



NON-CORE DRILL HOLE - GEOLOGICAL LOG

HOLE NO : BH-007

CLIENT : MPDC
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776
SHEET : 1 OF 4

POSITION : E: 527618.42, N: 5252416.64 (MGA2020-55)	SURFACE ELEVATION : 3.06 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : MRS XL Max	MOUNTING : Track	CONTRACTOR : SWD
DRILLER : GB	DATE STARTED : 2/5/2024	DATE COMPLETED : 3/5/2024
DATE LOGGED : 2/5/2024	LOGGED BY : MIR	CHECKED BY : JRG

DRILLING				MATERIAL			
PROGRESS	DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	RELATIVE DENSITY	STRUCTURE & Other Observations
DRILLING & CASING WATER DRILLING PENETRATION GROUND WATER LEVELS SAMPLES & FIELD TESTS	DEPTH (m) RL (m AHD)	GRAPHIC LOG	Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY	RELATIVE DENSITY	STRUCTURE & Other Observations
	0.0 3.1		ASPHALTIC CONCRETE.				ROAD SURFACE Acid Sulfate Sampling every 0.5m to bedrock
	0.45m		FILL Gravelly SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey mottled brown, gravel is fine to medium grained, angular to sub-rounded; with clay; with some waste inclusions (plastic and brick fragments).	M			FILL
	1.0 2.1		FILL Clayey Gravelly SAND: dark grey, gravel is fine to medium grained, angular to sub-rounded; clay is medium plasticity; with glass fragments and wood chips.	M - W			
	1.45m		FILL Sandy CLAY: medium plasticity, dark grey mottled yellow-brown.	w<PL			2.20: PP =280 kPa 2.40: PP =48 kPa
	2.0 1.1		2.20m: medium to high plasticity, dark grey, decreasing sand content; trace medium grained, sub-rounded gravel; trace glass and tile fragments				
	2.00m		3.00-6.00m: slight tar odour	w≈PL			
	3.00m SPT 1.0,1 N=1						
	3.45m						
	4.0 0.9		FILL SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, with clay; trace medium to coarse grained, sub-rounded gravel; trace waste and wood fragments.	M			
	4.00m		4.50m: with fine to coarse grained, sub-angular gravel				
	5.0 -1.9		5.50-5.70m: lense of medium to high plasticity, green-grey clay	M - W			
	6.00m SPT 0,0,1 N=1		6.00m 5.90-6.00m: metal fragments recovered				
	6.45m		SAND: fine to medium grained, sub-rounded, grey, with silt; with shell fragments.	M - W	VL - L		ESTUARINE SOIL
	6.60m						
	7.0 -3.9		DOLERITE: fine to coarse grained, yellow-brown, sub-angular to sub-rounded gravel, inferred as highly weathered.				ROCK
	7.00m		7.00m: recovered as gravel and silt, inferred as highly to moderately weathered, grey				
	7.80m						
	8.0 -4.9		Continued as Cored Drill Hole				

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 12:14 10:03:00.09 Digitl Lab and H. Silu 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-007

CLIENT : MPDC
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776
SHEET : 2 OF 4

POSITION : E: 527618.42, N: 5252416.64 (MGA2020-55) SURFACE ELEVATION : 3.06 (AHD) ANGLE FROM HORIZONTAL : 90°
 RIG TYPE : MRS XL Max MOUNTING : Track CONTRACTOR : SWD DRILLER : GB
 DATE STARTED : 2/5/2024 DATE COMPLETED : 3/5/2024 DATE LOGGED : 2/5/2024 LOGGED BY : MIR CHECKED BY : JRG
 CASING DIAMETER : 150 mm BARREL (Length) : 1.50 m BIT : IMPREG RC10 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-194 ₂₀₀	UCS-194 ₄₀₀	UCS-194 ₆₀₀	UCS-194 ₁₀₀₀			
					0.0										
					1.0										
					2.0										
					3.0										
					4.0										
					5.0										
					6.0										
					7.0										
					7.80m		7.80m START CORING AT 7.80m								
H03	↑	0% LOSS	44		8.0		DOLERITE; fine to coarse grained, dark grey-blue, crystalline, phaneritic.	SW						J, 60 - 90°, SN, CU, SM, 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 12:15 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-007

CLIENT : MPDC
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776
SHEET : 3 OF 4

POSITION : E: 527618.42, N: 5252416.64 (MGA2020-55)	SURFACE ELEVATION : 3.06 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : MRS XL Max	MOUNTING : Track	CONTRACTOR : SWD
DRILLER : GB	DATE STARTED : 2/5/2024	DATE COMPLETED : 3/5/2024
DATE LOGGED : 2/5/2024	LOGGED BY : MIR	CHECKED BY : JRG
CASING DIAMETER : 150 mm	BARREL (Length) : 1.50 m	BIT : IMPREG RC10
		BIT CONDITION : Good

DRILLING				MATERIAL				FRACTURES								
DRILLING & CASING	WATER	CORE LOSS % DEPTH	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-154 ₂₀₀	UCS-300	UCS-400	UCS-200				
		0% LOSS	44		8.0		DOLERITE: fine to coarse grained, dark grey-blue, crystalline, phaneritic. (continued)	SW							EW, 65 - 75°, PR, clay, 1-4mm J, 80 - 90°, VN, PR, RF, Fe Jx3, 30 - 40°, SN, PR, RF, Fe J, 70 - 80°, SN, UN, RF, Fe	
		8.30							HW - SW							EW, clayey gravel, 90mm EW, 40°, clay with gravel, Fe, 50mm EW, 80 - 90°, CU, clay, 2mm EW, 50 - 60°, clay, 100mm
		0% LOSS	67						SW							J, 20 - 30°, SN, PR, RF, Fe J, 60 - 90°, CT, UN, RF, Fe, clay
		9.00														J, 50 - 60°, CT, PR, RF, clay with sand, Fe
		0% LOSS	98													J, 40 - 50°, CT, PR, RF, clay, Fe J, 20 - 30°, SN, PR, RF, Fe
		10.25		Is(50) D>6.02 MPa Is(50) A>5.98 MPa												J, 65 - 75°, CT, PR, RF, clay with sand, Fe EW, gravelly sandy clay
		0% LOSS	100													J, 40 - 60°, SN, PR, RF J, 80°, VN, PR, RF, Fe
		0% LOSS	68						SW - FR							J, 60°, CT, PR, RF, clay, 5mm J, 0 - 30°, CT, IR, RF, clay
		11.70		Is(50) D>6.44 MPa Is(50) A=4.34 MPa Is(50) D>6.37 MPa												EW, 50 - 60°, PR, RF, Chl infill with clay, Fe, 2mm Jx2, 50 - 60°, SN, PR, RF, Fe J, 20 - 30°, SN, PR, RF, Fe EW, clay with sand, Chl, Fe
		0% LOSS	85													EW, 0 - 10°, clay, Chl, Zeo, Fe, 15mm IS, 70 - 80°, clay, Chl, 10mm IS, 65 - 75°, clay, Chl, 10mm Jx2, 10°, VN, PR, RF, Zeo, Chl
		12.35		Is(50) A=5.89 MPa												J, 40 - 50°, CN, PR, RF
		0% LOSS	92													J, 0 - 10°, CN, PR, RF Jx2, 10 - 20°, SN, PR, RF, Fe
		13.80		Is(50) D>6.41 MPa Is(50) A>5.24 MPa												J, 10 - 20°, SN, PR, RF, Fe
		0% LOSS	100						FR							
		15.25		Is(50) D>6.39 MPa Is(50) A=6.80 MPa												
		0% LOSS	100													

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CORED DRILL HOLE LOG

HOLE NO : BH-007

CLIENT : MPDC
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776
SHEET : 4 OF 4


POSITION : E: 527618.42, N: 5252416.64 (MGA2020-55)	SURFACE ELEVATION : 3.06 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : MRS XL Max	MOUNTING : Track	CONTRACTOR : SWD
DRILLER : GB	DATE STARTED : 2/5/2024	DATE COMPLETED : 3/5/2024
DATE LOGGED : 2/5/2024	LOGGED BY : MIR	CHECKED BY : JRG
CASING DIAMETER : 150 mm	BARREL (Length) : 1.50 m	BIT : IMPREG RC10
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	
									UCS-154 ₂₀₀ ● - Axial O - Diametral ■ - UCS				
HQ3	100% Polymer RETURN	0% LOSS	100	Is(50) D>6.00 MPa Is(50) A>7.25 MPa 16.40m UCS =46 MPa	16.0		DOLERITE: fine to coarse grained, dark grey-blue, crystalline, phaneritic. (continued)	FR				J, 0 - 10°, CN, PR, RF	
		0% LOSS	100	Is(50) A=6.69 MPa Is(50) D>6.01 MPa	17.0								
		0% LOSS		Is(50) D=5.65 MPa Is(50) A>2.75 MPa	18.0								
				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-007 Depth Range: 0.00 - 1.50 m

	TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-007	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No	PS212776	FIGURE No




PointID : BH-007 Depth Range: 1.50 - 3.00 m

	TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-007	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No	PS212776	FIGURE No




PointID : BH-007 Depth Range: 3.00 - 4.50 m

	TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-007	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No	PS212776	FIGURE No




PointID : BH-007 Depth Range: 4.50 - 7.00 m

	TITLE	DRAWN	DATE
	MPDC Macquarie Point Macquarie Point GI Core Photo - BH-007	CHECKED	DATE
		SCALE	FIGURE No
		PROJECT No	
		PS212776	4/8




PointID : BH-007 Depth Range: 7.00 - 7.80 m

	TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-007	DRAWN	DATE	18/6/2024	
		CHECKED	DATE	18/6/2024	
		SCALE	Not To Scale		A4
		PROJECT No	PS212776		FIGURE No




PointID : BH-007 Depth Range: 7.80 - 11.00 m

	TITLE	DRAWN	DATE
	MPDC Macquarie Point Macquarie Point GI Core Photo - BH-007	CHECKED	DATE
		SCALE	FIGURE No
		PROJECT No	
		PS212776	6/8




PointID : BH-007 Depth Range: 11.00 - 15.00 m

	TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-007	DRAWN	DATE	18/6/2024
		CHECKED	DATE	18/6/2024
		SCALE	Not To Scale	A4
		PROJECT No	PS212776	FIGURE No



PointID : BH-007 Depth Range: 15.00 - 18.30 m

	TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-007	DRAWN	DATE
		CHECKED	DATE
		SCALE	FIGURE No
		PROJECT No	FIGURE No
		18/6/2024	18/6/2024
		Not To Scale	8/8
		A4	
		PS212776	