50) A=0.670 MPa	8.0		DOLERITE: fine to coarse grained, dark grey, phaneritic, iron staining. (continued)	MW				J, 65 - 80°, CT, UN, RF, Fe, gravelly clay, 6-16mm EW, clay, 45mm, PP=110-150kPa J, 5°, SN, PR, RF, Fe
		9.14		Is(50) D>7.90 MPa Is(50) A>5.27 MPa	9.0		DOLERITE: fine to coarse grained, dark grey, phaneritic.	SW				J, 5°, SN, PR, RF, Fe
		0% LOSS	90	Is(50) D=4.19 MPa Is(50) A=5.87 MPa	9.28m 9.60m		DOLERITE: fine to coarse grained, dark grey, phaneritic, iron staining.	FR				J, 35°, SN, UN, RF, Fe J, 20°, SN, PR, RF, Fe J, 60 - 75°, CT, PR, RF, Chl, 2mm
		0% LOSS		Is(50) D=4.19 MPa Is(50) A=5.87 MPa	10.0		DOLERITE: fine to coarse grained, dark grey, phaneritic, iron staining.					J, 10°, SN, PR, RF, Fe SZ, SN, Fe
		0% LOSS	0	Is(50) D>5.97 MPa Is(50) A=3.82 MPa Is(50) D=6.78 MPa Is(50) A=7.79 MPa	10.20m 10.44m 10.70m	10.20m: becoming fine to coarse grained 10.44m: becoming fine to medium grained 10.70m: becoming fine to coarse grained					CS, 75 - 80°, CT, PR, RF, Zeo, Chl, 5mm CS, 70 - 90°, CT, PR, RF, Zeo, Chl, 2mm J, 5°, SN, PR, RF, Fe	
		0% LOSS	0		10.83m	10.83m-11.75m: mechanical and drilling induced breaks due to wedging off during rock coring					SZ, 75°, VN, PR, RF, Zeo	
		0% LOSS			11.0						SZ	
		0% LOSS			11.75		Hole Terminated at 11.75 m Target depth Grouted to Surface					
					12.0							
					13.0							
					14.0							
					15.0							
					16.0							

WSP-AU-GLB-Log-Is-AU-CORED-BOREHOLE-2A-PS212776-MASTER.GPJ -<DrawingFile>- 18/6/2024 12:09 10,03,00,09 Datal Lab and In Situ Tool - DGD | Lib: WSP-5,6,7,2023-08-23 Proj: WSP-5,0,0,2023-04-11

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




PointID : BH-001 Depth Range: 0.00 - 1.50 m

	TITLE  MPDC Macquarie Point Macquarie Point GI Core Photo - BH-001	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No	PS212776	FIGURE No




PointID : BH-001 Depth Range: 1.50 - 1.75 m

	TITLE  MPDC Macquarie Point Macquarie Point GI Core Photo - BH-001	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No PS212776	FIGURE No 2/5	




PointID : BH-001 Depth Range: 1.75 - 5.00 m

	TITLE  MPDC Macquarie Point Macquarie Point GI Core Photo - BH-001	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No PS212776	FIGURE No 3/5	




PointID : BH-001 Depth Range: 5.00 - 9.00 m

	TITLE  MPDC Macquarie Point Macquarie Point GI Core Photo - BH-001	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No PS212776	FIGURE No	4/5



PointID : BH-001 Depth Range: 9.00 - 11.75 m

	TITLE  MPDC Macquarie Point Macquarie Point GI Core Photo - BH-001	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No PS212776	FIGURE No 5/5	