



**STRUCTURAL SOILS LTD**  
**INSITU TESTING REPORT**



1774

Report No. 747245R.01(00)

Date 24-March-2017 Contract Hatfield Business Park, Plot 4100

Client RSK Environment Ltd  
Address Spring Lodge  
172 Chester Road  
Helsby  
Cheshire  
WA6 0AR

For the Attention of Melissa Southwood

|                   |                  |                  |          |
|-------------------|------------------|------------------|----------|
| Order received    | 28-February-2017 | Client Reference | None     |
| Testing Started   | 22-March-2017    | Client Order No. | P0266044 |
| Testing Completed | 22-March-2017    | Instruction Type | Written  |

Tests marked 'Not UKAS Accredited' in this report are not included in the UKAS Accreditation Schedule for our Laboratory.

UKAS Accredited Tests

Not UKAS Accredited Tests

5no. Insitu soakaway tests carried out at locations specified by client.

The results represent the ground conditions at the specified locations and depths at the time of testing.

Please Note: Remaining samples will be retained for a period of one month from today and will then be disposed of.  
Test were undertaken on samples 'as received' unless otherwise stated.  
Opinions and interpretations expressed in this report are outside the scope of accreditation for this laboratory.

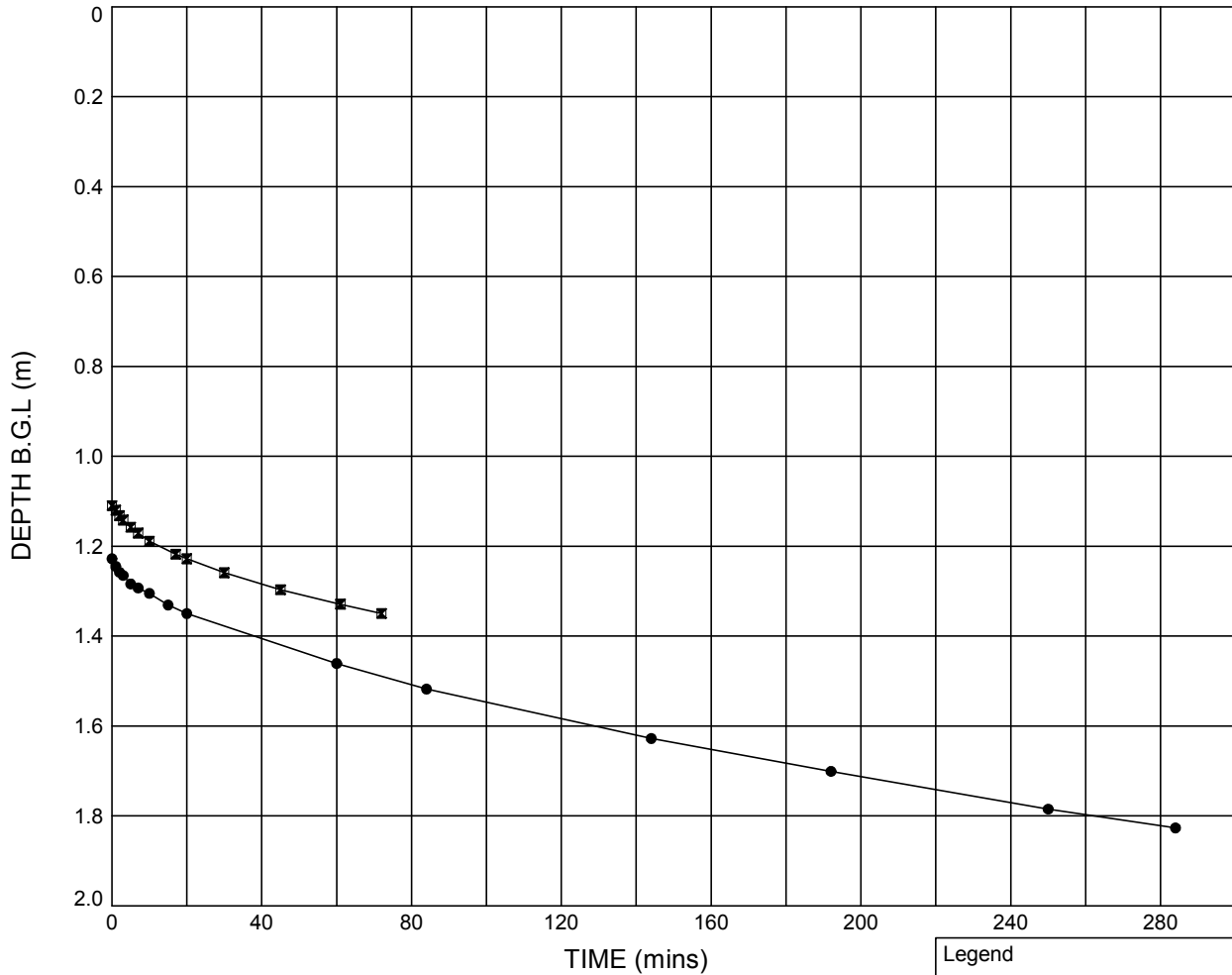
Structural Soils Ltd 1a Princess Street Bedminster Bristol BS3 4AG Tel.0117 9471000. e-mail dimitris.xirouchakis@soils.co.uk

# FULL SCALE SOAKAWAY TEST

Non-standard test

Soakaway Test - Position ID : SA01

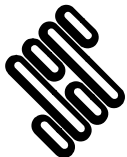
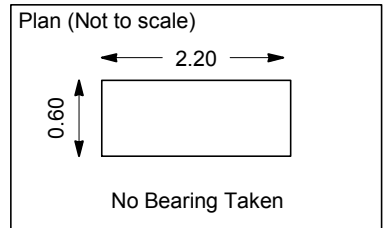
## Plot of Depth of Water Below Ground Level Against Time



|  | Test 1                  | Test 2                |       |
|--|-------------------------|-----------------------|-------|
| Pit start depth:                       | = 2.00                  | 1.99                  | m     |
| Pit final depth:                       | = 1.99                  | 1.91                  | m     |
| Effective depth, $D_e$                 | = 0.76                  | 0.80                  | m     |
| Effective storage volume, $V_{p75-25}$ | = 0.5036                | 0.5267                | $m^3$ |
| Surface area, $a_{p50}$                | = 3.4564                | 3.5544                | $m^2$ |
| Time, $t_{p75-25}$                     | = 13055                 | 12512                 | secs  |
| Infiltration rate, $f$                 | = $1.12 \times 10^{-5}$ | $1.18 \times 10^{-5}$ | m/s   |

Please note test data was extrapolated to obtain  $t_{p75-tp25}$ .

| Legend |        |            |
|--------|--------|------------|
| ●      | Test 1 | (22.03.17) |
| ■      | Test 2 | (22.03.17) |



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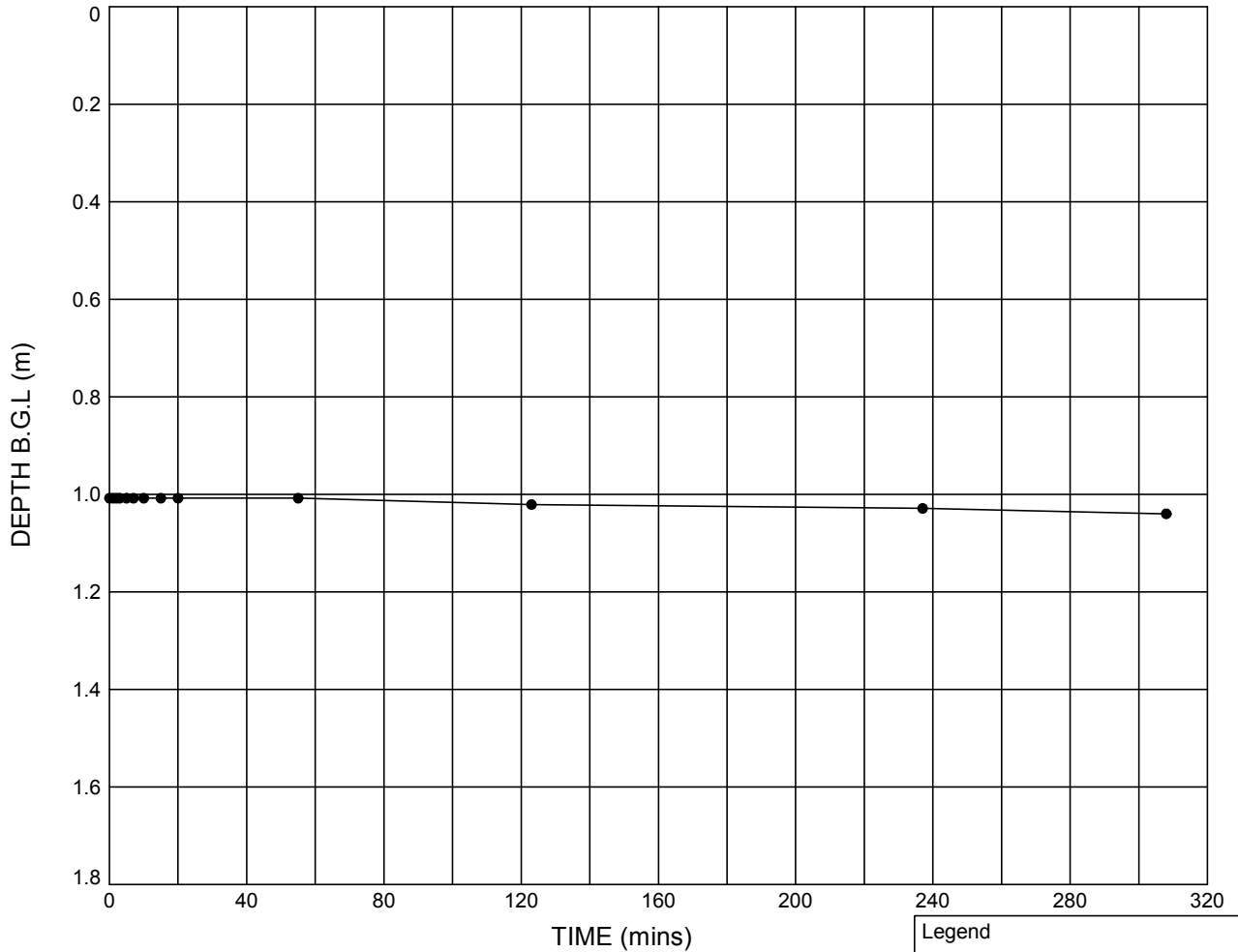
|  |          |                 |          |
|--|----------|-----------------|----------|
| Compiled By                              | Date     | Checked By      | Date     |
| <i>MDStranger</i>                        | 24/03/17 | <i>S. H. R.</i> | 24/03/17 |
| Contract                                 |          | Contract Ref:   |          |
| <b>Hatfield Business Park, Plot 4100</b> |          | <b>747245</b>   |          |

# FULL SCALE SOAKAWAY TEST

Non-standard test

Soakaway Test - Position ID : SA02

## Plot of Depth of Water Below Ground Level Against Time



Pit start depth: = **1.82** m  
 Pit final depth: = **1.68** m  
 Effective depth,  $D_e$  = **0.68** m  
 Effective storage volume,  $V_{p75-25}$  = **0.5881** m<sup>3</sup>  
 Surface area,  $a_{p50}$  = **4.1060** m<sup>2</sup>  
 Time,  $t_{p75-25}$  = **130899** secs  
 Infiltration rate,  $f$  =  **$1.09 \times 10^{-6}$**  m/s

Please note test data was extrapolated to obtain  $t_{p75-tp25}$ .

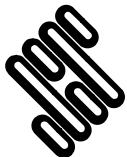
Legend

● Test 1 (22.03.17)

Plan (Not to scale)

No Bearing Taken

GINT\_LIBRARY\_V8\_06\_GLB.LibVersion: v8\_06\_018 ProjVersion: v8\_06 - Core+in Situ Testing - 005 | Graph 1 - TP SOAKAWAY - 2 - FINAL REPORT - A4P | 747245.GPJ - v8\_06 | 24/03/17 - 12:22 | MS4 |



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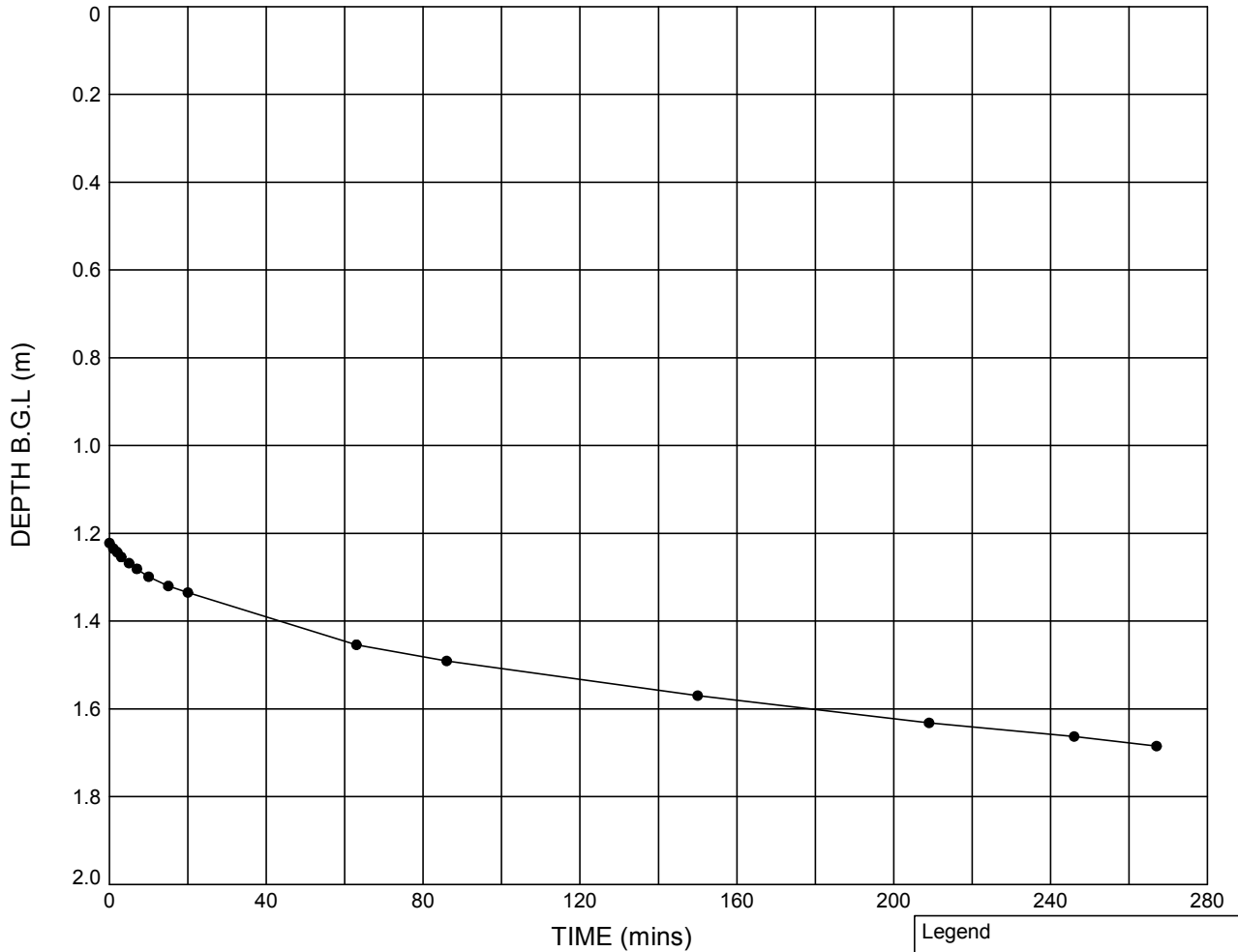
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|--|----------|-----------------|----------|
| Compiled By                              | Date     | Checked By      | Date     |
| <i>MDStranger</i>                        | 24/03/17 | <i>S. H. R.</i> | 24/03/17 |
| Contract                                 |          | Contract Ref:   |          |
| <b>Hatfield Business Park, Plot 4100</b> |          | <b>747245</b>   |          |

# FULL SCALE SOAKAWAY TEST

Non-standard test

Soakaway Test - Position ID : SA03

## Plot of Depth of Water Below Ground Level Against Time



Pit start depth: = **2.06** m  
 Pit final depth: = **1.80** m  
 Effective depth,  $D_e$  = **0.58** m  
 Effective storage volume,  $V_{p75-25}$  = **0.4002** m<sup>3</sup>  
 Surface area,  $a_{p50}$  = **3.0620** m<sup>2</sup>  
 Time,  $t_{p75-25}$  = **12436** secs  
 Infiltration rate,  $f$  =  **$1.05 \times 10^{-5}$**  m/s

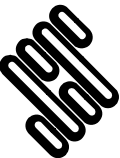

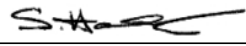
Legend

● Test 1 (22.03.17)

Plan (Not to scale)

No Bearing Taken

GINT\_LIBRARY\_V8\_06\_GLB.LibVersion: v8\_06\_018 ProjVersion: v8\_06 - Core+in Situ Testing - 005 | Graph 1 - TP SOAKAWAY - 2 - FINAL REPORT - A4P | 747245.GPJ - v8\_06 | 24/03/17 - 12:22 | MS4 |

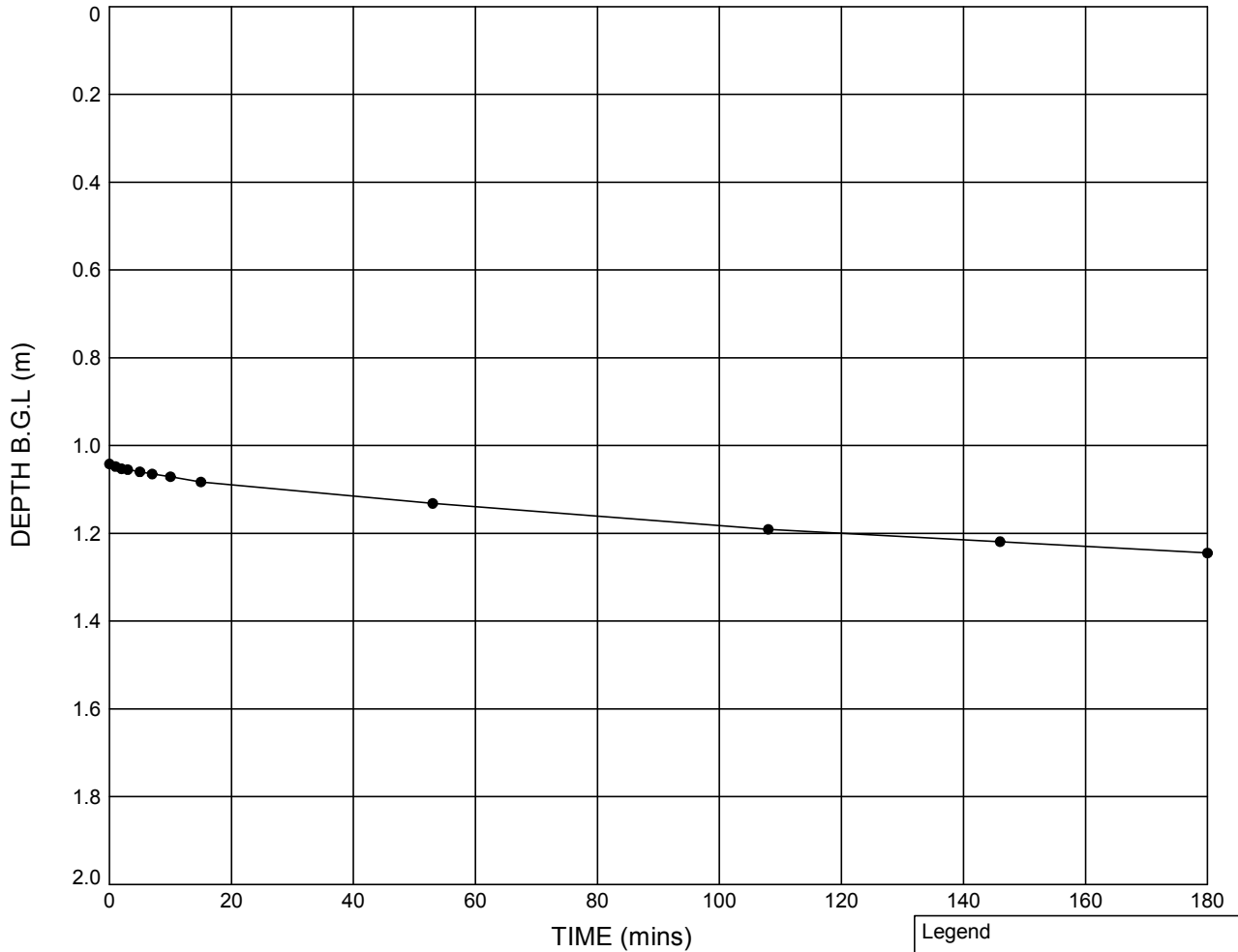
|  |   |      |   |      |
|--|---|------|---|------|
|  <p><b>STRUCTURAL SOILS</b><br/>1a Princess Street<br/>Bedminster<br/>Bristol<br/>BS3 4AG</p> | Compiled By   | Date | Checked By  | Date |
|  |  |      |  |      |
|  | Contract<br><b>Hatfield Business Park, Plot 4100</b>                                |      | Contract Ref:<br><b>747245</b>  |      |

# FULL SCALE SOAKAWAY TEST

Non-standard test

Soakaway Test - Position ID : SA04

## Plot of Depth of Water Below Ground Level Against Time



Pit start depth: = **2.03** m  
 Pit final depth: = **1.82** m  
 Effective depth,  $D_e$  = **0.78** m  
 Effective storage volume,  $V_{p75-25}$  = **0.4901** m<sup>3</sup>  
 Surface area,  $a_{p50}$  = **3.3606** m<sup>2</sup>  
 Time,  $t_{p75-25}$  = **30522** secs  
 Infiltration rate,  $f$  =  **$4.78 \times 10^{-6}$**  m/s

Please note test data was extrapolated to obtain  $t_{p75-tp25}$ .

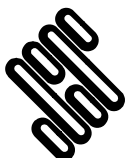
Legend

● Test 1 (22.03.17)

Plan (Not to scale)

No Bearing Taken

GINT\_LIBRARY\_V8\_06\_GLB.LibVersion: v8\_06\_018 ProjVersion: v8\_06 - Core+in Situ Testing - 005 | Graph 1 - TP SOAKAWAY - 2 - FINAL REPORT - A4P | 747245.GPJ - v8\_06 | 24/03/17 - 12:23 | MS4 |



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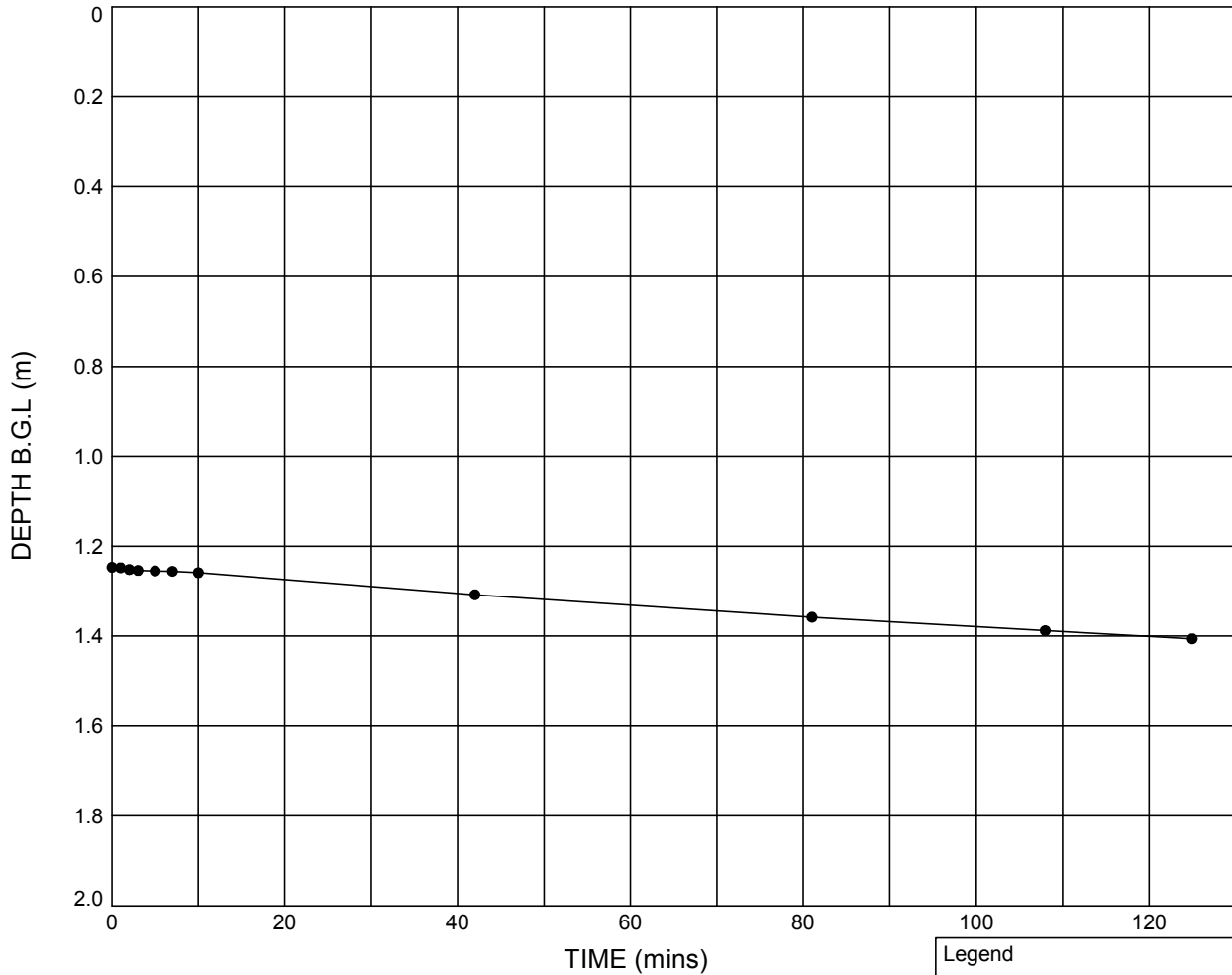
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|--|----------|---------------|----------|
| Compiled By                              | Date     | Checked By    | Date     |
| <i>MDStranger</i>                        | 24/03/17 | <i>S.A.R.</i> | 24/03/17 |
| Contract                                 |          | Contract Ref: |          |
| <b>Hatfield Business Park, Plot 4100</b> |          | <b>747245</b> |          |

# FULL SCALE SOAKAWAY TEST

Non-standard test

Soakaway Test - Position ID : SA05

## Plot of Depth of Water Below Ground Level Against Time



Pit start depth: = **2.03** m  
 Pit final depth: = **2.01** m  
 Effective depth,  $D_e$  = **0.76** m  
 Effective storage volume,  $V_{p75-25}$  = **0.5036** m<sup>3</sup>  
 Surface area,  $a_{p50}$  = **3.4564** m<sup>2</sup>  
 Time,  $t_{p75-25}$  = **21618** secs  
 Infiltration rate,  $f$  =  **$6.74 \times 10^{-6}$**  m/s

Please note test data was extrapolated to obtain  $t_{p75-tp25}$ .

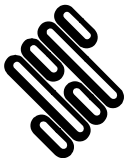

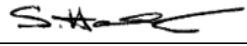
Legend

● Test 1 (22.03.17)

Plan (Not to scale)

No Bearing Taken

GINT\_LIBRARY\_V8\_06\_GLB.LibVersion: v8\_06\_018 ProjVersion: v8\_06 - Core+in Situ Testing - 005 | Graph 1 - TP SOAKAWAY - 2 - FINAL REPORT - A4P | 747245.GPJ - v8\_06 | 24/03/17 - 12:23 | MS4 |

|  |   |      |   |      |
|--|---|------|---|------|
|  <p><b>STRUCTURAL SOILS</b><br/>1a Princess Street<br/>Bedminster<br/>Bristol<br/>BS3 4AG</p> | Compiled By   | Date | Checked By  | Date |
|  |  |      |  |      |
|  | Contract<br><b>Hatfield Business Park, Plot 4100</b>                                |      | Contract Ref:<br><b>747245</b>  |      |

# **APPENDIX E**

## **MONITORING DATA**

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# IN-SITU GAS MONITORING RESULTS

| [Pressures] | Previous | During      | Start | End  | Equipment Used & Remarks                      |
|-------------|----------|-------------|-------|------|---|
| Round 1     | -        | Constant    | 999   | 999  | Ground: Dry + Wind: Light + Air Temp: 14DegC  |
| Round 2     | -        | Constant    | 1017  | 1017 | Ground: Dry + Wind: Medium + Air Temp: 9DegC  |
| Round 3     | -        | Constant    | 1016  | 1016 | Ground: Dry + Wind: Medium + Air Temp: 10DegC |
| Round 4     | -        | Fluctuating | 1026  | 1027 | Ground: Dry + Wind: Medium + Air Temp: 16DegC |

| Exploratory Position ID | Pipe ref | Pipe diameter (mm) | Monitoring Round | Reported Installation Depth (m) | Measured Installation Depth (mbgl) | Response Zone  | Date & Time of Monitoring (elapsed time) | Borehole Pressure (mb) | Atmos Pressure (mb) | Gas Flow (l/hr)     | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------|----------|--------------------|------------------|---------------------------------|------------------------------------|----------------|--|------------------------|---------------------|---------------------|--------------------|--------------------------|-------------------|------------------|---------|-----------------------|-------------------------|
| BH01                    | 1        | 50                 | 1                | 13.00                           | ---                                | 10.00 to 13.00 | 31/03/2017 12:11:00                      | 999                    | 999                 | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH01                    | 1        | 50                 | 1                |                                 | ---                                | 10.00 to 13.00 | 30 secs                                  | -                      | -                   | 0.1 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH01                    | 1        | 50                 | 1                | 13.00                           | ---                                | 10.00 to 13.00 | 31/03/2017 12:12:00                      | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 1                |                                 | ---                                | 10.00 to 13.00 | 15 secs                                  | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.9             | 0.0     | 7.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 1                |                                 | ---                                | 10.00 to 13.00 | 30 secs                                  | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.9             | 0.0     | 6.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 1                |                                 | ---                                | 10.00 to 13.00 | 60 secs                                  | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.9             | 0.0     | 4.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 1                |                                 | ---                                | 10.00 to 13.00 | 90 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 4.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 1                |                                 | ---                                | 10.00 to 13.00 | 120 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 3.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 1                |                                 | ---                                | 10.00 to 13.00 | 180 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 4.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 1                |                                 | ---                                | 10.00 to 13.00 | 240 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 4.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 1                |                                 | ---                                | 10.00 to 13.00 | 300 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 4.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 1                |                                 | 12.70                              | 10.00 to 13.00 | 360 secs                                 | -                      | -                   | -                   | 5.99               | -                        | -                 | -                | -       | -                     | -                       |
| BH01                    | 1        | 50                 | 2                | 13.00                           | ---                                | 10.00 to 13.00 | 07/04/2017 09:58:00                      | 1017                   | 1017                | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH01                    | 1        | 50                 | 2                |                                 | ---                                | 10.00 to 13.00 | 30 secs                                  | -                      | -                   | 0.1 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH01                    | 1        | 50                 | 2                | 13.00                           | ---                                | 10.00 to 13.00 | 07/04/2017 09:59:00                      | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 2                |                                 | ---                                | 10.00 to 13.00 | 15 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 1.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 2                |                                 | ---                                | 10.00 to 13.00 | 30 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 2                |                                 | ---                                | 10.00 to 13.00 | 60 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

|  |             |      |                 |      |                                    |
|--|-------------|------|-----------------|------|------------------------------------|
| <b>RSK Environment Ltd</b><br>Abbey Park<br>Humber Road<br>Coventry<br>CV3 4AQ | Compiled By | Date | Checked By      | Date | Contract Ref:<br><br><b>313586</b> |
|  |             |      | <b>26/04/17</b> |      |                                    |
| Contract: <b>Plot 4100 Hatfield Business Park</b>                              |             |      |                 |      | Page:<br><br><b>1 of 11</b>        |


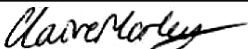




# IN-SITU GAS MONITORING RESULTS

| Exploratory Position ID | Pipe ref | Pipe diameter (mm) | Monitoring Round | Reported Installation Depth (m) | Measured Installation Depth (mbgl) | Response Zone  | Date & Time of Monitoring (elapsed time) | Borehole Pressure (mb) | Atmos Pressure (mb) | Gas Flow (l/hr)     | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------|----------|--------------------|------------------|---------------------------------|------------------------------------|----------------|--|------------------------|---------------------|---------------------|--------------------|--------------------------|-------------------|------------------|---------|-----------------------|-------------------------|
| BH01                    | 1        | 50                 | 2                |                                 | ---                                | 10.00 to 13.00 | 90 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 1.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 2                |                                 | ---                                | 10.00 to 13.00 | 120 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 2                |                                 | ---                                | 10.00 to 13.00 | 180 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 2                |                                 | ---                                | 10.00 to 13.00 | 240 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 2                |                                 | ---                                | 10.00 to 13.00 | 300 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 2                |                                 | 12.70                              | 10.00 to 13.00 | 360 secs                                 | -                      | -                   | -                   | 5.99               | -                        | -                 | -                | -       | -                     | -                       |
| BH01                    | 1        | 50                 | 3                | 13.00                           | ---                                | 10.00 to 13.00 | 10/04/2017 12:48:00                      | 1016                   | 1016                | 0.1 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH01                    | 1        | 50                 | 3                |                                 | ---                                | 10.00 to 13.00 | 30 secs                                  | -                      | -                   | 0.1 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH01                    | 1        | 50                 | 3                | 13.00                           | ---                                | 10.00 to 13.00 | 10/04/2017 12:49:00                      | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 3                |                                 | ---                                | 10.00 to 13.00 | 15 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.7             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 3                |                                 | ---                                | 10.00 to 13.00 | 30 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.6             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 3                |                                 | ---                                | 10.00 to 13.00 | 60 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 2.1              | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 3                |                                 | ---                                | 10.00 to 13.00 | 90 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 3                |                                 | ---                                | 10.00 to 13.00 | 120 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 3                |                                 | ---                                | 10.00 to 13.00 | 180 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 3                |                                 | ---                                | 10.00 to 13.00 | 240 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 3                |                                 | ---                                | 10.00 to 13.00 | 300 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 3                |                                 | 12.70                              | 10.00 to 13.00 | 360 secs                                 | -                      | -                   | -                   | 6.00               | -                        | -                 | -                | -       | -                     | -                       |
| BH01                    | 1        | 50                 | 4                | 13.00                           | ---                                | 10.00 to 13.00 | 20/04/2017 15:05:00                      | 1026                   | 1026                | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH01                    | 1        | 50                 | 4                |                                 | ---                                | 10.00 to 13.00 | 30 secs                                  | -                      | -                   | 0.1 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH01                    | 1        | 50                 | 4                | 13.00                           | ---                                | 10.00 to 13.00 | 20/04/2017 15:06:00                      | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 4                |                                 | ---                                | 10.00 to 13.00 | 15 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.5             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 4                |                                 | ---                                | 10.00 to 13.00 | 30 secs                                  | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.4             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 4                |                                 | ---                                | 10.00 to 13.00 | 60 secs                                  | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.4             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 4                |                                 | ---                                | 10.00 to 13.00 | 90 secs                                  | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.4             | 0.0     | 0.0                   | 0.0                     |

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.


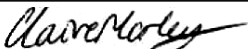
|  |  |                 |            |      |                                    |
|--|--|-----------------|------------|------|------------------------------------|
| <br><b>RSK Environment Ltd</b><br>Abbey Park<br>Humber Road<br>Coventry<br>CV3 4AQ | Compiled By  | Date            | Checked By | Date | Contract Ref:<br><br><b>313586</b> |
|  | <br>Contract: | <b>26/04/17</b> |            |      |                                    |
| <b>Plot 4100 Hatfield Business Park</b>  |  |                 |            |      | Page:<br><br><b>2 of 11</b>        |



# IN-SITU GAS MONITORING RESULTS

| Exploratory Position ID | Pipe ref | Pipe diameter (mm) | Monitoring Round | Reported Installation Depth (m) | Measured Installation Depth (mbgl) | Response Zone  | Date & Time of Monitoring (elapsed time) | Borehole Pressure (mb) | Atmos Pressure (mb) | Gas Flow (l/hr)     | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------|----------|--------------------|------------------|---------------------------------|------------------------------------|----------------|--|------------------------|---------------------|---------------------|--------------------|--------------------------|-------------------|------------------|---------|-----------------------|-------------------------|
| BH01                    | 1        | 50                 | 4                |                                 | ---                                | 10.00 to 13.00 | 120 secs                                 | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.4             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 4                |                                 | ---                                | 10.00 to 13.00 | 180 secs                                 | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.4             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 4                |                                 | ---                                | 10.00 to 13.00 | 240 secs                                 | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.4             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 4                |                                 | ---                                | 10.00 to 13.00 | 300 secs                                 | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.4             | 0.0     | 0.0                   | 0.0                     |
| BH01                    | 1        | 50                 | 4                |                                 | 12.72                              | 10.00 to 13.00 | 360 secs                                 | -                      | -                   | -                   | 6.01               | -                        | -                 | -                | -       | -                     | -                       |
| BH02                    | 1        | 50                 | 1                | 14.00                           | ---                                | 11.00 to 14.00 | 31/03/2017 12:22:00                      | 999                    | 999                 | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH02                    | 1        | 50                 | 1                |                                 | ---                                | 11.00 to 14.00 | 30 secs                                  | -                      | -                   | 0.0 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH02                    | 1        | 50                 | 1                | 14.00                           | ---                                | 11.00 to 14.00 | 31/03/2017 12:23:00                      | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 1                |                                 | ---                                | 11.00 to 14.00 | 15 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.0             | 0.0     | 3.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 1                |                                 | ---                                | 11.00 to 14.00 | 30 secs                                  | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 21.0             | 0.0     | 3.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 1                |                                 | ---                                | 11.00 to 14.00 | 60 secs                                  | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.9             | 0.0     | 3.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 1                |                                 | ---                                | 11.00 to 14.00 | 90 secs                                  | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.9             | 0.0     | 3.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 1                |                                 | ---                                | 11.00 to 14.00 | 120 secs                                 | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.9             | 0.0     | 3.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 1                |                                 | ---                                | 11.00 to 14.00 | 180 secs                                 | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.9             | 0.0     | 3.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 1                |                                 | ---                                | 11.00 to 14.00 | 240 secs                                 | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.9             | 0.0     | 2.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 1                |                                 | ---                                | 11.00 to 14.00 | 300 secs                                 | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.9             | 0.0     | 2.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 1                |                                 | 12.74                              | 11.00 to 14.00 | 360 secs                                 | -                      | -                   | -                   | 6.12               | -                        | -                 | -                | -       | -                     | -                       |
| BH02                    | 1        | 50                 | 2                | 14.00                           | ---                                | 11.00 to 14.00 | 07/04/2017 10:09:00                      | 1017                   | 1017                | -0.1 <sub>(I)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH02                    | 1        | 50                 | 2                |                                 | ---                                | 11.00 to 14.00 | 30 secs                                  | -                      | -                   | 0.1 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH02                    | 1        | 50                 | 2                | 14.00                           | ---                                | 11.00 to 14.00 | 07/04/2017 10:10:00                      | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 2                |                                 | ---                                | 11.00 to 14.00 | 15 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.0             | 0.0     | 1.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 2                |                                 | ---                                | 11.00 to 14.00 | 30 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.0             | 0.0     | 1.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 2                |                                 | ---                                | 11.00 to 14.00 | 60 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.1             | 0.0     | 1.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 2                |                                 | ---                                | 11.00 to 14.00 | 90 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |


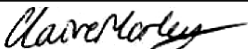

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

|  |  |                 |   |                |                                    |
|--|--|-----------------|---|----------------|------------------------------------|
| <br><b>RSK Environment Ltd</b><br>Abbey Park<br>Humber Road<br>Coventry<br>CV3 4AQ | Compiled By  | Date            | Checked By                              | Date           | Contract Ref:<br><br><b>313586</b> |
|  | <br>Contract: | <b>26/04/17</b> | <b>Plot 4100 Hatfield Business Park</b> | <b>3 of 11</b> |                                    |

# IN-SITU GAS MONITORING RESULTS

| Exploratory Position ID | Pipe ref | Pipe diameter (mm) | Monitoring Round | Reported Installation Depth (m) | Measured Installation Depth (mbgl) | Response Zone  | Date & Time of Monitoring (elapsed time) | Borehole Pressure (mb) | Atmos Pressure (mb) | Gas Flow (l/hr)     | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------|----------|--------------------|------------------|---------------------------------|------------------------------------|----------------|--|------------------------|---------------------|---------------------|--------------------|--------------------------|-------------------|------------------|---------|-----------------------|-------------------------|
| BH02                    | 1        | 50                 | 2                |                                 | ---                                | 11.00 to 14.00 | 120 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 2                |                                 | ---                                | 11.00 to 14.00 | 180 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.1             | 0.0     | 1.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 2                |                                 | ---                                | 11.00 to 14.00 | 240 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 2                |                                 | ---                                | 11.00 to 14.00 | 300 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 2                |                                 | 12.73                              | 11.00 to 14.00 | 360 secs                                 | -                      | -                   | -                   | 6.14               | -                        | -                 | -                | -       | -                     | -                       |
| BH02                    | 1        | 50                 | 3                | 14.00                           | ---                                | 11.00 to 14.00 | 10/04/2017 12:58:00                      | 1016                   | 1016                | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH02                    | 1        | 50                 | 3                |                                 | ---                                | 11.00 to 14.00 | 30 secs                                  | -                      | -                   | 0.1 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH02                    | 1        | 50                 | 3                | 14.00                           | ---                                | 11.00 to 14.00 | 10/04/2017 12:59:00                      | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 3                |                                 | ---                                | 11.00 to 14.00 | 15 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.0             | 0.0     | 1.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 3                |                                 | ---                                | 11.00 to 14.00 | 30 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.0             | 0.0     | 1.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 3                |                                 | ---                                | 11.00 to 14.00 | 60 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.0             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 3                |                                 | ---                                | 11.00 to 14.00 | 90 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.0             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 3                |                                 | ---                                | 11.00 to 14.00 | 120 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 3                |                                 | ---                                | 11.00 to 14.00 | 180 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 3                |                                 | ---                                | 11.00 to 14.00 | 240 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 3                |                                 | ---                                | 11.00 to 14.00 | 300 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 3                |                                 | 12.74                              | 11.00 to 14.00 | 360 secs                                 | -                      | -                   | -                   | 6.14               | -                        | -                 | -                | -       | -                     | -                       |
| BH02                    | 1        | 50                 | 4                | 14.00                           | ---                                | 11.00 to 14.00 | 20/04/2017 15:17:00                      | 1027                   | 1027                | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH02                    | 1        | 50                 | 4                |                                 | ---                                | 11.00 to 14.00 | 30 secs                                  | -                      | -                   | 0.2 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH02                    | 1        | 50                 | 4                | 14.00                           | ---                                | 11.00 to 14.00 | 20/04/2017 15:18:00                      | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 4                |                                 | ---                                | 11.00 to 14.00 | 15 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 4                |                                 | ---                                | 11.00 to 14.00 | 30 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 4                |                                 | ---                                | 11.00 to 14.00 | 60 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 4                |                                 | ---                                | 11.00 to 14.00 | 90 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 4                |                                 | ---                                | 11.00 to 14.00 | 120 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |



Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

|  |  |                 |            |      |   |
|--|--|-----------------|------------|------|---|
| <br><b>RSK Environment Ltd</b><br>Abbey Park<br>Humber Road<br>Coventry<br>CV3 4AQ | Compiled By  | Date            | Checked By | Date | Contract Ref:<br><br><b>313586</b>  |
|  | <br>Contract: | <b>26/04/17</b> |            |      |   |
| <b>Plot 4100 Hatfield Business Park</b>  |  |                 |            |      |  |

## IN-SITU GAS MONITORING RESULTS

| Exploratory Position ID | Pipe ref | Pipe diameter (mm) | Monitoring Round | Reported Installation Depth (m) | Measured Installation Depth (mbgl) | Response Zone  | Date & Time of Monitoring (elapsed time) | Borehole Pressure (mb) | Atmos Pressure (mb) | Gas Flow (l/hr)     | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------|----------|--------------------|------------------|---------------------------------|------------------------------------|----------------|--|------------------------|---------------------|---------------------|--------------------|--------------------------|-------------------|------------------|---------|-----------------------|-------------------------|
| BH02                    | 1        | 50                 | 4                |                                 | ---                                | 11.00 to 14.00 | 180 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 4                |                                 | ---                                | 11.00 to 14.00 | 240 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 4                |                                 | ---                                | 11.00 to 14.00 | 300 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH02                    | 1        | 50                 | 4                |                                 | 12.99                              | 11.00 to 14.00 | 360 secs                                 | -                      | -                   | -                   | 6.40               | -                        | -                 | -                | -       | -                     | -                       |
| BH03                    | 1        | 50                 | 1                | 1.00                            | ---                                | 0.50 to 1.00   | 31/03/2017 12:38:00                      | 1002                   | 999                 | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH03                    | 1        | 50                 | 1                |                                 | ---                                | 0.50 to 1.00   | 30 secs                                  | -                      | -                   | 0.1 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH03                    | 1        | 50                 | 1                | 1.00                            | ---                                | 0.50 to 1.00   | 31/03/2017 12:39:00                      | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 1                |                                 | ---                                | 0.50 to 1.00   | 15 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.1             | 0.0     | 5.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 1                |                                 | ---                                | 0.50 to 1.00   | 30 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.7             | 0.0     | 5.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 1                |                                 | ---                                | 0.50 to 1.00   | 60 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.9             | 0.0     | 2.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 1                |                                 | ---                                | 0.50 to 1.00   | 90 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.1             | 0.0     | 1.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 1                |                                 | ---                                | 0.50 to 1.00   | 120 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.1             | 0.0     | 1.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 1                |                                 | ---                                | 0.50 to 1.00   | 180 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.2             | 0.0     | 1.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 1                |                                 | ---                                | 0.50 to 1.00   | 240 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.2             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 1                |                                 | ---                                | 0.50 to 1.00   | 300 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.2             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 1                |                                 | 1.13                               | 0.50 to 1.00   | 360 secs                                 | -                      | -                   | -                   | 0.55               | -                        | -                 | -                | -       | -                     | -                       |
| BH03                    | 1        | 50                 | 2                | 1.00                            | ---                                | 0.50 to 1.00   | 07/04/2017 10:19:00                      | 1017                   | 1017                | -0.1 <sub>(I)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH03                    | 1        | 50                 | 2                |                                 | ---                                | 0.50 to 1.00   | 30 secs                                  | -                      | -                   | 0.0 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH03                    | 1        | 50                 | 2                | 1.00                            | ---                                | 0.50 to 1.00   | 07/04/2017 10:20:00                      | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 2                |                                 | ---                                | 0.50 to 1.00   | 15 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.0             | 0.0     | 1.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 2                |                                 | ---                                | 0.50 to 1.00   | 30 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.1             | 0.0     | 1.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 2                |                                 | ---                                | 0.50 to 1.00   | 60 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.2             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 2                |                                 | ---                                | 0.50 to 1.00   | 90 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.3             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 2                |                                 | ---                                | 0.50 to 1.00   | 120 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.3             | 0.0     | 0.0                   | 0.0                     |

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.


|  |  |                 |   |      |                                    |
|--|--|-----------------|---|------|------------------------------------|
| <br><b>RSK Environment Ltd</b><br>Abbey Park<br>Humber Road<br>Coventry<br>CV3 4AQ | Compiled By  | Date            | Checked By                              | Date | Contract Ref:<br><br><b>313586</b> |
|  | <br>Contract: | <b>26/04/17</b> | <b>Plot 4100 Hatfield Business Park</b> |      |                                    |



# IN-SITU GAS MONITORING RESULTS

| Exploratory Position ID | Pipe ref | Pipe diameter (mm) | Monitoring Round | Reported Installation Depth (m) | Measured Installation Depth (mbgl) | Response Zone | Date & Time of Monitoring (elapsed time) | Borehole Pressure (mb) | Atmos Pressure (mb) | Gas Flow (l/hr)     | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------|----------|--------------------|------------------|---------------------------------|------------------------------------|---------------|--|------------------------|---------------------|---------------------|--------------------|--------------------------|-------------------|------------------|---------|-----------------------|-------------------------|
| BH03                    | 1        | 50                 | 2                |                                 | ---                                | 0.50 to 1.00  | 180 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.3             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 2                |                                 | ---                                | 0.50 to 1.00  | 240 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.3             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 2                |                                 | ---                                | 0.50 to 1.00  | 300 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.3             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 2                |                                 | 1.13                               | 0.50 to 1.00  | 360 secs                                 | -                      | -                   | -                   | 0.63               | -                        | -                 | -                | -       | -                     | -                       |
| BH03                    | 1        | 50                 | 3                | 1.00                            | ---                                | 0.50 to 1.00  | 10/04/2017 13:07:00                      | 1016                   | 1016                | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH03                    | 1        | 50                 | 3                |                                 | ---                                | 0.50 to 1.00  | 30 secs                                  | -                      | -                   | 0.1 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH03                    | 1        | 50                 | 3                | 1.00                            | ---                                | 0.50 to 1.00  | 10/04/2017 13:08:00                      | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 3                |                                 | ---                                | 0.50 to 1.00  | 15 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.9             | 0.0     | 1.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 3                |                                 | ---                                | 0.50 to 1.00  | 30 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 3                |                                 | ---                                | 0.50 to 1.00  | 60 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 3                |                                 | ---                                | 0.50 to 1.00  | 90 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 3                |                                 | ---                                | 0.50 to 1.00  | 120 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.0             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 3                |                                 | ---                                | 0.50 to 1.00  | 180 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.0             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 3                |                                 | ---                                | 0.50 to 1.00  | 240 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.0             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 3                |                                 | ---                                | 0.50 to 1.00  | 300 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.0             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 3                |                                 | 1.13                               | 0.50 to 1.00  | 360 secs                                 | -                      | -                   | -                   | 0.66               | -                        | -                 | -                | -       | -                     | -                       |
| BH03                    | 1        | 50                 | 4                | 1.00                            | ---                                | 0.50 to 1.00  | 20/04/2017 15:33:00                      | 1026                   | 1026                | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH03                    | 1        | 50                 | 4                |                                 | ---                                | 0.50 to 1.00  | 30 secs                                  | -                      | -                   | 0.0 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH03                    | 1        | 50                 | 4                | 1.00                            | ---                                | 0.50 to 1.00  | 20/04/2017 15:34:00                      | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 4                |                                 | ---                                | 0.50 to 1.00  | 15 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 4                |                                 | ---                                | 0.50 to 1.00  | 30 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 4                |                                 | ---                                | 0.50 to 1.00  | 60 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 4                |                                 | ---                                | 0.50 to 1.00  | 90 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 4                |                                 | ---                                | 0.50 to 1.00  | 120 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 4                |                                 | ---                                | 0.50 to 1.00  | 180 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.




|  |   |      |            |      |                                    |
|--|---|------|------------|------|------------------------------------|
| <br><b>RSK Environment Ltd</b><br>Abbey Park<br>Humber Road<br>Coventry<br>CV3 4AQ | Compiled By                                       | Date | Checked By | Date | Contract Ref:<br><br><b>313586</b> |
|  | Contract: <b>Plot 4100 Hatfield Business Park</b> |      |            |      |                                    |



## IN-SITU GAS MONITORING RESULTS

| Exploratory Position ID | Pipe ref | Pipe diameter (mm) | Monitoring Round | Reported Installation Depth (m) | Measured Installation Depth (mbgl) | Response Zone | Date & Time of Monitoring (elapsed time) | Borehole Pressure (mb) | Atmos Pressure (mb) | Gas Flow (l/hr)     | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------|----------|--------------------|------------------|---------------------------------|------------------------------------|---------------|--|------------------------|---------------------|---------------------|--------------------|--------------------------|-------------------|------------------|---------|-----------------------|-------------------------|
| BH03                    | 1        | 50                 | 4                |                                 | ---                                | 0.50 to 1.00  | 240 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 4                |                                 | ---                                | 0.50 to 1.00  | 300 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH03                    | 1        | 50                 | 4                |                                 | 1.16                               | 0.50 to 1.00  | 360 secs                                 | -                      | -                   | -                   | 0.73               | -                        | -                 | -                | -       | -                     | -                       |
| BH04                    | 1        | 50                 | 1                | 13.00                           | ---                                | 9.00 to 13.00 | 31/03/2017 12:51:00                      | 999                    | 999                 | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH04                    | 1        | 50                 | 1                |                                 | ---                                | 9.00 to 13.00 | 30 secs                                  | -                      | -                   | 0.1 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH04                    | 1        | 50                 | 1                | 13.00                           | ---                                | 9.00 to 13.00 | 31/03/2017 12:52:00                      | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 1                |                                 | ---                                | 9.00 to 13.00 | 15 secs                                  | -                      | -                   | -                   | -                  | 0.3                      | 0.0               | 20.9             | 0.0     | 5.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 1                |                                 | ---                                | 9.00 to 13.00 | 30 secs                                  | -                      | -                   | -                   | -                  | 0.3                      | 0.0               | 20.8             | 0.0     | 5.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 1                |                                 | ---                                | 9.00 to 13.00 | 60 secs                                  | -                      | -                   | -                   | -                  | 0.3                      | 0.0               | 20.9             | 0.0     | 4.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 1                |                                 | ---                                | 9.00 to 13.00 | 90 secs                                  | -                      | -                   | -                   | -                  | 0.3                      | 0.0               | 21.0             | 0.0     | 4.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 1                |                                 | ---                                | 9.00 to 13.00 | 120 secs                                 | -                      | -                   | -                   | -                  | 0.3                      | 0.0               | 21.0             | 0.0     | 4.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 1                |                                 | ---                                | 9.00 to 13.00 | 180 secs                                 | -                      | -                   | -                   | -                  | 0.3                      | 0.0               | 21.0             | 0.0     | 3.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 1                |                                 | ---                                | 9.00 to 13.00 | 240 secs                                 | -                      | -                   | -                   | -                  | 0.3                      | 0.0               | 21.0             | 0.0     | 3.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 1                |                                 | ---                                | 9.00 to 13.00 | 300 secs                                 | -                      | -                   | -                   | -                  | 0.3                      | 0.0               | 21.0             | 0.0     | 3.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 1                |                                 | 11.82                              | 9.00 to 13.00 | 360 secs                                 | -                      | -                   | -                   | 7.16               | -                        | -                 | -                | -       | -                     | -                       |
| BH04                    | 1        | 50                 | 2                | 13.00                           | ---                                | 9.00 to 13.00 | 07/04/2017 10:37:00                      | 1017                   | 1017                | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH04                    | 1        | 50                 | 2                |                                 | ---                                | 9.00 to 13.00 | 30 secs                                  | -                      | -                   | 0.1 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH04                    | 1        | 50                 | 2                | 13.00                           | ---                                | 9.00 to 13.00 | 07/04/2017 10:38:00                      | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 2                |                                 | ---                                | 9.00 to 13.00 | 15 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.0             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 2                |                                 | ---                                | 9.00 to 13.00 | 30 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.0             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 2                |                                 | ---                                | 9.00 to 13.00 | 60 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.0             | 0.0     | 1.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 2                |                                 | ---                                | 9.00 to 13.00 | 90 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.0             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 2                |                                 | ---                                | 9.00 to 13.00 | 120 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.0             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 2                |                                 | ---                                | 9.00 to 13.00 | 180 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.1             | 0.0     | 1.0                   | 0.0                     |




Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

|  |  |                 |            |      |   |
|--|--|-----------------|------------|------|---|
| <br><b>RSK Environment Ltd</b><br>Abbey Park<br>Humber Road<br>Coventry<br>CV3 4AQ | Compiled By  | Date            | Checked By | Date | Contract Ref:<br><br><b>313586</b>  |
|  | <br>Contract: | <b>26/04/17</b> |            |      |   |
| <b>Plot 4100 Hatfield Business Park</b>  |  |                 |            |      |  |

## IN-SITU GAS MONITORING RESULTS

| Exploratory Position ID | Pipe ref | Pipe diameter (mm) | Monitoring Round | Reported Installation Depth (m) | Measured Installation Depth (mbgl) | Response Zone | Date & Time of Monitoring (elapsed time) | Borehole Pressure (mb) | Atmos Pressure (mb) | Gas Flow (l/hr)     | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------|----------|--------------------|------------------|---------------------------------|------------------------------------|---------------|--|------------------------|---------------------|---------------------|--------------------|--------------------------|-------------------|------------------|---------|-----------------------|-------------------------|
| BH04                    | 1        | 50                 | 2                |                                 | ---                                | 9.00 to 13.00 | 240 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 2                |                                 | ---                                | 9.00 to 13.00 | 300 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 2                |                                 | 11.81                              | 9.00 to 13.00 | 360 secs                                 | -                      | -                   | -                   | 7.17               | -                        | -                 | -                | -       | -                     | -                       |
| BH04                    | 1        | 50                 | 3                | 13.00                           | ---                                | 9.00 to 13.00 | 10/04/2017 13:24:00                      | 1016                   | 1016                | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH04                    | 1        | 50                 | 3                |                                 | ---                                | 9.00 to 13.00 | 30 secs                                  | -                      | -                   | 0.1 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH04                    | 1        | 50                 | 3                | 13.00                           | ---                                | 9.00 to 13.00 | 10/04/2017 13:25:00                      | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 3                |                                 | ---                                | 9.00 to 13.00 | 15 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 3                |                                 | ---                                | 9.00 to 13.00 | 30 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 3                |                                 | ---                                | 9.00 to 13.00 | 60 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 3                |                                 | ---                                | 9.00 to 13.00 | 90 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 3                |                                 | ---                                | 9.00 to 13.00 | 120 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 3                |                                 | ---                                | 9.00 to 13.00 | 180 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 3                |                                 | ---                                | 9.00 to 13.00 | 240 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 3                |                                 | ---                                | 9.00 to 13.00 | 300 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 3                |                                 | 11.82                              | 9.00 to 13.00 | 360 secs                                 | -                      | -                   | -                   | 7.17               | -                        | -                 | -                | -       | -                     | -                       |
| BH04                    | 1        | 50                 | 4                | 13.00                           | ---                                | 9.00 to 13.00 | 20/04/2017 15:55:00                      | 1027                   | 1027                | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH04                    | 1        | 50                 | 4                |                                 | ---                                | 9.00 to 13.00 | 30 secs                                  | -                      | -                   | 0.0 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH04                    | 1        | 50                 | 4                | 13.00                           | ---                                | 9.00 to 13.00 | 20/04/2017 15:56:00                      | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 4                |                                 | ---                                | 9.00 to 13.00 | 15 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 4                |                                 | ---                                | 9.00 to 13.00 | 30 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 4                |                                 | ---                                | 9.00 to 13.00 | 60 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 4                |                                 | ---                                | 9.00 to 13.00 | 90 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 4                |                                 | ---                                | 9.00 to 13.00 | 120 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 4                |                                 | ---                                | 9.00 to 13.00 | 180 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 4                |                                 | ---                                | 9.00 to 13.00 | 240 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |




Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

|  |  |                 |            |      |   |
|--|--|-----------------|------------|------|---|
| <br><b>RSK Environment Ltd</b><br>Abbey Park<br>Humber Road<br>Coventry<br>CV3 4AQ | Compiled By  | Date            | Checked By | Date | Contract Ref:<br><br><b>313586</b>  |
|  | <br>Contract: | <b>26/04/17</b> |            |      |   |
| <b>Plot 4100 Hatfield Business Park</b>  |  |                 |            |      |  |

## IN-SITU GAS MONITORING RESULTS

| Exploratory Position ID | Pipe ref | Pipe diameter (mm) | Monitoring Round | Reported Installation Depth (m) | Measured Installation Depth (mbgl) | Response Zone | Date & Time of Monitoring (elapsed time) | Borehole Pressure (mb) | Atmos Pressure (mb) | Gas Flow (l/hr)     | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------|----------|--------------------|------------------|---------------------------------|------------------------------------|---------------|--|------------------------|---------------------|---------------------|--------------------|--------------------------|-------------------|------------------|---------|-----------------------|-------------------------|
| BH04                    | 1        | 50                 | 4                |                                 | ---                                | 9.00 to 13.00 | 300 secs                                 | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH04                    | 1        | 50                 | 4                |                                 | 11.84                              | 9.00 to 13.00 | 360 secs                                 | -                      | -                   | -                   | 7.19               | -                        | -                 | -                | -       | -                     | -                       |
| BH05                    | 1        | 50                 | 1                | 8.00                            | ---                                | 5.00 to 8.00  | 31/03/2017 13:04:00                      | 999                    | 999                 | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH05                    | 1        | 50                 | 1                |                                 | ---                                | 5.00 to 8.00  | 30 secs                                  | -                      | -                   | 0.1 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH05                    | 1        | 50                 | 1                | 8.00                            | ---                                | 5.00 to 8.00  | 31/03/2017 13:05:00                      | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 1                |                                 | ---                                | 5.00 to 8.00  | 15 secs                                  | -                      | -                   | -                   | -                  | 0.4                      | 0.0               | 20.7             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 1                |                                 | ---                                | 5.00 to 8.00  | 30 secs                                  | -                      | -                   | -                   | -                  | 0.4                      | 0.0               | 20.3             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 1                |                                 | ---                                | 5.00 to 8.00  | 60 secs                                  | -                      | -                   | -                   | -                  | 0.4                      | 0.0               | 20.2             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 1                |                                 | ---                                | 5.00 to 8.00  | 90 secs                                  | -                      | -                   | -                   | -                  | 0.4                      | 0.0               | 20.2             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 1                |                                 | ---                                | 5.00 to 8.00  | 120 secs                                 | -                      | -                   | -                   | -                  | 0.5                      | 0.0               | 20.2             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 1                |                                 | ---                                | 5.00 to 8.00  | 180 secs                                 | -                      | -                   | -                   | -                  | 0.5                      | 0.0               | 20.1             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 1                |                                 | ---                                | 5.00 to 8.00  | 240 secs                                 | -                      | -                   | -                   | -                  | 0.5                      | 0.0               | 20.1             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 1                |                                 | ---                                | 5.00 to 8.00  | 300 secs                                 | -                      | -                   | -                   | -                  | 0.5                      | 0.0               | 20.1             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 1                |                                 | 7.89                               | 5.00 to 8.00  | 360 secs                                 | -                      | -                   | -                   | 7.29               | -                        | -                 | -                | -       | -                     | -                       |
| BH05                    | 1        | 50                 | 2                | 8.00                            | ---                                | 5.00 to 8.00  | 07/04/2017 10:27:00                      | 1017                   | 1017                | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH05                    | 1        | 50                 | 2                |                                 | ---                                | 5.00 to 8.00  | 30 secs                                  | -                      | -                   | 0.0 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH05                    | 1        | 50                 | 2                | 8.00                            | ---                                | 5.00 to 8.00  | 07/04/2017 10:28:00                      | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 2                |                                 | ---                                | 5.00 to 8.00  | 15 secs                                  | -                      | -                   | -                   | -                  | 1.6                      | 0.0               | 19.7             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 2                |                                 | ---                                | 5.00 to 8.00  | 30 secs                                  | -                      | -                   | -                   | -                  | 1.6                      | 0.0               | 18.0             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 2                |                                 | ---                                | 5.00 to 8.00  | 60 secs                                  | -                      | -                   | -                   | -                  | 1.6                      | 0.0               | 17.7             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 2                |                                 | ---                                | 5.00 to 8.00  | 90 secs                                  | -                      | -                   | -                   | -                  | 1.6                      | 0.0               | 17.7             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 2                |                                 | ---                                | 5.00 to 8.00  | 120 secs                                 | -                      | -                   | -                   | -                  | 1.6                      | 0.0               | 17.6             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 2                |                                 | ---                                | 5.00 to 8.00  | 180 secs                                 | -                      | -                   | -                   | -                  | 1.7                      | 0.0               | 17.6             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 2                |                                 | ---                                | 5.00 to 8.00  | 240 secs                                 | -                      | -                   | -                   | -                  | 1.7                      | 0.0               | 17.5             | 0.0     | 1.0                   | 0.0                     |

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.




|  |  |                 |            |      |   |
|--|--|-----------------|------------|------|---|
| <br><b>RSK Environment Ltd</b><br>Abbey Park<br>Humber Road<br>Coventry<br>CV3 4AQ | Compiled By  | Date            | Checked By | Date | Contract Ref:<br><br><b>313586</b>  |
|  | <br>Contract: | <b>26/04/17</b> |            |      |   |
| <b>Plot 4100 Hatfield Business Park</b>  |  |                 |            |      |  |



# IN-SITU GAS MONITORING RESULTS

| Exploratory Position ID | Pipe ref | Pipe diameter (mm) | Monitoring Round | Reported Installation Depth (m) | Measured Installation Depth (mbgl) | Response Zone | Date & Time of Monitoring (elapsed time) | Borehole Pressure (mb) | Atmos Pressure (mb) | Gas Flow (l/hr)     | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------|----------|--------------------|------------------|---------------------------------|------------------------------------|---------------|--|------------------------|---------------------|---------------------|--------------------|--------------------------|-------------------|------------------|---------|-----------------------|-------------------------|
| BH05                    | 1        | 50                 | 2                |                                 | ---                                | 5.00 to 8.00  | 300 secs                                 | -                      | -                   | -                   | -                  | 1.7                      | 0.0               | 17.5             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 2                |                                 | 7.89                               | 5.00 to 8.00  | 360 secs                                 | -                      | -                   | -                   | 7.30               | -                        | -                 | -                | -       | -                     | -                       |
| BH05                    | 1        | 50                 | 3                | 8.00                            | ---                                | 5.00 to 8.00  | 10/04/2017 13:15:00                      | 1016                   | 1016                | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH05                    | 1        | 50                 | 3                |                                 | ---                                | 5.00 to 8.00  | 30 secs                                  | -                      | -                   | 0.1 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH05                    | 1        | 50                 | 3                | 8.00                            | ---                                | 5.00 to 8.00  | 10/04/2017 13:16:00                      | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.9             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 3                |                                 | ---                                | 5.00 to 8.00  | 15 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.0             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 3                |                                 | ---                                | 5.00 to 8.00  | 30 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 21.0             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 3                |                                 | ---                                | 5.00 to 8.00  | 60 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 3                |                                 | ---                                | 5.00 to 8.00  | 90 secs                                  | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 3                |                                 | ---                                | 5.00 to 8.00  | 120 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 3                |                                 | ---                                | 5.00 to 8.00  | 180 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 3                |                                 | ---                                | 5.00 to 8.00  | 240 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 3                |                                 | ---                                | 5.00 to 8.00  | 300 secs                                 | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 21.1             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 3                |                                 | 7.88                               | 5.00 to 8.00  | 360 secs                                 | -                      | -                   | -                   | 7.30               | -                        | -                 | -                | -       | -                     | -                       |
| BH05                    | 1        | 50                 | 4                | 8.00                            | ---                                | 5.00 to 8.00  | 20/04/2017 15:46:00                      | 1027                   | 1027                | 0.0 <sub>(I)</sub>  | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH05                    | 1        | 50                 | 4                |                                 | ---                                | 5.00 to 8.00  | 30 secs                                  | -                      | -                   | 0.0 <sub>(SS)</sub> | -                  | -                        | -                 | -                | -       | -                     | -                       |
| BH05                    | 1        | 50                 | 4                | 8.00                            | ---                                | 5.00 to 8.00  | 20/04/2017 15:47:00                      | -                      | -                   | -                   | -                  | 0.0                      | 0.0               | 20.8             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 4                |                                 | ---                                | 5.00 to 8.00  | 15 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.4             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 4                |                                 | ---                                | 5.00 to 8.00  | 30 secs                                  | -                      | -                   | -                   | -                  | 0.1                      | 0.0               | 20.4             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 4                |                                 | ---                                | 5.00 to 8.00  | 60 secs                                  | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.4             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 4                |                                 | ---                                | 5.00 to 8.00  | 90 secs                                  | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.4             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 4                |                                 | ---                                | 5.00 to 8.00  | 120 secs                                 | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.4             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 4                |                                 | ---                                | 5.00 to 8.00  | 180 secs                                 | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.4             | 0.0     | 0.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 4                |                                 | ---                                | 5.00 to 8.00  | 240 secs                                 | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.4             | 0.0     | 1.0                   | 0.0                     |
| BH05                    | 1        | 50                 | 4                |                                 | ---                                | 5.00 to 8.00  | 300 secs                                 | -                      | -                   | -                   | -                  | 0.2                      | 0.0               | 20.4             | 0.0     | 0.0                   | 0.0                     |


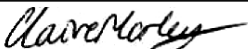

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

|  |  |                 |            |      |   |
|--|--|-----------------|------------|------|---|
| <br><b>RSK Environment Ltd</b><br>Abbey Park<br>Humber Road<br>Coventry<br>CV3 4AQ | Compiled By  | Date            | Checked By | Date | Contract Ref:<br><br><b>313586</b>  |
|  | <br>Contract: | <b>26/04/17</b> |            |      |   |
| <b>Plot 4100 Hatfield Business Park</b>  |  |                 |            |      |  |

# IN-SITU GAS MONITORING RESULTS

| Exploratory Position ID | Pipe ref | Pipe diameter (mm) | Monitoring Round | Reported Installation Depth (m) | Measured Installation Depth (mbgl) | Response Zone | Date & Time of Monitoring (elapsed time) | Borehole Pressure (mb) | Atmos Pressure (mb) | Gas Flow (l/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------|----------|--------------------|------------------|---------------------------------|------------------------------------|---------------|--|------------------------|---------------------|-----------------|--------------------|--------------------------|-------------------|------------------|---------|-----------------------|-------------------------|
| BH05                    | 1        | 50                 | 4                |                                 | 7.90                               | 5.00 to 8.00  | 360 secs                                 | -                      | -                   | -               | 7.32               | -                        | -                 | -                | -       | -                     | -                       |
|                         |          |                    |                  |                                 |                                    |               |  |                        |                     |                 |                    |                          |                   |                  |         |                       |                         |

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

|   |  |      |                 |      |   |
|---|--|------|-----------------|------|---|
|  <b>RSK Environment Ltd</b><br>Abbey Park<br>Humber Road<br>Coventry<br>CV3 4AQ | Compiled By  | Date | Checked By      | Date | Contract Ref:<br><br><b>313586</b>  |
|   | <br>Contract: |      | <b>26/04/17</b> |      |   |
| <b>Plot 4100 Hatfield Business Park</b>   |  |      |                 |      |  |



# **APPENDIX F**

## **LABORATORY CERTIFICATES**

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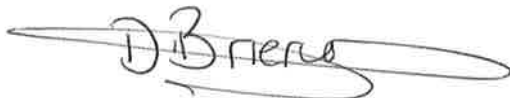
## FINAL ANALYTICAL TEST REPORT

**Envirolab Job Number:** 17/01911  
**Issue Number:** 1 **Date:** 24 March, 2017

**Client:** RSK Environment Ltd Coventry  
Humber Road, Abbey Park  
Coventry  
UK  
CV3 4AQ

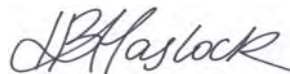
**Project Manager:** Rowan Brown  
**Project Name:** Plot 4100, Hatfield Business Park  
**Project Ref:** 313586  
**Order No:** N/A  
**Date Samples Received:** 15/03/17  
**Date Instructions Received:** 15/03/17  
**Date Analysis Completed:** 24/03/17

**Prepared by:**



Danielle Brierley  
Administrative Assistant

**Approved by:**



Iain Haslock  
Analytical Consultant

Envirolab Job Number: 17/01911

Client Project Name: Plot 4100, Hatfield Business Park

Client Project Ref: 313586

| Lab Sample ID  | 17/01911/1 | 17/01911/2 | 17/01911/3 | 17/01911/6 | 17/01911/7 | 17/01911/8 | 17/01911/9 | 17/01911/11 | Units | Method ref |       |         |
|--|------------|------------|------------|------------|------------|------------|------------|-------------|-------|------------|-------|---------|
| Client Sample No   |            |            |            |            |            |            |            |             |       |            |       |         |
| Client Sample ID   | TP01       | TP02       | TP10       | TP09       | TP08       | TP04       | TP07       | TP06a       |       |            |       |         |
| Depth to Top   | 0.10       | 0.30       | 0.20       | 0.40       | 0.40       | 0.10       | 0.30       | 0.20        |       |            |       |         |
| Depth To Bottom  |            |            |            |            |            |            |            |             |       |            |       |         |
| Date Sampled   | 10-Mar-17  | 10-Mar-17  | 13-Mar-17  | 10-Mar-17  | 13-Mar-17  | 13-Mar-17  | 13-Mar-17  | 13-Mar-17   |       |            |       |         |
| Sample Type  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES   |       |            |       |         |
| Sample Matrix Code   | 6AE        | 4AE        | 4AE        | 6A         | 4AE        | 6A         | 4A         | 4AE         |       |            |       |         |
| % Stones >10mm <sub>A</sub> <sup>#</sup>                                     | 19.7       | 18.0       | 5.5        | 5.1        | 26.4       | 47.5       | 31.1       | 22.0        |       |            | % w/w | A-T-044 |
| pH <sub>D</sub> <sup>M#</sup>  | 7.97       | 8.14       | 8.23       | 7.79       | 8.06       | 8.37       | 9.28       | 8.11        | pH    | A-T-031s   |       |         |
| Total Organic Carbon <sub>D</sub> <sup>M#</sup>                              | 0.86       | 1.90       | 1.52       | 1.11       | 1.19       | 0.35       | 0.35       | 0.98        | % w/w | A-T-032s   |       |         |
| Arsenic <sub>D</sub> <sup>M#</sup>   | 6          | 4          | 6          | 6          | 5          | 3          | 6          | 8           | mg/kg | A-T-024s   |       |         |
| Cadmium <sub>D</sub> <sup>M#</sup>   | 0.6        | 0.7        | 0.8        | 0.8        | 0.7        | <0.5       | 0.6        | 0.7         | mg/kg | A-T-024s   |       |         |
| Copper <sub>D</sub> <sup>M#</sup>  | 10         | 20         | 21         | 24         | 14         | 6          | 10         | 13          | mg/kg | A-T-024s   |       |         |
| Chromium <sub>D</sub> <sup>M#</sup>  | 18         | 17         | 19         | 19         | 16         | 10         | 15         | 20          | mg/kg | A-T-024s   |       |         |
| Lead <sub>D</sub> <sup>M#</sup>  | 28         | 47         | 59         | 66         | 41         | 16         | 43         | 33          | mg/kg | A-T-024s   |       |         |
| Mercury <sub>D</sub>   | <0.17      | <0.17      | <0.17      | <0.17      | <0.17      | <0.17      | <0.17      | <0.17       | mg/kg | A-T-024s   |       |         |
| Nickel <sub>D</sub> <sup>M#</sup>  | 14         | 14         | 14         | 14         | 12         | 6          | 10         | 16          | mg/kg | A-T-024s   |       |         |
| Selenium <sub>D</sub>  | <1         | <1         | <1         | <1         | <1         | <1         | <1         | <1          | mg/kg | A-T-024s   |       |         |
| Zinc <sub>D</sub> <sup>M#</sup>  | 36         | 51         | 64         | 58         | 51         | 24         | 68         | 44          | mg/kg | A-T-024s   |       |         |
| Leachate Prep BS EN 12457-1 (2:1) (per 250ml prepared leachate) <sub>A</sub> | *          | *          | *          | *          | -          | -          | -          | *           |       | A-T-001    |       |         |
| Arsenic (leachable) <sub>A</sub> <sup>#</sup>                                | <1         | 1          | 1          | 2          | -          | -          | -          | 1           | µg/l  | A-T-025w   |       |         |
| Cadmium (leachable) <sub>A</sub> <sup>#</sup>                                | <1         | <1         | <1         | <1         | -          | -          | -          | <1          | µg/l  | A-T-025w   |       |         |
| Copper (leachable) <sub>A</sub> <sup>#</sup>                                 | 5          | 10         | 9          | 12         | -          | -          | -          | 6           | µg/l  | A-T-025w   |       |         |
| Chromium (leachable) <sub>A</sub> <sup>#</sup>                               | <1         | <1         | <1         | <1         | -          | -          | -          | <1          | µg/l  | A-T-025w   |       |         |
| Lead (leachable) <sub>A</sub> <sup>#</sup>                                   | <1         | <1         | <1         | <1         | -          | -          | -          | <1          | µg/l  | A-T-025w   |       |         |
| Mercury (leachable) <sub>A</sub> <sup>#</sup>                                | <0.1       | <0.1       | <0.1       | <0.1       | -          | -          | -          | <0.1        | µg/l  | A-T-025w   |       |         |
| Nickel (leachable) <sub>A</sub> <sup>#</sup>                                 | <1         | <1         | <1         | 2          | -          | -          | -          | 1           | µg/l  | A-T-025w   |       |         |
| Selenium (leachable) <sub>A</sub> <sup>#</sup>                               | <1         | <1         | <1         | <1         | -          | -          | -          | <1          | µg/l  | A-T-025w   |       |         |
| Zinc (leachable) <sub>A</sub> <sup>#</sup>                                   | <1         | <1         | <1         | <1         | -          | -          | -          | <1          | µg/l  | A-T-025w   |       |         |

Envirolab Job Number: 17/01911

Client Project Name: Plot 4100, Hatfield Business Park

Client Project Ref: 313586

| Lab Sample ID                                      | 17/01911/1 | 17/01911/2 | 17/01911/3 | 17/01911/6 | 17/01911/7 | 17/01911/8 | 17/01911/9 | 17/01911/11 | Units | Method ref |  |  |
|--|------------|------------|------------|------------|------------|------------|------------|-------------|-------|------------|--|--|
| Client Sample No                                   |            |            |            |            |            |            |            |             |       |            |  |  |
| Client Sample ID                                   | TP01       | TP02       | TP10       | TP09       | TP08       | TP04       | TP07       | TP06a       |       |            |  |  |
| Depth to Top                                       | 0.10       | 0.30       | 0.20       | 0.40       | 0.40       | 0.10       | 0.30       | 0.20        |       |            |  |  |
| Depth To Bottom                                    |            |            |            |            |            |            |            |             |       |            |  |  |
| Date Sampled                                       | 10-Mar-17  | 10-Mar-17  | 13-Mar-17  | 10-Mar-17  | 13-Mar-17  | 13-Mar-17  | 13-Mar-17  | 13-Mar-17   |       |            |  |  |
| Sample Type  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES   |       |            |  |  |
| Sample Matrix Code                                 | 6AE        | 4AE        | 4AE        | 6A         | 4AE        | 6A         | 4A         | 4AE         |       |            |  |  |
| Asbestos in Soil (inc. matrix)                     |            |            |            |            |            |            |            |             |       |            |  |  |
| Asbestos in soil <sup>#</sup>                      | NAD        | NAD        | NAD        | NAD        | NAD        | NAD        | NAD        | NAD         |       | A-T-045    |  |  |
| Asbestos ACM - Suitable for Water Absorption Test? | N/A        | N/A        | N/A        | N/A        | N/A        | N/A        | N/A        | N/A         |       |            |  |  |

Envirolab Job Number: 17/01911

Client Project Name: Plot 4100, Hatfield Business Park

Client Project Ref: 313586

| Lab Sample ID                                    | 17/01911/1 | 17/01911/2 | 17/01911/3 | 17/01911/6 | 17/01911/7 | 17/01911/8 | 17/01911/9 | 17/01911/11 | Units | Method ref |  |  |
|--|------------|------------|------------|------------|------------|------------|------------|-------------|-------|------------|--|--|
| Client Sample No                                 |            |            |            |            |            |            |            |             |       |            |  |  |
| Client Sample ID                                 | TP01       | TP02       | TP10       | TP09       | TP08       | TP04       | TP07       | TP06a       |       |            |  |  |
| Depth to Top                                     | 0.10       | 0.30       | 0.20       | 0.40       | 0.40       | 0.10       | 0.30       | 0.20        |       |            |  |  |
| Depth To Bottom                                  |            |            |            |            |            |            |            |             |       |            |  |  |
| Date Sampled                                     | 10-Mar-17  | 10-Mar-17  | 13-Mar-17  | 10-Mar-17  | 13-Mar-17  | 13-Mar-17  | 13-Mar-17  | 13-Mar-17   |       |            |  |  |
| Sample Type                                      | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES   |       |            |  |  |
| Sample Matrix Code                               | 6AE        | 4AE        | 4AE        | 6A         | 4AE        | 6A         | 4A         | 4AE         |       |            |  |  |
| PAH 16   |            |            |            |            |            |            |            |             |       |            |  |  |
| Acenaphthene <sub>A</sub> <sup>M#</sup>          | <0.01      | <0.01      | 0.01       | <0.01      | 0.03       | <0.01      | 0.02       | 0.04        | mg/kg | A-T-019s   |  |  |
| Acenaphthylene <sub>A</sub> <sup>M#</sup>        | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | 0.02       | <0.01       | mg/kg | A-T-019s   |  |  |
| Anthracene <sub>A</sub> <sup>M#</sup>            | 0.06       | <0.02      | 0.07       | 0.03       | 0.13       | 0.03       | 0.07       | 0.13        | mg/kg | A-T-019s   |  |  |
| Benzo(a)anthracene <sub>A</sub> <sup>M#</sup>    | 0.17       | 0.13       | 0.37       | 0.18       | 1.35       | 0.21       | 0.55       | 0.25        | mg/kg | A-T-019s   |  |  |
| Benzo(a)pyrene <sub>A</sub> <sup>M#</sup>        | 0.23       | 0.25       | 0.56       | 0.26       | 2.08       | 0.32       | 0.85       | 0.32        | mg/kg | A-T-019s   |  |  |
| Benzo(b)fluoranthene <sub>A</sub> <sup>M#</sup>  | 0.16       | 0.18       | 0.46       | 0.19       | 2.26       | 0.26       | 0.64       | 0.24        | mg/kg | A-T-019s   |  |  |
| Benzo(ghi)perylene <sub>A</sub> <sup>M#</sup>    | 0.19       | 0.21       | 0.45       | 0.21       | 2.06       | 0.27       | 0.61       | 0.24        | mg/kg | A-T-019s   |  |  |
| Benzo(k)fluoranthene <sub>A</sub> <sup>M#</sup>  | 0.08       | 0.08       | 0.15       | 0.09       | 0.63       | 0.10       | 0.22       | 0.11        | mg/kg | A-T-019s   |  |  |
| Chrysene <sub>A</sub> <sup>M#</sup>              | 0.20       | 0.20       | 0.48       | 0.24       | 1.56       | 0.27       | 0.58       | 0.28        | mg/kg | A-T-019s   |  |  |
| Dibenzo(ah)anthracene <sub>A</sub> <sup>M#</sup> | <0.04      | 0.05       | 0.10       | 0.06       | 0.51       | 0.05       | 0.16       | 0.04        | mg/kg | A-T-019s   |  |  |
| Fluoranthene <sub>A</sub> <sup>M#</sup>          | 0.26       | 0.20       | 0.64       | 0.32       | 2.21       | 0.32       | 0.72       | 0.48        | mg/kg | A-T-019s   |  |  |
| Fluorene <sub>A</sub> <sup>M#</sup>              | 0.02       | <0.01      | <0.01      | <0.01      | 0.02       | <0.01      | 0.02       | 0.04        | mg/kg | A-T-019s   |  |  |
| Indeno(123-cd)pyrene <sub>A</sub> <sup>M#</sup>  | 0.23       | 0.24       | 0.57       | 0.27       | 2.44       | 0.34       | 0.78       | 0.30        | mg/kg | A-T-019s   |  |  |
| Naphthalene <sub>A</sub> <sup>M#</sup>           | <0.03      | <0.03      | <0.03      | <0.03      | <0.03      | <0.03      | <0.03      | <0.03       | mg/kg | A-T-019s   |  |  |
| Phenanthrene <sub>A</sub> <sup>M#</sup>          | 0.19       | 0.08       | 0.22       | 0.17       | 0.39       | 0.12       | 0.25       | 0.37        | mg/kg | A-T-019s   |  |  |
| Pyrene <sub>A</sub> <sup>M#</sup>                | 0.23       | 0.18       | 0.54       | 0.29       | 1.92       | 0.31       | 0.87       | 0.39        | mg/kg | A-T-019s   |  |  |
| PAH (total 16) <sub>A</sub> <sup>M#</sup>        | 2.04       | 1.82       | 4.64       | 2.30       | 17.6       | 2.60       | 6.35       | 3.23        | mg/kg | A-T-019s   |  |  |

Envirolab Job Number: 17/01911

Client Project Name: Plot 4100, Hatfield Business Park

Client Project Ref: 313586

| Lab Sample ID                                       | 17/01911/1 | 17/01911/2 | 17/01911/3 | 17/01911/6 | 17/01911/7 | 17/01911/8 | 17/01911/9 | 17/01911/11 | Units | Method ref |
|---|------------|------------|------------|------------|------------|------------|------------|-------------|-------|------------|
| Client Sample No                                    |            |            |            |            |            |            |            |             |       |            |
| Client Sample ID                                    | TP01       | TP02       | TP10       | TP09       | TP08       | TP04       | TP07       | TP06a       |       |            |
| Depth to Top  | 0.10       | 0.30       | 0.20       | 0.40       | 0.40       | 0.10       | 0.30       | 0.20        |       |            |
| Depth To Bottom                                     |            |            |            |            |            |            |            |             |       |            |
| Date Sampled  | 10-Mar-17  | 10-Mar-17  | 13-Mar-17  | 10-Mar-17  | 13-Mar-17  | 13-Mar-17  | 13-Mar-17  | 13-Mar-17   |       |            |
| Sample Type   | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES   |       |            |
| Sample Matrix Code                                  | 6AE        | 4AE        | 4AE        | 6A         | 4AE        | 6A         | 4A         | 4AE         |       |            |
| VOC   |            |            |            |            |            |            |            |             |       |            |
| Dichlorodifluoromethane <sub>A</sub> <sup>#</sup>   | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Chloromethane <sub>A</sub>                          | <10        | <10        | <10        | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Vinyl Chloride <sub>A</sub> <sup>#</sup>            | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Bromomethane <sub>A</sub> <sup>#</sup>              | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Chloroethane <sub>A</sub> <sup>#</sup>              | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Trichlorofluoromethane <sub>A</sub> <sup>#</sup>    | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| 1,1-Dichloroethene <sub>A</sub> <sup>#</sup>        | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Carbon Disulphide <sub>A</sub> <sup>#</sup>         | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Dichloromethane <sub>A</sub>                        | <5         | <5         | <5         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| trans 1,2-Dichloroethene <sub>A</sub> <sup>#</sup>  | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| 1,1-Dichloroethane <sub>A</sub> <sup>#</sup>        | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| cis 1,2-Dichloroethene <sub>A</sub> <sup>#</sup>    | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| 2,2-Dichloropropane <sub>A</sub> <sup>#</sup>       | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Bromochloromethane <sub>A</sub> <sup>#</sup>        | <5         | <5         | <5         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Chloroform <sub>A</sub> <sup>#</sup>                | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| 1,1,1-Trichloroethane <sub>A</sub> <sup>#</sup>     | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| 1,1-Dichloropropene <sub>A</sub> <sup>#</sup>       | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Carbon Tetrachloride <sub>A</sub> <sup>#</sup>      | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| 1,2-Dichloroethane <sub>A</sub> <sup>#</sup>        | <2         | <2         | <2         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Benzene <sub>A</sub> <sup>#</sup>                   | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Trichloroethene <sub>A</sub> <sup>#</sup>           | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| 1,2-Dichloropropane <sub>A</sub> <sup>#</sup>       | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Dibromomethane <sub>A</sub> <sup>#</sup>            | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Bromodichloromethane <sub>A</sub> <sup>#</sup>      | <10        | <10        | <10        | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| cis 1,3-Dichloropropene <sub>A</sub> <sup>#</sup>   | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Toluene <sub>A</sub> <sup>#</sup>                   | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| trans 1,3-Dichloropropene <sub>A</sub> <sup>#</sup> | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| 1,1,2-Trichloroethane <sub>A</sub> <sup>#</sup>     | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| 1,3-Dichloropropane <sub>A</sub> <sup>#</sup>       | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Tetrachloroethene <sub>A</sub> <sup>#</sup>         | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| Dibromochloromethane <sub>A</sub> <sup>#</sup>      | <3         | <3         | <3         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |
| 1,2-Dibromoethane <sub>A</sub> <sup>#</sup>         | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |



Envirolab Job Number: 17/01911

Client Project Name: Plot 4100, Hatfield Business Park

Client Project Ref: 313586

| Lab Sample ID                                    | 17/01911/1 | 17/01911/2 | 17/01911/3 | 17/01911/6 | 17/01911/7 | 17/01911/8 | 17/01911/9 | 17/01911/11 | Units | Method ref |       |          |
|--|------------|------------|------------|------------|------------|------------|------------|-------------|-------|------------|-------|----------|
| Client Sample No                                 |            |            |            |            |            |            |            |             |       |            |       |          |
| Client Sample ID                                 | TP01       | TP02       | TP10       | TP09       | TP08       | TP04       | TP07       | TP06a       |       |            |       |          |
| Depth to Top                                     | 0.10       | 0.30       | 0.20       | 0.40       | 0.40       | 0.10       | 0.30       | 0.20        |       |            |       |          |
| Depth To Bottom                                  |            |            |            |            |            |            |            |             |       |            |       |          |
| Date Sampled                                     | 10-Mar-17  | 10-Mar-17  | 13-Mar-17  | 10-Mar-17  | 13-Mar-17  | 13-Mar-17  | 13-Mar-17  | 13-Mar-17   |       |            |       |          |
| Sample Type                                      | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES   |       |            |       |          |
| Sample Matrix Code                               | 6AE        | 4AE        | 4AE        | 6A         | 4AE        | 6A         | 4A         | 4AE         |       |            |       |          |
| Chlorobenzene <sub>A</sub> <sup>#</sup>          | <1         | <1         | <1         | -          | -          | -          | -          | -           |       |            | µg/kg | A-T-006s |
| 1,1,1,2-Tetrachloroethane <sub>A</sub>           | <1         | <1         | <1         | -          | -          | -          | -          | -           |       |            | µg/kg | A-T-006s |
| Ethylbenzene <sub>A</sub> <sup>#</sup>           | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| m & p Xylene <sub>A</sub> <sup>#</sup>           | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| o-Xylene <sub>A</sub> <sup>#</sup>               | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| Styrene <sub>A</sub> <sup>#</sup>                | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| Bromoform <sub>A</sub> <sup>#</sup>              | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| Isopropylbenzene <sub>A</sub> <sup>#</sup>       | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| 1,1,1,2,2-Tetrachloroethane <sub>A</sub>         | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| 1,2,3-Trichloropropane <sub>A</sub> <sup>#</sup> | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| Bromobenzene <sub>A</sub> <sup>#</sup>           | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| n-Propylbenzene <sub>A</sub> <sup>#</sup>        | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| 2-Chlorotoluene <sub>A</sub> <sup>#</sup>        | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| 1,3,5-Trimethylbenzene <sub>A</sub> <sup>#</sup> | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| 4-Chlorotoluene <sub>A</sub> <sup>#</sup>        | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| tert-Butylbenzene <sub>A</sub> <sup>#</sup>      | <2         | <2         | <2         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| 1,2,4-Trimethylbenzene <sub>A</sub> <sup>#</sup> | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| sec-Butylbenzene <sub>A</sub> <sup>#</sup>       | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| 4-Isopropyltoluene <sub>A</sub> <sup>#</sup>     | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| 1,3-Dichlorobenzene <sub>A</sub>                 | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| 1,4-Dichlorobenzene <sub>A</sub> <sup>#</sup>    | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| n-Butylbenzene <sub>A</sub> <sup>#</sup>         | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| 1,2-Dichlorobenzene <sub>A</sub> <sup>#</sup>    | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| 1,2-Dibromo-3-chloropropane <sub>A</sub>         | <2         | <2         | <2         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| 1,2,4-Trichlorobenzene <sub>A</sub>              | <3         | <3         | <3         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| Hexachlorobutadiene <sub>A</sub> <sup>#</sup>    | <1         | <1         | <1         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |
| 1,2,3-Trichlorobenzene <sub>A</sub>              | <3         | <3         | <3         | -          | -          | -          | -          | -           | µg/kg | A-T-006s   |       |          |

Envirolab Job Number: 17/01911

Client Project Name: Plot 4100, Hatfield Business Park

Client Project Ref: 313586

| Lab Sample ID                                  | 17/01911/1 | 17/01911/2 | 17/01911/3 | 17/01911/6 | 17/01911/7 | 17/01911/8 | 17/01911/9 | 17/01911/11 | Units | Method ref |  |  |
|--|------------|------------|------------|------------|------------|------------|------------|-------------|-------|------------|--|--|
| Client Sample No                               |            |            |            |            |            |            |            |             |       |            |  |  |
| Client Sample ID                               | TP01       | TP02       | TP10       | TP09       | TP08       | TP04       | TP07       | TP06a       |       |            |  |  |
| Depth to Top                                   | 0.10       | 0.30       | 0.20       | 0.40       | 0.40       | 0.10       | 0.30       | 0.20        |       |            |  |  |
| Depth To Bottom                                |            |            |            |            |            |            |            |             |       |            |  |  |
| Date Sampled                                   | 10-Mar-17  | 10-Mar-17  | 13-Mar-17  | 10-Mar-17  | 13-Mar-17  | 13-Mar-17  | 13-Mar-17  | 13-Mar-17   |       |            |  |  |
| Sample Type                                    | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES   |       |            |  |  |
| Sample Matrix Code                             | 6AE        | 4AE        | 4AE        | 6A         | 4AE        | 6A         | 4A         | 4AE         |       |            |  |  |
| TPH CWG  |            |            |            |            |            |            |            |             |       |            |  |  |
| Ali >C5-C6 <sub>A</sub> <sup>#</sup>           | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01       | mg/kg | A-T-022s   |  |  |
| Ali >C6-C8 <sub>A</sub> <sup>#</sup>           | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01       | mg/kg | A-T-022s   |  |  |
| Ali >C8-C10 <sub>A</sub> <sup>#</sup>          | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01       | mg/kg | A-T-022s   |  |  |
| Ali >C10-C12 <sub>A</sub> <sup>#</sup>         | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1        | mg/kg | A-T-023s   |  |  |
| Ali >C12-C16 <sub>A</sub> <sup>#</sup>         | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | 5.3        | <0.1        | mg/kg | A-T-023s   |  |  |
| Ali >C16-C21 <sub>A</sub> <sup>#</sup>         | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | 10.5       | <0.1        | mg/kg | A-T-023s   |  |  |
| Ali >C21-C35 <sub>A</sub> <sup>#</sup>         | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | 19.1       | <0.1        | mg/kg | A-T-023s   |  |  |
| Total Aliphatics <sub>A</sub>                  | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | 35.0       | <0.1        | mg/kg | A-T-023s   |  |  |
| Aro >C5-C7 <sub>A</sub> <sup>#</sup>           | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01       | mg/kg | A-T-022s   |  |  |
| Aro >C7-C8 <sub>A</sub> <sup>#</sup>           | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01       | mg/kg | A-T-022s   |  |  |
| Aro >C8-C9 <sub>A</sub> <sup>#</sup>           | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01       | mg/kg | A-T-022s   |  |  |
| Aro >C9-C10 <sub>A</sub> <sup>#</sup>          | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01       | mg/kg | A-T-022s   |  |  |
| Aro >C10-C12 <sub>A</sub> <sup>#</sup>         | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1        | mg/kg | A-T-023s   |  |  |
| Aro >C12-C16 <sub>A</sub> <sup>#</sup>         | <0.1       | <0.1       | <0.1       | <0.1       | 2.3        | <0.1       | <0.1       | <0.1        | mg/kg | A-T-023s   |  |  |
| Aro >C16-C21 <sub>A</sub> <sup>#</sup>         | <0.1       | <0.1       | 0.6        | <0.1       | 6.4        | 0.8        | 1.6        | <0.1        | mg/kg | A-T-023s   |  |  |
| Aro >C21-C35 <sub>A</sub> <sup>#</sup>         | <0.1       | 2.0        | 2.2        | 0.6        | 18.9       | 2.7        | 8.0        | 1.4         | mg/kg | A-T-023s   |  |  |
| Total Aromatics <sub>A</sub>                   | <0.1       | 2.0        | 2.8        | 0.6        | 27.7       | 3.4        | 9.7        | 1.4         | mg/kg | A-T-023s   |  |  |
| TPH (Ali & Aro) <sub>A</sub>                   | <0.1       | 2.0        | 2.8        | 0.6        | 27.7       | 3.4        | 44.6       | 1.4         | mg/kg | A-T-023s   |  |  |
| BTEX - Benzene <sub>A</sub> <sup>#</sup>       | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01       | mg/kg | A-T-022s   |  |  |
| BTEX - Toluene <sub>A</sub> <sup>#</sup>       | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01       | mg/kg | A-T-022s   |  |  |
| BTEX - Ethyl Benzene <sub>A</sub> <sup>#</sup> | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01       | mg/kg | A-T-022s   |  |  |
| BTEX - m & p Xylene <sub>A</sub> <sup>#</sup>  | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01       | mg/kg | A-T-022s   |  |  |
| BTEX - o Xylene <sub>A</sub> <sup>#</sup>      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01       | mg/kg | A-T-022s   |  |  |
| MTBE <sub>A</sub> <sup>#</sup>                 | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01      | <0.01       | mg/kg | A-T-022s   |  |  |

Envirolab Job Number: 17/01911

Client Project Name: Plot 4100, Hatfield Business Park

Client Project Ref: 313586

| Lab Sample ID   | 17/01911/12 | 17/01911/13 | 17/01911/14 | 17/01911/15 | 17/01911/16 | 17/01911/17 | 17/01911/18 | 17/01911/19 | Units | Method ref |       |         |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|------------|-------|---------|
| Client Sample No  |             |             |             |             |             |             |             |             |       |            |       |         |
| Client Sample ID  | TP01        | TP02        | TP10        | TP03        | TP07        | TP08        | TP09        | TP01a       |       |            |       |         |
| Depth to Top  | 0.40        | 0.30        | 0.20        | 1.00        | 1.90        | 1.30        | 1.70        | 1.60        |       |            |       |         |
| Depth To Bottom   |             |             |             |             |             |             |             |             |       |            |       |         |
| Date Sampled  | 10-Mar-17   | 10-Mar-17   | 13-Mar-17   | 13-Mar-17   | 13-Mar-17   | 13-Mar-17   | 10-Mar-17   | 13-Mar-17   |       |            |       |         |
| Sample Type   | Soil - D    | Soil - D    | Soil - D    | Soil - D    | Soil - D    | Soil - D    | Soil - D    | Soil - D    |       |            |       |         |
| Sample Matrix Code                                      | 6A          | 4A          | 6A          | 6A          | 1A          | 1A          | 1A          | 6A          |       |            |       |         |
| % Stones >10mm <sub>A</sub> <sup>#</sup>                | 10.1        | 25.8        | 5.2         | 10.9        | 24.8        | 25.9        | 12.4        | 15.4        |       |            | % w/w | A-T-044 |
| pH BRE <sub>D</sub> <sup>M#</sup>                       | 7.68        | 8.24        | 7.95        | 7.44        | 7.70        | 8.03        | 7.90        | 7.72        | pH    | A-T-031s   |       |         |
| Sulphate BRE (water sol 2:1) <sub>D</sub> <sup>M#</sup> | 48          | 23          | <10         | 12          | 15          | <10         | 68          | <10         | mg/l  | A-T-026s   |       |         |
| Sulphate BRE (acid sol) <sub>D</sub> <sup>M#</sup>      | -           | -           | -           | <0.02       | <0.02       | <0.02       | 0.03        | <0.02       | % w/w | A-T-028s   |       |         |
| Sulphur BRE (total) <sub>D</sub>                        | -           | -           | -           | <0.01       | <0.01       | <0.01       | <0.01       | <0.01       | % w/w | A-T-024s   |       |         |

## **REPORT NOTES**

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All samples contained within this report, and any received with the same delivery, will be disposed of one month after the date of this report.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure. These are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

### **Soil chemical analysis:**

All results are reported as dry weight (<40 °C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

### **TPH analysis of water by method A-T-007:**

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

### **Asbestos:**

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

### **Predominant Matrix Codes:**

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

### **Secondary Matrix Codes:**

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

### **Key:**

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

## FINAL ANALYTICAL TEST REPORT

**Envirolab Job Number:** 17/02257  
**Issue Number:** 1 **Date:** 04 April, 2017

**Client:** RSK Environment Ltd Coventry  
Humber Road, Abbey Park  
Coventry  
UK  
CV3 4AQ

**Project Manager:** Rowan Brown  
**Project Name:** Hatfield Plot 4100  
**Project Ref:** 313586  
**Order No:** N/A  
**Date Samples Received:** 29/03/17  
**Date Instructions Received:** 29/03/17  
**Date Analysis Completed:** 04/04/17

**Prepared by:**



Kate Keningale  
Administrative Assistant

**Approved by:**



Richard Wong  
Client Service Manager

Envirolab Job Number: 17/02257

Client Project Name: Hatfield Plot 4100

Client Project Ref: 313586

| Lab Sample ID   | 17/02257/1 | 17/02257/2 | 17/02257/3 | 17/02257/4 | 17/02257/5 | 17/02257/6 | 17/02257/7 | 17/02257/8 | Units | Method ref |       |         |
|---|------------|------------|------------|------------|------------|------------|------------|------------|-------|------------|-------|---------|
| Client Sample No  |            |            |            |            |            |            |            |            |       |            |       |         |
| Client Sample ID  | TP11       | TP12       | TP13       | TP15       | TP11       | TP12       | TP13       | TP14       |       |            |       |         |
| Depth to Top  | 0.40       | 0.20       | 0.30       | 0.10       | 1.10       | 1.40       | 1.20       | 1.90       |       |            |       |         |
| Depth To Bottom   |            |            |            |            |            |            |            |            |       |            |       |         |
| Date Sampled  | 24-Mar-17  | 24-Mar-17  | 24-Mar-17  | 24-Mar-17  | 24-Mar-17  | 22-Mar-17  | 24-Mar-17  | 22-Mar-17  |       |            |       |         |
| Sample Type   | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - D   | Soil - D   | Soil - D   | Soil - D   |       |            |       |         |
| Sample Matrix Code                                      | 1A         | 4AB        | 6AB        | 1A         | 4A         | 4A         | 4A         | 6AB        |       |            |       |         |
| % Stones >10mm <sub>A</sub> <sup>#</sup>                | 23.5       | 1.0        | 15.5       | 16.7       | <0.1       | <0.1       | <0.1       | 6.6        |       |            | % w/w | A-T-044 |
| pH <sub>D</sub> <sup>M#</sup>                           | 8.65       | 7.68       | 8.79       | 8.34       | -          | -          | -          | -          | pH    | A-T-031s   |       |         |
| pH BRE <sub>D</sub> <sup>M#</sup>                       | -          | -          | -          | -          | 8.01       | 7.70       | 7.59       | 7.99       | pH    | A-T-031s   |       |         |
| Sulphate BRE (water sol 2:1) <sub>D</sub> <sup>M#</sup> | -          | -          | -          | -          | 15         | 68         | 42         | 12         | mg/l  | A-T-026s   |       |         |
| Sulphate BRE (acid sol) <sub>D</sub> <sup>M#</sup>      | -          | -          | -          | -          | <0.02      | 0.03       | 0.02       | <0.02      | % w/w | A-T-028s   |       |         |
| Sulphur BRE (total) <sub>D</sub>                        | -          | -          | -          | -          | <0.01      | 0.01       | 0.01       | <0.01      | % w/w | A-T-024s   |       |         |
| Arsenic <sub>D</sub> <sup>M#</sup>                      | 4          | 7          | 6          | 2          | -          | -          | -          | -          | mg/kg | A-T-024s   |       |         |
| Cadmium <sub>D</sub> <sup>M#</sup>                      | <0.5       | 0.6        | 0.5        | <0.5       | -          | -          | -          | -          | mg/kg | A-T-024s   |       |         |
| Copper <sub>D</sub> <sup>M#</sup>                       | 2          | 22         | 15         | 4          | -          | -          | -          | -          | mg/kg | A-T-024s   |       |         |
| Chromium <sub>D</sub> <sup>M#</sup>                     | 7          | 18         | 17         | 12         | -          | -          | -          | -          | mg/kg | A-T-024s   |       |         |
| Lead <sub>D</sub> <sup>M#</sup>                         | 5          | 76         | 57         | 9          | -          | -          | -          | -          | mg/kg | A-T-024s   |       |         |
| Mercury <sub>D</sub>                                    | 0.45       | 0.46       | <0.17      | <0.17      | -          | -          | -          | -          | mg/kg | A-T-024s   |       |         |
| Nickel <sub>D</sub> <sup>M#</sup>                       | 5          | 16         | 14         | 8          | -          | -          | -          | -          | mg/kg | A-T-024s   |       |         |
| Selenium <sub>D</sub>                                   | <1         | <1         | <1         | <1         | -          | -          | -          | -          | mg/kg | A-T-024s   |       |         |
| Zinc <sub>D</sub> <sup>M#</sup>                         | 9          | 56         | 95         | 20         | -          | -          | -          | -          | mg/kg | A-T-024s   |       |         |

Envirolab Job Number: 17/02257

Client Project Name: Hatfield Plot 4100

Client Project Ref: 313586

| Lab Sample ID                                      | 17/02257/1 | 17/02257/2 | 17/02257/3 | 17/02257/4 | 17/02257/5 | 17/02257/6 | 17/02257/7 | 17/02257/8 | Units | Method ref |  |  |
|--|------------|------------|------------|------------|------------|------------|------------|------------|-------|------------|--|--|
| Client Sample No                                   |            |            |            |            |            |            |            |            |       |            |  |  |
| Client Sample ID                                   | TP11       | TP12       | TP13       | TP15       | TP11       | TP12       | TP13       | TP14       |       |            |  |  |
| Depth to Top                                       | 0.40       | 0.20       | 0.30       | 0.10       | 1.10       | 1.40       | 1.20       | 1.90       |       |            |  |  |
| Depth To Bottom                                    |            |            |            |            |            |            |            |            |       |            |  |  |
| Date Sampled                                       | 24-Mar-17  | 24-Mar-17  | 24-Mar-17  | 24-Mar-17  | 24-Mar-17  | 22-Mar-17  | 24-Mar-17  | 22-Mar-17  |       |            |  |  |
| Sample Type  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - ES  | Soil - D   | Soil - D   | Soil - D   | Soil - D   |       |            |  |  |
| Sample Matrix Code                                 | 1A         | 4AB        | 6AB        | 1A         | 4A         | 4A         | 4A         | 6AB        |       |            |  |  |
| Asbestos in Soil (inc. matrix)                     |            |            |            |            |            |            |            |            |       |            |  |  |
| Asbestos in soil <sup>#</sup>                      | NAD        | NAD        | NAD        | NAD        | -          | -          | -          | -          |       | A-T-045    |  |  |
| Asbestos ACM - Suitable for Water Absorption Test? | N/A        | N/A        | N/A        | N/A        | -          | -          | -          | -          |       |            |  |  |

Envirolab Job Number: 17/02257

Client Project Name: Hatfield Plot 4100

Client Project Ref: 313586

| Lab Sample ID   | 17/02257/9 | 17/02257/10 | 17/02257/11 | 17/02257/12 | 17/02257/13 | 17/02257/14 | 17/02257/15 |       | Units    | Method ref |
|---|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|----------|------------|
| Client Sample No  | 2          | 6           | 7           | 11          | 6           | 10          | 12          |       |          |            |
| Client Sample ID  | BH01       | BH01        | BH02        | BH02        | BH03        | BH03        | BH04        |       |          |            |
| Depth to Top  | 3.00       | 7.00        | 4.00        | 8.00        | 5.00        | 9.00        | 10.00       |       |          |            |
| Depth To Bottom   |            |             |             |             |             |             |             |       |          |            |
| Date Sampled  | 24-Mar-17  | 24-Mar-17   | 24-Mar-17   | 24-Mar-17   | 24-Mar-17   | 24-Mar-17   | 24-Mar-17   |       |          |            |
| Sample Type   | Soil - D   | Soil - D    | Soil - D    | Soil - D    | Soil - D    | Soil - D    | Soil - D    |       |          |            |
| Sample Matrix Code                                      | 5A         | 1A          | 3A          | 1A          | 3A          | 1A          | 1A          |       |          |            |
| % Stones >10mm <sub>A</sub> <sup>#</sup>                | 13.4       | 13.1        | 17.6        | 2.5         | 9.6         | 2.8         | 35.9        | % w/w | A-T-044  |            |
| pH BRE <sub>D</sub> <sup>M#</sup>                       | 8.08       | 8.46        | 7.49        | 8.79        | 7.88        | 8.75        | 8.74        | pH    | A-T-031s |            |
| Sulphate BRE (water sol 2:1) <sub>D</sub> <sup>M#</sup> | 26         | <10         | 12          | <10         | 13          | <10         | <10         | mg/l  | A-T-026s |            |
| Sulphate BRE (acid sol) <sub>D</sub> <sup>M#</sup>      | <0.02      | <0.02       | <0.02       | <0.02       | <0.02       | <0.02       | <0.02       | % w/w | A-T-028s |            |
| Sulphur BRE (total) <sub>D</sub>                        | <0.01      | <0.01       | <0.01       | <0.01       | <0.01       | <0.01       | <0.01       | % w/w | A-T-024s |            |



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A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

### **Soil chemical analysis:**

All results are reported as dry weight (<40 °C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

### **TPH analysis of water by method A-T-007:**

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

### **Asbestos:**

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

### **Predominant Matrix Codes:**

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

### **Secondary Matrix Codes:**

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

### **Key:**

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

# LABORATORY RESULTS - CBR Force Penetration

Project: HATFIELD PLOT 4100

Hole TP08

Sample Depth 0.80m

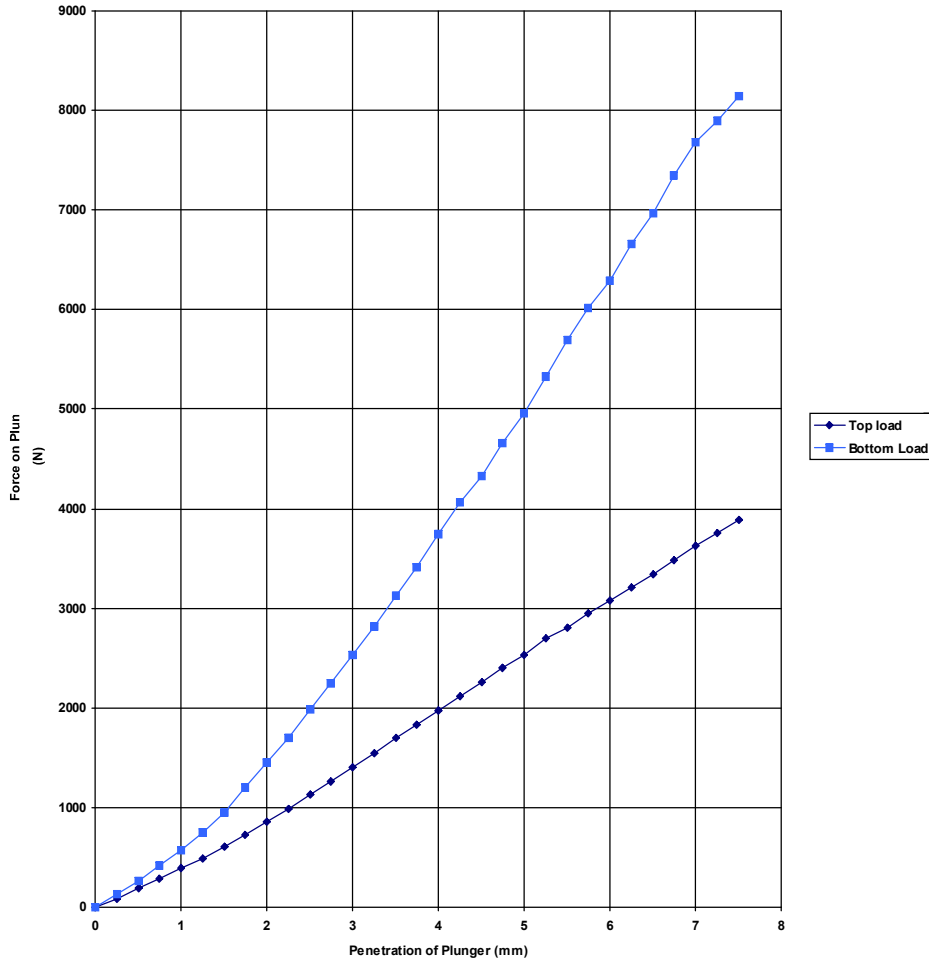
Project No: PC176687

Sample Type B

Sample Ref C64007

## Sample Description

Light brown sandy gravelly CLAY.



| Penetration | Top (N) | Bottom (N) |
|-------------|---------|------------|
| 0.25mm      | 89      | 128        |
| 0.50mm      | 190     | 260        |
| 0.75mm      | 289     | 419        |
| 1.00mm      | 387     | 574        |
| 1.25mm      | 491     | 747        |
| 1.50mm      | 612     | 957        |
| 1.75mm      | 729     | 1195       |
| 2.00mm      | 852     | 1448       |
| 2.25mm      | 981     | 1705       |
| 2.50mm      | 1126    | 1986       |
| 2.75mm      | 1257    | 2250       |
| 3.00mm      | 1405    | 2531       |
| 3.25mm      | 1550    | 2815       |
| 3.50mm      | 1696    | 3122       |
| 3.75mm      | 1836    | 3415       |

| Penetration | Top (N) | Bottom (N) |
|-------------|---------|------------|
| 4.00mm      | 1968    | 3747       |
| 4.25mm      | 2118    | 4061       |
| 4.50mm      | 2253    | 4327       |
| 4.75mm      | 2400    | 4665       |
| 5.00mm      | 2532    | 4953       |
| 5.25mm      | 2697    | 5327       |
| 5.50mm      | 2806    | 5689       |
| 5.75mm      | 2945    | 6021       |
| 6.00mm      | 3080    | 6285       |
| 6.25mm      | 3213    | 6654       |
| 6.50mm      | 3336    | 6964       |
| 6.75mm      | 3488    | 7344       |
| 7.00mm      | 3621    | 7686       |
| 7.25mm      | 3760    | 7900       |
| 7.50mm      | 3883    | 8141       |

| Test Details        |                                 |                   |
|---------------------|---------------------------------|-------------------|
| Test Type           | 4.5kg                           |                   |
| Method              | BS1377 Part 4 1990 : Clause 7.0 |                   |
| Surcharge           | 13.60                           | kg                |
| Retained 20mm sieve | 6.1                             | %                 |
| Bulk Density        | 2.23                            | Mg/m <sup>3</sup> |
| Dry Density         | 2.03                            | Mg/m <sup>3</sup> |
| Hand Calculation    | No                              |                   |
| <b>CBR</b>          | <b>Top</b>                      | <b>Bottom</b>     |
| Value               | 13                              | 25                |
| w%                  | 9.6                             | 10.2              |

Remarks  BS1377 Part 4 1990 : Clause 7.0

05/04/2017

# LABORATORY RESULTS - CBR Force Penetration

Project: HATFIELD PLOT 4100

Hole TP09

Sample Depth 0.90m

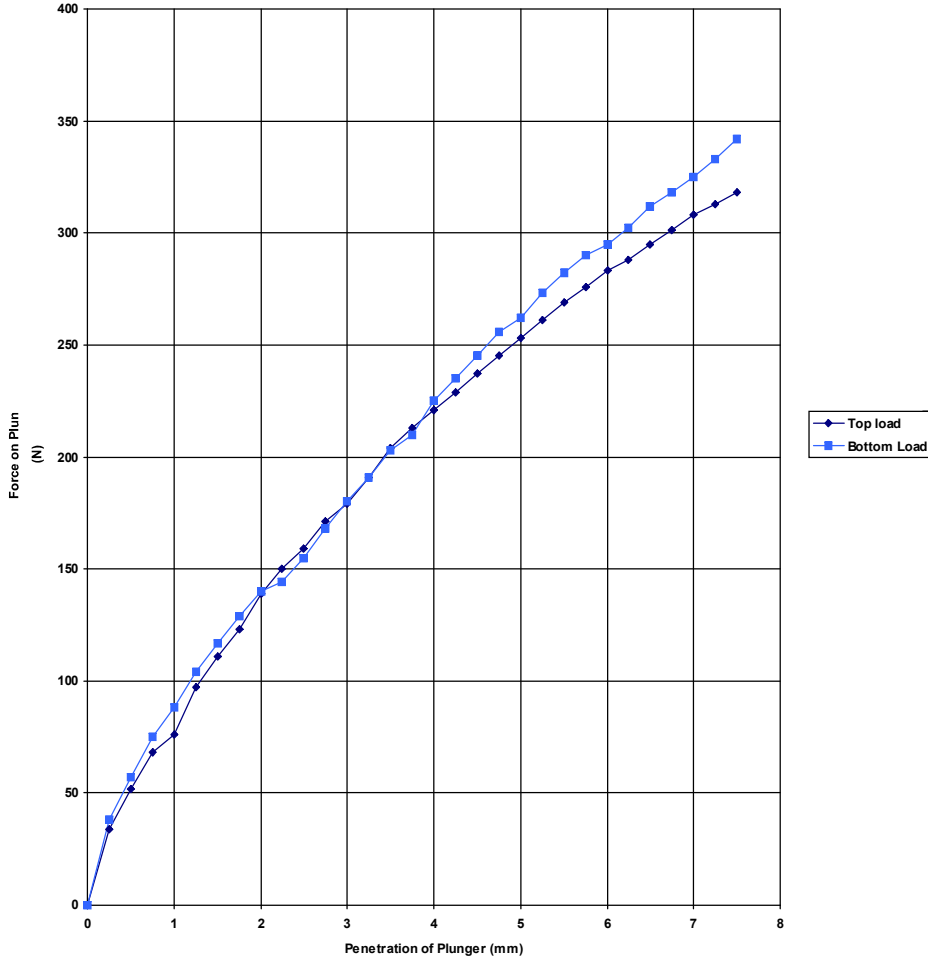
Project No: PC176687

Sample Type B

Sample Ref C64006

## Sample Description

Brown gravelly sandy CLAY with roots.



| Penetration | Top (N) | Bottom (N) |
|-------------|---------|------------|
| 0.25mm      | 34      | 38         |
| 0.50mm      | 52      | 57         |
| 0.75mm      | 68      | 75         |
| 1.00mm      | 76      | 88         |
| 1.25mm      | 97      | 104        |
| 1.50mm      | 111     | 117        |
| 1.75mm      | 123     | 129        |
| 2.00mm      | 139     | 140        |
| 2.25mm      | 150     | 144        |
| 2.50mm      | 159     | 155        |
| 2.75mm      | 171     | 168        |
| 3.00mm      | 179     | 180        |
| 3.25mm      | 191     | 191        |
| 3.50mm      | 204     | 203        |
| 3.75mm      | 213     | 210        |

| Penetration | Top (N) | Bottom (N) |
|-------------|---------|------------|
| 4.00mm      | 221     | 225        |
| 4.25mm      | 229     | 235        |
| 4.50mm      | 237     | 245        |
| 4.75mm      | 245     | 256        |
| 5.00mm      | 253     | 262        |
| 5.25mm      | 261     | 273        |
| 5.50mm      | 269     | 282        |
| 5.75mm      | 276     | 290        |
| 6.00mm      | 283     | 295        |
| 6.25mm      | 288     | 302        |
| 6.50mm      | 295     | 312        |
| 6.75mm      | 301     | 318        |
| 7.00mm      | 308     | 325        |
| 7.25mm      | 313     | 333        |
| 7.50mm      | 318     | 342        |

| Test Details        |                                 |                   |
|---------------------|---------------------------------|-------------------|
| Test Type           | 4.5kg                           |                   |
| Method              | BS1377 Part 4 1990 : Clause 7.0 |                   |
| Surcharge           | 13.60                           | kg                |
| Retained 20mm sieve | 7.7                             | %                 |
| Bulk Density        | 2.12                            | Mg/m <sup>3</sup> |
| Dry Density         | 1.85                            | Mg/m <sup>3</sup> |
| Hand Calculation    | No                              |                   |
| <b>CBR</b>          | <b>Top</b>                      | <b>Bottom</b>     |
| Value               | 1.3                             | 1.3               |
| w%                  | 13.6                            | 14.8              |

Remarks  BS1377 Part 4 1990 : Clause 7.0

05/04/2017

# LABORATORY RESULTS - CBR Force Penetration

Project: HATFIELD PLOT 4100

Hole TP11

Sample Depth 0.60m

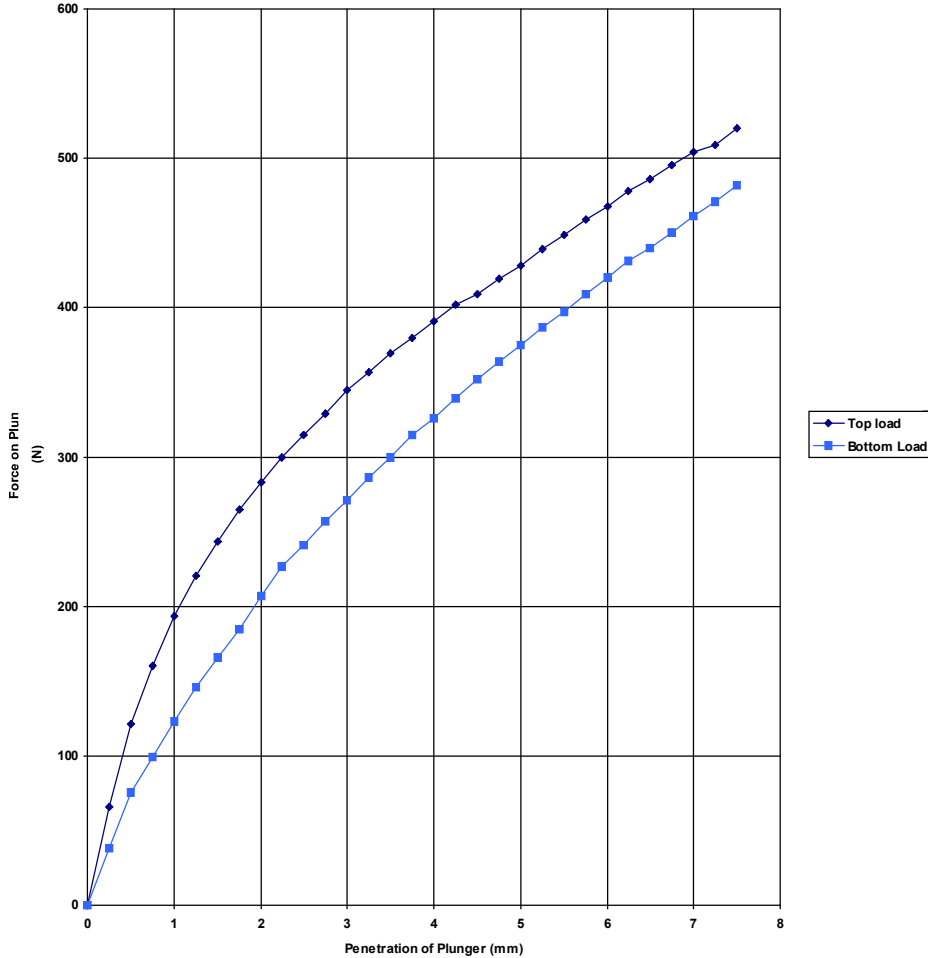
Project No: PC176687

Sample Type B

Sample Ref C64001

## Sample Description

Brown slightly gravelly CLAY with occasional roots.



| Penetration | Top (N) | Bottom (N) |
|-------------|---------|------------|
| 0.25mm      | 66      | 38         |
| 0.50mm      | 121     | 75         |
| 0.75mm      | 160     | 99         |
| 1.00mm      | 193     | 123        |
| 1.25mm      | 220     | 146        |
| 1.50mm      | 243     | 166        |
| 1.75mm      | 265     | 185        |
| 2.00mm      | 283     | 207        |
| 2.25mm      | 300     | 227        |
| 2.50mm      | 315     | 241        |
| 2.75mm      | 329     | 257        |
| 3.00mm      | 345     | 271        |
| 3.25mm      | 357     | 286        |
| 3.50mm      | 369     | 300        |
| 3.75mm      | 380     | 315        |

| Penetration | Top (N) | Bottom (N) |
|-------------|---------|------------|
| 4.00mm      | 391     | 326        |
| 4.25mm      | 402     | 339        |
| 4.50mm      | 409     | 352        |
| 4.75mm      | 419     | 364        |
| 5.00mm      | 428     | 375        |
| 5.25mm      | 439     | 387        |
| 5.50mm      | 449     | 397        |
| 5.75mm      | 459     | 409        |
| 6.00mm      | 468     | 420        |
| 6.25mm      | 478     | 431        |
| 6.50mm      | 486     | 440        |
| 6.75mm      | 495     | 450        |
| 7.00mm      | 504     | 461        |
| 7.25mm      | 509     | 471        |
| 7.50mm      | 520     | 482        |

| Test Details        |                                 |                   |
|---------------------|---------------------------------|-------------------|
| Test Type           | 4.5kg                           |                   |
| Method              | BS1377 Part 4 1990 : Clause 7.0 |                   |
| Surcharge           | 13.60                           | kg                |
| Retained 20mm sieve | 0.2                             | %                 |
| Bulk Density        | 2.06                            | Mg/m <sup>3</sup> |
| Dry Density         | 1.72                            | Mg/m <sup>3</sup> |
| Hand Calculation    | No                              |                   |
| <b>CBR</b>          | <b>Top</b>                      | <b>Bottom</b>     |
| Value               | 2.4                             | 1.9               |
| w%                  | 19.9                            | 19.7              |

Remarks  BS1377 Part 4 1990 : Clause 7.0


05/04/2017

# LABORATORY RESULTS - MCV, Compaction, CBR

Project HATFIELD PLOT 4100

Project No: PC176687

| Sample |                                   |      |               |   | MCV |        | Compaction |                 |                               |                                 |  | CBR   |          |        |          |        |
|--------|-----------------------------------|------|---------------|---|-----|--------|------------|-----------------|-------------------------------|---------------------------------|--|-------|----------|--------|----------|--------|
| Hole   | Depth<br>(Specimen<br>Depth)<br>m | Type | Sample<br>Ref | Description   | MCV | w<br>% | Type       | w<br>(Opt)<br>% | $\rho_d$<br>Mg/m <sup>3</sup> | $\gamma_b$<br>Mg/m <sup>3</sup> | $\gamma_d$<br>(Max)<br>Mg/m <sup>3</sup> | Type  | Top      |        | Bottom   |        |
|        |                                   |      |               |   |     |        |            |                 |                               |                                 |  |       | CBR<br>% | w<br>% | CBR<br>% | w<br>% |
| TP08   | 0.80<br>(0.80)                    | B    | C64007        | Light brown sandy gravelly CLAY.                    |     |        |            |                 |                               | 2.23                            | 2.03                                     | 4.5kg | 13       | 9.6    | 25       | 10.2   |
| TP09   | 0.90<br>(0.90)                    | B    | C64006        | Brown gravelly sandy CLAY with roots.               |     |        |            |                 |                               | 2.12                            | 1.85                                     | 4.5kg | 1.3      | 13.6   | 1.3      | 14.8   |
| TP11   | 0.60<br>(0.60)                    | B    | C64001        | Brown slightly gravelly CLAY with occasional roots. |     |        |            |                 |                               | 2.06                            | 1.72                                     | 4.5kg | 2.4      | 19.9   | 1.9      | 19.7   |
|        |                                   |      |               |   |     |        |            |                 |                               |                                 |  |       |          |        |          |        |

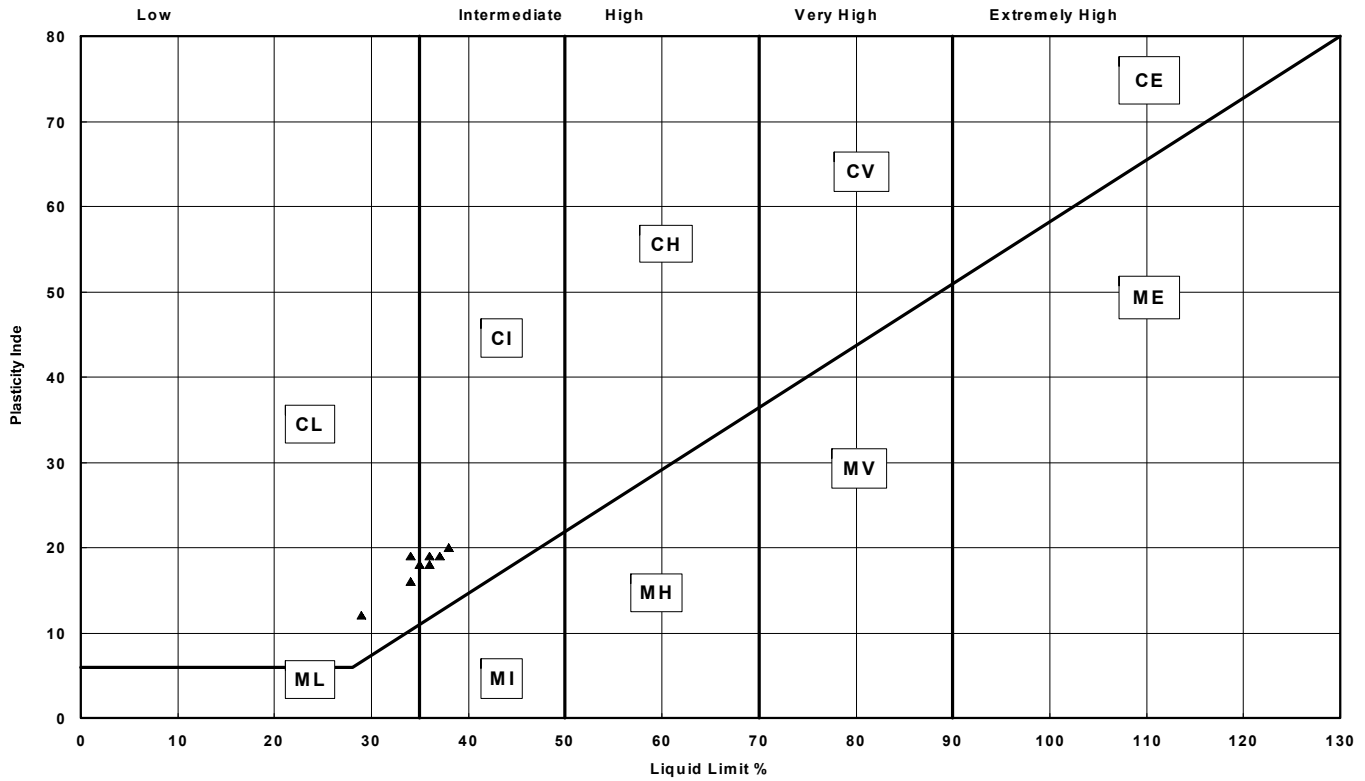
**Remarks**  Particle Density - a=assumed, m=measured \* = at natural moisture content  
 NST - Not suitable for Test  
 Water Content Test performed in accordance with BS EN ISO 17892 - 1: 2014  
 All other Tests performed in accordance with BS1377: 1990

# LABORATORY RESULTS - Classification Chart

Project: HATFIELD PLOT 4100

Project No: PC176687

## PLOT OF PLASTICITY INDEX AGAINST LIQUID LIMIT for all items tested



| Soil Type | Plasticity Characteristics                |
|-----------|---|
| C Clay    | L Low<br>I Intermediate                   |
| M Silt    | H High<br>V Very High<br>E Extremely High |

Table of Soil Types and Plasticity Characteristics from BS 5930 : 1999

Remarks


05/04/2017

# LABORATORY RESULTS - Classification and Strength

Project HATFIELD PLOT 4100

Project No: PC176687

| Sample |                                   |      |               |   | Classification |                          |            |            |                       | Strength |   |                                 |  |                            |                                |
|--------|-----------------------------------|------|---------------|---|----------------|--------------------------|------------|------------|-----------------------|----------|---|---------------------------------|--|----------------------------|--------------------------------|
| Hole   | Depth<br>(Specimen<br>Depth)<br>m | Type | Sample<br>Ref | Description   | Symbol         | $I_p$<br>( $>425$ )<br>% | $w_L$<br>% | $w_p$<br>% | $w$<br>( $p_d$ )<br>% | Test     | $\gamma_b$<br>( $\gamma_d$ )<br>Mg/m <sup>3</sup> | $\sigma_3$<br>kN/m <sup>2</sup> | $\sigma_1 - \sigma_3$<br>kN/m <sup>2</sup> | $c_u$<br>kN/m <sup>2</sup> | $c_{Avg}$<br>kN/m <sup>2</sup> |
| TP01A  | 1.00<br>(1.00)                    | D    | C63584        | Light greenish grey and mottled brown slightly gravelly SILT. |                | (16%)                    | 32         | NP         | 20.5                  |          |   |                                 |  |                            |                                |
| TP04   | 0.80<br>(0.80)                    | D    | C63585        | Brown slightly gravelly SILT.                                 |                | (23%)                    | 28         | NP         | 16.8                  |          |   |                                 |  |                            |                                |
| TP06B  | 1.30<br>(1.30)                    | D    | C63586        | Brown gravelly CLAY.  | CI             | 19<br>(59%)              | 36         | 17         | 15.9                  |          |   |                                 |  |                            |                                |
| TP07   | 1.00<br>(1.00)                    | D    | C63587        | Brown slightly gravelly CLAY.                                 | CI             | 19<br>(14%)              | 37         | 18         | 17.5                  |          |   |                                 |  |                            |                                |
| TP09   | 1.10<br>(1.10)                    | D    | C63588        | Brown and light grey sandy gravelly CLAY.                     | CL             | 19<br>(27%)              | 34         | 15         | 13.3                  |          |   |                                 |  |                            |                                |
| TP10   | 1.20<br>(1.20)                    | D    | C63589        | Brown sandy gravelly CLAY.                                    | CL             | 12<br>(31%)              | 29         | 17         | 12.9                  |          |   |                                 |  |                            |                                |
| TP11   | 0.70<br>(0.70)                    | D    | C63590        | Brown sightly sandy slightly gravelly CLAY.                   | CI             | 18<br>(7%)               | 36         | 18         | 19.4                  |          |   |                                 |  |                            |                                |
| TP12   | 1.10<br>(1.10)                    | D    | C63591        | Brown slightly gravelly CLAY.                                 | CL             | 16<br>(2%)               | 34         | 18         | 20.1                  |          |   |                                 |  |                            |                                |
| TP13   | 0.90<br>(0.90)                    | D    | C63592        | Brown slightly gravelly CLAY.                                 | CI             | 20<br>(1%)               | 38         | 18         | 21.1                  |          |   |                                 |  |                            |                                |
| TP14   | 1.20<br>(1.20)                    | D    | C63593        | Brown slightly gravelly CLAY.                                 | CI             | 18<br>(1%)               | 35         | 17         | 16.9                  |          |   |                                 |  |                            |                                |
|        |                                   |      |               |   |                |                          |            |            |                       |          |   |                                 |  |                            |                                |

Remarks  NST - Not suitable for Test  
 Water Content Test/Bulk Density Test/Particle Density Test performed in accordance with  
 BS EN ISO 17892-1:2014/BS EN ISO 17892-2:2014/BS EN ISO 17892-3:2015  
 All other Tests performed in accordance with BS1377: 1990

**GEOTECHNICS**  
 geotechnical and geoenvironmental specialists

# LABORATORY RESULTS - Particle Size Distribution

**Project:** HATFIELD PLOT 4100

**Hole** TP02

**Sample Depth** 1.00m

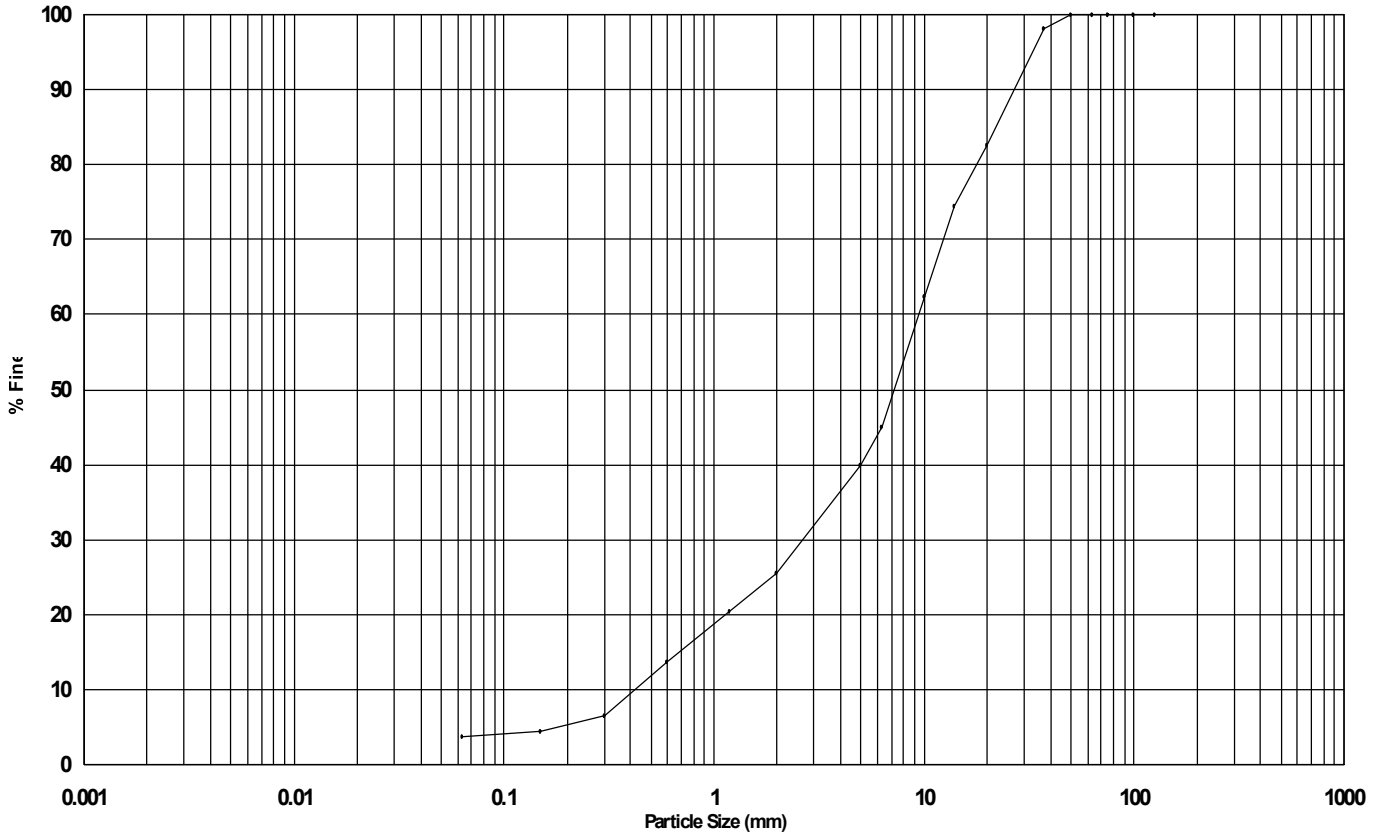
**Project No:** PC176687

**Sample Type** B

**Sample Ref** C64003

## Sample Description

Brown gravelly slightly clayey SAND.




| Classification | CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine   | Medium | Coarse | Cobbles | Boulders |
|----------------|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|----------|
|                |      | SILT |        |        | SAND |        |        | Gravel |        |        |         |          |

| Classification        | % of each |
|-----------------------|-----------|
| SILT (including CLAY) | 4         |
| SAND                  | 21        |
| GRAVEL                | 75        |
| COBBLES               | 0         |
| BOULDERS              | 0         |

| Size    | % Finer |
|---------|---------|
| 125 mm  | 100     |
| 100 mm  | 100     |
| 75 mm   | 100     |
| 63 mm   | 100     |
| 50 mm   | 100     |
| 37.5 mm | 98      |
| 20 mm   | 83      |
| 14 mm   | 74      |
| 10 mm   | 62      |
| 6.3 mm  | 45      |
| 5 mm    | 40      |
| 2 mm    | 25      |
| 1.18 mm | 20      |
| 600 μm  | 14      |
| 300 μm  | 7       |
| 150 μm  | 4       |

| Size  | % Finer |
|-------|---------|
| 63 μm | 4       |

| Uniformity Coefficient  |  |
|-------------------------|--|
| 22.30                   |  |
| Sieving Method          |  |
| Wet sieve               |  |
| Fine Particle Analysis  |  |
| Method                  |  |
| Pre-treated with        |  |
| % loss on Pre-treatment |  |
| Particle Density        |  |

**Remarks**  Test performed in accordance with BS EN ISO 17892-4:2016

05/04/2017