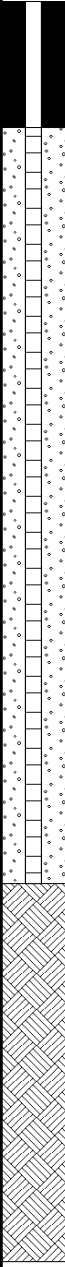
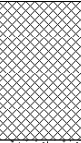
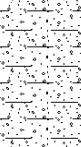
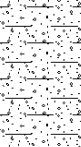
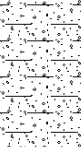


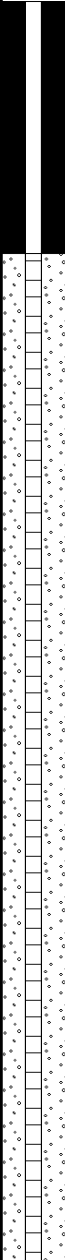
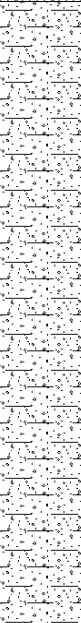
|                                                                                                                                                                                                                                                                    |  |                                |  |                                |                                            |                 |
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|  <b>EARTH ENVIRONMENTAL &amp; GEOTECHNICAL</b><br>Earth Environmental & Geotechnical Ltd<br>Houldsworth Mill Business & Arts Centre<br>Houldsworth Street<br>Stockport<br>SK5 6DA |  | <h1>Borehole Log</h1>          |  |                                | Borehole No.<br><b>WS1</b><br>Sheet 1 of 1 |                 |
| Project Name: Dobfield Road                                                                                                                                                                                                                                        |  | Project No. A5182              |  | Co-ords: 391779.00 - 413899.00 |                                            | Hole Type<br>WS |
| Location: Rochdale                                                                                                                                                                                                                                                 |  | Level: 0.00                    |  | Scale<br>1:30                  |                                            |                 |
| Client: J Bullock                                                                                                                                                                                                                                                  |  | Dates: 27/01/2023 - 27/01/2023 |  | Logged By<br>BG                |                                            |                 |

| Well                                                                               | Water Strikes | Samples and In Situ Testing |      |                     | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                                                                                                       |   |
|------------------------------------------------------------------------------------|---------------|-----------------------------|------|---------------------|-----------|-----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |               | Depth (m)                   | Type | Results             |           |           |                                                                                     |                                                                                                                                                                           |   |
|  |               |                             |      |                     | 0.55      | -0.55     |    | Grass over dark brown sandy gravelly TOPSOIL. Sand is fine to coarse. Gravel is fine to coarse subangular of sandstone.                                                   |   |
|                                                                                    |               | 0.70                        | ES   |                     |           |           |    | Medium dense brown clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded of sandstone and mudstone. Contains sandstone cobbles. | 1 |
|                                                                                    |               | 1.20                        |      | N=28 (10,8/7,7,8,6) |           |           |    |                                                                                                                                                                           |   |
|                                                                                    |               | 2.00                        |      | N=12 (3,4/4,3,2,3)  |           |           |   |                                                                                                                                                                           | 2 |
|                                                                                    | ▼             | 3.00                        |      | N=26 (7,5/4,7,7,8)  | 3.00      | -3.00     |  | Firm to stiff brown CLAY.                                                                                                                                                 | 3 |
|                                                                                    |               | 3.25                        | D    |                     |           |           |  |                                                                                                                                                                           |   |
|                                                                                    |               | 4.00                        |      | N=13 (2,2/3,3,3,4)  |           |           |  |                                                                                                                                                                           | 4 |
|                                                                                    |               | 5.00                        |      | N=18 (2,3/3,4,5,6)  | 5.00      | -5.00     |  | End of borehole at 5.00 m                                                                                                                                                 | 5 |
|                                                                                    |               |                             |      |                     |           |           |                                                                                     |                                                                                                                                                                           | 6 |

Remarks  
 1) Location scanned with CAT.  
 2) Hand dug pit to 1.20m.  
 3) Monitoring well installed, 0.50m plain, 3.00m slotted.


**EARTH ENVIRONMENTAL & GEOTECHNICAL**

|                                                                                                                                                                                                                                                                    |  |  |  |                                |  |                                |  |                                            |  |
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|  <b>EARTH ENVIRONMENTAL &amp; GEOTECHNICAL</b><br>Earth Environmental & Geotechnical Ltd<br>Houldsworth Mill Business & Arts Centre<br>Houldsworth Street<br>Stockport<br>SK5 6DA |  |  |  | <h1>Borehole Log</h1>          |  |                                |  | Borehole No.<br><b>WS2</b><br>Sheet 1 of 1 |  |
| Project Name: Dobfield Road                                                                                                                                                                                                                                        |  |  |  | Project No. A5182              |  | Co-ords: 391793.00 - 413889.00 |  | Hole Type<br>WS                            |  |
| Location: Rochdale                                                                                                                                                                                                                                                 |  |  |  | Level: 0.00                    |  | Scale<br>1:30                  |  |                                            |  |
| Client: J Bullock                                                                                                                                                                                                                                                  |  |  |  | Dates: 27/01/2023 - 27/01/2023 |  | Logged By<br>BG                |  |                                            |  |

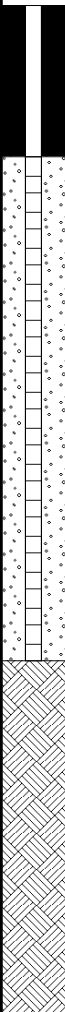
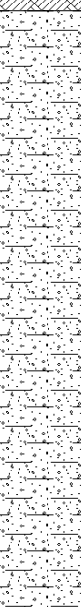
| Well                                                                               | Water Strikes | Samples and In Situ Testing |                    |                     | Depth (m) | Level (m)                                                                           | Legend                                                                              | Stratum Description                                                                                                                                                                |   |
|------------------------------------------------------------------------------------|---------------|-----------------------------|--------------------|---------------------|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |               | Depth (m)                   | Type               | Results             |           |                                                                                     |                                                                                     |                                                                                                                                                                                    |   |
|  |               |                             |                    |                     | 0.50      | -0.50                                                                               |    | Grass over dark brown sandy gravelly TOPSOIL. Sand is fine to coarse. Gravel is fine to coarse subangular of sandstone.                                                            |   |
|                                                                                    |               | 1.20                        |                    | N=28 (2,3/4,6,6,12) |           |                                                                                     |   | Loose to medium dense brown clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded of sandstone and mudstone. Contains sandstone cobbles. | 1 |
|                                                                                    |               | 2.00                        |                    | N=9 (4,3/3,2,2,2)   |           |                                                                                     |                                                                                     |                                                                                                                                                                                    | 2 |
|                                                                                    |               | 3.00                        |                    | N=13 (2,2/2,3,4,4)  | 3.00      | -3.00                                                                               |                                                                                     |                                                                                                                                                                                    | 3 |
|                                                                                    |               | 3.50                        | D                  |                     |           |                                                                                     |  | Firm to stiff brown CLAY.                                                                                                                                                          |   |
|                                                                                    |               | 4.00                        |                    | N=10 (3,3/3,3,2,2)  |           |                                                                                     |  | HP at 3.50m = 120kN/m2.<br><br>HP at 4.50m = 120kN/m2.                                                                                                                             | 4 |
|                                                                                    | 5.00          |                             | N=19 (3,4/4,4,5,6) | 5.00                | -5.00     |  | End of borehole at 5.00 m                                                           | 5                                                                                                                                                                                  |   |
|                                                                                    |               |                             |                    |                     |           |                                                                                     |                                                                                     |                                                                                                                                                                                    | 6 |

Remarks
 

- 1) Location scanned with CAT.
- 2) Hand dug pit to 1.20m.
- 3) Monitoring well installed, 1.00m plain, 4.00m slotted.


**EARTH ENVIRONMENTAL & GEOTECHNICAL**

|                                                                                                                                                                                                                                                                    |  |                                |  |                                |                                            |                 |
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|  <b>EARTH ENVIRONMENTAL &amp; GEOTECHNICAL</b><br>Earth Environmental & Geotechnical Ltd<br>Houldsworth Mill Business & Arts Centre<br>Houldsworth Street<br>Stockport<br>SK5 6DA |  | <h1>Borehole Log</h1>          |  |                                | Borehole No.<br><b>WS3</b><br>Sheet 1 of 1 |                 |
| Project Name: Dobfield Road                                                                                                                                                                                                                                        |  | Project No. A5182              |  | Co-ords: 391803.00 - 413871.00 |                                            | Hole Type<br>WS |
| Location: Rochdale                                                                                                                                                                                                                                                 |  | Level: 0.00                    |  | Scale<br>1:30                  |                                            |                 |
| Client: J Bullock                                                                                                                                                                                                                                                  |  | Dates: 27/01/2023 - 27/01/2023 |  | Logged By<br>BG                |                                            |                 |

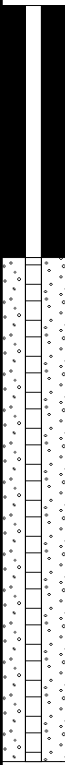
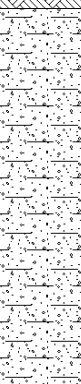
| Well                                                                               | Water Strikes | Samples and In Situ Testing |                           |                     | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                                                                                                       |   |
|------------------------------------------------------------------------------------|---------------|-----------------------------|---------------------------|---------------------|-----------|-----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |               | Depth (m)                   | Type                      | Results             |           |           |                                                                                     |                                                                                                                                                                           |   |
|  |               |                             |                           |                     | 0.60      | -0.60     |    | Grass over dark brown sandy gravelly TOPSOIL. Sand is fine to coarse. Gravel is fine to coarse subangular of sandstone.                                                   |   |
|                                                                                    |               | 1.20                        |                           | N=10 (1,2/2,2,3,3)  |           |           |   | Medium dense brown clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded of sandstone and mudstone. Contains sandstone cobbles. | 1 |
|                                                                                    |               | 2.00                        |                           | N=14 (2,3/3,4,3,4)  |           |           |  |                                                                                                                                                                           | 2 |
|                                                                                    | ▼             | 3.00                        |                           | N=28 (3,3/3,6,8,11) | 3.00      | -3.00     |  | Stiff brown CLAY.                                                                                                                                                         | 3 |
|                                                                                    |               | 3.25                        | D                         |                     |           |           |  | HP at 3.50m = 120kN/m2.<br><br>Hole abandoned due to collapse of sands and gravels.<br>End of borehole at 4.00 m                                                          | 4 |
|                                                                                    | 4.00          |                             | N=50 (10,11/50 for 235mm) | 4.00                | -4.00     |           |                                                                                     |                                                                                                                                                                           | 5 |
|                                                                                    |               |                             |                           |                     |           |           |                                                                                     |                                                                                                                                                                           | 6 |

Remarks  
 1) Location scanned with CAT.  
 2) Hand dug pit to 1.20m.  
 3) Monitoring well installed, 0.60m plain, 2.00m slotted.


**EARTH ENVIRONMENTAL & GEOTECHNICAL**

|                                                                                                                                                                                                                                                                    |  |                                                   |  |                                |                                                                       |                 |
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|  <b>EARTH ENVIRONMENTAL &amp; GEOTECHNICAL</b><br>Earth Environmental & Geotechnical Ltd<br>Houldsworth Mill Business & Arts Centre<br>Houldsworth Street<br>Stockport<br>SK5 6DA |  | <h1 style="text-align: center;">Borehole Log</h1> |  |                                | Borehole No.<br><h2 style="text-align: center;">WS4</h2> Sheet 1 of 1 |                 |
| Project Name: Dobfield Road                                                                                                                                                                                                                                        |  | Project No. A5182                                 |  | Co-ords: 391778.00 - 413858.00 |                                                                       | Hole Type<br>WS |
| Location: Rochdale                                                                                                                                                                                                                                                 |  | Level: 0.00                                       |  | Scale<br>1:30                  |                                                                       |                 |
| Client: J Bullock                                                                                                                                                                                                                                                  |  | Dates: 27/01/2023 - 27/01/2023                    |  | Logged By<br>BG                |                                                                       |                 |

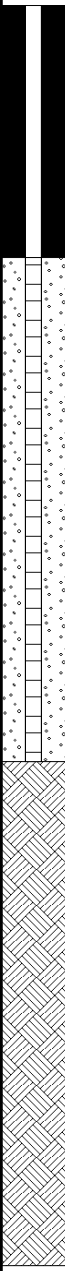
| Well                                                                               | Water Strikes | Samples and In Situ Testing |      |                    | Depth (m)    | Level (m)      | Legend                                                                                                                                                                                                                                                               | Stratum Description |  |
|------------------------------------------------------------------------------------|---------------|-----------------------------|------|--------------------|--------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|
|                                                                                    |               | Depth (m)                   | Type | Results            |              |                |                                                                                                                                                                                                                                                                      |                     |  |
|  |               |                             |      |                    |              |                |  Grass over dark brown sandy gravelly TOPSOIL. Sand is fine to coarse. Gravel is fine to coarse subangular of sandstone.                                                            |                     |  |
|                                                                                    |               | 0.60                        | ES   |                    | 0.50         | -0.50          |  Medium dense brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded of sandstone and mudstone. Contains sandstone cobbles. | 1                   |  |
|                                                                                    |               | 1.20                        |      | N=17 (2,2/3,4,5,5) |              |                |                                                                                                                                                                                                                                                                      |                     |  |
|                                                                                    |               | 2.00                        |      | N=15 (3,3/4,4,4,3) | 2.00         | -2.00          |  Medium dense orangish brown SAND. Sand is fine to coarse.                                                                                                                         | 2                   |  |
|                                                                                    |               | 2.90<br>3.00                | D    | N=17 (2,3/3,4,4,6) | 2.80<br>3.00 | -2.80<br>-3.00 |  Firm to stiff brown CLAY.<br>HP at 2.85m = 108kN/m2.<br>Hole abandoned due to cobbles trapped in casing.<br>End of borehole at 3.00 m                                            | 3                   |  |
|                                                                                    |               |                             |      |                    |              |                |                                                                                                                                                                                                                                                                      | 4                   |  |
|                                                                                    |               |                             |      |                    |              |                |                                                                                                                                                                                                                                                                      | 5                   |  |
|                                                                                    |               |                             |      |                    |              |                |                                                                                                                                                                                                                                                                      | 6                   |  |

|                                                                                                                                    |  |                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------|
| Remarks<br>1) Location scanned with CAT.<br>2) Hand dug pit to 1.20m.<br>3) Monitoring well installed, 1.00m plain, 2.00m slotted. |  |  <b>EARTH ENVIRONMENTAL &amp; GEOTECHNICAL</b> |
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|                                                                                                                                                                                                                                                                    |  |                                |  |                                            |  |
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|  <b>EARTH ENVIRONMENTAL &amp; GEOTECHNICAL</b><br>Earth Environmental & Geotechnical Ltd<br>Houldsworth Mill Business & Arts Centre<br>Houldsworth Street<br>Stockport<br>SK5 6DA |  | <h1>Borehole Log</h1>          |  | Borehole No.<br><b>WS5</b><br>Sheet 1 of 1 |  |
| Project Name: Dobfield Road                                                                                                                                                                                                                                        |  | Project No. A5182              |  | Co-ords: 391763.00 - 413837.00             |  |
| Location: Rochdale                                                                                                                                                                                                                                                 |  | Level: 0.00                    |  | Hole Type WS                               |  |
| Client: J Bullock                                                                                                                                                                                                                                                  |  | Dates: 26/01/2023 - 26/01/2023 |  | Scale 1:30                                 |  |
| Client: J Bullock                                                                                                                                                                                                                                                  |  | Dates: 26/01/2023 - 26/01/2023 |  | Logged By BG                               |  |

| Well                                                                               | Water Strikes | Samples and In Situ Testing |      |                    | Depth (m) | Level (m) | Legend                                                                                                                  | Stratum Description                                                                                                                                                                         |   |   |
|------------------------------------------------------------------------------------|---------------|-----------------------------|------|--------------------|-----------|-----------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|
|                                                                                    |               | Depth (m)                   | Type | Results            |           |           |                                                                                                                         |                                                                                                                                                                                             |   |   |
|  |               |                             |      |                    |           |           | Grass over dark brown sandy gravelly TOPSOIL. Sand is fine to coarse. Gravel is fine to coarse subangular of sandstone. |                                                                                                                                                                                             |   |   |
|                                                                                    |               |                             |      |                    | 0.40      | -0.40     |                                                                                                                         | Loose to medium dense brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded of sandstone and mudstone. Contains sandstone cobbles. |   |   |
|                                                                                    |               |                             |      |                    | 1.00      | -1.00     |                                                                                                                         | Dense orangish brown SAND. Sand is fine to coarse.                                                                                                                                          | 1 |   |
|                                                                                    |               | 1.20                        |      | N=31 (5,8/8,8,7,8) | 1.50      | -1.50     |                                                                                                                         | Medium dense brown slightly gravelly SAND. Sand is fine to coarse. Gravel is fine subangular of sandstone.                                                                                  | 2 |   |
|                                                                                    |               | 2.00                        |      | N=17 (5,3/4,5,4,4) |           |           |                                                                                                                         |                                                                                                                                                                                             |   |   |
|                                                                                    |               | 3.00                        |      | N=14 (2,2/2,3,4,5) |           |           |                                                                                                                         |                                                                                                                                                                                             | 3 |   |
|                                                                                    |               |                             |      |                    |           |           |                                                                                                                         |                                                                                                                                                                                             |   |   |
|                                                                                    |               |                             |      |                    | 4.00      |           | N=19 (3,4/4,4,5,6)                                                                                                      |                                                                                                                                                                                             |   | 4 |
|                                                                                    |               |                             |      |                    | 4.50      | -4.50     |                                                                                                                         | Stiff brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium subrounded of sandstone.                                                                |   |   |
|                                                                                    |               |                             |      |                    | 4.90      |           | D                                                                                                                       | HP at 4.75m = 120kN/m2.                                                                                                                                                                     |   |   |
|                                                                                    |               |                             |      |                    | 5.00      | -5.00     |                                                                                                                         | No SPT due to collapse of sand.                                                                                                                                                             | 5 |   |
|                                                                                    |               |                             |      |                    |           |           |                                                                                                                         | End of borehole at 5.00 m                                                                                                                                                                   |   |   |
|                                                                                    |               |                             |      |                    |           |           |                                                                                                                         |                                                                                                                                                                                             | 6 |   |

|                                                                                                                                    |  |                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------|
| Remarks<br>1) Location scanned with CAT.<br>2) Hand dug pit to 1.20m.<br>3) Monitoring well installed, 1.00m plain, 2.00m slotted. |  |  <b>EARTH ENVIRONMENTAL &amp; GEOTECHNICAL</b> |
|------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------|



# Borehole Log

**WS6**

Sheet 1 of 1

|             |
|-------------|
| Project No. |
| A5182       |

| Hole Type | WS  |
|-----------|-----|
| 1         | 1   |
| 2         | 2   |
| 3         | 3   |
| 4         | 4   |
| 5         | 5   |
| 6         | 6   |
| 7         | 7   |
| 8         | 8   |
| 9         | 9   |
| 10        | 10  |
| 11        | 11  |
| 12        | 12  |
| 13        | 13  |
| 14        | 14  |
| 15        | 15  |
| 16        | 16  |
| 17        | 17  |
| 18        | 18  |
| 19        | 19  |
| 20        | 20  |
| 21        | 21  |
| 22        | 22  |
| 23        | 23  |
| 24        | 24  |
| 25        | 25  |
| 26        | 26  |
| 27        | 27  |
| 28        | 28  |
| 29        | 29  |
| 30        | 30  |
| 31        | 31  |
| 32        | 32  |
| 33        | 33  |
| 34        | 34  |
| 35        | 35  |
| 36        | 36  |
| 37        | 37  |
| 38        | 38  |
| 39        | 39  |
| 40        | 40  |
| 41        | 41  |
| 42        | 42  |
| 43        | 43  |
| 44        | 44  |
| 45        | 45  |
| 46        | 46  |
| 47        | 47  |
| 48        | 48  |
| 49        | 49  |
| 50        | 50  |
| 51        | 51  |
| 52        | 52  |
| 53        | 53  |
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| 55        | 55  |
| 56        | 56  |
| 57        | 57  |
| 58        | 58  |
| 59        | 59  |
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| 61        | 61  |
| 62        | 62  |
| 63        | 63  |
| 64        | 64  |
| 65        | 65  |
| 66        | 66  |
| 67        | 67  |
| 68        | 68  |
| 69        | 69  |
| 70        | 70  |
| 71        | 71  |
| 72        | 72  |
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| 74        | 74  |
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| 77        | 77  |
| 78        | 78  |
| 79        | 79  |
| 80        | 80  |
| 81        | 81  |
| 82        | 82  |
| 83        | 83  |
| 84        | 84  |
| 85        | 85  |
| 86        | 86  |
| 87        | 87  |
| 88        | 88  |
| 89        | 89  |
| 90        | 90  |
| 91        | 91  |
| 92        | 92  |
| 93        | 93  |
| 94        | 94  |
| 95        | 95  |
| 96        | 96  |
| 97        | 97  |
| 98        | 98  |
| 99        | 99  |
| 100       | 100 |

Scale  
1:30

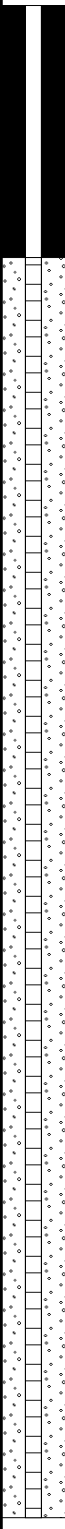
Logged By  
BG

| Well | Water Strikes                                                                       | Samples and In Situ Testing |      |                          | Depth (m) | Level (m)                                                                           | Legend                                                                            | Stratum Description                                                                                                       |                                                                                                     |
|------|-------------------------------------------------------------------------------------|-----------------------------|------|--------------------------|-----------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|      |                                                                                     | Depth (m)                   | Type | Results                  |           |                                                                                     |                                                                                   |                                                                                                                           |                                                                                                     |
| 1    |  |                             |      |                          | 0.05      | -0.05                                                                               |  | MADE GROUND: Rubber chippings.                                                                                            |                                                                                                     |
|      |                                                                                     |                             |      |                          | 0.15      | -0.15                                                                               |  | MADE GROUND: Light brown SAND. Sand is fine to coarse.                                                                    |                                                                                                     |
|      |                                                                                     |                             |      |                          | 0.25      | -0.25                                                                               |  | MADE GROUND: Black GRAVEL SUBBASE. Gravel is fine to coarse angular of igneous material.                                  |                                                                                                     |
|      |                                                                                     |                             |      |                          | 0.45      | -0.45                                                                               |  | Geotextile membrane.                                                                                                      |                                                                                                     |
|      |                                                                                     |                             |      |                          | 1.00      | -1.00                                                                               |  | MADE GROUND: Dark brown sandy gravelly TOPSOIL. Sand is fine to coarse. Gravel is fine to coarse subangular of sandstone. |                                                                                                     |
|      |                                                                                     | 1.20                        |      | N=46<br>(3,5/7,11,18,10) |           |                                                                                     |                                                                                   | Medium dense orangish brown SAND. Sand is fine to coarse.                                                                 |                                                                                                     |
|      |                                                                                     | 2.00                        |      | N=29 (8,11/7,6,7,9)      |           |                                                                                     |                                                                                   | Medium dense to dense brown slightly gravelly SAND. Sand is fine to coarse. Gravel is fine subangular of sandstone.       |                                                                                                     |
|      |                                                                                     | 2.90                        |      |                          |           |                                                                                     |                                                                                   |                                                                                                                           |                                                                                                     |
|      |                                                                                     | 3.00                        |      | N=27 (3,3/5,7,7,8)       |           | 3.00                                                                                | -3.00                                                                             |                                        | Stiff to very stiff brown slightly gravelly CLAY. Gravel is fine to medium subrounded of sandstone. |
|      |                                                                                     | 4.00                        |      | N=20 (5,4/4,5,5,6)       |           |                                                                                     |                                                                                   |                                                                                                                           |                                                                                                     |
| 5.00 |                                                                                     | N=39 (6,8/8,9,10,12)        |      | 5.00                     | -5.00     |  | End of borehole at 5.00 m                                                         |                                                                                                                           |                                                                                                     |

1) Location scanned with CAT.  
2) Hand dug pit to 1.20m.  
3) Monitoring well installed, 1.00m plain, 4.00m slotted.

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|  <b>EARTH ENVIRONMENTAL &amp; GEOTECHNICAL</b><br>Earth Environmental & Geotechnical Ltd<br>Houldsworth Mill Business & Arts Centre<br>Houldsworth Street<br>Stockport<br>SK5 6DA |  | <h1>Borehole Log</h1>          |  |                                | Borehole No.<br><b>WS7</b><br>Sheet 1 of 1 |                 |
| Project Name: Dobfield Road                                                                                                                                                                                                                                        |  | Project No. A5182              |  | Co-ords: 391710.00 - 413839.00 |                                            | Hole Type<br>WS |
| Location: Rochdale                                                                                                                                                                                                                                                 |  | Level: 0.00                    |  | Scale<br>1:30                  |                                            |                 |
| Client: J Bullock                                                                                                                                                                                                                                                  |  | Dates: 26/01/2023 - 26/01/2023 |  | Logged By<br>BG                |                                            |                 |

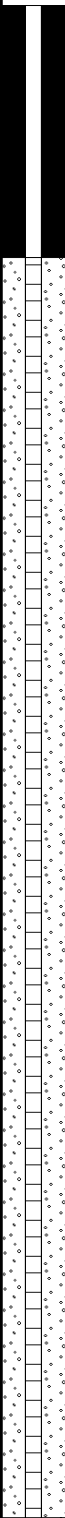
| Well                                                                               | Water Strikes | Samples and In Situ Testing |      |                     | Depth (m) | Level (m) | Legend                                                                                                                                                                             | Stratum Description |  |
|------------------------------------------------------------------------------------|---------------|-----------------------------|------|---------------------|-----------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|
|                                                                                    |               | Depth (m)                   | Type | Results             |           |           |                                                                                                                                                                                    |                     |  |
|  |               | 0.50                        | ES   |                     | 0.65      | -0.65     | MADE GROUND: Dark grey sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse subangular of concrete redbrick and sandstone.                                               | 1                   |  |
|                                                                                    |               | 1.20                        |      | N=24 (11,7/7,5,6,6) | 1.40      | -1.40     | Medium dense brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded of sandstone and mudstone. Contains sandstone cobbles. |                     |  |
|                                                                                    |               | 2.00                        |      | N=14 (3,3/4,3,3,4)  | 2.00      | -2.00     | Medium dense orangish brown SAND. Sand is fine to coarse.                                                                                                                          | 2                   |  |
|                                                                                    |               |                             |      |                     |           |           | Medium dense brown slightly gravelly SAND. Sand is fine to coarse. Gravel is fine subangular of sandstone.                                                                         |                     |  |
|                                                                                    |               | 3.00                        |      | N=15 (3,3/3,4,4,4)  | 3.00      | -3.00     | Stiff brown CLAY.                                                                                                                                                                  | 3                   |  |
|                                                                                    |               | 3.20                        | D    |                     |           |           | HP at 3.25m = 132 kN/m2.                                                                                                                                                           |                     |  |
|                                                                                    |               |                             |      |                     |           |           | HP at 3.75m = 144kN/m2.                                                                                                                                                            | 4                   |  |
|                                                                                    |               | 4.00                        |      | N=22 (4,4/5,5,6,6)  | 4.40      | -4.40     | Stiff brown slightly gravelly CLAY. Gravel is fine to medium subrounded of sandstone. HP at 4.50m = 144kN/m2.                                                                      |                     |  |
|                                                                                    |               | 5.00                        |      | N=20 (5,5/5,5,5,5)  |           |           | Friable clay from 5.00m.                                                                                                                                                           | 5                   |  |
|                                                                                    |               | 6.00                        |      | N=25 (6,6/5,6,7,7)  | 6.00      | -6.00     | End of borehole at 6.00 m                                                                                                                                                          |                     |  |

Remarks  
 1) Location scanned with CAT.  
 2) Hand dug pit to 1.20m.  
 3) Monitoring well installed, 1.00m plain, 5.00m slotted.


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|  <b>EARTH ENVIRONMENTAL &amp; GEOTECHNICAL</b><br>Earth Environmental & Geotechnical Ltd<br>Houldsworth Mill Business & Arts Centre<br>Houldsworth Street<br>Stockport<br>SK5 6DA |  |  |  |  | <h1>Borehole Log</h1>          |  |                                | Borehole No.<br><b>WS8</b><br>Sheet 1 of 1 |                 |  |
| Project Name: Dobfield Road                                                                                                                                                                                                                                        |  |  |  |  | Project No. A5182              |  | Co-ords: 391728.00 - 413853.00 |                                            | Hole Type<br>WS |  |
| Location: Rochdale                                                                                                                                                                                                                                                 |  |  |  |  | Level: 0.00                    |  | Scale<br>1:30                  |                                            | Logged By<br>BG |  |
| Client: J Bullock                                                                                                                                                                                                                                                  |  |  |  |  | Dates: 26/01/2023 - 26/01/2023 |  |                                |                                            |                 |  |

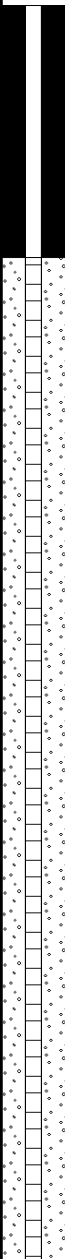
  

| Well                                                                               | Water Strikes | Samples and In Situ Testing |                    |         | Depth (m) | Level (m) | Legend                                                                                                                                                                                      | Stratum Description |  |
|------------------------------------------------------------------------------------|---------------|-----------------------------|--------------------|---------|-----------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|
|                                                                                    |               | Depth (m)                   | Type               | Results |           |           |                                                                                                                                                                                             |                     |  |
|  |               |                             |                    |         |           |           | Grass over dark brown sandy gravelly TOPSOIL. Sand is fine to coarse. Gravel is fine to coarse subangular of sandstone.                                                                     |                     |  |
|                                                                                    | 0.60          | ES                          |                    | 0.40    | -0.40     |           | Loose to medium dense brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded of sandstone and mudstone. Contains sandstone cobbles. |                     |  |
|                                                                                    | 1.20          |                             | N=21 (5,5/5,5,6,5) | 1.00    | -1.00     |           | Medium dense orangish brown SAND. Sand is fine to coarse.                                                                                                                                   | 1                   |  |
|                                                                                    | 2.00          |                             | N=13 (3,3/3,3,3,4) | 2.00    | -2.00     |           | Medium dense brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded of sandstone and mudstone. Contains sandstone cobbles.          | 2                   |  |
|                                                                                    | 3.00          |                             | N=28 (4,5/7,7,7,7) | 2.90    | -2.90     |           | Stiff brown slightly gravelly CLAY. Gravel is fine to medium subrounded of sandstone.<br><u>HP at 3.00m = 108kN/m2.</u>                                                                     | 3                   |  |
|                                                                                    | 4.00          |                             | N=24 (3,4/4,6,7,7) |         |           |           | <u>HP at 3.50m = 120kN/m2.</u>                                                                                                                                                              |                     |  |
|                                                                                    | 4.50          | D                           |                    |         |           |           | <u>HP at 4.00m = 132kN/m2.</u>                                                                                                                                                              | 4                   |  |
|                                                                                    | 5.00          |                             | N=18 (2,3/4,4,5,5) | 5.00    | -5.00     |           | No recovery.                                                                                                                                                                                | 5                   |  |
|                                                                                    | 6.00          |                             | N=21 (3,4/4,5,6,6) | 6.00    | -6.00     |           | End of borehole at 6.00 m                                                                                                                                                                   | 6                   |  |

|                                                                                                                                    |  |                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------|
| Remarks<br>1) Location scanned with CAT.<br>2) Hand dug pit to 1.20m.<br>3) Monitoring well installed, 1.00m plain, 5.00m slotted. |  |  <b>EARTH ENVIRONMENTAL &amp; GEOTECHNICAL</b> |
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|  <b>EARTH ENVIRONMENTAL &amp; GEOTECHNICAL</b><br>Earth Environmental & Geotechnical Ltd<br>Houldsworth Mill Business & Arts Centre<br>Houldsworth Street<br>Stockport<br>SK5 6DA |  | <h1>Borehole Log</h1>          |  |                                | Borehole No.<br><b>WS9</b><br>Sheet 1 of 1 |                 |
| Project Name: Dobfield Road                                                                                                                                                                                                                                        |  | Project No. A5182              |  | Co-ords: 391747.00 - 413871.00 |                                            | Hole Type<br>WS |
| Location: Rochdale                                                                                                                                                                                                                                                 |  | Level: 0.00                    |  | Scale<br>1:30                  |                                            |                 |
| Client: J Bullock                                                                                                                                                                                                                                                  |  | Dates: 27/01/2023 - 27/01/2023 |  | Logged By<br>BG                |                                            |                 |

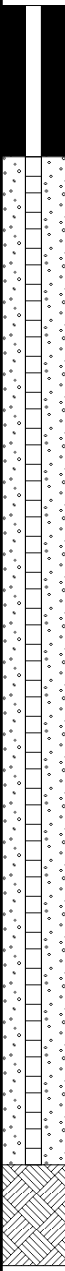
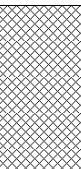
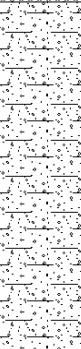
| Well                                                                               | Water Strikes | Samples and In Situ Testing |      |                     | Depth (m) | Level (m) | Legend                                                                                                                  | Stratum Description                                                                                                                                                        |   |
|------------------------------------------------------------------------------------|---------------|-----------------------------|------|---------------------|-----------|-----------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |               | Depth (m)                   | Type | Results             |           |           |                                                                                                                         |                                                                                                                                                                            |   |
|  |               | 0.25                        | ES   |                     |           |           | Grass over dark brown sandy gravelly TOPSOIL. Sand is fine to coarse. Gravel is fine to coarse subangular of sandstone. |                                                                                                                                                                            |   |
|                                                                                    |               |                             |      |                     | 0.50      | -0.50     |                                                                                                                         | Medium dense orangish brown SAND. Sand is fine to coarse.                                                                                                                  | 1 |
|                                                                                    |               | 1.20                        |      | N=21 (2,2/4,5,5,7)  |           |           |                                                                                                                         |                                                                                                                                                                            |   |
|                                                                                    |               |                             |      |                     | 1.70      | -1.70     |                                                                                                                         | Firm brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded of sandstone and mudstone. Contains sandstone cobbles. | 2 |
|                                                                                    |               | 2.00                        |      | N=9 (3,2/2,3,2,2)   |           |           |                                                                                                                         |                                                                                                                                                                            |   |
|                                                                                    |               |                             |      |                     | 2.30      | -2.30     |                                                                                                                         | Firm to stiff brown CLAY.                                                                                                                                                  |   |
|                                                                                    |               |                             |      |                     |           |           | HP at 2.75m = 96kN/m2.                                                                                                  |                                                                                                                                                                            |   |
|                                                                                    |               |                             |      |                     |           |           | HP at 3.25m = 132kN/m2.                                                                                                 |                                                                                                                                                                            |   |
|                                                                                    |               |                             |      |                     |           |           | HP at 3.75m = 144kN/m2.                                                                                                 |                                                                                                                                                                            |   |
|                                                                                    |               | 3.00                        |      | N=14 (2,3/3,3,4,4)  |           |           |                                                                                                                         |                                                                                                                                                                            | 3 |
|                                                                                    | 4.00          |                             |      |                     |           |           |                                                                                                                         |                                                                                                                                                                            |   |
|                                                                                    |               |                             |      |                     |           |           |                                                                                                                         |                                                                                                                                                                            |   |
|                                                                                    |               | 4.00                        | D    | N=31 (6,6/6,7,8,10) |           |           |                                                                                                                         |                                                                                                                                                                            | 4 |
|                                                                                    |               |                             |      |                     |           |           |                                                                                                                         |                                                                                                                                                                            |   |
|                                                                                    |               |                             |      |                     | 4.50      | -4.50     |                                                                                                                         | Stiff brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium subrounded of sandstone.                                               |   |
|                                                                                    |               | 5.00                        |      | N=22 (3,4/4,6,6,6)  | 5.00      | -5.00     |                                                                                                                         | End of borehole at 5.00 m                                                                                                                                                  | 5 |
|                                                                                    |               |                             |      |                     |           |           |                                                                                                                         |                                                                                                                                                                            | 6 |

Remarks
 

- 1) Location scanned with CAT.
- 2) Hand dug pit to 1.20m.
- 3) Monitoring well installed, 1.00m plain, 4.00m slotted.


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|  <b>EARTH ENVIRONMENTAL &amp; GEOTECHNICAL</b><br>Earth Environmental & Geotechnical Ltd<br>Houldsworth Mill Business & Arts Centre<br>Houldsworth Street<br>Stockport<br>SK5 6DA |  |  |  | <h1>Borehole Log</h1>          |  |                                |  | Borehole No.<br><b>WS10</b><br>Sheet 1 of 1 |  |
| Project Name: Dobfield Road                                                                                                                                                                                                                                        |  |  |  | Project No. A5182              |  | Co-ords: 391769.00 - 413886.00 |  | Hole Type<br>WS                             |  |
| Location: Rochdale                                                                                                                                                                                                                                                 |  |  |  | Level: 0.00                    |  | Scale<br>1:30                  |  |                                             |  |
| Client: J Bullock                                                                                                                                                                                                                                                  |  |  |  | Dates: 27/01/2023 - 27/01/2023 |  | Logged By<br>BG                |  |                                             |  |

| Well                                                                               | Water Strikes | Samples and In Situ Testing |      |                    | Depth (m) | Level (m) | Legend                                                                                                                                                                                                                                                               | Stratum Description |  |
|------------------------------------------------------------------------------------|---------------|-----------------------------|------|--------------------|-----------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|
|                                                                                    |               | Depth (m)                   | Type | Results            |           |           |                                                                                                                                                                                                                                                                      |                     |  |
|  |               | 0.55                        | ES   |                    | 0.70      | -0.70     |  Grass over dark brown sandy gravelly TOPSOIL. Sand is fine to coarse. Gravel is fine to coarse subangular of sandstone.                                                            |                     |  |
|                                                                                    |               | 1.20                        |      | N=29 (6,6/7,9,7,6) |           |           |  Medium dense brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded of sandstone and mudstone. Contains sandstone cobbles. | 1                   |  |
|                                                                                    |               | 2.00                        |      | N=18 (4,4/4,4,4,6) | 2.10      | -2.10     |  Medium dense brown slightly gravelly SAND. Sand is fine to coarse. Gravel is fine subangular of sandstone.                                                                       | 2                   |  |
|                                                                                    |               | 3.00                        |      | N=14 (2,2/2,3,4,5) | 3.00      | -3.00     |  Stiff brown CLAY.<br>HP at 3.25m = 120kN/m2.<br>HP at 3.75m = 144kN/m2.                                                                                                          | 3                   |  |
|                                                                                    |               | 4.00                        |      | N=20 (3,3/4,4,5,7) | 4.00      | -4.00     |  Medium dense brown slightly gravelly SAND. Sand is fine to coarse. Gravel is fine subangular of sandstone.<br>HP at 4.50m = 144kN/m2.                                            | 4                   |  |
|                                                                                    |               | 4.80                        | D    |                    | 4.60      | -4.60     |  Stiff brown CLAY.<br>HP at 4.75m = 132kN/m2.                                                                                                                                     |                     |  |
|                                                                                    |               | 5.00                        |      | N=23 (3,4/4,6,6,7) | 5.00      | -5.00     |  End of borehole at 5.00 m                                                                                                                                                        | 5                   |  |
|                                                                                    |               |                             |      |                    |           |           |                                                                                                                                                                                                                                                                      | 6                   |  |

**Remarks**  
 1) Location scanned with CAT.  
 2) Hand dug pit to 1.20m.  
 3) Monitoring well installed, 0.60m plain, 4.00m slotted.


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|  <b>EARTH ENVIRONMENTAL &amp; GEOTECHNICAL</b><br>Earth Environmental & Geotechnical Ltd<br>Houldsworth Mill Business & Arts Centre<br>Houldsworth Street<br>Stockport<br>SK5 6DA |  |  |  |  | <h1>Borehole Log</h1>          |  |                                | Borehole No.<br><b>RH1</b><br>Sheet 1 of 1 |                 |  |
| Project Name: Dobfield Road                                                                                                                                                                                                                                        |  |  |  |  | Project No. A5182              |  | Co-ords: 391744.00 - 413851.00 |                                            | Hole Type<br>RO |  |
| Location: Rochdale                                                                                                                                                                                                                                                 |  |  |  |  | Level:                         |  | Scale<br>1:150                 |                                            | Logged By<br>BG |  |
| Client: J Bullock                                                                                                                                                                                                                                                  |  |  |  |  | Dates: 21/02/2023 - 21/02/2023 |  |                                |                                            |                 |  |

| Well                       | Water Strikes | Samples and In Situ Testing |      |         | Depth (m) | Level (m)                                                                         | Legend                                                                              | Stratum Description                                                                                                                           |     |
|----------------------------|---------------|-----------------------------|------|---------|-----------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|
|                            |               | Depth (m)                   | Type | Results |           |                                                                                   |                                                                                     |                                                                                                                                               |     |
|                            |               |                             |      |         | 0.40      |                                                                                   |    | Grass over dark brown sandy gravelly TOPSOIL. Sand is fine to coarse. Gravel is fine to coarse subangular sandstone.                          | 1   |
|                            |               |                             |      |         | 3.00      |                                                                                   |    | Medium dense brown clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded of sandstone and mudstone. | 2   |
|                            |               |                             |      |         |           |                                                                                   |    | Firm to stiff brown sandy CLAY. Sand is fine to coarse.                                                                                       | 3   |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     |                                                                                                                                               | 4   |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     |                                                                                                                                               | 5   |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     |                                                                                                                                               | 6   |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     |                                                                                                                                               | 7   |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     |                                                                                                                                               | 8   |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     |                                                                                                                                               | 9   |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     |                                                                                                                                               | 10  |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     |                                                                                                                                               | 11  |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     |                                                                                                                                               | 12  |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     |                                                                                                                                               | 13  |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     |                                                                                                                                               | 14  |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     |                                                                                                                                               | 15  |
|                            |               |                             |      | 8.00    |           |  | Grey MUDSTONE.                                                                      | 16                                                                                                                                            |     |
|                            |               |                             |      | 8.20    |           |  | COAL.                                                                               | 17                                                                                                                                            |     |
|                            |               |                             |      | 8.40    |           |  | Dark grey MUDSTONE.                                                                 | 18                                                                                                                                            |     |
|                            |               |                             |      | 9.00    |           |  | Dark grey MUDSTONE with occasional hard sandstone bands.                            | 19                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 20                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 21                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 22                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 23                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 24                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 25                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 26                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 27                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 28                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 29                                                                                                                                            |     |
|                            |               |                             |      |         | 12.90     |                                                                                   |  | Hard grey SANDSTONE.                                                                                                                          | 30  |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 31                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 32                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 33                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 34                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 35                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 36                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 37                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 38                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 39                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 40                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 41                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 42                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 43                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 44                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 45                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 46                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 47                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 48                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 49                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 50                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 51                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 52                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 53                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 54                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 55                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 56                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 57                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 58                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 59                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 60                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 61                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 62                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 63                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 64                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 65                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 66                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 67                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 68                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 69                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 70                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 71                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 72                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 73                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 74                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 75                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 76                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 77                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 78                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 79                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 80                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 81                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 82                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 83                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 84                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 85                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 86                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 87                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 88                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 89                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 90                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 91                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 92                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 93                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 94                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 95                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 96                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 97                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 98                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 99                                                                                                                                            |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 100                                                                                                                                           |     |
|                            |               |                             |      |         | 22.00     |                                                                                   |  | Grey MUDSTONE.                                                                                                                                | 101 |
|                            |               |                             |      |         | 22.50     |                                                                                   |  | Grey MUDSTONE with occasional coal traces.                                                                                                    | 102 |
|                            |               |                             |      |         | 24.00     |                                                                                   |  | Grey MUDSTONE with thin sandstone band.                                                                                                       | 103 |
|                            |               |                             |      |         | 26.40     |                                                                                   |  | Grey SANDSTONE.                                                                                                                               | 104 |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 105                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 106                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 107                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 108                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 109                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 110                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 111                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 112                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 113                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 114                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 115                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 116                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 117                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 118                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 119                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 120                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 121                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 122                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 123                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 124                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 125                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 126                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 127                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 128                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 129                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 130                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 131                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 132                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 133                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 134                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 135                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 136                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 137                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 138                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 139                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 140                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 141                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 142                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 143                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 144                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 145                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 146                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 147                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 148                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 149                                                                                                                                           |     |
|                            |               |                             |      |         |           |                                                                                   |                                                                                     | 150                                                                                                                                           |     |
| End of borehole at 30.00 m |               |                             |      |         |           |                                                                                   |                                                                                     |                                                                                                                                               | 30  |

Remarks
 

1) Location scanned with CAT.  
 2) Hole grouted to 30.00m.  
 3) No gas encountered during drilling.


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|                                                                                                                                                                                                                                                                    |  |  |  |  |                                |  |                                |                                            |                 |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--------------------------------|--|--------------------------------|--------------------------------------------|-----------------|--|
|  <b>EARTH ENVIRONMENTAL &amp; GEOTECHNICAL</b><br>Earth Environmental & Geotechnical Ltd<br>Houldsworth Mill Business & Arts Centre<br>Houldsworth Street<br>Stockport<br>SK5 6DA |  |  |  |  | <h1>Borehole Log</h1>          |  |                                | Borehole No.<br><b>RH2</b><br>Sheet 1 of 1 |                 |  |
| Project Name: Dobfield Road                                                                                                                                                                                                                                        |  |  |  |  | Project No. A5182              |  | Co-ords: 391733.00 - 413838.00 |                                            | Hole Type<br>RO |  |
| Location: Rochdale                                                                                                                                                                                                                                                 |  |  |  |  | Level:                         |  | Scale<br>1:150                 |                                            | Logged By<br>BG |  |
| Client: J Bullock                                                                                                                                                                                                                                                  |  |  |  |  | Dates: 21/02/2023 - 21/02/2023 |  |                                |                                            |                 |  |

| Well | Water Strikes | Samples and In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                                                                           |    |
|------|---------------|-----------------------------|------|---------|-----------|-----------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----|
|      |               | Depth (m)                   | Type | Results |           |           |                                                                                     |                                                                                                                                               |    |
|      |               |                             |      |         | 0.40      |           |    | Grass over dark brown sandy gravelly TOPSOIL. Sand is fine to coarse. Gravel is fine to coarse subangular sandstone.                          | 1  |
|      |               |                             |      |         | 2.40      |           |    | Medium dense brown clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded of sandstone and mudstone. | 2  |
|      |               |                             |      |         |           |           |    | Firm to stiff brown sandy CLAY. Sand is fine to coarse.                                                                                       | 3  |
|      |               |                             |      |         |           |           |                                                                                     |                                                                                                                                               | 4  |
|      |               |                             |      |         |           |           |                                                                                     |                                                                                                                                               | 5  |
|      |               |                             |      |         |           |           |                                                                                     |                                                                                                                                               | 6  |
|      |               |                             |      |         |           |           |                                                                                     |                                                                                                                                               | 7  |
|      |               |                             |      |         |           |           |                                                                                     |                                                                                                                                               | 8  |
|      |               |                             |      |         |           |           |                                                                                     |                                                                                                                                               | 9  |
|      |               |                             |      |         |           |           |                                                                                     |                                                                                                                                               | 10 |
|      |               |                             |      |         |           |           |                                                                                     |                                                                                                                                               | 11 |
|      |               |                             |      |         |           |           |                                                                                     |                                                                                                                                               | 12 |
|      |               |                             |      |         |           |           |                                                                                     |                                                                                                                                               | 13 |
|      |               |                             |      |         |           |           |                                                                                     |                                                                                                                                               | 14 |
|      |               |                             |      |         |           |           |                                                                                     |                                                                                                                                               | 15 |
|      |               |                             |      |         | 8.20      |           |    | Grey MUDSTONE.                                                                                                                                | 16 |
|      |               |                             |      |         | 8.80      |           |    | COAL.                                                                                                                                         | 17 |
|      |               |                             |      |         | 9.00      |           |    | Dark grey MUDSTONE.                                                                                                                           | 18 |
|      |               |                             |      |         | 9.40      |           |   | Grey MUDSTONE.                                                                                                                                | 19 |
|      |               |                             |      |         | 11.00     |           |  | Hard grey SANDSTONE with occasional mudstone bands.                                                                                           | 20 |
|      |               |                             |      |         |           |           |                                                                                     | 21                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 22                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 23                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 24                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 25                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 26                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 27                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 28                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 29                                                                                                                                            |    |
|      |               |                             |      |         | 19.80     |           |  | Grey MUDSTONE.                                                                                                                                | 30 |
|      |               |                             |      |         | 22.00     |           |  | Grey MUDSTONE with occasional coal traces.                                                                                                    | 31 |
|      |               |                             |      |         | 22.40     |           |  | Grey MUDSTONE with sandstone bands.                                                                                                           | 32 |
|      |               |                             |      |         |           |           |                                                                                     | 33                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 34                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 35                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 36                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 37                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 38                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 39                                                                                                                                            |    |
|      |               |                             |      |         | 25.70     |           |  | Grey SANDSTONE with mudstone bands.                                                                                                           | 40 |
|      |               |                             |      |         |           |           |                                                                                     | 41                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 42                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 43                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 44                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 45                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 46                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 47                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 48                                                                                                                                            |    |
|      |               |                             |      |         |           |           |                                                                                     | 49                                                                                                                                            |    |
|      |               |                             |      |         | 30.00     |           | End of borehole at 30.00 m                                                          |                                                                                                                                               | 50 |

Remarks
 

1) Location scanned with CAT.  
 2) Hole grouted to 30.00m.  
 3) No gas encountered during drilling.


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|                                                                                                                                                                                                                                                                    |  |  |  |  |                                |  |                                |                                            |                 |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--------------------------------|--|--------------------------------|--------------------------------------------|-----------------|--|
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| Project Name: Dobfield Road                                                                                                                                                                                                                                        |  |  |  |  | Project No. A5182              |  | Co-ords: 391719.00 - 413839.00 |                                            | Hole Type<br>RO |  |
| Location: Rochdale                                                                                                                                                                                                                                                 |  |  |  |  | Level:                         |  | Scale<br>1:150                 |                                            | Logged By<br>BG |  |
| Client: J Bullock                                                                                                                                                                                                                                                  |  |  |  |  | Dates: 22/02/2023 - 22/02/2023 |  |                                |                                            |                 |  |

| Well | Water Strikes | Samples and In Situ Testing |      |         | Depth (m) | Level (m)                                                                           | Legend                                                                            | Stratum Description                                                                                                                           |                                                 |    |
|------|---------------|-----------------------------|------|---------|-----------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----|
|      |               | Depth (m)                   | Type | Results |           |                                                                                     |                                                                                   |                                                                                                                                               |                                                 |    |
|      |               |                             |      |         | 0.15      |                                                                                     |  | Grey CONCRETE.                                                                                                                                |                                                 |    |
|      |               |                             |      |         | 1.10      |                                                                                     |  | MADE GROUND: Dark grey sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse subangular of concrete redbrick and sandstone.          | 1                                               |    |
|      |               |                             |      |         | 3.10      |                                                                                     |  | Medium dense brown clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded of sandstone and mudstone. | 2                                               |    |
|      |               |                             |      |         |           |                                                                                     |  | Firm to stiff brown sandy CLAY. Sand is fine to coarse.                                                                                       | 3                                               |    |
|      |               |                             |      |         |           |                                                                                     |  |                                                                                                                                               | 4                                               |    |
|      |               |                             |      |         |           |                                                                                     |  |                                                                                                                                               | 5                                               |    |
|      |               |                             |      |         |           |                                                                                     |  |                                                                                                                                               | 6                                               |    |
|      |               |                             |      |         |           |                                                                                     |  |                                                                                                                                               | 7                                               |    |
|      |               |                             |      |         |           | 8.10                                                                                |                                                                                   |                                                              | Grey MUDSTONE.                                  | 8  |
|      |               |                             |      |         |           |                                                                                     |  |                                                                                                                                               | 9                                               |    |
|      |               |                             |      |         |           | 10.00                                                                               |                                                                                   |                                                              | COAL.                                           | 10 |
|      |               |                             |      |         |           | 10.30                                                                               |                                                                                   |                                                             | Dark grey MUDSTONE with occasional coal traces. | 11 |
|      |               |                             |      |         |           | 11.40                                                                               |                                                                                   |                                                            | Grey MUDSTONE with sandstone bands.             | 12 |
|      |               |                             |      |         |           | 12.80                                                                               |                                                                                   |                                                            | Grey SANDSTONE with mudstone bands.             | 13 |
|      |               |                             |      |         |           |                                                                                     |                                                                                   |                                                            |                                                 | 14 |
|      |               |                             |      | 15.80   |           |  | Dark grey MUDSTONE.                                                               | 15                                                                                                                                            |                                                 |    |
|      |               |                             |      | 16.30   |           |  | Grey SANDSTONE with mudstone bands.                                               | 16                                                                                                                                            |                                                 |    |
|      |               |                             |      |         |           |  |                                                                                   | 17                                                                                                                                            |                                                 |    |
|      |               |                             |      |         |           |  |                                                                                   | 18                                                                                                                                            |                                                 |    |
|      |               |                             |      |         |           |  |                                                                                   | 19                                                                                                                                            |                                                 |    |
|      |               |                             |      |         |           |  |                                                                                   | 20                                                                                                                                            |                                                 |    |
|      |               |                             |      |         |           |  |                                                                                   | 21                                                                                                                                            |                                                 |    |
|      |               |                             |      |         |           |  |                                                                                   | 22                                                                                                                                            |                                                 |    |
|      |               |                             |      | 23.00   |           |  | Grey MUDSTONE with sandstone bands.                                               | 23                                                                                                                                            |                                                 |    |
|      |               |                             |      |         |           |  |                                                                                   | 24                                                                                                                                            |                                                 |    |
|      |               |                             |      | 24.50   |           |  | Grey SANDSTONE with mudstone bands.                                               | 25                                                                                                                                            |                                                 |    |
|      |               |                             |      |         |           |  |                                                                                   | 26                                                                                                                                            |                                                 |    |
|      |               |                             |      |         |           |  |                                                                                   | 27                                                                                                                                            |                                                 |    |
|      |               |                             |      |         |           |  |                                                                                   | 28                                                                                                                                            |                                                 |    |
|      |               |                             |      |         |           |  |                                                                                   | 29                                                                                                                                            |                                                 |    |
|      |               |                             |      | 30.00   |           |                                                                                     | End of borehole at 30.00 m                                                        | 30                                                                                                                                            |                                                 |    |

Remarks
 

1) Location scanned with CAT.  
 2) Hole grouted to 30.00m.  
 3) No gas encountered during drilling.


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