



NON-CORE DRILL HOLE - GEOLOGICAL LOG

HOLE NO : BH-008

CLIENT : MPDC
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776
SHEET : 1 OF 4

| | | |
|---|--------------------------------|-----------------------------|
| POSITION : E: 527630.36, N: 5252462.47 (MGA2020-55) | SURFACE ELEVATION : 3.57 (AHD) | ANGLE FROM HORIZONTAL : 90° |
| RIG TYPE : MRS XL Max | MOUNTING : Track | CONTRACTOR : SWD |
| DRILLER : GB | DATE STARTED : 7/5/2024 | DATE COMPLETED : 7/5/2024 |
| DATE LOGGED : 7/5/2024 | 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 | RL (m AHD) | GROUP SYMBOL | Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components | | | | |
| | 0.0 | | ASPHALTIC CONCRETE. | | | | ROAD SURFACE |
| | 0.30m | | FILL Gravelly SAND: fine to coarse grained, sub-rounded to sub-angular, orange-brown, gravel is fine to medium grained, sub-angular to angular. | | | | FILL Acid Sulfate Sampling every 0.5m to bedrock |
| | 1.00m | | FILL Sandy GRAVEL: fine to coarse, to 150 mm, sub-rounded to angular, grey-brown. | | | | |
| | 1.00m | | FILL Gravelly SAND: fine to coarse grained, sub-rounded to sub-angular, brown and grey, gravel is fine to coarse grained, sub-rounded to angular; trace silt. | D | | | |
| 1.50m SPT 14,14,12 N=26 | 1.95m | | 1.90m: shell fragments | | | | |
| | 2.00m | | FILL Clayey SAND: fine to coarse grained, sub-rounded to sub-angular, dark grey, clay is medium plasticity; trace fine to medium grained, sub-angular gravel; trace waste fragments (tile, brick, concrete, wood chips, metal, glass). | | | | |
| 3.00m SPT 3,1,2 N=3 | 3.45m | | 4.00m: becoming orange-brown | | | | |
| | 4.00m | | 4.25m | | | | |
| | 5.00m | | FILL Silty Clayey SAND: fine to coarse grained, sub-rounded to sub-angular, dark grey, clay is low to medium plasticity; trace metal and wire fragments. 4.25-5.00m: slight hydrocarbon / tar odour | M - W | | | |
| | 5.60m | | | | | | ROCK |
| 6.00m SPT 11/80mm HB N=R 6.08m | 6.00m | | DOLERITE: grey, recovered as sand, fine to coarse grained, sub-rounded to sub-angular, green-grey, with gravel, inferred highly weathered. | | | | |
| | 7.00m | | DOLERITE: grey orange-brown, recovered as sandy gravel, fine to coarse grained, inferred highly weathered to moderately weathered. | | | | |
| | 7.40m | | | | | | |
| | 8.00m | | 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.CPJ <DrawingFiles> 18/6/2024 12:16 10.03.00.09 Digitl Lab and H. Silu Tech - DGD [Lib: WSP-5.05.2.2023-08-23 Pjt: WSP-5.04.0.2023-04-11



CORED DRILL HOLE LOG

HOLE NO : BH-008

CLIENT : MPDC
LOCATION : Macquarie Point

PROJECT : Macquarie Point GI

FILE / JOB NO : PS212776
SHEET : 2 OF 4

POSITION : E: 527630.36, N: 5252462.47 (MGA2020-55) SURFACE ELEVATION : 3.57 (AHD) ANGLE FROM HORIZONTAL : 90°
 RIG TYPE : MRS XL Max MOUNTING : Track CONTRACTOR : SWD DRILLER : GB
 DATE STARTED : 7/5/2024 DATE COMPLETED : 7/5/2024 DATE LOGGED : 7/5/2024 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-154 ₂₀₀ | UCS-154 ₄₀₀ | UCS-154 ₆₀₀ | UCS-154 ₈₀₀ | | | |
| | | | | | 0.0 | | | | | | | | | | |
| | | | | | 1.0 | | | | | | | | | | |
| | | | | | 2.0 | | | | | | | | | | |
| | | | | | 3.0 | | | | | | | | | | |
| | | | | | 4.0 | | | | | | | | | | |
| | | | | | 5.0 | | | | | | | | | | |
| | | | | | 6.0 | | | | | | | | | | |
| | | | | | 7.0 | | | | | | | | | | |
| | | | | | 7.40m | | 7.40m START CORING AT 7.40m | | | | | | | | |
| | | 0% | 86 | Is(50) D>=6.30 MPa Is(50) | 8.0 | | DOLERITE: fine to coarse grained, dark grey-blue, crystalline, phaneritic texture. | SW | | | | | | CS, 40 - 50°, CT, PR, RF, gravel, Fe, 2mm | |

WSP-AU-GLB Log IS AU CORED BOREHOLE 2A PS212776_MASTER.GPJ -<DrawingFile> 18/6/2024 12:17 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

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



CORED DRILL HOLE LOG

HOLE NO : BH-008

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FILE / JOB NO : PS212776
SHEET : 3 OF 4

| | | |
|---|--------------------------------|-----------------------------|
| POSITION : E: 527630.36, N: 5252462.47 (MGA2020-55) | SURFACE ELEVATION : 3.57 (AHD) | ANGLE FROM HORIZONTAL : 90° |
| RIG TYPE : MRS XL Max | MOUNTING : Track | CONTRACTOR : SWD |
| DRILLER : GB | DATE STARTED : 7/5/2024 | DATE COMPLETED : 7/5/2024 |
| DATE LOGGED : 7/5/2024 | 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 (DRILL DEPTH / CORE RUN %) | ROD (%) | SAMPLES & FIELD TESTS | DEPTH (m) | GRAPHIC LOG | DESCRIPTION (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable) | WEATHERING | ESTIMATED STRENGTH (UCS, Is(50), D, A, etc) | NATURAL FRACTURE (mm) | VISUAL | ADDITIONAL DATA (joints, partings, seams, zones, etc) Description, orientation, infilling or coating, shape, roughness, thickness, other | |
| | | | | | | | | | | | | | PROGRESS |
| | | 0% LOSS | 86 | A>7.16 MPa | 8.0 | | DOLERITE: fine to coarse grained, dark grey-blue, crystalline, phaneritic texture. (continued) | SW | UCS=194 MPa | 20-100 | | J, 70 - 80°, VN, PR, RF, Fe | |
| | | 0% LOSS | 100 | Is(50) A>5.13 MPa Is(50) D>5.88 MPa | 9.0 | | | MW | | 20-100 | | J, 20°, CT, PR, VR, Fe J, 20 - 25°, CT, PR, VR, Fe J, 70 - 80°, CT, PR, VR, Fe J, 60 - 70°, VN, PR, RF, Fe J, 20 - 30°, SN, PR, RF, Fe J, 0 - 10°, CT, PR, VR, Fe CS, 25 - 35°, PR, VR, gravel, Fe, 20mm | |
| | | 0% LOSS | 100 | Is(50) A>5.88 MPa Is(50) D>5.88 MPa | 10.0 | | | FR | | 20-100 | | J, 10 - 20°, SN, PR, SM, Fe J, 30 - 80°, SN, ST, RF, Fe J, 0 - 10°, SN, PR, RF, Fe | |
| | | 0% LOSS | 100 | Is(50) A>6.76 MPa | 11.0 | | | | | 20-100 | | | |
| | | 0% LOSS | 100 | Is(50) A>6.82 MPa Is(50) D>5.88 MPa | 11.74m | | | UCS failure influenced by defects, not indicative of true rock strength | | 20-100 | | | |
| | | 0% LOSS | 100 | Is(50) D>6.05 MPa | 12.00 | | | | | 20-100 | | | |
| | | 0% LOSS | 100 | Is(50) A>7.23 MPa Is(50) D>6.47 MPa | 13.0 | | | | | 20-100 | | | |
| | | 0% LOSS | 100 | Is(50) A>6.17 MPa | 13.46 | | | 13.80m: pale grey, porphyritic texture, chlorite and sericite alteration | SW - FR | 20-100 | | | |
| | | 0% LOSS | 100 | Is(50) A>6.17 MPa Is(50) D=5.72 MPa | 14.0 | | | 14.40m: dark grey-blue, phaneritic texture, fine to medium grained | FR | 20-100 | | | |
| | | 0% LOSS | 100 | Is(50) D>6.17 MPa Is(50) A>5.72 MPa | 15.0 | | | | | 20-100 | | | |
| | | 0% LOSS | 100 | Is(50) A>5.69 MPa Is(50) D>6.17 MPa | 15.60m | | 15.60m: dolerite breccia, cobbles, well rounded, matrix gravel and sands, angular, well graded, with hydrothermal mineral infill, lithified | | 20-100 | | | J, 40 - 50°, CN, PR, SM | |

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CORED DRILL HOLE LOG


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SHEET : 4 OF 4

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| | | BIT CONDITION : Good |


| DRILLING | | | | MATERIAL | | | | FRACTURES | | | | | | | |
|-------------------|-------|---------------------------------------|---------|-----------------------|-----------|---|--|------------|------------------------|-----|----|-------------------|-----------------------|--------|--|
| DRILLING & CASING | WATER | CORE LOSS (CORE LOSS DRILL 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 | Di | Di ₂₀₀ | | | |
| HQ3 | | 0% LOSS | 100 | | 16.0 |  | DOLERITE: fine to coarse grained, dark grey-blue, crystalline, phaneritic texture. (continued) | FR | VL | LM | HM | EH | 20 | | |
| | | 16.56 | | | 16.56 | | Hole Terminated at 16.56 m Target depth Grouted to Surface | | | | | | | | |
| | | | | | 17.0 | | | | | | | | | | |
| | | | | | 18.0 | | | | | | | | | | |
| | | | | | 19.0 | | | | | | | | | | |
| | | | | | 20.0 | | | | | | | | | | |
| | | | | | 21.0 | | | | | | | | | | |
| | | | | | 22.0 | | | | | | | | | | |
| | | | | | 23.0 | | | | | | | | | | |
| | | | | | 24.0 | | | | | | | | | | |

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PointID : BH-008 Depth Range: 0.00 - 1.50 m

| | | | |
|--|--|------------------------|------------------|
|  | TITLE | DRAWN | DATE |
| | MPDC Macquarie Point Macquarie Point GI Core Photo - BH-008 | CHECKED | DATE |
| | | SCALE | A4 |
| | | PROJECT No PS212776 | FIGURE No 1/8 |




PointID : BH-008 Depth Range: 1.50 - 4.00 m

| | | | |
|--|---|------------|-----------|
|  | TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-008 | DRAWN | DATE |
| | | CHECKED | DATE |
| | | SCALE | A4 |
| | | PROJECT No | FIGURE No |
| | | PS212776 | 2/8 |




PointID : BH-008 Depth Range: 4.00 - 5.00 m

| | | | |
|--|--|------------|-----------|
|  | TITLE | DRAWN | DATE |
| | MPDC Macquarie Point Macquarie Point GI Core Photo - BH-008 | CHECKED | DATE |
| | | SCALE | FIGURE No |
| | | PROJECT No | |
| | | PS212776 | 3/8 |




PointID : BH-008 Depth Range: 5.00 - 7.00 m

| | | | | |
|--|---|------------|--------------|-----------|
|  | TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-008 | DRAWN | DATE | 18/6/2024 |
| | | CHECKED | DATE | 18/6/2024 |
| | | SCALE | Not To Scale | A4 |
| | | PROJECT No | PS212776 | FIGURE No |




PointID : BH-008 Depth Range: 7.00 - 7.40 m

| | | | | | |
|--|---|------------|--------------|-----------|-----------|
|  | TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-008 | DRAWN | DATE | 18/6/2024 | |
| | | CHECKED | DATE | 18/6/2024 | |
| | | SCALE | Not To Scale | | A4 |
| | | PROJECT No | PS212776 | | FIGURE No |




PointID : BH-008 Depth Range: 7.40 - 11.00 m

| | | | | | |
|--|---|------------|--------------|-----------|-----------|
|  | TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-008 | DRAWN | DATE | 18/6/2024 | |
| | | CHECKED | DATE | 18/6/2024 | |
| | | SCALE | Not To Scale | | A4 |
| | | PROJECT No | PS212776 | | FIGURE No |




PointID : BH-008 Depth Range: 11.00 - 15.00 m

| | | | | | |
|--|---|------------|--------------|-----------|-----------|
|  | TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-008 | DRAWN | DATE | 18/6/2024 | |
| | | CHECKED | DATE | 18/6/2024 | |
| | | SCALE | Not To Scale | | A4 |
| | | PROJECT No | PS212776 | | FIGURE No |



PointID : BH-008 Depth Range: 15.00 - 16.56 m

| | | | | |
|--|---|------------------------|--------------|-----------|
|  | TITLE MPDC Macquarie Point Macquarie Point GI Core Photo - BH-008 | DRAWN | DATE | 18/6/2024 |
| | | CHECKED | DATE | 18/6/2024 |
| | | SCALE | Not To Scale | A4 |
| | | PROJECT No PS212776 | FIGURE No | 8/8 |