



## CABLE PERCUSSION BOREHOLE LOG

|                                             |                              |                  |                  |                                |  |
|---------------------------------------------|------------------------------|------------------|------------------|--------------------------------|--|
| Project<br>George Leigh Street, Manchester. |                              |                  |                  | BOREHOLE No<br><br><b>BH01</b> |  |
| Project ID<br>GSI 0517                      | Date<br>28-01-16<br>28-01-16 | Ground Level (m) | Co-Ordinates ( ) |                                |  |
| Contractor                                  |                              |                  |                  | Sheet<br>1 of 2                |  |

| SAMPLES & TESTS   |          |             | STRATA |               |        |                   |                                                                                                                                                                                                                                                                                                                | Geology | Instrument & Backfill |
|-------------------|----------|-------------|--------|---------------|--------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------|
| Depth             | Type No  | Test Result | Water  | Reduced Level | Legend | Depth (Thickness) | DESCRIPTION                                                                                                                                                                                                                                                                                                    |         |                       |
| 0.30<br>0.50      | ES<br>ES |             |        |               |        |                   | MADE GROUND: Light greyish blue stone over, Brown mottled red to greyish brown clayey very sandy GRAVEL with abundant cobbles. Gravel is very angular to subangular fine to coarse of brick concrete and mixed lithology. Cobbles are very angular to subangular of brick and concrete.                        | MG      |                       |
| 1.00<br>1.20-1.65 | ES<br>SB | N3          |        |               |        | (2.60)            |                                                                                                                                                                                                                                                                                                                |         |                       |
| 1.90<br>2.00-2.45 | ES<br>SB | N6          |        |               |        | 2.60              |                                                                                                                                                                                                                                                                                                                |         |                       |
| 2.60-2.80<br>2.70 | B<br>ES  |             |        |               |        |                   | Firm to stiff slightly sandy gravelly CLAY. Gravel is subangular to subrounded fine to medium of mixed lithology. (TILL)<br>3.00 Becomes stiff below 3.00 mbgl.<br><br>4.00 Becomes firm below 4.00 mbgl.<br><br>5.00 Becomes firm to stiff below 5.00 mbgl.<br><br>6.50 Becomes soft to firm below 6.50 mbgl. | TILL    |                       |
| 3.00-3.45         | SB       | N11         |        |               |        |                   |                                                                                                                                                                                                                                                                                                                |         |                       |
| 4.00-4.45         | SB       | N6          |        |               |        |                   |                                                                                                                                                                                                                                                                                                                |         |                       |
| 5.00-5.45         | SB       | N10         |        |               |        | (5.40)            |                                                                                                                                                                                                                                                                                                                |         |                       |
| 6.50-6.95         | SB       | N9          |        |               |        |                   | MADE GROUND: Dark blackish grey very silty GRAVEL. Gravel is angular to subangular fine to coarse of brick. (Possible unmarked tunnel?)                                                                                                                                                                        | MG      |                       |
| 8.00-8.45         | SB       | N4          |        |               |        | 8.00              |                                                                                                                                                                                                                                                                                                                |         |                       |
| 9.50-9.95         | U100     | 15 blows    |        |               |        | (3.20)            |                                                                                                                                                                                                                                                                                                                |         |                       |

| Boring Progress and Water Observations   |      |       |              |                |             | Chiselling |    |                                  | Water Added |                        | GENERAL REMARKS |
|------------------------------------------|------|-------|--------------|----------------|-------------|------------|----|----------------------------------|-------------|------------------------|-----------------|
| Date                                     | Time | Depth | Casing Depth | Casing Dia. mm | Water Depth | From       | To | Hours                            | From        | To                     |                 |
|                                          |      |       |              |                |             |            |    |                                  |             |                        |                 |
| All dimensions in metres<br>Scale 1:62.5 |      |       |              |                |             | Client     |    | Method / Plant Used<br>Dando 150 |             | Logged By<br>Sam Gough |                 |

Exploratory hole cleared of buried services. Hand pit excavated to 1.20 mbgl. Groundwater encountered at 8.00 mbgl in possible unmarked tunnel structure.



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| Project ID<br>GSI 0517                      | Date<br>28-01-16<br>28-01-16 | Ground Level (m) | Co-Ordinates ( ) |                                |  |
| Contractor                                  |                              |                  |                  | Sheet<br>2 of 2                |  |

| SAMPLES & TESTS |         |             | STRATA |               |        |                   |                                                                                                                                                     | Geology | Instrument & Backfill |
|-----------------|---------|-------------|--------|---------------|--------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------|
| Depth           | Type No | Test Result | Water  | Reduced Level | Legend | Depth (Thickness) | DESCRIPTION                                                                                                                                         |         |                       |
| 10.00           | B       |             |        |               |        |                   | MADE GROUND: Dark blackish grey very silty GRAVEL. Gravel is angular to subangular fine to coarse of brick. (Possible unmarked tunnel?) (continued) | MG      |                       |
| 11.00-11.45     | SB      | N29         |        |               |        | 11.20             | Stiff slightly sandy gravelly CLAY. Gravel is subangular to subrounded fine to medium of mixed lithology. (TILL)                                    |         |                       |
| 12.50-12.95     | U100    | 120 blows   |        |               |        |                   | 12.00 becomes very stiff below 12.00 mbgl.                                                                                                          |         |                       |
| 12.95-13.10     | D       |             |        |               |        | (4.40)            |                                                                                                                                                     | TILL    |                       |
| 14.00-14.45     | SB      | N33         |        |               |        |                   |                                                                                                                                                     |         |                       |
| 15.00-15.45     | U100    | 120 blows   |        |               |        |                   |                                                                                                                                                     |         |                       |
| 15.45-15.60     | D       |             |        |               |        | 15.60             |                                                                                                                                                     |         |                       |

| Boring Progress and Water Observations   |      |       |              |                |             | Chiselling |    |       | Water Added                      |    | GENERAL REMARKS        |
|------------------------------------------|------|-------|--------------|----------------|-------------|------------|----|-------|----------------------------------|----|------------------------|
| Date                                     | Time | Depth | Casing Depth | Casing Dia. mm | Water Depth | From       | To | Hours | From                             | To |                        |
|                                          |      |       | 10.70        | 150.00         |             |            |    |       |                                  |    |                        |
| All dimensions in metres<br>Scale 1:62.5 |      |       |              |                |             | Client     |    |       | Method / Plant Used<br>Dando 150 |    | Logged By<br>Sam Gough |

## CABLE PERCUSSION BOREHOLE LOG

|                                             |                              |                  |                  |                                |  |
|---------------------------------------------|------------------------------|------------------|------------------|--------------------------------|--|
| Project<br>George Leigh Street, Manchester. |                              |                  |                  | BOREHOLE No<br><br><b>BH02</b> |  |
| Project ID<br>GSI 0517                      | Date<br>29-01-16<br>29-01-16 | Ground Level (m) | Co-Ordinates ( ) |                                |  |
| Contractor                                  |                              |                  |                  | Sheet<br>1 of 2                |  |

| SAMPLES & TESTS           |                |             | STRATA |               |        |                        |                                                                                                                                                                                                                                                                                                                            | Geology | Instrument & Backfill |
|---------------------------|----------------|-------------|--------|---------------|--------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------|
| Depth                     | Type No        | Test Result | Water  | Reduced Level | Legend | Depth (Thickness)      | DESCRIPTION                                                                                                                                                                                                                                                                                                                |         |                       |
| 0.30<br>0.50<br>0.50      | ES<br>B<br>ES  |             |        |               |        |                        | MADE GROUND: Light greyish blue stone over, Dark brown mottled red to greyish brown slightly clayey very sandy GRAVEL with abundant cobbles. Gravel is very angular to subangular fine to coarse of brick concrete clinker and charcoal and mixed lithology. Cobbles are very angular to subangular of brick and concrete. | MG      |                       |
| 1.00<br>1.20-1.65         | ES<br>SB       | N10         |        |               |        | (3.20)                 |                                                                                                                                                                                                                                                                                                                            |         |                       |
| 2.00<br>2.00-2.45         | ES<br>SB       | N6          |        |               |        |                        |                                                                                                                                                                                                                                                                                                                            | TILL    |                       |
| 3.00<br>3.00-3.45<br>3.40 | ES<br>SB<br>ES | N14         |        |               |        | 3.20<br>(0.80)<br>4.00 | Firm to stiff slightly gravelly CLAY. Gravel is angular to subrounded fine to medium of mixed lithology. (TILL)                                                                                                                                                                                                            |         |                       |
| 4.00-4.45                 | SB             | N10         |        |               |        | (1.00)                 | Firm slightly gravelly SILT. Gravel is angular to subrounded fine to medium of mixed lithology. (TILL)                                                                                                                                                                                                                     | TILL    |                       |
| 5.00-5.45                 | SB             | N9          |        |               |        | (1.00)<br>6.00         | Firm to stiff slightly gravelly CLAY. Gravel is angular to subrounded fine to medium of mixed lithology. (TILL)                                                                                                                                                                                                            | TILL    |                       |
| 6.50-6.95<br>6.95-7.10    | U100<br>D      | 80 blows    |        |               |        | (2.00)<br>8.00         | Firm to stiff slightly gravelly SILT. Gravel is angular to subrounded fine to medium of mixed lithology. (TILL)                                                                                                                                                                                                            | TILL    |                       |
| 8.00-8.45                 | SB             | N18         |        |               |        |                        | Firm to stiff slightly gravelly CLAY. Gravel is angular to subrounded fine to medium of mixed lithology. (TILL)                                                                                                                                                                                                            | TILL    |                       |
| 9.50-9.95                 | U100           | 80 blows    |        |               |        |                        |                                                                                                                                                                                                                                                                                                                            | TILL    |                       |

| Boring Progress and Water Observations   |      |       |              |                |             | Chiselling |      |                                  | Water Added |    | GENERAL REMARKS        |
|------------------------------------------|------|-------|--------------|----------------|-------------|------------|------|----------------------------------|-------------|----|------------------------|
| Date                                     | Time | Depth | Casing Depth | Casing Dia. mm | Water Depth | From       | To   | Hours                            | From        | To |                        |
|                                          |      |       | 9.00         | 150.00         |             | 2.60       | 2.80 | 00.45                            |             |    |                        |
| All dimensions in metres<br>Scale 1:62.5 |      |       |              |                |             | Client     |      | Method / Plant Used<br>Dando 150 |             |    | Logged By<br>Sam Gough |

Exploratory hole cleared of buried services. Hand pit excavated to 1.20 mbgl. No groundwater encountered.

# CABLE PERCUSSION BOREHOLE LOG

|                                             |                              |                  |                  |                                |
|---------------------------------------------|------------------------------|------------------|------------------|--------------------------------|
| Project<br>George Leigh Street, Manchester. |                              |                  |                  | BOREHOLE No<br><br><b>BH02</b> |
| Project ID<br>GSI 0517                      | Date<br>29-01-16<br>29-01-16 | Ground Level (m) | Co-Ordinates ( ) |                                |
| Contractor                                  |                              |                  |                  | Sheet<br>2 of 2                |

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| Boring Progress and Water Observations |      |       |       |                   |                | Chiselling |    |       | Water Added |    | GENERAL REMARKS                                                                                           |
|----------------------------------------|------|-------|-------|-------------------|----------------|------------|----|-------|-------------|----|-----------------------------------------------------------------------------------------------------------|
| Date                                   | Time | Depth | Depth | Casing<br>Dia. mm | Water<br>Depth | From       | To | Hours | From        | To |                                                                                                           |
|                                        |      |       |       |                   |                |            |    |       |             |    | Exploratory hole cleared of buried services. Hand pit excavated to 1.20 mbgl. No groundwater encountered. |

|                                          |        |                                  |                        |
|------------------------------------------|--------|----------------------------------|------------------------|
| All dimensions in metres<br>Scale 1:62.5 | Client | Method / Plant Used<br>Dando 150 | Logged By<br>Sam Gough |
|------------------------------------------|--------|----------------------------------|------------------------|