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## APPENDIX 9

### GROUNDWATER WELL CONSTRUCTION LOGS

# Borehole Log

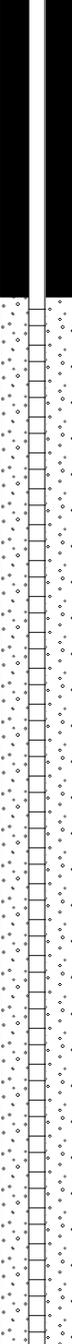
Location ID:

**BH05**

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|                            |                                    |   |                                     |                    |                     |
|----------------------------|------------------------------------|---|-------------------------------------|--------------------|---------------------|
| Date Start:<br>22/03/2021  | Location Type:<br>Rotary open hole | Project ID:<br>21-2649                                | Project Name:<br>Site Investigation | Easting:<br>706749 | Northing:<br>777378 |
| Date Finish:<br>22/03/2021 | Logged By:                         | Site Location:<br>Chapel Lane, Drogheda, County Louth |                                     | Elevation:         |                     |

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| Samples & In-situ Testing |           | Results & Information | Wells  | Water   | Legend   | Stratum Description  | Scale | Depth (m) | Reduced Level (m) |
|---------------------------|-----------|-----------------------|--|---|--|--|-------|-----------|-------------------|
| Type                      | Depth (m) |                       |  |   |  |  |       |           |                   |
|                           |           | Water Strike 3.50m    |  |  |  | Topsoil [RECENT]   |       | 0.40      |                   |
|                           |           |                       |  |   |  | medium dense yellow brown silty, sandy, clayey, fine to coarse sub-angular to sub-rounded GRAVEL [GLACIAL] |       | 1.0       |                   |
|                           |           |                       |  |   |  | medium dense brown silty, sandy, very clayey, fine to coarse sub-angular to sub-rounded GRAVEL [GLACIAL]   |       | 3.50      |                   |
|                           |           |                       |  |   |  |  |       | 4.0       |                   |

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| Water Monitoring |      | Water Strikes |       |      | Shift Information |       |         | Depth Related Remarks |      |      | Backfill                                    |      |      |      |
|------------------|------|---------------|-------|------|-------------------|-------|---------|-----------------------|------|------|---|------|------|------|
| Depth            | Date | Struck        | Date  | Flow | Depth             | Water | Remarks | Date Time             | Top  | Base | Remarks                                     | Top  | Base | Type |
|                  |      | 3.50m         | 22/03 |      |                   |       |         | 01/01/2020 16:30      | 0.00 | 1.20 | Obstruction time - Hand dug inspection pit. | 0.00 | 1.00 | 7.00 |

Termination Reason:  
Borehole terminated at scheduled completion depth.  
Borehole terminated on instructions of engineer.

General Remarks:



Scale:  
1:25

# Borehole Log

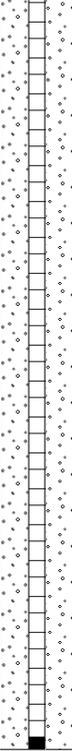
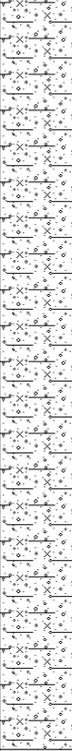
Location ID:

**BH05**

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|                           |                                    |                        |                                     |                    |                     |
|---------------------------|------------------------------------|------------------------|-------------------------------------|--------------------|---------------------|
| Date Start:<br>22/03/2021 | Location Type:<br>Rotary open hole | Project ID:<br>21-2649 | Project Name:<br>Site Investigation | Easting:<br>706749 | Northing:<br>777378 |
|---------------------------|------------------------------------|------------------------|-------------------------------------|--------------------|---------------------|

|                            |            |   |  |  |            |
|----------------------------|------------|---|--|--|------------|
| Date Finish:<br>22/03/2021 | Logged By: | Site Location:<br>Chapel Lane, Drogheda, County Louth |  |  | Elevation: |
|----------------------------|------------|---|--|--|------------|

| Samples & In-situ Testing |           | Results & Information | Wells  | Water | Legend   | Stratum Description  | Scale | Depth (m) | Reduced Level (m) |
|---------------------------|-----------|-----------------------|--|-------|--|--|-------|-----------|-------------------|
| Type                      | Depth (m) |                       |  |       |  |  |       |           |                   |
|                           |           |                       |  |       |  | medium dense brown silty, sandy, very clayey, fine to coarse sub-angular to sub-rounded GRAVEL [GLACIAL] |       | 5.0       |                   |
|                           |           |                       |  |       |  | End of Borehole at 7.00m   |       | 7.0       | 7.00              |
|                           |           |                       |  |       |  |  |       | 8.0       |                   |

| Water Monitoring |      | Water Strikes |      |      | Shift Information |       |         |                  | Depth Related Remarks |      |         | Backfill |      |      |
|------------------|------|---------------|------|------|-------------------|-------|---------|------------------|-----------------------|------|---------|----------|------|------|
| Depth            | Date | Struck        | Date | Flow | Depth             | Water | Remarks | Date Time        | Top                   | Base | Remarks | Top      | Base | Type |
|                  |      |               |      |      |                   |       |         | 01/01/2020 16:30 |                       |      |         | 0.00     | 1.00 |      |
|                  |      |               |      |      |                   |       |         |                  |                       |      |         | 1.00     | 7.00 |      |

|   |                  |   |                |
|---|------------------|---|----------------|
| Termination Reason:<br>Borehole terminated at scheduled completion depth.<br>Borehole terminated on instructions of engineer. | General Remarks: |  | Scale:<br>1:25 |
|---|------------------|---|----------------|

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# Borehole Log

Location ID:

**BH06**

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|                           |                                    |                        |                                     |                    |                     |
|---------------------------|------------------------------------|------------------------|-------------------------------------|--------------------|---------------------|
| Date Start:<br>22/03/2021 | Location Type:<br>Rotary open hole | Project ID:<br>21-2649 | Project Name:<br>Site Investigation | Easting:<br>706800 | Northing:<br>777242 |
|---------------------------|------------------------------------|------------------------|-------------------------------------|--------------------|---------------------|

|                            |            |   |            |
|----------------------------|------------|---|------------|
| Date Finish:<br>22/03/2021 | Logged By: | Site Location:<br>Chapel Lane, Drogheda, County Louth | Elevation: |
|----------------------------|------------|---|------------|

| Samples & In-situ Testing |           | Results & Information | Wells | Water | Legend | Stratum Description  | Scale | Depth (m) | Reduced Level (m) |
|---------------------------|-----------|-----------------------|-------|-------|--------|--|-------|-----------|-------------------|
| Type                      | Depth (m) |                       |       |       |        |  |       |           |                   |
|                           |           |                       |       |       |        | Topsoil [RECENT]   |       | 0.30      |                   |
|                           |           |                       |       |       |        | firm light brown sandy, CLAY with low fine to coarse sub-angular to sub-rounded gravel content [GLACIAL] |       | 1.0       |                   |
|                           |           |                       |       |       |        |  |       | 2.0       |                   |
|                           |           |                       |       |       |        |  |       | 3.0       |                   |
|                           |           |                       |       |       |        |  |       | 4.0       |                   |
|                           |           | Water Strike 4.30m    |       |       |        | dense yellow brown silty, sandy, fine to coarse sub-angular GRAVEL                                       |       | 4.30      |                   |

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| Water Monitoring |      | Water Strikes |       |      | Shift Information |       |         | Depth Related Remarks |      |      | Backfill                                    |      |      |      |
|------------------|------|---------------|-------|------|-------------------|-------|---------|-----------------------|------|------|---|------|------|------|
| Depth            | Date | Struck        | Date  | Flow | Depth             | Water | Remarks | Date Time             | Top  | Base | Remarks                                     | Top  | Base | Type |
|                  |      | 4.30m         | 22/03 |      |                   |       |         | 01/01/2020 16:30      | 0.00 | 1.20 | Obstruction time - Hand dug inspection pit. | 0.00 | 1.00 | 7.00 |

|   |                  |  |                |
|---|------------------|--|----------------|
| Termination Reason:<br>Borehole terminated at scheduled completion depth.<br>Borehole terminated on instructions of engineer. | General Remarks: |  | Scale:<br>1:25 |
|---|------------------|--|----------------|

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# Borehole Log

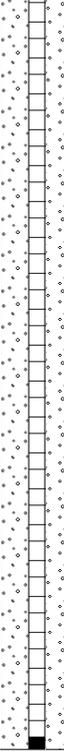
Location ID:

**BH06**

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|                           |                                    |                        |                                     |                    |                     |
|---------------------------|------------------------------------|------------------------|-------------------------------------|--------------------|---------------------|
| Date Start:<br>22/03/2021 | Location Type:<br>Rotary open hole | Project ID:<br>21-2649 | Project Name:<br>Site Investigation | Easting:<br>706800 | Northing:<br>777242 |
|---------------------------|------------------------------------|------------------------|-------------------------------------|--------------------|---------------------|

|                            |            |   |  |  |            |
|----------------------------|------------|---|--|--|------------|
| Date Finish:<br>22/03/2021 | Logged By: | Site Location:<br>Chapel Lane, Drogheda, County Louth |  |  | Elevation: |
|----------------------------|------------|---|--|--|------------|

| Samples & In-situ Testing |           | Results & Information | Wells  | Water | Legend   | Stratum Description  | Scale | Depth (m) | Reduced Level (m) |
|---------------------------|-----------|-----------------------|--|-------|--|--|-------|-----------|-------------------|
| Type                      | Depth (m) |                       |  |       |  |  |       |           |                   |
|                           |           |                       |  |       |  | dense yellow brown silty, sandy, fine to coarse sub-angular GRAVEL [GLACIAL] |       | 5.0       |                   |
|                           |           |                       |  |       |  | End of Borehole at 7.00m   |       | 7.0       | 7.00              |
|                           |           |                       |  |       |  |  |       | 8.0       |                   |

| Water Monitoring |      | Water Strikes |      |      | Shift Information |       |         |                  | Depth Related Remarks |      |         | Backfill |      |      |
|------------------|------|---------------|------|------|-------------------|-------|---------|------------------|-----------------------|------|---------|----------|------|------|
| Depth            | Date | Struck        | Date | Flow | Depth             | Water | Remarks | Date Time        | Top                   | Base | Remarks | Top      | Base | Type |
|                  |      |               |      |      |                   |       |         | 01/01/2020 16:30 |                       |      |         | 0.00     | 1.00 |      |
|                  |      |               |      |      |                   |       |         |                  |                       |      |         | 1.00     | 7.00 |      |

|   |                  |   |                |
|---|------------------|---|----------------|
| Termination Reason:<br>Borehole terminated at scheduled completion depth.<br>Borehole terminated on instructions of engineer. | General Remarks: |  | Scale:<br>1:25 |
|---|------------------|---|----------------|

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