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Our Ref:302001 L01 (00)

21 May 2018

Mr. M. Knight
Taylor Wimpey Strategic Land (Eastern)
Newton House
2 Sark Drive
Newton Leys
Milton Keynes
MK3 5SD

For the attention of Mark Knight

Dear Mark,

RE: GROUND GAS RISK ASSESSMENT – LAND NORTH OF BARKBY LANE, SYSTON, LEICESTERSHIRE

RSK Environment Limited (RSK) was commissioned by Taylor Wimpey Strategic Land (Eastern) (the client) to carry out a Phase 1 and 2 Geo-environmental assessment (ref: 302001 R01 (00), dated 5 April 2018), at a proposed residential development site referred to as North of Barkby Lane, Syston, Leicestershire. At the time of issue of the geo-environmental assessment, the programme of ground gas monitoring was incomplete and therefore a ground gas risk assessment had not been undertaken.

This letter presents and discusses relevant information with regards to ground gas, including the findings of the ground gas monitoring and a ground gas risk assessment of the available monitoring data.

This report must be read in conjunction with RSKs geo-environmental assessment.

This report is subject to the RSK service constraints included in **Appendix A**.

1. SCOPE OF WORKS

The scope of works for the ground gas risk assessment included:

- Production of a refined Conceptual Site Model following exploratory investigatory works in relation to the risk from ground gas;
- Six rounds of spot ground gas monitoring within selected monitoring wells;
- Assessment in accordance with the guidance provided in BS8576:2013, BS8485:2015 and CIRIA report C665; and
- Reporting of ground gas regime with recommendations of ground gas mitigation measures.

2. LIMITATIONS

This assessment has been based on our current understanding of the site, should the ground conditions be different to those encountered (such as if there are considerable areas of made ground) or should the









end use and foundation design differ from those specified, the recommendations made within this report may no longer apply.

3. THE SITE

The site is located to the north of Barkby Road, Syston, Leicestershire, at National Grid reference 463740, 311130 as shown on Figure 1.

The site is irregular in shape comprising open fields currently used for arable farming covering approximately 8.4 hectares and is bounded by a hedgerow. Surface elevations vary with the north-western boundary and southern boundaries at ~63m AOD which reduces towards a brook that flows through the centre of the site, flowing from the sites eastern boundary (~60mAOD) to its western boundary (~58mAOD).

RSK attended site on 22 February 2018, during which no potentially significant ground contamination or geotechnical issues were observed during the site reconnaissance.

4. GROUND CONDITIONS

The site investigation undertaken by RSK revealed that the site is generally underlain by a variable thickness of topsoil directly over Head Deposits in the south and in the central portion of the site, the Birstall Member in the north-west and the Branscombe Formation elsewhere and beneath the superficial deposits.

The ground conditions are summarised in Table 1 and the strata discussed in subsequent sections. The full field descriptions of the strata encountered, list of samples taken, field observations of groundwater, results of in-situ testing, details of monitoring well installations and notes regarding visual or olfactory evidence of contamination are included on the exploratory hole records presented in Appendix B.

Table 1: General succession of strata encountered

| Stratum | Exploratory holes encountered | Depth to top of stratum (m) | Depth to base of stratum (m) |
|---------------------------------------|---|-----------------------------|------------------------------|
| Topsoil | All exploratory holes | Ground Level | 0.2-0.5 |
| Subsoil | TP08, TP09, TP10, TP12, TP15 | 0.2-0.3 | 0.2-0.4 |
| Head Deposits | WS04, WS07, WS08, WS11, WS12, TP05-TP09, TP14, TP15 | 0.2-0.6 | 0.4-1.9 |
| Birstall Member | WS01, TP01, TP02 | 0.2-0.3 | 0.8-2.1 |
| Branscombe Mudstone Formation | All exploratory holes | 0.3-2.4 | 3.4 + (Not pen) |
| Note: Not pen = where the base of a s | stratum was not penetrated by the investi | gation | |

5. REFINED CONCEPTUAL SITE MODEL - GROUND GAS

5.1 Sources of ground gas

Man-made and natural sources of ground gas are located within 250m of the site. The level of risk associated with different sources varies according to how much gas can potentially be generated. The

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bulk gases methane and carbon dioxide are generated by the biodegradation of organic material. This can occur in any soils where organic material is present and especially in landfill waste.

Information presented within RSKs Phase 1 and 2 Geo-Environmental Site Assessment identified the following potential sources of ground gas generation. The provided ground gas potential, level of risk for onsite development and the risk of lateral migration is taken from Chartered Institute of Environmental Health: The Local Authority Guide to Ground Gas. and BS8576:2013 Guidance on Guidance on investigations for ground gas – Permanent gases and Volatile Organic Compounds (VOCs).

Table 2: Sources of ground gas and generation potential

| Source | Distance and Direction | Ground Gas Generation Potential | Level of risk for on site development | Risk of lateral migration | Comment |
|---------------------------------------|------------------------------|---------------------------------------|---|---------------------------|---|
| Underlying superficial deposits | Onsite | Very low | Very low | Negligible | Natural soil strata with a high degradable organic content e.g. peat (note: gas in peat is historically generated and is trapped or adsorbed in the soil so the actual current generation rate is very low) |
| Historical ponds | Onsite | Very low | Very low | Negligible | Three ponds have historically been located on-site along the field boundaries but are no longer shown on later map editions (1966) and may have been backfilled. Estimated to be less than 15m diameter. |
| Historical ponds | 50m west | Very low | Very low | Negligible | Estimated to be less than 15m diameter. |
| Recorded Made Ground | 20m North east | Low | Low / moderate | Very Low | Made Ground (undivided) is shown on the BGS Geoindex Onshore Index adjacent to the eastern part of the northern site boundary with in filled ground beyond. This location appears to relate to the area of the historic landfill site in the environmental database report. |
| Historic landfill (including sludge) | <1m North east | Moderate | Moderate | Very Low | Available records indicate that the landfill consists of deposited waste including household waste and liquid sludge with a first input date of 31 December 1900 but no last input date (EA Ref. EAHLD22640). |

5.2 Receptors

The following potential sensitive receptors are identified with the proposed site development:

- Future site occupants/users;
- Adjacent site users (residential housing adjacent to the western site boundary); and
- Buildings and infrastructure.

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Please note that construction workers have not been identified in the conceptual model as receptors because risks are considered to be managed through health and safety procedures including CDM Regulations receptors have been considered with plausible pathways that may link them.

5.3 Summary of plausible pathways

The routes by which potential sources could plausibly come into contact with the receptors may be along natural routes such as permeable layers of sand and gravel or along faults and fissures. Man-made migration routes can be important, for example, gas can migrate along buried services and the installation of stone columns or piles to provide foundations can create a pathway through an upper impermeable layer that seals the ground gas in a lower stratum.

5.4 Potentially complete pollutant linkages

The following potentially complete pollutant linkages to proposed future end users have been identified:

- 1. Generation and migration of ground gases from onsite historically in-filled ponds.
- 2. Generation and migration of ground gases from offsite historically in-filled ponds.
- 3. Generation and migration of ground gases from underlying superficial deposits.
- 4. Generation and migration of ground gases from offsite recorded Made Ground.
- 5. Generation and migration of ground gases from offsite recorded historical landfill.

A preliminary assessment of the risk associated with each linkage is summarised within Table 3.

The risk classification has been undertaken in accordance with CIRIA C552 (Rudland et al 2001).

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Table 3: Risk estimation for potentially complete pollutant linkages

| Pollutant Linkage | Likelihood | Consequence | Risk and justification |
|--|-------------------|-------------|---|
| 1. Generation and migration of ground gases from onsite historically in-filled ponds. | Unlikely | Severe | Moderate/ Low – The PRA identified a number of ponds that may have been backfilled, which potentially could act as a source of ground gas. Made Ground, thought to be associated with the infill of the ponds, has not been encountered during the intrusive investigation. However this Made Ground cannot be ruled out as a potential source of contamination or ground gas as may be present in discrete pockets that were not encountered during intrusive works but may be encountered during future earthworks. |
| 2. Generation and migration of ground gases from offsite historically in-filled ponds. | Unlikely | Severe | Moderate/ Low – Due to the size and distance of the identified initially infilled ponds located offsite, it is considered that the circumstances for the onsite migration of ground gases generated by this discrete offsite source is that it is improbable the event would occur even. |
| 3. Generation and migration of ground gases from underlying superficial deposits. | Unlikely | Severe | Moderate/ Low - Most natural methane and carbon dioxide in organic deposits such as those encountered within the superficial deposits has already been generated and is largely trapped in the soil. These therefore represent finite sources and the likely risk depends on the volumes present in the ground and factors that could affect surface emissions such as variations in groundwater levels. |
| 4. Generation and migration of ground gases from offsite recorded Made Ground. | Low likelihood | Severe | Moderate – Given its close proximity to the site, circumstances are possible for this area of recorded made ground may generate ground gases, but it is not certain even in the long term that an event would occur. |
| 5. Generation and migration of ground gases from offsite recorded historical landfill. | Low likelihood | Severe | Moderate - Given its close proximity to the site, circumstances are possible for this area of recorded landfill may generate ground gases, but it is not certain even in the long term that an event would occur. |

6. GROUND GAS MONITORING PROGRAMME

6.1 Monitoring well installation and location

In order to characterise the ground gas regime at the site, following the ground investigation works, twelve 50mm diameter monitoring wells were installed within selected exploratory holes.

The number and spacing of the ground gas monitoring locations are generally based on the recommendations set out within CIRIA document CIRA 150. The rationale for these locations is given in Table 4.

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Table 4: Monitoring well location rationale

| Exploratory hole number | Rationale | | | | | | |
|--|--|--|--|--|--|--|--|
| WS01, WS07, WS08, WS09, WS10, WS11, WS12 | Maximise coverage across the proposed development are. | | | | | | |
| WS02, WS03, WS04, WS05, WS06 | Along the boundary adjacent to the adjoining recorded historical landfill. | | | | | | |

In line with BS8576:2013 "Guidance on investigations for ground gas. Permanent gases and Volatile Organic Compounds (VOCs)", each monitoring well was installed with a dual tap gas bungs.

6.2 Ground gas monitoring

A monitoring programme consisting of six monitoring visits over a 2 month period was undertaken. During each monitoring visit, an infrared gas meter was used to measure gas flow, concentrations of carbon dioxide (CO2), methane (CH4) and oxygen (O2) in percentage by volume, while hydrogen sulphide (H2S) and carbon monoxide (CO) were recorded in parts per million. Initial and steady state concentrations were recorded. In addition, during the first monitoring round, all wells were screened with a PID to establish if there are any interferences and cross-sensitivity of other hydrocarbons with the infrared gas meter.

The atmospheric pressure before and during monitoring, together with the weather conditions, was recorded. All monitoring results together with the temporal conditions are contained within Appendix C and discussed below.

A summary of the completed gas monitoring undertaken to date is presented in Table 5. It should be noted that ground gas concentrations were not analysed at each monitoring well location on all visits (i.e. due to high groundwater levels).

Table 5: Ground gas monitoring programme

| Monitoring well | | | Date of m | onitoring | | |
|--------------------------------------|---------------|----------------|------------|------------|------------|------------|
| Monitoring well | 08/03/2018 | 15/03/2018 | 20/03/2018 | 26/03/2018 | 05/04/2018 | 11/04/2018 |
| WS01 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| WS02 | ✓ | Х | ✓ | ✓ | ✓ | ✓ |
| WS03 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| WS04 | ✓ | Х | ✓ | ✓ | Х | Х |
| WS05 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| WS06 | ✓ | Х | ✓ | ✓ | ✓ | ✓ |
| WS07 – WS10 | Х | Х | Х | Х | Х | Х |
| WS11 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| WS12 | ✓ | ✓ | ✓ | ✓ | Х | Х |
| ✓ - Monitored, X – | Not monitored | due to flooded | area. | | | |

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The results of the ground gas monitoring are given in Appendix G. The minimum and maximum results are recorded in Table 6.

Table 6: Summary of ground gas monitoring results

| Borehole | Response zone | Number of monitoring visits | Number of monitoring visits Max Methane (%) | | Min Oxygen (%) | Max Steady state flow rate (I/hr) | Atmospheric Pressure |
|----------|---------------|-----------------------------|---|-----|----------------|--------------------------------------|----------------------|
| WS01 | 1.0 – 3.0 | 6 | <0.1 | 0.8 | 19.4 | 0.9 | 984 - 1012 |
| WS02 | 1.0 – 2.0 | 5 | <0.1 | 0.7 | 18.8 | 0.3 | 985 - 1011 |
| WS03 | 1.0 – 2.0 | 6 | <0.1 | 0.4 | 18.4 | 0.5 | 984 - 1010 |
| WS04 | 1.0 – 5.0 | 3 | <0.1 | 5.3 | 0.1 | 2.7 | 986 - 1012 |
| WS05 | 1.0 – 2.0 | 6 | <0.1 | 0.8 | 19.1 | 0.7 | 984 - 1011 |
| WS06 | 1.0 – 2.0 | 5 | <0.1 | 6.0 | 18.4 | 0.6 | 991 - 1012 |
| WS11 | 1.0 – 2.0 | 6 | <0.1 | 0.7 | 18.9 | 0.4 | 984 - 1012 |
| WS12 | 1.0 – 3.0 | 4 | <0.1 | 1.0 | 20.2 | 0.1 | 987 - 1012 |

Notes: * indicates stabilisation of flow reading was not achieved during monitoring.

bgl - below ground level

7. QUANTITATIVE RISK ASSESSMENT

CIRIA C665 identifies two types of development, termed Situation A (modified Wilson and Card method), appropriate to all development excluding traditional low-rise construction, and Situation B (National House-Building Council, NHBC) only appropriate to traditional low-rise construction with ventilated subfloor voids.

Both methods are based on calculations of the limiting borehole gas volume flow for methane and carbon dioxide, renamed as the gas screening value (GSV). The GSV (litres of gas per hour) is calculated by multiplying borehole flow rate (litres per hour) and gas concentration (percent by volume).

In both situations, it is important to note that the GSV thresholds are guideline values and not absolute. The GSV thresholds may be exceeded in certain circumstances, if the site conceptual model indicates it is safe to do so. Similarly, consideration of additional factors such as very high concentrations of methane, should lead to consideration of the need to adopt a higher risk classification than the GSV threshold indicates.

The site is to be redeveloped with residential housing and therefore falls under Situation B. Situation B is a characterisation system developed by the NHBC (Boyle and Witherington, 2007), which relates only to low rise housing development constructed with a clear ventilated under floor void. The system provides a risk-based approach that is designed to allow an identification of the required gas protection measures for

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low-rise housing by comparing the measured gas emission rates to generic "Traffic Lights". The Traffic Lights include typical maximum concentrations that are provided for initial screening purposes and risk-based GSVs for situations where the typical maximum concentrations are exceeded. Based on the typical maximum gas concentrations and the GSVs, the appropriate Traffic Light, ranging from Green through Amber 1 and Amber 2 to Red, is determined from Table 8.7 of CIRIA C665.

The results of the monitoring have recorded a maximum steady state flow rate of 2.7l/ hr (WS04). All other exploratory holes recorded methane concentrations below 0.1%. The maximum concentration of carbon dioxide of 6.0% (WS06).

The calculated GSV for methane is <0.01 l/hr and the GSV for carbon dioxide is 0.16 l/hr.

Due to lack of methane recorded within the monitoring wells, the source of the carbon dioxide may be from superficial deposits rather than migration from offsite sources.

Based upon the current understanding of the conceptual site model and the calculated GSVs the site has been characterised as **Amber 1.** This is further confirmed by the reported maximum carbon dioxide being above the NHBC (Boyle & Witherington, 2007) maximum concentration of 5 % for a Green site.

8. MITGATION MEASURES

The results of the ground gas assessment in Section 7 indicate a potential risk from the generation and ingress of ground gases into the buildings proposed on the subject site. In order to mitigate the risk from the generation, migration and ingress of ground gases protection measures should to be incorporated into the proposed development.

Considering the anticipated development type; low rise residential dwellings with a clear ventilated sub floor void, the gas risk has been assessed using the NHBC traffic light system. Based on the current understanding of the conceptual site model and results of ground gas monitoring a risk classification of Amber 1 has been determined for the site. Therefore, in addition to a subfloor void designed to allow one air exchange per day, the installation of a proprietary ground gas membrane will be required within residential plots. The membrane should be installed to achieve complete integrity across the entire building footprint and should include the sealing of penetrations and joints. The chosen membrane should comply with the recommendations made within BS8485:2015, which in summary states that membranes should be;

- sufficiently impervious to methane and carbon dioxide;
- capable after installation of providing a complete barrier to the entry of the relevant gas.
- sufficiently durable to remain serviceable for the anticipated life of the building and duration of gas emissions;
- sufficiently strong to withstand in service stresses (e.g. due to ground settlement if placed below a floor slab);
- sufficiently strong to withstand the installation process and following construction activities until covered (e.g. penetration from steel fibres in fibre reinforced concrete, penetration of reinforcement ties, tearing due to working above it, and dropping tools); and
- chemically resistant to degradation by other contaminants that might be present.

In accordance with BS8485, a detailed design report (which this report does not constitute) should be prepared for proposed mitigation measures, and should be provided to and agreed with the local

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authority and NHBC prior to construction works. As a minimum, the design report should include a combination of the following:

- Ground conditions and gas conceptualisation (severity of gas regime and sensitivity of proposed end-use)
- Building and construction related details pertinent to the design of gas mitigation system/measures including, but not limited to; foundation type, floor slab, wall construction and any complex detailing
- Gas protection system design that is sufficient to mitigate the gas risk and be practically installed given the building and construction related details. This is likely to include venting calculations (to demonstrate air exchange of one volume per day), specification details for products and components suitable for constructing the system, installation methodology and installer qualifications/experience.
- A verification plan (prepared in accordance with CIRIA C735 and as discussed below).

A verification plan in accordance with CIRIA C735 should be prepared at the design stage and included within the design report. The verification plan should clearly identify the verification tasks; the frequency that such tasks shall be undertaken and by whom; and set out any regulatory requirements and contingency plans. As specified within CIRIA C735, the verification activities required will be dependent on a number of factors in addition to the gas regime. These factors may include (but are not limited to): the qualifications/experience of the installers; the complexity of the design; and the number of plots requiring verification etc.

9. CLOSING REMARKS

We trust the above meets with your approval. Should you require further information or clarification on the above please do not hesitate to contact either of the undersigned.

Yours sincerely

FOR RSK ENVIRONMENT LTD

Kevin Holmes

Senior Geo-Environmental Engineer (Author)

Patrick Norwood

Senior Geo-Environmental Engineer (Reviewer)

Enc.

Figures

Appendix A Service constraints

Appendix B Exploratory Hole Records
Appendix C Ground gas monitoring data

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BIBLIOGRAPHY

Boyle, R. A. and Witherington, P. J. (2007), 'Guidance on Evaluation of Development Proposals on Sites where Methane and Carbon Dioxide are Present', National House-Building Council and RSK Group.

RSK Environment Ltd, Land off Leicester Road, Melton Mowbray: A) Additional investigation (arsenic) around WS12, and B) Additional geotechnical investigation (Ref. T301828 L02(00)_PN; dated December 2016).

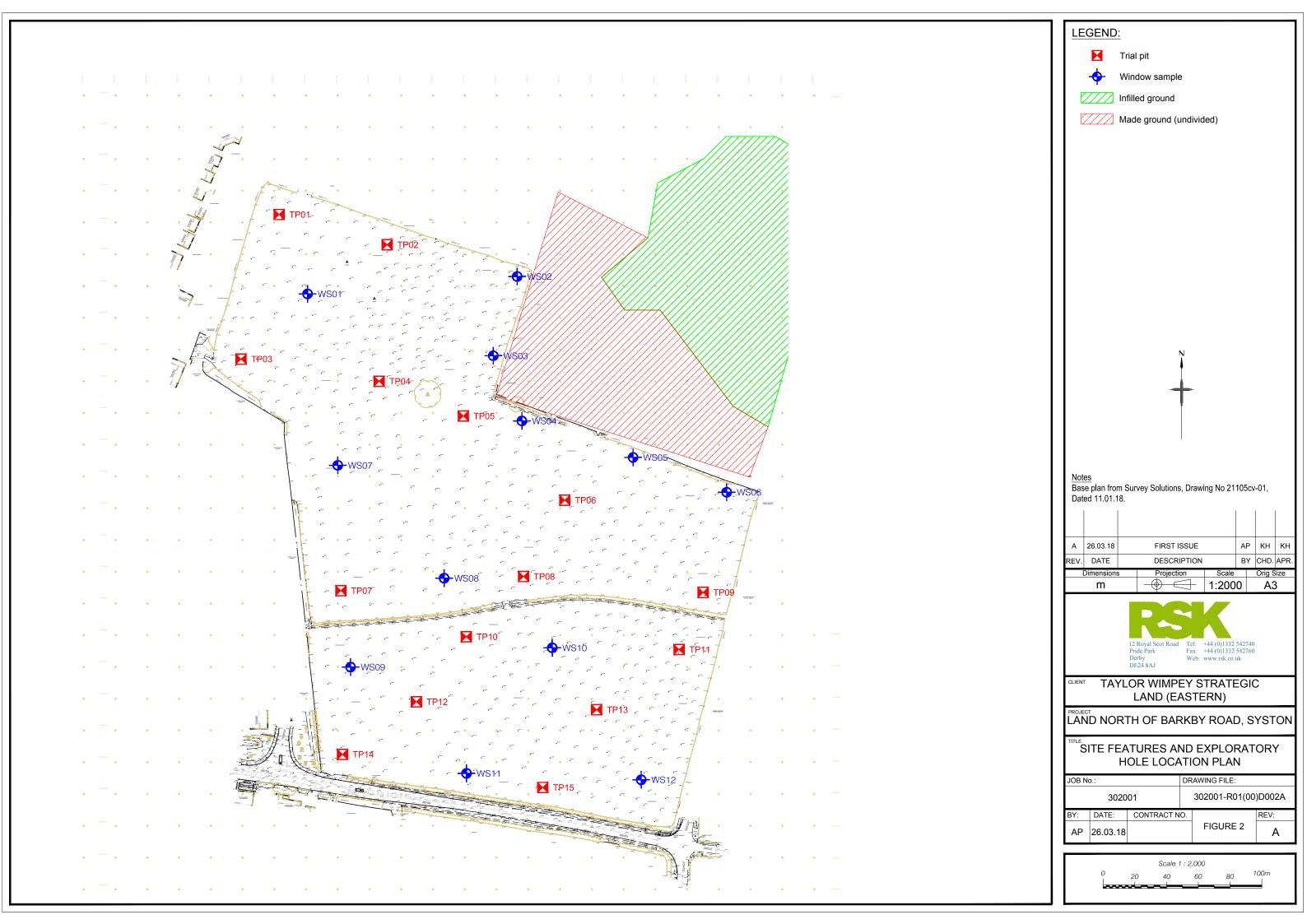
RSK Environment Ltd, Land off Leicester Road, Melton Mowbray: Geo-environmental Site Assessment (Ref. 301828-R01(01); dated October 2016).

Wilson, S., Oliver, S., Mallet, H., Hutchings, H. and Card, G. (2007), CIRIA Report C665: Assessing risks posed by hazardous ground gases to buildings (London: CIRIA).

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FIGURES





APPENDIX A SERVICE CONSTRAINTS

- This report and the site investigation carried out in connection with the report (together the "Services") were compiled and carried out by RSK Environment Limited (RSK) for Abbey Homes Ltd (the "client") in accordance with the terms of a contract between RSK and the "client", dated 11th March 2015. The Services were performed by RSK with the skill and care ordinarily exercised by a reasonable environmental consultant at the time the Services were performed. Further, and in particular, the Services were performed by RSK taking into account the limits of the scope of works required by the client, the time scale involved and the resources, including financial and manpower resources, agreed between RSK and the client.
- Other than that expressly contained in paragraph 1 above, RSK provides no other representation or warranty whether express or implied, in relation to the Services.
- Unless otherwise agreed in writing the Services were performed by RSK exclusively for the purposes of the client. RSK is not aware of any interest of or reliance by any party other than the client in or on the Services. Unless expressly provided in writing, RSK does not authorise, consent or condone any party other than the client relying upon the Services. Should this report or any part of this report, or otherwise details of the Services or any part of the Services be made known to any such party, and such party relies thereon that party does so wholly at its own and sole risk and RSK disclaims any liability to such parties. Any such party would be well advised to seek independent advice from a competent environmental consultant and/or lawyer.
- It is RSK's understanding that this report is to be used for the purpose described in the introduction to the report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the report is used, or the proposed use of the site change, this report may no longer be valid and any further use of or reliance upon the report in those circumstances by the client without RSK 's review and advice shall be at the client's sole and own risk. Should RSK be requested to review the report after the date of this report, RSK shall be entitled to additional payment at the then existing rates or such other terms as agreed between RSK and the client.
- The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should not be relied upon in the future without the written advice of RSK. In the absence of such written advice of RSK, reliance on the report in the future shall be at the client's own and sole risk. Should RSK be requested to review the report in the future, RSK shall be entitled to additional payment at the then existing rate or such other terms as may be agreed between RSK and the client.
- The observations and conclusions described in this report are based solely upon the Services which were provided pursuant to the agreement between the client and RSK. RSK has not performed any observations, investigations, studies or testing not specifically set out or required by the contract between the client and RSK. RSK is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this report, RSK did not seek to evaluate the presence on or off the site of asbestos, electromagnetic fields, lead paint, heavy metals, radon gas or other radioactive or hazardous materials.
- The Services are based upon RSK's observations of existing physical conditions at the Site gained from a walk-over survey of the site together with RSK's interpretation of information including documentation, obtained from third parties and from the client on the history and usage of the site. The Services are also based on information and/or analysis provided by independent testing and information services or laboratories upon which RSK was reasonably entitled to rely. The Services clearly are limited by the accuracy of the information, including documentation, reviewed by RSK and the observations possible at the time of the walk-over survey. Further RSK was not authorised and did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the Services. RSK is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to RSK and including the doing of any independent investigation of the information provided to RSK save as otherwise provided in the terms of the contract between the client and RSK.
- The intrusive environmental site investigation aspects of the Services is a limited sampling of the site at pre-determined borehole and soil vapour locations based on the operational configuration of the site. The conclusions given in this report are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around those locations. The extent of the limited area depends on the soil and groundwater conditions, together with the position of any current structures and underground facilities and natural and other activities on site. In addition chemical analysis was carried out for a limited number of parameters [as stipulated in the contract between the client and RSK] [based on an understanding of the available operational and historical information], and it should not be inferred that other chemical species are not present.
- Any site drawing(s) provided in this report is (are) not meant to be an accurate base plan, but is (are) used to present the general relative
 locations of features on, and surrounding, the site. Features (boreholes, trial pits etc) annotated on site plans are not drawn to scale but are
 centred over the approximate location. Such features should not be used for setting out and should be considered indicative only.

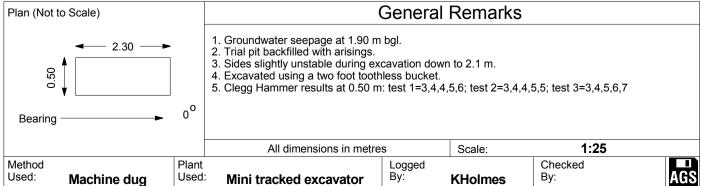


APPENDIX B EXPLORATORY HOLE RECORDS



| Contract: | | | | Client: | | Trial Pit: | | | |
|---------------------|--------|-----------|-------|-----------|----------------------------|------------|---|----|-----|
| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | impey Strategic Land | | | TI | P01 |
| Contract Ref: | Start: | 23.02.18 | Grour | nd Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 23.02.18 | | 61.86 | E:463623.0 N:311325.0 | | 1 | of | 1 |

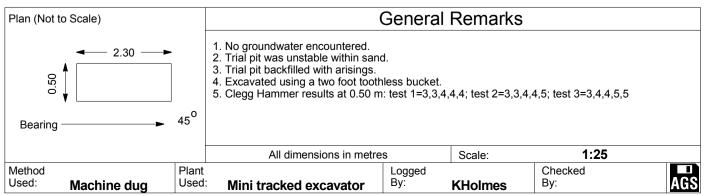
| | 302 | 50 i | Ena: | 23.0 | 2.10 | 01.00 E.403023.0 N.311323.0 | <u> </u> | OT I |
|--|---------|-----------------|-----------|----------|----------|--|--|--|
| San | nples a | and In-si | itu Tests | Water | Backfill | Description of Strata | Depth (Thick | Material Graphic |
| Depth | No | Туре | Results | Š | Ba | • | ness) | Legend |
| - | | | | | | Dark brown silty slightly gravelly CLAY. Gravel is fine to coarse. Fine rootlets noted. (TOPSOIL) | (0.30) | 17 - 31 17 - 3 17 - 3 17 - 3 17 - 3 |
| 0.40 | 1 | D | | | | Orangish brown clayey slightly gravelly fine to coarse SAND. Gravel is fine to coarse subrounded to rounded quartzite, (BIRSTALL MEMBER) | - | |
| 1.20 | 1 | ES | T+V+J | ≈ | | from 1.4 m, becoming reddish and damp | -(1.80) - - - - - - - | |
| 2.00 | 1 | В | | | | | 2.10 | |
| <u>. </u> | | | | | | Stiff red slightly sandy CLAY. Sand is fine. Occasional anhydrite noted. | - | |
| - | | | | | | (BRANSCOMBE MUDSTONE FORMATION) | (0.40) | |
| | | | | | | | 2.50 | |
| . - | | | | | | Trial pit terminated at 2.50 m depth. | - | |
| 2.00 | | | | | | | - | |





| Contract: | | | | Client: | | | | | |
|---------------------|--------|-----------|-------|-----------|----------------------------|--------|---|----|-----|
| Land North of Barkb | y Ro | ad, Systo | n | Taylor W | /impey Strategic Land | | | TI | P02 |
| Contract Ref: | Start: | 23.02.18 | Grour | nd Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 23.02.18 | | 62.88 | E:463691.1 N:311306.0 | | 1 | of | 1 |

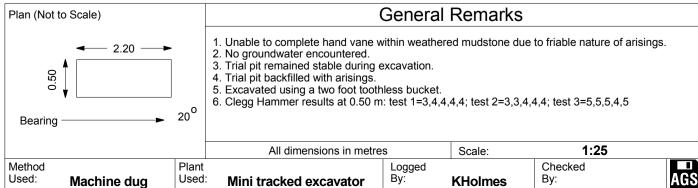
| | 502 (| <i>,</i> | Ena: | 23.02 | 2. 10 | 02.00 E.403031.1 N.311300.0 | | OT I |
|-----------------------|--------------|--------------|-------------------------|-------|----------|---|------------------|---------------------|
| | _ | | itu Tests | Water | Backfill | Description of Strata | Depth (Thick | Material Graphic |
| Depth | No | Туре | Results | > | ağ W | Dark brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is subrounded to subangular flint. Fine rootlets noted. | ness) | Legend |
| | | | | | | (TOPSOIL) Orangish brown slightly gravelly clayey fine to medium SAND. Gravel is fine to coarse, subrounded to rounded quartzite. (BIRSTALL MEMBER) | 0.20 | |
| 1.30 | 1 1 | ES B | V+J | | | | 2.30 | |
| 2.30 | 2 2 | ES D V | V+J 3,=>130/>130/>13 | 30 | | Stiff red slightly sandy CLAY. Localised grey mottling and rare anhydrite. (BRANSCOMBE MUDSTONE FORMATION) Trial pit terminated at 2.50 m depth. | 2.50 | |
| - - - - - | | | | | | | - - - - | |





| Contract: | | | | Client: | | Trial Pit: | | | |
|---------------------|--------|-----------|-------|-----------|----------------------------|------------|---|----|-----|
| Land North of Barkb | y Ro | ad, Systo | n | Taylor W | impey Strategic Land | | | TI | P03 |
| Contract Ref: | Start: | 23.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 23.02.18 | | 58.99 | E:463599.1 N:311234.0 | | 1 | of | 1 |

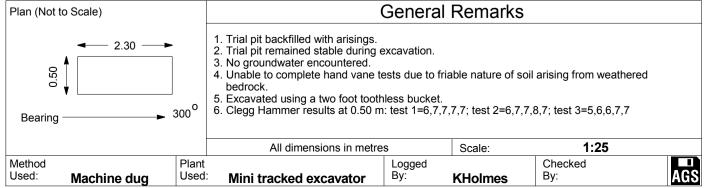
| <u> </u> | 502 (| <i>,</i> , | Liiu. | 25.02 | L. 10 | C:-00033:1 N:011204.0 | | 01 1 |
|------------------|--------------|------------|--------------------------|-------|----------|---|-----------------|---------------------|
| | | | tu Tests | Water | Backfill | Description of Strata | Depth (Thick | Material Graphic |
| Depth | No | Туре | Results | > | Ba | | ness) | Legend |
| - | | | | | | Dark brown slightly gravelly sandy CLAY. Sand is fine. Occasional rootlets. (TOPSOIL) | (0.30) | <u> </u> |
| 0.60 | | V | c _u =70/72/66 | | | Firm brown gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse well rounded to angular flint. Rare anhydrite noted. (BRANSCOMBE MUDSTONE FORMATION) | (0.50) | |
| - - - - | | | | | | Firm to stiff pinkish brown slightly sandy CLAY. (BRANSCOMBE MUDSTONE FORMATION) | 0.80 | |
| - - - - | | | | | | | 2.00 | |
| - - - | | | | | | Trial pit terminated at 2.00 m depth due to dense geology. | - - - | |
| - - - | | | | | | | - - | |
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| Contract: | | | | Client: | | Trial Pit: | | | |
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| Land North of Barkb | y Ro | ad, Systo | n | Taylor W | /impey Strategic Land | | | TI | P04 |
| Contract Ref: | Start: | 23.02.18 | Grour | nd Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 23.02.18 | | 59.28 | E:463686.0 N:311220.0 | | 1 | of | 1 |

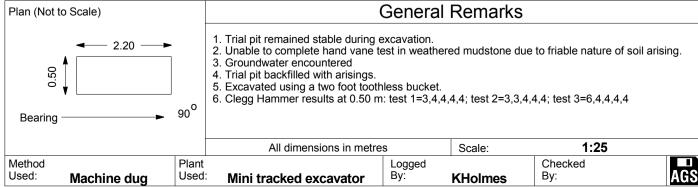
| | 502 | , , , , , , , , , , , , , , , , , , , | LIIU. | 23.0 | 2.10 | 23.20 E.400000.0 N.011220.0 | • | 01 1 |
|--------------|------------|---|-----------------------------|-------|----------|--|-----------------|---|
| | ples a | and In-s | itu Tests | Water | Backfill | Description of Strata | Depth (Thick | Material Graphic |
| Depth | No | Туре | Results | Š | Ba | | ness) | Legend |
| - | | | | | | Dark brown silty sandy slightly gravelly CLAY. Sand is fine. Gravel is fine to coarse subangular to angular flint with rare brick and slate. (TOPSOIL) | (0.50) | \$\frac{1}{2}\cdot \frac{1}{2}\cdot \frac |
| 0.60 | | V | c _u =102/102/120 | | | Firm reddish brown slightly sandy CLAY. Sand is fine. Weathered surface. (BRANSCOMBE MUDSTONE FORMATION) | - | |
| 0.80 | 1 1 | ES D | V+J | | | | _ | |
| | | | | | | | (1.50) | |
| 1.50 1.50 | 2 2 | ES D | V+J | | | | - - - | |
| _ | | | | | | | 2.00 | |
| _ | | | | | | Trial pit terminated at 2.00 m depth due to dense geology. | - | |
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| Contract: | | | | Client: | | Trial Pit: | | | |
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| Land North of Bark | y Ro | ad, Systo | n | Taylor W | /impey Strategic Land | | | T | P05 |
| Contract Ref: | Start: | 23.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 23.02.18 | | 58.54 | E:463739.1 N:311198.1 | | 1 | of | 1_ |

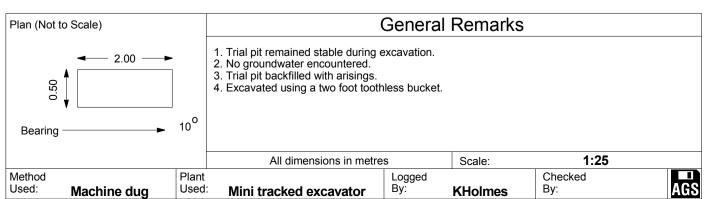
| JUZ1 | 50 i | <u>⊏110.</u> | 23.0 | 2.10 | 50.54 E.403/35.1 N.311130.1 | I | OT I |
|--------|-----------------|--------------------------------|------------------------------|---|---|--|---|
| ples a | and In-si | tu Tests | ater | ckfill | Description of Strata | Depth (Thick | Material Graphic |
| No | Туре | Results | Š | Ba | · | ness) | |
| | | | | | Dark brown silty sandy slightly gravelly CLAY. Sand is fine. Gravel is fine to coarse subrounded to angular. Damp topsoil. (TOPSOIL) | F | 1/2 · 3 · 1/2 · |
| | | | | | Firm brown CLAY. (HEAD DEPOSITS) | - | |
| | V | c _u =66/68/70 | | | | (0.70) | |
| 1 | ES D | V+J | | | | | |
| | | | | | Soft to firm greenish grey CLAY | 1.00 | |
| | V | c _u =60/52/48 | | | (HEAD DEPOSITS) | _ | |
| 2 2 | ES D | V+J | 1 | | | - (1.20) | |
| | V | 0 -52/59/62 | | | structure evident, some fine rootlets. Organic odours noted. | - | |
| | , v | C _u =32/36/02 | | | | 2 20 | |
| | | | | | Weak red distinctly weathered MUDSTONE. (BRANSCOMBE MUDSTONE FORMATION) | (0.30) | |
| 3 | D | | | | Trial pit terminated at 2.50 m depth. | 2.50 | |
| | | | | | | - | |
| | No 1 1 1 2 2 2 | No Type V 1 ES D V 2 ES D V | V C _u =66/68/70 | No Type Results No Type N | No Type Results No Type N | Description of Strata No Type Results | Description of Strata Depth Comparison Depth Description of Strata |





| Contract: | | | | Client: | | Trial Pit: | | | |
|---------------------|--------|-----------|-------|----------|----------------------------|------------|---|----|-----|
| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | impey Strategic Land | | | TI | P06 |
| Contract Ref: | Start: | 23.02.18 | Groun | d Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 23.02.18 | | 59.00 | E:463802.9 N:311145.1 | | 1 | of | 1 |

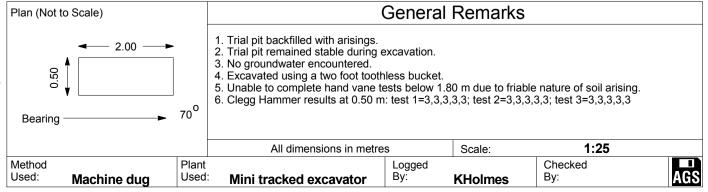
| | 3020 | JU1 | End: | 23.02.18 | 59.00 | E:463802.9 N:311145.1 | | 1 | of 1 |
|----------------------|------|---------|------------------------------|----------|--|---|---------|------------------------|--|
| Sam Depth | | nd In-s | itu Tests Results | Water | | Description of Strata | (7 | epth Γhick less) | Material Graphic Legend |
| | | | | | Gravel is fine to coarse s (TOPSOIL) | r sandy slightly gravelly CLAY. Sand is subrounded flint. Occasional rootlets not | fine. | 0.30) | 1/ · sh 1/ · · · · · · · · · · · · · · · · · · |
| - | | | | | Firm brown slightly sai anhydrite noted. (HEAD DEPOSITS) | ndy CLAY. Sand is fine to medium. | - | | |
| 0.60 | | V | c _u =68/78/88 | | from 0.60 m, beco filled partings. | oming greenish grey with some orange | sand [(| 0.70) | |
| - - 1.10 | 1 | ES | V+J | | Weak reddish brown dis (BRANSCOMBE MUDS | tinctly weathered MUDSTONE. TONE FORMATION) | | 1.00 | |
| 1.10 1.10 1.10 | 1 | D V | c _u =74/70/70 | | | , | - | | |
| - - - | | | | | | | - | 1.50) | |
| - | | ,, | . 100/110/110 | | | | - | 1.50) | |
| 2.00 | | | c _u =>130/112/110 | | | | | | |
| 2.30 | 2 | D | | | Trial pit terminated at 2.5 | 50 m depth. | - 2 | 2.50 | |
| - - - | | | | | | | | | |
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| Contract: | | | | Client: | | Trial Pit: | | | |
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| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | /impey Strategic Land | | | TI | P07 |
| Contract Ref: | Start: | 23.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 23.02.18 | | 58.67 | E:463661.9 N:311088.1 | | 1 | of | 1 |

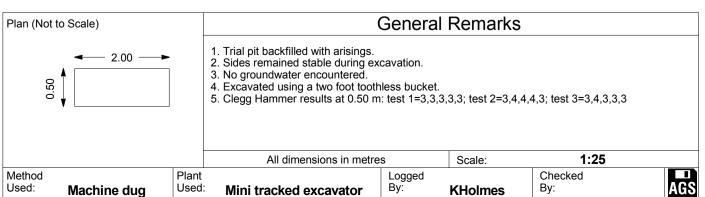
| • | 3020 | 001 | End: | 23.02.18 | 58.67 | E:463661.9 N:311088.1 | 1 | of 1 |
|------------------------|--------|--------------|---------------------------------|----------|---|--|--------------------------|--|
| Sam | ples a | 1 | tu Tests Results | Water | De: | scription of Strata | Depth (Thick ness) | Material Graphic Legend |
| - | | 31 | | | Dark brown silty sandy slig fine to medium rounded flint (TOPSOIL) | htly gravelly CLAY. Sand is fine. Grav t. Rootlets noted. | | 74 1 ^N · · 7/2 1 ^N · · 7 |
| - | | | | | Soft to firm greenish grey s Gravel is fine to coarse sub (HEAD DEPOSITS) | sandy slightly gravelly CLAY. Sand is rounded flint. | | |
| 0.60 | | V | c _u =52/54/62 | | | | (1.10) | |
| 1.00 1.00 - 1.00 | 1 1 | ES D V | J+V c _u =36/42/48 | | from 1.10 m to 1.40 m, | very sandy and very gravelly. | - | |
| - | | | | | Weak reddish brown distino (BRANSCOMBE MUDSTO | ctly weathered MUDSTONE. NE FORMATION) | 1.40 | <u></u> |
| 1.80 | 2 2 | ES D | J+V | | | | (1.10) | |
| _1.80 - | | V | c _u =94/98/104 | | | | - | |
| - | | | | | Trial pit terminated at 2.50 r | n depth. | 2.50 | |
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| Contract: | | | | Client: | | Trial Pit: | | | |
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| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | impey Strategic Land | | | TI | P08 |
| Contract Ref: | Start: | 22.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 22.02.18 | | 59.35 | E:463777.0 N:311097.0 | | 1 | of | 1 |

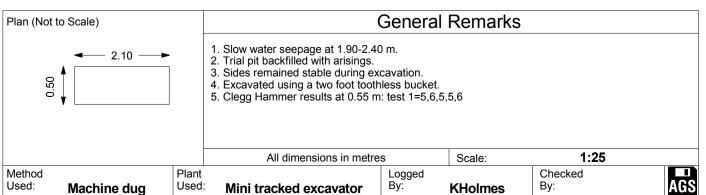
| | | 020 | <i>J</i> U1 | End: | 22.02.18 | 59.35 | E:463///.0 N:31109/.0 | 1 | (| of 1 |
|---|--------------------------------|---------|--------------|--------------------------|----------|--|---|-------------------|-----|---------------------|
| | - | | | tu Tests | Water | | Description of Strata | (Th | ick | Material Graphic |
| | Depth - 0.20 | No 1 | Type | Results | > B | coarse. Gravel is fine to coarse. | sandy slightly gravelly CLAY. Sand is f to coarse quartzite and flint. Occas | ine to sional 0.2 | , | Legend |
| | 0.50 | | V | c _u =58/68/78 | | \(TOPSOIL) Firm brown slightly sar coarse. Gravel is fine to (SUBSOIL) | ndy slightly gravelly CLAY. Sand is fi coarse quartzite and flint. | , | | |
| | - - - | | V | C _u =30/00/70 | | XI · | / CLAY. Sand is fine to medium. | - | 00 | |
| | 0.90 -0.90 - | 1 2 | D ES | | | | | [0.8 | 90) | |
| | - | | | | | Firm greenish grey sand (HEAD DEPOSITS) | y CLAY. Sand is fine. Fissured in areas. | 1.5 | 50 | |
| | 1.80 1.80 - 1.80 1.80 | 2 3 | D ES V | c _u =82/82/86 | | | | (0.7 | 70) | |
| | - | | | | | Firm to stiff red slightly sa (BRANSCOMBE MUDS | andy CLAY. Sand is fine. FONE FORMATION) | 2.2 | | |
| | 2.50 2.50 | 3 | D V | c _u =66/76/86 | | Trial pit terminated at 2.6 | 0 m depth. | 2.6 | 30 | |
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| Contract: | | | | Client: | | Trial Pit: | | | |
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| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | /impey Strategic Land | | | TI | P09 |
| Contract Ref: | Start: | 22.02.18 | Grour | nd Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 22.02.18 | | 60.89 | E:463890.1 N:311087.0 | | 1 | of | 1 |

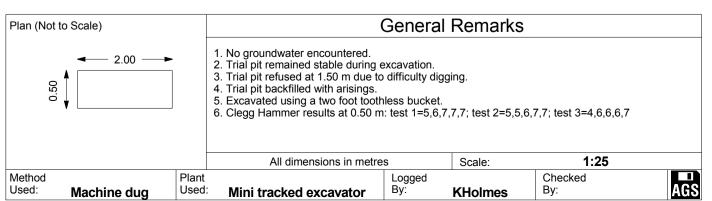
| • | , UZ | 50 i | Liiu. | 22.04 | 2.10 | CO.03 E.400030.1 14.0 1 1007.0 | | 01 1 |
|--------|------|-----------------|---------------------------|-------|----------|--|-----------------|---|
| | 1 | 1 | itu Tests | Water | Backfill | Description of Strata | Depth (Thick | Material Graphic |
| Depth | No | Type | Results | > | B | F11 | ness) | Legend |
| 0.10 | 1 | ES | | | | Firm dark brown silty slighty sandy slightly gravelly CLAY. Sand is fine. Gravel is fine to coarse angular flint and quartzite. (TOPSOIL) Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to | 0.25 | 1/2 · 2/2 · 1/2 · 2/2 · |
| - 0.55 | | V | c _u =54/66/56 | | | coarse subangular to rounded flint and quartzite. (SUBSOIL) | 0.60 | |
| 0.80 | 2 | ES | C _u =34/66/36 | | | Firm reddish brown slightly sandy CLAY. Sand is fine with occassional anhydrite. (HEAD DEPOSITS) | _ | |
| 0.80 | 3 | D | | | | | _ | |
| 1.20 | | V | c _u =70/92/100 | | | | (1.30) | |
| - | | | | | | | 1.90 | |
| 1.90 | 1 | V D | c _u =94/88/92 | | | Firm greenish brown sandy CLAY. Sand is fine. Damp. (HEAD DEPOSITS) | (0.50) | |
| - | | | | | | Weak red distinctly weathered MUDSTONE. (BRANSCOMBE MUDSTONE FORMATION) | 2.40 | |
| - | | | | | | | 2.80 | |
| 2.80 | 2 | D | | | | Trial pit terminated at 2.80 m depth. | _ | |
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| Contract: | | | | Client: | | Trial Pit: | | | |
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| Land North of Barkb | y Ro | ad, Systo | n | Taylor W | /impey Strategic Land | | | TI | P10 |
| Contract Ref: | Start: | 22.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 22.02.18 | | 59.52 | E:463740.9 N:311059.0 | | 1 | of | 1 |

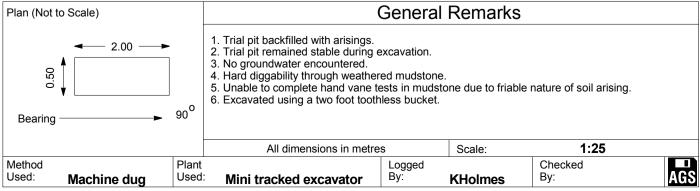
| • | 3020 | ו טכ | Ena: | 22.04 | 2.10 | 39.32 | E.403/40.9 N.311039.0 | <u> </u> | OT I |
|-----------------|------|------|--------------------------|-------|-------------|--|--|-----------------|---|
| | _ | ı | itu Tests | Water | Backfill | | Description of Strata | Depth (Thick | Material Graphic |
| Depth | No | Туре | Results | × | Ва | | | ness) | Legend |
| - | | | | | | Firm brown silty sandy C (TOPSOIL) | LAY. Sand is fine. Rootlets noted. | (0.30) | 1/2 · 2/4 · 1/2 · 2/4 · |
| 0.50 | | V | c _u =78/76/90 | | | Firm brown slightly san coarse subangular to rou (SUBSOIL) | dy slightly gravelly CLAY. Gravel is fin Inded flint and quartzite. | e to (0.40) | |
| 1.00 | 1 | D | | | | Firm to stiff reddish br medium. (BRANSCOMBE MUDS | rown slightly sandy CLAY. Sand is fine | e to | |
| 1.00 | | | | | | | | - (0.80) | |
| - | | | | | **** | Trial nit terminated at 1 F | 50 m depth due to dense geology. | 1.50 | ==== |
| - | | | | | | That pit terminated at 1.5 | of in depth due to defise geology. | - | |
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| Contract: | | | | Client: | | Trial Pit | : | | |
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| Land North of Bark | y Ro | ad, Systo | n | Taylor V | Vimpey Strategic Land | | | TI | P11 |
| Contract Ref: | Start: | 23.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 23.02.18 | | 60.75 | E:463875.0 N:311051.0 | | 1 | of | 1_ |
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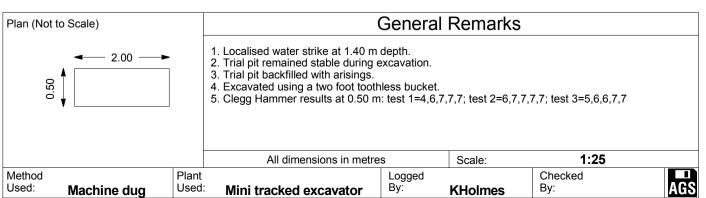
| | | | | | | | | · - |
|----------------------------|--------|-----------|----------------------------|-------|----------|--|--------|---|
| Sam | ples a | and In-si | tu Tests | Water | Backfill | Description of Strata | Depth | Material Graphic |
| Depth | No | Туре | Results | × | Вас | | ness) | Legend |
| - - - | | | | | | Firm dark brown silty sandy slightly gravelly CLAY. Sand is fine. Gravel is fine to coarse. (TOPSOIL) Weak reddish brown distinctly weathered MUDSTONE. (BRANSCOMBE MUDSTONE FORMATION) | (0.30) | 1 2 1 6 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 0.60 - - - - | | V | c _u =84/96/>130 | | | | (1.70) | |
| - 1.50 - - | 1 | D | | | | | 2.00 | |
| - | | | | | | Trial pit terminated at 2.00 m depth. | - | |
| - - - - - - | | | | | | | - | |





| Contract: | | | | Client: | | Trial Pit: | | | |
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| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | impey Strategic Land | | | TI | P12 |
| Contract Ref: | Start: | 22.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 22.02.18 | | 59.72 | E:463709.5 N:311018.1 | | 1 | of | 1 |

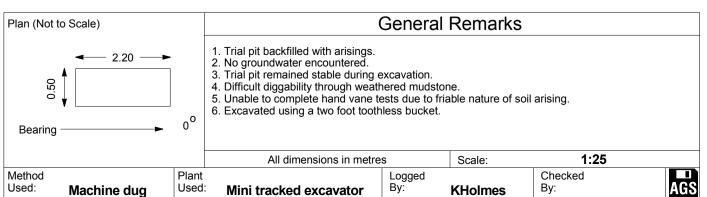
| • | | JU 1 | Ena: | ZZ.U | 2.10 | 55.72 E.405705.5 N.511010.1 | <u> </u> | OT I |
|-------------|--------|-----------|-------------------------------|-------------|----------|---|--------------------|---|
| Samp | oles a | and In-si | itu Tests | ū | ≣ | | Depth | Material |
| Depth | No | | Results | Water | Backfill | Description of Strata | (Thick ness) | Graphic |
| - | | | | | | Firm dark brown silty slightly sandy slightly gravelly CLAY. Sand is fine. Gravel is fine to coarse subangular flint and quartzite. Fine rootlets noted. (TOPSOIL) | (0.30) | 17 · 24 · 14 · 14 · 17 · 12 · 14 · 17 · 12 · 14 · 17 · 12 · 14 · 17 · 12 · 14 · 17 · 12 · 14 · 17 · 12 · 14 · 17 · 12 · 14 · 17 · 14 · 17 · 17 · 17 · 17 · 17 |
| 0.50 | | V d | o _u =>130/>130/>13 | 30 | | Firm brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular flint and quartzite. (SUBSOIL) | 0.70 | |
| - - - | | | | | | Firm to stiff reddish brown slightly sandy CLAY. Sand is fine. (BRANSCOMBE MUDSTONE FORMATION) | - | |
| 1.20 | 1 | D | | | | | - (0.80) - - | |
| - | | | | | | localised sandy lense at 1.40 m and wet. | 1.50 | |
| - | | | | | <u></u> | Trial pit terminated at 2.00 m depth. | 1.00 | - |
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| Contract: | | | | | Client: | | | Trial Pi | t: | | |
|---------------------------|--------|-------|---------|-------|-----------|-----|----------------------------|----------|-----------------|----|----------------|
| Land North of Barkby | y Roa | ad, S | ysto | n | Taylo | r W | impey Strategic Land | | | TP | 13 |
| Contract Ref: | Start: | 23.0 | 2.18 | Grour | nd Level: | | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 23.0 | 2.18 | | 61.36 | | E:463823.0 N:311013.1 | | 1_ | of | 1 |
| Samples and In-situ Tests | 3 | /ater | ackfill | | | ı | Description of Strata | | Depth (Thick | | teria aphic |

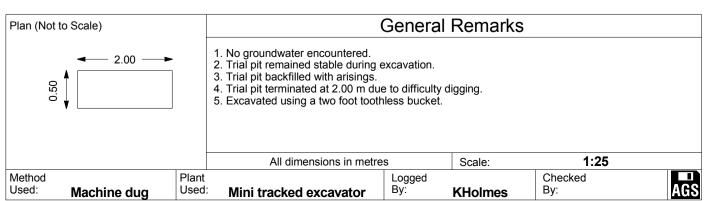
| Do | | les a No | | tu Tests Results | Water | Backfill | Description of Strata | Depth (Thick | Material Graphic |
|------|-----|-------------|------|---------------------|-------|----------|--|------------------|--|
| - | Pui | INU | Туре | IVESUIIS | | H H | Firm dark brown slightly sandy slightly gravelly CLAY. Sand is fine. Gravel is fine to coarse subrounded flint. Occasional rootlets. (TOPSOIL) | ness) -(0.40) | Legend \[\frac{\fir}}}}}}}{\fraccc}\firigita}}{\firin}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}} |
| 1.50 | | 1 | D | | | | Weak reddish brown distinctly weathered MUDSTONE. (BRANSCOMBE MUDSTONE FORMATION) Trial pit terminated at 1.80 m depth. | - (1.40) | |





| Contract: | | | | Client: | | Trial Pit: | | | |
|---------------------|--------|-----------|-------|-----------|----------------------------|------------|---|----|-----|
| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | /impey Strategic Land | | | TI | P14 |
| Contract Ref: | Start: | 22.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 22.02.18 | | 59.79 | E:463663.0 N:310985.0 | | 1 | of | 1 |

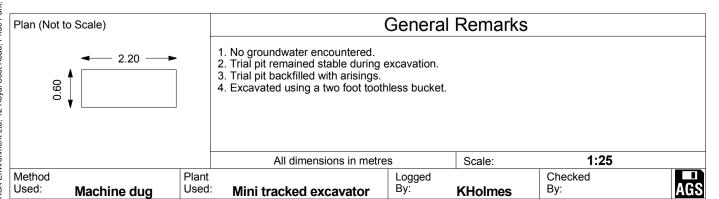
| | | | 1=::*: | | | | | · · |
|-------|--------|-----------|-------------------------------|-------|----------|--|--------------|--|
| Sam | ples a | and In-si | itu Tests | ter | Kf | 5 | Depth | Material |
| Depth | No | Туре | Results | Water | Backfill | Description of Strata | (Thick ness) | Graphic Legend |
| 0.20 | 1 | ES | | | | Firm dark brown slightly silty slightly sandy slightly gravelly CLAY. Gravel is fine to coarse rounded flint. (TOPSOIL) | 0.20 | \(\frac{1}{2}\frac{1}{ |
| | | | | | | Orangish brown slightly gravelly very sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse rounded to subangular. (HEAD DEPOSITS) | (0.70) | |
| 0.60 | 1 2 | D ES | | | | | 0.90 | |
| - | | | | | | Firm pinkish brown silty slightly sandy slightly gravelly CLAY. Sand is fine. Gravel is fine to coarse angular to subrounded with rare anhydrite. (BRANSCOMBE MUDSTONE FORMATION) from 1.10 m, becoming stiff. | - | * · · · · · · · · · · · · · · · · · · · |
| 1.40 | 2 | V d | s _u =>130/>130/>13 | 0 | | | (1.10) | ************************************** |
| | | | | | | Trial pit terminated at 2.00 m depth. | 2.00 | * -× -×- |
| - | | | | | | That pit terminates at 2.00 m aspan | - | |
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| i . | 1 | İ | 1 | | 1 | | 1 | 1 |





| Contract: | | | | Client: | | Trial Pit: | | | |
|---------------------|--------|-----------|-------|-----------|----------------------------|------------|---|----|-----|
| Land North of Barkb | y Roa | ad, Systo | n | Taylor V | Vimpey Strategic Land | | | TF | P15 |
| Contract Ref: | Start: | 22.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 22.02.18 | | 61.70 | E:463789.1 N:310964.1 | | 1 | of | 1 |

| | JUZ (| JU 1 | Liiu. | 0 | 2.10 | C1.70 E.400703.114.010304.1 | | 01 1 |
|----------|--------|-------------|-----------------------------|-------|-----------|--|--------|--------------------------------------|
| Same | oloe c | nd In ci | tu Tests | _ | = | | Donth | Material |
| Sam | DIES 6 | 1110 111-51 | iu resis | Water | Backfill | Description of Strata | (Thick | Graphic |
| Depth | No | Туре | Results | 8 | 3ac | Description of Strata | ness) | Legend |
| Борин | | . ,,,, | rtocuito | | _ | | 11633) | |
| | | | | | | Firm dark brown slightly silty slightly sandy slightly gravelly CLAY. | | 7, 1/N 7/1/N 7 |
| | | | | | | Gravel is fine to coarse rounded flint. | 0.20 | 1/1/1/ |
| † | | | | | | ¬(TOPSOIL) | 0.20 | <u> </u> |
| - | | | | | | Firm brown slightly sandy CLAY. Sand is fine to medium. | - | <u> </u> |
| L | | | | | | (SUBSOIL) | 0.40 | |
| | | | | | \bowtie | Firm orangish brown gravelly very sandy CLAY. Sand is fine to | | <u>- ō</u> . |
| - | | | | | | coarse. Gravel is fine to coarse angular quartzite and flint. | 1 | |
| - | | | | | | (HEAD DEPOSITS) | - | |
| - | | | | | | (HEAD DEI GOITG) | (0.60) | F-0, |
| | | | | | \bowtie | | L` ′ | |
| | | | | | | | | |
| - | | | | | \bowtie | | 1.00 | <u> </u> |
| F | | | | | | Firm to stiff similab brown slightly sandy CLAV Cond :- fir- | 1.00 | |
| - | | | | | | Firm to stiff pinkish brown slightly sandy CLAY. Sand is fine. (BRANSCOMBE MUDSTONE FORMATION) | - | |
| L | | | | | | (DRANSCONIDE INIODS LONE LOKINATION) | L | [|
| 1.20 | 1 | D | | | | | | <u></u> |
| † | | | | | | | | ==================================== |
| F | | | | | | | (0.90) | |
| F | | | | | | | (0.90) | <u> </u> |
| 1.50 | | V | c _u =124/102/126 | | \bowtie | | | ▎ Ċ |
| | | | | | \bowtie | | | |
| † | | | | | | | 1 | : |
| - | | | | | \bowtie | | - | |
| - | | | | | | | 1.90 | |
| | | | | | | Trial pit terminated at 1.90 m depth. | | |
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| Contract: | | | | Client: | | Window | San | nple: | | |
|---------------------|--------|-----------|-------|-----------|----------------------------|--------|-----|-------|----|---|
| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | /impey Strategic Land | | | W | S0 | 1 |
| Contract Ref: | Start: | 23.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | | |
| 302001 | End: | 23.02.18 | | 61.60 | E:463641.0 N:311275.0 | | 1 | of | 1 | |

| | 2001 | | Liiu. | 23.02.10 | | U | L.700071.014.011270.0 | • | 01 1 |
|--------------------------|------------------|-----|-------|--------------|--------------|------------------------------------|---|---|--|
| Progress Samples / Tests | | | Tests | _ | დ , <u>ნ</u> | | Depth | Material | |
| | | T . | | | Water | Backfill & Instru- mentation | Description of Strata | (Thick ness) | |
| - | 0.10 | 1 | ES | TJV | | | Stiff brown slightly gravelly sandy CLAY. Gravel is fine to medium subangular to subrounded quartzite and flint. Sand is fine to medium. (TOPSOIL) | 0.30 | 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7 |
| - | 0.50 | 3 | ES | TJV | | | Orangish brown gravelly clayey SAND. Gravel is fine to coarse subrounded to rounded quartzite. (BIRSTALL MEMBER) | (0.50) | |
| - | _ | | | | | | | 0.80 | |
| - | 0.90 | 2 | ES | TJV | | ?: \$∃:\$: | Reddish brown very gravelly clayey medium to coarse SAND. Gravel is rounded to subrounded fine to medium quartzite and flint. (BIRSTALL MEMBER) | (0.30) | |
| - | 1.20-1.65 | S | SPT | N=31 | | | Very stiff orangish brown CLAY. (BRANSCOMBE MUDSTONE FORMATION) | - | |
| | 2.00-2.45 | S | SPT | N=19 N=50 | | | From 2.5 m to 2.6 m, soft to firm. | - - - - - - - - - - - - - | |
| - | - - - - | | | | | | Window sample hole refused at 3.43m depth. | - 3.43 - - - | |
| - - - - - | - - - - | | | | | | | - - - - | |

| [| Orilling Pro | gress and | Water O | bservations | 3 | | | Con | orol | Domorko | | |
|-----------------|--------------|--------------------------|------------------------|------------------------------|-----------------------|-----------|----------------|---|--------------|-----------------------|----------------|-----|
| Date | Time | Borehole Depth (m) | Casing Depth (m) | Borehole Diameter (mm) | Water Depth (m) | | | | | Remarks | | |
| | | | () | | | 2. Instal | lation: 1m | er was encount I plain, 2m slot 10.34-2018 (<i>E</i> | ted. | 00%) used. | | |
| | | | | | | Α | II dimensi | ons in metres | | Scale: | 1:25 | |
| Method Used: | | d windov apling | Plar Use | | remier ri | | Drilled By: | Geoffrey Fawcett | Logge By: | d HWarrener | Checked By: | AGS |



| Contract: | | | | Client: | | Window | Sam | iple: | | |
|---------------------|--------|-----------|-------|-----------|----------------------------|--------|-----|-------|-------------|---|
| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | impey Strategic Land | | | WS | S0 2 | 2 |
| Contract Ref: | Start: | 23.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | | |
| 302001 | End: | 23.02.18 | | 62.56 | E:463773.0 N:311286.0 | | 1 | of | 1 | |

| 30 | / 2 00 i | | Ena: | 23.02.10 | 02 | 50 E.403773.0 N.311200.0 | I | OT I |
|-------------|-----------------|-----|----------|---------------------------|--------------------------|---|-----------------------|--------------------------|
| Progress | | Sam | ples / - | Tests | _ ∞ _ 5 | | Depth | Material |
| Window Run | Depth | No | Туре | Results | Water Backfill & Instru- | Description of Strata | (Thick ness) | Graphic |
| - | 0.20 | 1 | ES | TJV | | Stiff brown slightly gravelly sandy CLAY. Gravel is to medium subangular to subrounded quartzite and Sand is fine to medium. (TOPSOIL) | flint. (0.30) 0.30 | 17 · 3 · 17 · 3 · 17 · 3 |
| - | 0.50 | | V | c _u =>105/>105 | | Stiff to very stiff orangish brown slightly sandy C Sand is fine to medium. Weathered bedrock. (BRANSCOMBE MUDSTONE FORMATION) | LAY. | |
| - | 1.00 | 2 | ES | TJV | *** | | - | |
| - | 1.20-1.65 | S | SPT | N=26 | | | (2.13) | |
| - | - - - | | | | | | - | |
| - - - | 2.00-2.43 | s | SPT | N=50 | | | - | |
| - | - - - | | | | | Window sample hole refused at 2.43m depth. | 2.43 | |
| - | - | | | | | | - | |
| | _ - - | | | | | | - | |
| | - | | | | | | - | |
| - | - - - | | | | | | - | |
| - | - | | | | | | - | |
| ; [| - | | | | | | - | |

| - | Г | Drilling Pro | gress and | Water O | bservations | S | | | Con | orol | Remarks | | |
|----------------------------|-----------------|--------------|--------------------|-----------------|----------------------|----------------|-----------|----------------|---|--------------|-----------------------|----------------|-----|
| - 2 | Date | Time | Borehole Depth | Casing Depth | Borehole Diameter | Water Depth | | | Gene | erai | Remarks | | |
| ופוו בנג, יב ייטאש סטיייטי | | | (m) | (m) | (mm) | (m) | 2. Instal | lation: 1.0 | er was encount 0m plain: 1.00 10.34-2018 (<i>E</i> | m slotte | | | |
| 5 | | | | | | | А | II dimensi | ons in metres | | Scale: | 1:25 | |
| 5 | Method Used: | | d windov npling | V Plai Use | | remier riç | 9 | Drilled By: | Geoffrey Fawcett | Logge By: | d HWarrener | Checked By: | AGS |



| Contract: | | | | Client: | | Window | San | ıple: | | |
|---------------------|--------|-----------|-------|-----------|----------------------------|--------|-----|-------|-----|---|
| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | impey Strategic Land | | | W | SO: | 3 |
| Contract Ref: | Start: | 23.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | | |
| 302001 | End: | 23.02.18 | | 59.09 | E:463757.9 N:311236.0 | | 1 | of | 1 | |

| 30 | 200 I | | Ena: | 23.02.10 | | 55. | U9 E.403/3/.9 N.311230.0 | ı | OT I |
|------------------|-----------------------------|--------|-----------|-----------------------|-------|-----------------------------|--|--------------------------|----------------------------|
| Progress S | | | oles / | Tests | _ | ∞ ⁻ 'ö | | Depth | Material |
| Window Run | Depth | No | Туре | Results | Water | Backfill & Instru-mentation | Description of Strata | (Thick ness) | Graphic Legend |
| - | 0.20 0.20 | 1 | ES V d | TJV =>105/>105/>10 | | | Stiff brown slightly gravelly sandy CLAY. Gravel is fine to medium subangular to subrounded quartzite and flint. Sand is fine to medium. (TOPSOIL) | 0.30 | 17.341, 31. 17.341, 31. |
| - | - - - - | | | J | | | Stiff reddish brown slightly sandy CLAY. Sand is fine to medium with localised patches of very sandy clay. Weathered mudstone. (BRANSCOMBE MUDSTONE FORMATION) | - | |
| - | 1.20-1.65 | S 2 | SPT ES | N=35 | | | from 1.00m, becoming orangish brown and very stiff. | - (2.11) - - | |
| - | 2.00-2.41 | S | SPT | N=50 | | | | - - - - 2.41 | |
| - | - - - - | | | | | | Window sample hole refused at 2.41m depth. | - | |
| - | | | | | | | | - - - | |
| - - - - | - - - | | | | | | | - - - | |
| - | - - - - | | | | | | | - - - - | |

| | [| Orilling Pro | gress and | Water O | bservations | 3 | | | Con | orol | Domorko | | |
|--------|-----------------|--------------|--------------------|-----------------|----------------------|----------------|-----------|----------------|---|--------------|-----------------------|----------------|-----|
| : : | Date | Time | Borehole Depth | Casing Depth | Borehole Diameter | Water Depth | | | Gene | erai | Remarks | | |
| | | | (m) | (m) | (mm) | (m) | 2. Instal | lation: 1.0 | er was encount 0m plain, 1.00 10.34-2018 (<i>E</i> | m slotte | | | |
| | | | | | | | A | II dimensi | ons in metres | | Scale: | 1:25 | |
| | Method Used: | | d windov npling | Plar Use | | remier ri | | Drilled By: | Geoffrey Fawcett | Logge By: | d HWarrener | Checked By: | AGS |



| Contract: | | | | Client: | | Window | San | nple: | | |
|---------------------|--------|-----------|-------|-----------|----------------------------|--------|-----|-------|----|----|
| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | impey Strategic Land | | | W | SC |)4 |
| Contract Ref: | Start: | 23.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | | |
| 302001 | Fnd: | 23.02.18 | | 58.72 | E:463776.0 N:311195.0 | | 1 | of | • | 1 |

| 30 | 200 I | | Ena: | 23.02.10 | | 30. | 12 E.403//0.0 N.311195.0 | ı | OT I |
|-----------------------|------------------|-----|-----------|------------------------|-------|-----------------------------|---|-----------------------|---|
| Progress | | Sam | oles / T | Tests | _ | ∞ , ₅ | | Depth | Material |
| Window Run | Depth | T . | Туре | | Water | Backfill & Instru-mentation | Description of Strata | (Thick ness) | |
| - | 0.20 | 1 | ES | TJV | | | Soft to firm brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to medium subangular to rounded quartzite, flint and coal. Sand is fine to coarse. (TOPSOIL) | 0.30 | \$\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\frac{1}{2}, \frac{1}{2}\fra |
| - - - - - | 0.50 0.50 | 2 | ES V o | TJV j=>105/>105/>10 | 5 | | Firm to stiff orangish brown slightly sandy CLAY. Sand is fine to medium. (BRANSCOMBE MUDSTONE FORMATION) | (0.80) | |
| - | 1.20-1.65 | S | SPT | N=15 | | | Stiff light grey mottled orange slightly sandy CLAY. Sand is medium. | 1.10 | |
| - | 1.40 | 3 | ES | TJV | | | (BRANSCOMBE MUDSTONE FORMATION) | 1.60 | |
| - - - | - - - | | | | | | Very stiff sligthly sandy CLAY with relict roots. Sand is medium to coarse. (BRANSCOMBE MUDSTONE FORMATION) | - | |
| | 2.00-2.45 | S | SPT | N=24 | | | | - - - - | |
| - | 3.00-3.45 | S | SPT | N=13 | | | | (2.60) | |
| - - - - | 4.00-4.45 | S | SPT | N=9 | | | from 3.5 m, becoming mottled grey. | 4.20 | |
| - - - | - | | | | | | Green mottled brown, SANDS AND GRAVEL. Sand is fine to coarse. Gravel is fine to medium angular mudstone. | 4.20 | |
| - | _ 4.50 - - | 1 | D | | | | (BRANSCOMBE MUDSTONE FORMATION) | (1.25) | |
| - - - - | 5.00-5.45 | s | SPT | N=12 | | | | - - - - | |
| - - | - - - | | | | | <u> </u> | Window sample hole terminated at 5.0m depth. | - 5.45 - - - | |
| - | - | | | | | | | <u>-</u> | |

| 2 | Г | Orilling Pro | gress and | Water Ob | oservations | 3 | | | Con | orol | Remarks | | |
|---------------------------------|-----------------|--------------|--------------------|-----------------|----------------------|----------------|----------|----------------|---|--------------|-----------------------|----------------|-----|
| Ę Ź | Date | Time | Borehole Depth | Casing Depth | Borehole Diameter | Water Depth | | | Gen | erai | Remarks | | |
| וופוון בנט, וב הטעש טכטני זיטני | | | (m) | (m) | (mm) | (m) | 2. Insta | lation: 1.0 | er was encount 00m plain, 4.00 110.34-2018 (<i>E</i> | m slotte | | | |
| | | | | | | | А | II dimensi | ons in metres | | Scale: | 1:33 | |
| V67 | Method Used: | | d windov npling | V Plan Use | | remier rig | 9 | Drilled By: | Geoffrey Fawcett | Logge By: | d HWarrener | Checked By: | AGS |



| Contract: | | | | Client: | | Window | San | ıple: | | |
|---------------------|--------|-----------|-------|-----------|----------------------------|--------|-----|------------|---|--|
| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | | | W | S 0 | 5 | |
| Contract Ref: | Start: | 23.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | | |
| 302001 | End: | 23.02.18 | | 59.77 | E:463846.0 N:311172.0 | | 1 | of | 1 | |

| | 302001 End: 23.02.16 | | | 23.02.10 | 59. | 11 E.403040.0 N.31111/2.0 | ı | OT I | |
|---|----------------------|-------------|-----|----------|----------------------|----------------------------------|---|--------------|---|
| | Progress | | Sam | ples / T | Tests | ~ √ noi | | Depth | Material |
| | Window Run | Depth | No | Туре | Results | Water Backfill & Instrumentation | Description of Strata | (Thick ness) | Graphic |
| | - | 0.20 | 1 | ES | TJV | | Soft to firm, brown slightly gravelly, slightly sandy silty CLAY. Gravel is fine to medium subangular to rounded quartzite, flint and coal. Sand is fine to coarse. (TOPSOIL) | 0.30 | 17 - 79 - 77 - 74 - 74 - 74 - 74 - 74 - 7 |
| | - - - | 0.50 | | V | c _u =>105 | | Very stiff, sligthly sandy CLAY. Sand is medium to coarse black and white mineral. (BRANSCOMBE MUDSTONE FORMATION) | - - - | |
| | - - - - | 1.00 | 2 | ES | TJV | | | - - - | |
| | - | 1.20-1.65 | S | SPT | N=44 | | | (2.11) | |
| | - | - | | | | | from 1.50 m, becoming weathered mudstone. | - | |
| - | - | 2.00-2.41 | S | SPT | N=50 | | | - | |
| | - | - - | | | | ***** | Window sample hole refused at 2.41m depth. | 2.41 | |
| - | _ | - - | | | | | | - | |
| | _ | _ | | | | | | - | |
| | - | - - | | | | | | - | |
| | _ | - | | | | | | - | |
| | - | - - | | | | | | - | |
| | <u>-</u> | - - - | | | | | | - | |
| | _ | - | | | | | | - | |
| | | | | | | | | | |

| - | Г | Orilling Pro | gress and | Water O | bservations | | General Remarks | | | | | | |
|-------------------------------|-----------------|--------------|--------------------|-----------------|----------------------|----------------|-----------------|----------------|--|------------------|-----------------------|----------------|-----|
| Ę, | Date | Time | Borehole Depth | Casing Depth | Borehole Diameter | Water Depth | | | Gene | c iai | Remarks | | |
| וופווו בנט, וב הטאמו טטטר הטס | | | (m) | (m) | (mm) | (m) | 2. Instal | lation: 1.0 | r was encount 0m plain, 1.00 10.34-2018 (<i>E</i> | m slotte | | | |
| 5 | | | | | | | Α | II dimensi | ons in metres | | Scale: | 1:25 | |
| 5 | Method Used: | | d windov npling | V Plar Use | | remier ri | 9 | Drilled By: | Geoffrey Fawcett | Logge By: | d HWarrener | Checked By: | AGS |



| Contract: | | | | Client: | Window | iple: | | | | |
|---------------------|--------|-----------|-------|-----------|----------------------------|--------|---|-------------|---|--|
| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | | | W | S0 (| 6 | |
| Contract Ref: | Start: | 23.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | | |
| 302001 | End: | 23.02.18 | | 61.68 | E:463904.9 N:311150.1 | | 1 | of | 1 | |

| 30 | 2001 | | End: | 23.02.18 | | 61. | bö | E:463904.9 N:311150.1 | 1 | of 1 |
|------------|-------------------|-----|----------|----------|-------|----------------------------|---|---|-----------------|--|
| Progress | | Sam | oles / T | ests | Water | Backfill & Instrumentation | | Description of Strata | Depth (Thick | Material Graphic |
| Window Run | Depth | No | Туре | Results | × | Bacl Ins | | | ness) | Legend |
| _ | _ | | | | | | CLAY. Gra | m brown slightly gravelly slightly sandy s avel is fine to medium subangular to round int and coal. Sand is fine to coarse. | led (0.30) | 1 |
| - | - | | | | | | (TOPSOIL | _) | 0.30 | <u>\sqrt{\lambda}\limit\lambda}\limit\limit\limit\limit\lambda}.</u> |
| - | - | | | | | | coarse blac | sligthly sandy CLAY. Sand is medium ck and white mineral. OMBE MUDSTONE FORMATION) | 10 | |
| - | 0.60 | 1 | ES | TJV | | | (====================================== | , | - | |
| - | - | | | | | | | | - | |
| _ | _ | | | | | · · · E · · · | | | _ | |
| - | 1.20-1.59 | S | SPT | N=50 | | | from 1 | I.20 m, becoming horizontally laminated. | | |
| - | - | | | | | | | | - (2.07) | |
| - | - | | | | | | becom | ning weathered bedrock with depth. | - | |
| - | _ | | | | | | | | | |
| - | - | | | | | | | | - | |
| - | 2.00-2.37 | S | SPT | N=50 | | | | | - | |
| - | - | | | | | | | | 2.37 | |
| - - | - | | | | | | Window sa | ample hole refused at 2.37m depth. | | |
| - - | - | | | | | | | | - | |
| - | - | | | | | | | | - | |
| - - | _ | | | | | | | | - | |
| - | - | | | | | | | | - | |
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| - | _ | | | | | | | | - | |

| ב פר | [| Orilling Pro | gress and | Water O | bservations | S | | | Con | orol | Domorko | | |
|--|-----------------|--------------|--------------------------|------------------------|------------------------------|-----------------------|---------------------|----------------------------|---|--------------|-----------------------|----------------|-----|
| ממ, בו | Date | Time | Borehole Depth (m) | Casing Depth (m) | Borehole Diameter (mm) | Water Depth (m) | | | | | Remarks | | |
| ment בנט, וב הטץמו סכטניה הייטס האטא ובנט, וב | | | Ç-17 | (") | , and | V-1 | 2. Hand 4. Insta | l vane ref llation: 1.0 | er was encount used at 0.50 m 00m plain, 1.00 110.34-2018 (<i>E</i> | m slott | | | |
| 0 | | | | | | | Α | II dimens | ions in metres | | Scale: | 1:25 | |
| NON EIN | Method Used: | | d windov npling | Plar Use | | remier rig | 9 | Drilled By: | Geoffrey Fawcett | Logge By: | d HWarrener | Checked By: | AGS |

GINT_LIBRARY_V8_06. GLB LibVersion: v8_06_018 PrjVersion: v8_06 - Core+Logs - 002 | Log WINDOW SAMPLE LOG - A4P | 302001. GPJ - v8_06. RSK Environment Ltd, 12 Royal Scot Road, Pride Park, Derby, DE24 8AJ. Tel: 01332 542740, Fax: 01332 542760, Web: www.rsk.co.uk: | 26/03/18 - 10:32 | VP1 |



| Contract: | | | | Client: | Client: | | | | | |
|-----------------------------------|--------|----------|-------|-----------|----------------------------|--------|---|-------------|---|---|
| Land North of Barkby Road, Syston | | | n | Taylor W | | | W | S 07 | 7 | |
| Contract Ref: | Start: | 22.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | | _ |
| 302001 | End: | 22.02.18 | | 58.49 | E:463660.0 N:311167.0 | | 1 | of | 1 | |

| 502001 Elia. 22.02.10 | | | 5 0. | | • | U I | | | |
|-----------------------|--------------------------|--------|-----------------|--------------------------|----------|-----------------------------|---|-------------------------|----------|
| Progress | Progress Samples / Tests | | | | _ | დ _, ნ | | Depth | Material |
| Window Run | Depth | _ | Туре | | Water | Backfill & Instru-mentation | Description of Strata | (Thick ness) | |
| - | - | | | | ~ | | TOPSOIL: Soft to firm brown slightly gravelly slightly sandy CLAY. Gravel is fine subrounded to subangular. Sand is fine to medium. (TOPSOIL) | (0.30) | <u> </u> |
| - | - - - 0.55 | | V | c _u =68/69/99 | | | Firm to stiff orangish brown slightly gravelly slightly sandy CLAY. Gravel is fine subrounded to subangular. Sand is fine to medium. (BRANSCOMBE MUDSTONE FORMATION) | (0.40) | |
| - | - | | | | <u>1</u> | | Orangish brown mottled grey slightly sandy CLAY. Sand is fine. (BRANSCOMBE MUDSTONE FORMATION) | - | |
| - | 1.20-1.65 | S | SPT | N=8 | | | from 1.20 m, becoming grey mottled orange. | (1.50) | |
| - | 2.00-2.45 - 2.00 | S 1 | SPT ES | N=15 | <u></u> | | 1.95m, band of black slihght organic odour, possible relict wood. Stiff to very stiff reddish brown mottled grey gravelly CLAY. Gravel is angular to subangular fine to coarse mudstone. | 2.20 | |
| - | 3.00-3.45 | S | SPT | N=50 | | | (BRANSCOMBE MUDSTONE FORMATION) | - - (1.25) - - | |
| - - - - | | | | | | ***** | Window sample hole terminated at 3.45m depth. | 3.45 | |
| - - | - - - | | | | | | | - - | |
| | - | | | | | | | - | |

| [| Orilling Pro | gress and | Water Ol | oservations | 3 | General Remarks | | | | | | |
|---------------------|--------------|--------------------------|------------------------|------------------------------|-----------------------|--|---|--|--------------------------------|---|----------------------|-----|
| Date | Time | Borehole Depth (m) | Casing Depth (m) | Borehole Diameter (mm) | Water Depth (m) | | | Gen | erai | Remarks | | |
| | | (iii) | (111) | (11111) | (11) | 2. Insta 3. Diffic unde 4. Wate | llation: 1.0 ult to iden rlyong soi er encount | e from 0.35 m 00m plain, 2.00 tify the depth of due to a high ered at 1.90 m 110.34-2018 (E | of the bo moistu rose to | oundary betweer re content. o 0.80 m. | n the topsoil and th | he |
| | | | | | | Α | II dimensi | ons in metres | | Scale: | 1:25 | |
| Method Used: | | d windov npling | V Plan Use | | remier rig | 9 | Drilled By: | Geoffrey Fawcett | Logge By: | d HWarrener | Checked By: | AGS |

GINT_LIBRARY_V8_06. GLB LibVersion: v8_06_018 PrjVersion: v8_06 - Core+Logs - 002 | Log WINDOW SAMPLE LOG - A4P | 302001. GPJ - v8_06. RSK Environment Ltd, 12 Royal Scot Road, Pride Park, Derby, DE24 8AJ. Tel: 01332 542740, Fax: 01332 542760, Web: www.rsk.co.uk: | 26/03/18 - 10:32 | VP1 |



| Contract: | | | | Client: | | Window | Sam | ıple: | |
|---------------------|--------|-----------|-------|----------|----------------------------|--------|-----|-------|------------|
| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | impey Strategic Land | | | W | S08 |
| Contract Ref: | Start: | 22.02.18 | Groun | d Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | Fnd: | 22.02.18 | | 58.87 | E:463727.0 N:311095.9 | | 1 | of | 2 |

| 30 | 200 i | | Ena: | 22.02.10 | | 30.0 | 6/ E.403/2/.0 N.311095.9 | ı | or Z |
|---|--------------------------------|-----|-----------|-----------------------------|-------|---------------------------------------|--|-------------------|--|
| Progress | | Sam | oles / T | Tests | ڀ | ∞ _ 6 | | Depth | Material |
| Window Run | Depth | No | Туре | Results | Water | Backfill & Instru- mentation | Description of Strata | (Thick ness) | Graphic Legend |
| | 0.20 | 1 | ES | TJV | ~ | | Soft to firm brown slightly gravelly slightly sandy CLAY. Gravel is fine subrounded to subangular. Sand is fine to medium. \((TOPSOIL)\) | 0.30 | \(\frac{1}{2}\), \(\frac{1}\), \(\frac{1}\), \(\frac{1}{2}\), \(\frac{1}{2 |
| | 0.50 | | V | c _u =100/>105/95 | | | Firm to stiff orangish brown slightly sandy CLAY. Sand is medium to coarse. (BRANSCOMBE MUDSTONE FORMATION) | (0.90) | |
| · · - | 1.00 | 2 | ES | TJV | | · · · · · · · · · · · · · · · · · · · | | 1.20 | |
| A | 1.20-1.65 | S | SPT | N=7 | | | Firm to stiff light grey mottled orange slightly sandy CLAY. Sand is fine. | - | |
| 1.20 - 2.00 (98mm dia) | - - 1.55 | 3 | ES | TJV | | | (BRANSCOMBE MUDSTONE FORMATION) at 1.40m becoming gravelly. Gravel is medium to coarse rounded to subrounded quartzite. | 1.70 | |
| 100% rec | 1.80 | 4 | D | | | | \ from 1.50 m to 1.60 m, dark greyish brown slightly sandy CLAY. Sand is fine to medium. Firm to stiff grey mottled orange gravelly sandy CLAY. | 1.75 | - · · |
| | 2.00-2.45 | s | SPT | N=17 | | | Gravel is medium to coarse subrounded to rounded quartzite and subangular to angular flint. Sand is fine to medium. | - | |
| 2.00 - 3.00 (98mm dia) 100% rec 3.00 - 4.00 (98mm dia) 95% rec | 3.00-3.45 3.00 4.00-4.45 | S 5 | SPT ES | N=26 N=50 | | | (BRANSCOMBE MUDSTONE FORMATION) Firm to stiff reddish brown slightly sandy CLAY. Sand is fine to medium. (BRANSCOMBE MUDSTONE FORMATION) | (2.50) | |
| | - | | | | | | Window sample hole refused at 4.45m depth. | +. 4 0 | <u> </u> |
| | - - | | | | | | | - | |

| | Drilling Pro | gress and | Water Ob | servations | 3 | I |
|------|--------------|--------------------------|------------------------|------------------------------|-----------------------|---|
| Date | Time | Borehole Depth (m) | Casing Depth (m) | Borehole Diameter (mm) | Water Depth (m) | |
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GINT_LIBRARY_V8_06.GLB LibVersion: v8_06_018 PrjVersion: v8_06 - Core+Logs - 002 | Log WINDOW SAMPLE LOG - A4P | 302001.GPJ - v8_06. RSK Environment Ltd, 12 Royal Scot Road, Pride Park, Derby, DE24 8AJ. Tel: 01332 542740, Fax: 01332 542760, Web: www.rsk.co.uk. | 26/03/18 - 10:32 | VP1 |

General Remarks

- 1. Water punded at 0.5m in hand dug pit.
- 2. Water seepage from 0.35 m.

- vvaler seepage from 0.35 ff.
 No recovery from 2.00 m to 3.00 m.
 Installation: 1.00m plain, 3.00m slotted.
 Difficult to identify the depth of the boundary between the topsoil and the underlyong soil due to a high moisture content.
 Cased to 3.0 m

1:28 All dimensions in metres Scale: **Tracked window** Drilled Checked Method Plant Geoffrey Logged Used: Used: Ву: Premier rig **Fawcett** sampling **HWarrener**



| Contract: | | | | Client: | | Window | Sam | ple: | | |
|---------------------|--------|-----------|-------|----------|----------------------------|--------|-----|------|-------------|---|
| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | impey Strategic Land | | | WS | 80 6 | , |
| Contract Ref: | Start: | 22.02.18 | Groun | d Level: | National Grid Co-ordinate: | Sheet: | | | | |
| 302001 | End: | 22.02.18 | | 58.87 | E:463727.0 N:311095.9 | | 2 | of | 2 | |

| | | | | | | | | | <u> </u> |
|------------|----------|----|-------------|------------------------------------|-----------------------|--------------------------|-------------------------------|----------|----------|
| Progress | | | ater | Backfill & Instru- mentation | Description of Strata | Depth (Thick ness) | Material Graphic Legend | | |
| Window Run | Depth | No | Type | Results | Š | Bac Ins | Decomplian of official | ness) | Legend |
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| 2 | | Orilling Pro | gress and | Water O | oservations | 3 | | | Con | orol | Domorko | | |
|-----|-----------------|--------------|-------------------|----------------------|----------------------|----------------|--------|----------------|---------------|---------------------|------------|----------------|-----|
| 5 | Date | Time | Borehole Depth | Casing Depth | Borehole Diameter | Water Depth | | | Gene | erai | Remarks | | |
| 7 | | | (m) | (m) | (mm) | (m) | 7. SPT | hammer 1 | 10.34-2018 (E | _r = 71.0 | 00%) used. | | |
| 3 | | | | | | | | | | | | | |
| , , | | | | | | | | | | | | | |
| , | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | |
| | | | | | | | А | II dimensi | ons in metres | | Scale: | 1:28 | |
| | Method Used: | | d windov | v Plar Use | | romior rid | | Drilled By: | Geoffrey | Logge By: | | Checked By: | AGS |
| 2 | USEU. | san | npling | Use | u. P i | remier riç | 3 | Dy. | Fawcett | Бу. | HWarrener | ру. | |



| Contract: | | | | Client: | | Window | San | nple: | | |
|---------------------|--------|-----------|-------|-----------|----------------------------|--------|-----|-------|-----|---|
| Land North of Barkb | y Ro | ad, Systo | n | Taylor W | impey Strategic Land | | | W: | S09 | 9 |
| Contract Ref: | Start: | 22.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | | |
| 302001 | End: | 22.02.18 | | 58.89 | E:463668.1 N:311040.0 | | 1 | of | 1 | |

| 30 | 200 I | | Ena: | 22.02.10 | | 30. | 03 E.403000.1 N.311040.0 | ı | OT I |
|--------------------------------------|-----------------------|-----|----------|----------|----------|-----------------------------|---|-----------------|---|
| Progress | | Sam | oles / ٦ | ests | Water | Backfill & Instru-mentation | Description of Strata | Depth (Thick | Material Graphic |
| Window Run | Depth | No | Туре | Results | Wa | Bacl Ins men | Description of Strata | ness) | Legend |
| | 0.10 | 1 | ES | TJV | | | Soft brown slightly gravelly, slightly sandy silty CLAY. Gravel is fine to coarse angular to rounded quartzite and flint. Sand is fine. (TOPSOIL) | (0.35) | 17 · 24 · 17 · (4 · 1) · 24 · 17 · (4 · 1) |
| | - - - - - | | | | | | Firm to stiff orangish brown slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded coal. (BRANSCOMBE MUDSTONE FORMATION) | - | |
| - | 1.00 | 2 | ES | TJV | | | | _ | <u> </u> |
| | 1.20-1.65 | S | SPT | N=45 | | | | (2.05) | |
| 1.20 - 2.00 (98mm dia) 80% rec | - | | | | | | | - | |
| • V | 2.00-2.40 | S | SPT | N=50 | | | | - | |
| - | - | | | | | | | 2.40 | |
| | - - - | | | | | | Window sample hole refused at 2.40m depth. | - | |
| · - · | - | | | | | | | - - - | |
| | - - | | | | | | | - - | |
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| Γ | Orilling Pro | gress and | Water C | bservations | S | | | Con | orol | Domorko | | |
|-----------------|--------------|--------------------------|------------------------|------------------------------|-----------------------|----------|----------------|--|-------------------|-------------------------|----------------|-----|
| Date | Time | Borehole Depth (m) | Casing Depth (m) | Borehole Diameter (mm) | Water Depth (m) | | | 00m plain, 1.00 | | Remarks ed. | | |
| | | | | | | 3. Sides | remaine | e from 0.35 m d stable throug 110.34-2018 (<i>E</i> | hout ex = 71.0 | cavation. 00%) used. | | |
| | | | | | | Д | .ll dimensi | ons in metres | | Scale: | 1:25 | |
| Method Used: | | d windov npling | V Pla | | remier ri | 9 | Drilled By: | Geoffrey Fawcett | Logge By: | d HWarrener | Checked By: | AGS |



| Contract: | | | | Client: | | Window | Sam | ıple: | | |
|---------------------|--------|-----------|-------|-----------|----------------------------|--------|-----|-------|-------------|---|
| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | impey Strategic Land | | | WS | S1 (| 0 |
| Contract Ref: | Start: | 22.02.18 | Groun | nd Level: | National Grid Co-ordinate: | Sheet: | | | | |
| 302001 | End: | 22.02.18 | | 59.97 | E:463795.1 N:311052.1 | | 1 | of | 1 | |

| Progress Samples / T | | | 22.02.10 | | 33. | 51 E.403/35.1 N.311052.1 | ı | OT I | |
|----------------------|-------------------|--------|-----------|------------------------------|------------|------------------------------------|---|-----------------------|-------------------|
| | | ples / | Tests | بر | ∞ ' ro | | Depth | Material | |
| Window Run | Depth | No | Туре | Results | Water | Backfill & Instru- mentation | Description of Strata | (Thick ness) | Graphic Legend |
| - | 0.20 | 1 | ES | TJV | * | | Soft brown slightly gravelly sandy silty CLAY. Gravel is fine to coarse angular to rounded. Sand is fine. (TOPSOIL) | 0.30 | |
| - | - 0.45 | | V | c _u =98/>105/>105 | | | Firm to stiff, orangish red slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded coal. (BRANSCOMBE MUDSTONE FORMATION) | - | |
| - | - | | | | | | | - - | |
| - | 1.20-1.65 1.20 | S 2 | SPT ES | N=40 | | | | - - - (2.11) | |
| - | - | | LS | | | | | - - - | |
| - | - | | | | | | | - - - | |
| - - - | 2.00-2.41 | S | SPT | N=50 | | | | - | |
| - | - | | | | | <u> </u> | Window sample hole refused at 2.41m depth. | 2.41 | |
| - | - | | | | | | | - | |
| - | - | | | | | | | - - | |
| - | - | | | | | | | - | |
| | - | | | | | | | - - | |
| _ - - | - | | | | | | | - - | |
| - | - | | | | | | | - | |

| 2 | Г | Orilling Pro | gress and | Water O | bservations | S | | | Con | orol | Remarks | | |
|----------------------------|-----------------|--------------|--------------------|-----------------|----------------------|----------------|-----------|----------------|---|--------------|-----------------------|----------------|-----|
| - - | Date | Time | Borehole Depth | Casing Depth | Borehole Diameter | Water Depth | | | Gene | erai | Remarks | | |
| וופווו בנט, וב ויסשיו כככו | | | (m) | (m) | (mm) | (m) | 2. Instal | lation: 1.0 | e from 0.30 m. 0m plain, 1,00 10.34-2018 (<i>E</i> | | | | |
| 5 | | | | | | | А | II dimensi | ons in metres | | Scale: | 1:25 | |
| i | Method Used: | | d windov npling | V Plai Use | | remier riç | 9 | Drilled By: | Geoffrey Fawcett | Logge By: | d HWarrener | Checked By: | AGS |



| Contract: | | | | Client: | | Window | Sam | ıple: | |
|---------------------|--------|-----------|-------|----------|----------------------------|--------|-----|-------|---|
| Land North of Barkb | y Roa | ad, Systo | n | Taylor W | | | W | S11 | |
| Contract Ref: | Start: | 22.02.18 | Groun | d Level: | National Grid Co-ordinate: | Sheet: | | | |
| 302001 | End: | 22.02.18 | | 60.84 | E:463741.1 N:310973.0 | | 1 | of | 1 |

| | | | 22.02.10 | | 6 0. | 04 E.403/41.1 N.3109/3.0 | ı | OT I | |
|------------|---------------------|----|----------|-----------------------------|---------------------------------------|------------------------------------|---|-----------------------|---|
| Progress | ess Samples / Tests | | | | _ (| ∞ . 5 | | Depth | Material |
| Window Run | Depth | No | Туре | Results | Water | Backfill & Instru- mentation | Description of Strata | (Thick ness) | Graphic Legend |
| - | 0.20 | 1 | ES | TJV | | | Brown slightly gravelly silty clayey fine to medium SAND. Gravel is fine to coarse rounded to subrounded quartzite and subrounded to subangular flint. (TOPSOIL) Firm to stiff orangish brown slightly gravelly sandy | 0.30 | 17 · 77 · 77 · 77 · 77 · 77 · 77 · 77 · |
| - | 0.50 | | V | c _u =90/98/68/98 | | | CLAY. With patches of very sandy clay. Gravel is fine to coarse subrounded to rounded quartzite and coal with rare subangular to subrounded flint. Sand is fine to coarse. (HEAD DEPOSITS) | 0.70 | |
| - | 1.00 | 2 | ES | TJV | < < | | Stiff to very stiff reddish brown slightly gravelly CLAY. Gravel is fine subrounded to subangular flint. (BRANSCOMBE MUDSTONE FORMATION) | - - - | |
| - | 1.20-1.65 | S | SPT | N=31 | < | | from 1.30m, no gravel present. | - - - (1.71) | |
| - | - - - | | | | < | | from 1.60m, with lamination. | - - - - | |
| | 2.00-2.41 | S | SPT | N=50 | < < < < < < < < < < < < < < < < < < < | | | - - - | |
| - | - | | | | <u> </u> | | Window sample hole refused at 2.41m depth. | 2.41 | |
| - | - | | | | | | | - | |
| - | - | | | | | | | - | |
| | | | | | | | | - | |
| - | - | | | | | | | - - | |
| - | - - - | | | | | | | - - - | |
| 5 | - | | | | | | | - | |

| ב | [| Orilling Pro | gress and | Water O | bservations | | | | Con | orol | Remarks | | |
|-----------------------------|-----------------|--------------|--------------------------|------------------------|------------------------------|-----------------------|-----------|----------------|---|------------------|-----------------------|----------------|-----|
| ממ, ר | Date | Time | Borehole Depth (m) | Casing Depth (m) | Borehole Diameter (mm) | Water Depth (m) | | | Gen | c iai | Remains | | |
| meni בנט, וב הטץמו פטטר הזי | | | (III) | (111) | (IIIII) | (III) | 2. Instal | lation: 1.0 | er was encount Om plain, 2.00 10.34-2018 (<i>E</i> | m slotte | | | |
| 5 | | | | | | | _ A | II dimensi | ons in metres | | Scale: | 1:25 | |
| 107 | Method Used: | | d windov npling | V Plar Use | | remier riç | 9 | Drilled By: | Geoffrey Fawcett | Logge By: | d HWarrener | Checked By: | AGS |



| Contract: | | | | Client: | | Window | San | nple: | | |
|---------------------|--------|-----------|-------|-----------|----------------------------|--------|-----|-------|---|--|
| Land North of Barkk | y Ro | ad, Systo | n | Taylor W | | | W | S12 | 2 | |
| Contract Ref: | Start: | 22.02.18 | Grour | nd Level: | National Grid Co-ordinate: | Sheet: | | | | |
| 302001 | End: | 22.02.18 | | 62.70 | E:463851.1 N:310969.0 | | 1 | of | 1 | |

| - 00 | Progress Samples / Tests | | | | | | 10 E.700001.114.010003.0 | | UI I |
|----------------------------|----------------------------|--------|-----------|-------------------------|-------|-----------------------------|---|--------------|-------------|
| Progress | | | | | | ∞ , b | | Depth | Material |
| Window Run | Depth | · | | Results | Water | Backfill & Instru-mentation | Description of Strata | (Thick ness) | |
| - | 0.20 | 1 | ES | TJV | | | Slightly gravelly silty clayey fine SAND. Gravel is fine to coarse rounded quartzite with rare angular flint. (TOPSOIL) | (0.35) | |
| | | | | | | | $_{ackslash}$ localised patches of cohesive sandy silty clay. | 0.35 | · · · · · · |
| - | 0.50 | 2 | V o | ្ន=>105/>105/>10 TJV | 5 | | Firm to stiff orangish brown slightly gravelly sandy CLAY. With patches of very sandy clay. Gravel is fine to coarse subrounded to rounded quartzite and coal with rare subangular to subrounded flint. Sand is fine to coarse. | (0.55) | |
| | - | | | | | | (HEAD DEPOSITS) | 0.90 | <u></u> |
| - - - - - | 1.20-1.65 - 1.20 | S 3 | SPT ES | N=19 | | | Stiff light grey mottled orange slightly gravelly slightly sandy CLAY, with occasional patches of sand. Gravel is fine to medium subrounded to rounded quartzite. Sand is fine to medium. (BRANSCOMBE MUDSTONE FORMATION) from 1.10 m, no sandy patches, gravel becomes fine and frequent black irregular limeations occur (possible relict roots). | (0.70) | |
| - - - - | 2.00-2.45 | S 4 | SPT ES | N=32 | | | Firm to stiff brown mottled black slightly gravelly sandy CLAY. Gravel is fine to coarse subrounded to rounded quartzite angular flint subrounded to subangular sandstone. Sand is fine to medium. (BRANSCOMBE MUDSTONE FORMATION) | (0.50) | |
| - - - - - | _ - - - - - | | | | | | Stiff orangish brown CLAY. (BRANSCOMBE MUDSTONE FORMATION) | (1.31) | |
| - - - - | 2.90 3.00-3.41 | 5 S | ES SPT | TJV N=50 | | | | 3.41 | |
| | [| | | | | | Window sample hole refused at 3.41m depth. | | |
| - - - - - - | - - - - - - | | | | | | | - | |

| 3 | [| e Time Depth Depth Diam | | | | S | | | Con | orol | Domorko | | |
|------------------------------------|-----------------|-------------------------|--------------------|---------------|------------------------------|-----------------------|----------|----------------|--|--------------|----------------|----------------|-----|
| om Eta, 12 100 gai ocot 10 ga, 1 m | Date | Time | Depth | Depth | Borehole Diameter (mm) | Water Depth (m) | 2. Insta | lation: 1.0 | er was encount 00m plain, 2.00 10.34-2018 (E | tered. | | | |
| 5 | | | | | | | А | II dimensi | ons in metres | | Scale: | 1:25 | |
| 707 | Method Used: | | d windov npling | V Plai Use | | remier ri | 9 | Drilled By: | Geoffrey Fawcett | Logge By: | d HWarrener | Checked By: | AGS |

GINT_LIBRARY_V8_06. GLB LibVersion: v8_06_018 PrjVersion: v8_06 - Core+Logs - 002 | Log WINDOW SAMPLE LOG - A4P | 302001. GPJ - v8_06. RSK Environment Ltd, 12 Royal Scot Road, Pride Park, Derby, DE24 8AJ. Tel: 01332 542740, Fax: 01332 542760, Web: www.rsk.co.uk: | 26/03/18 - 10:32 | VP1 |



APPENDIX C GROUND GAS MONITORING DATA

| [Pressures] Previous | During | <u>Start</u> | <u>End</u> | Equipment Used & Remarks |
|---|--|---|---|---|
| Round 1 - Round 2 - Round 3 - Round 4 - Round 5 - Round 6 - | Rising Constant Constant Constant Constant Rising | 983 984 991 1012 1010 1003 | 987 984 991 1011 1011 1005 | GA5000 + Weather: Raining + Ground: Wet + Wind: Medium + Air Temp: 2DegC GA5000 SN-G502481 + Weather: Cloudy + Ground: Wet + Wind: Light + Air Temp: 11DegC GA5000 SN-G502481 + Weather: Cloudy + Ground: Wet + Wind: Light + Air Temp: 13DegC GA5000 SN-G502481 + Weather: Overcast + Ground: Dry + Wind: Medium + Air Temp: 15DegC GA5000 SN-G502481 + Ground: Damp + Wind: Medium + Air Temp: 7DegC GA5000 SN-G502481 + Ground: Wet + Wind: Medium + Air Temp: 6DegC |

| 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) | | Gas Flow (l/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|--|------------------------------|-----|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| WS01 | 1 | 50 | 1 | 3.00 | 3.06 | 1.00 to 3.00 | 08/03/2018 10:21:00 | 985 | 985 | 0.0 _(I) | 3.06 | 0.0 | 0.0 | 20.9 | 0.0 | 13.1 | 0 | 0 |
| WS01 | 1 | 50 | 1 | | 3.06 | 1.00 to 3.00 | 15 secs | 985 | 985 | 0.0 _(SS) | 3.06 | 0.7 | 0.0 | 19.9 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 1 | | 3.06 | 1.00 to 3.00 | 30 secs | 985 | 985 | - | 3.06 | 0.7 | 0.0 | 19.6 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 1 | | 3.06 | 1.00 to 3.00 | 60 secs | 985 | 985 | - | 3.06 | 0.7 | 0.0 | 19.6 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 1 | | 3.06 | 1.00 to 3.00 | 90 secs | 985 | 985 | - | 3.06 | 0.7 | 0.0 | 19.6 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 1 | | 3.06 | 1.00 to 3.00 | 120 secs | 985 | 985 | - | 3.06 | 0.7 | 0.0 | 19.6 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 1 | | 3.06 | 1.00 to 3.00 | 180 secs | 985 | 985 | - | 3.06 | 0.8 | 0.0 | 19.5 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 1 | | 3.06 | 1.00 to 3.00 | 240 secs | 985 | 985 | - | 3.06 | 0.8 | 0.0 | 19.4 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 1 | | 3.06 | 1.00 to 3.00 | 300 secs | 985 | 985 | - | 3.06 | 0.8 | 0.0 | 19.4 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 2 | 3.00 | 3.05 | 1.00 to 3.00 | 15/03/2018 09:00:00 | 984 | 984 | 0.1(1) | 0.97 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 2 | | 3.05 | 1.00 to 3.00 | 15 secs | 984 | 984 | 0.0 _(SS) | 0.97 | 0.1 | 0.0 | 20.8 | 0.0 | - | 1 | 0 |
| WS01 | 1 | 50 | 2 | | 3.05 | 1.00 to 3.00 | 30 secs | 984 | 984 | - | 0.97 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 2 | | 3.05 | 1.00 to 3.00 | 60 secs | 984 | 984 | - | 0.97 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 2 | | 3.05 | 1.00 to 3.00 | 90 secs | 984 | 984 | - | 0.97 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 2 | | 3.05 | 1.00 to 3.00 | 120 secs | 984 | 984 | - | 0.97 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 2 | | 3.05 | 1.00 to 3.00 | 180 secs | 984 | 984 | - | 0.97 | 0.1 | 0.0 | 20.9 | 0.0 | 1 | 0 | 0 |
| WS01 | 1 | 50 | 2 | | 3.05 | 1.00 to 3.00 | 240 secs | 984 | 984 | - | 0.97 | 0.1 | 0.0 | 20.9 | 0.0 | 1 | 0 | 0 |
| WS01 | 1 | 50 | 2 | | 3.05 | 1.00 to 3.00 | 300 secs | 984 | 984 | - | 0.97 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |

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

RSK E

RSK Environment Ltd 12 Royal Scot Road Pride Park Derby DE24 8AJ

| 1 | Compiled By | Date | Checked By | Date | Contract Ref: |
|---|-----------------|----------|------------|------|---------------|
| • | Kewin Ho, liney | 25/04/18 | | | 302001 |
| | Contract: | | | | Page: |

Land North of Barkby Road, Syston



| 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) | | Gas Flow (l/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|--|------------------------------|------|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| WS01 | 1 | 50 | 3 | 3.00 | 3.05 | 1.00 to 3.00 | 20/03/2018 09:00:00 | 992 | 991 | 0.0(1) | 1.08 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 3 | | 3.05 | 1.00 to 3.00 | 15 secs | 992 | 991 | 0.0 _(SS) | 1.08 | 0.1 | 0.0 | 20.8 | 0.0 | - | 1 | 0 |
| WS01 | 1 | 50 | 3 | | 3.05 | 1.00 to 3.00 | 30 secs | 992 | 991 | - | 1.08 | 0.1 | 0.0 | 20.8 | 0.0 | - | 1 | 0 |
| WS01 | 1 | 50 | 3 | | 3.05 | 1.00 to 3.00 | 60 secs | 992 | 991 | - | 1.08 | 0.1 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 3 | | 3.05 | 1.00 to 3.00 | 90 secs | 992 | 991 | - | 1.08 | 0.1 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 3 | | 3.05 | 1.00 to 3.00 | 120 secs | 992 | 991 | - | 1.08 | 0.1 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 3 | | 3.05 | 1.00 to 3.00 | 180 secs | 992 | 991 | - | 1.08 | 0.1 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 3 | | 3.05 | 1.00 to 3.00 | 300 secs | 992 | 991 | - | 1.08 | 0.1 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 4 | 3.00 | 3.06 | 1.00 to 3.00 | 26/03/2018 13:25:00 | 1012 | 1012 | 0.0 _(I) | 1.14 | 0.0 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS01 | 1 | 50 | 4 | | 3.06 | 1.00 to 3.00 | 15 secs | 1012 | 1012 | 0.0 _(SS) | 1.14 | 0.2 | 0.0 | 20.7 | 0.0 | - | 1 | 0 |
| WS01 | 1 | 50 | 4 | | 3.06 | 1.00 to 3.00 | 30 secs | 1012 | 1012 | - | 1.14 | 0.2 | 0.0 | 20.7 | 0.0 | - | 1 | 0 |
| WS01 | 1 | 50 | 4 | | 3.06 | 1.00 to 3.00 | 60 secs | 1012 | 1012 | - | 1.14 | 0.2 | 0.0 | 20.7 | 0.0 | - | 1 | 0 |
| WS01 | 1 | 50 | 4 | | 3.06 | 1.00 to 3.00 | 90 secs | 1012 | 1012 | - | 1.14 | 0.2 | 0.0 | 20.8 | 0.0 | - | 1 | 0 |
| WS01 | 1 | 50 | 4 | | 3.06 | 1.00 to 3.00 | 120 secs | 1012 | 1012 | - | 1.14 | 0.2 | 0.0 | 20.7 | 0.0 | - | 1 | 0 |
| WS01 | 1 | 50 | 4 | | 3.06 | 1.00 to 3.00 | 180 secs | 1012 | 1012 | - | 1.14 | 0.2 | 0.0 | 20.7 | 0.0 | - | 1 | 0 |
| WS01 | 1 | 50 | 4 | | 3.06 | 1.00 to 3.00 | 240 secs | 1012 | 1012 | - | 1.14 | 0.2 | 0.0 | 20.7 | 0.0 | - | 1 | 0 |
| WS01 | 1 | 50 | 4 | | 3.06 | 1.00 to 3.00 | 300 secs | 1012 | 1012 | - | 1.14 | 0.2 | 0.0 | 20.7 | 0.0 | - | 1 | 0 |
| WS01 | 1 | 50 | 5 | 3.00 | 3.06 | 1.00 to 3.00 | 05/04/2018 10:18:00 | 1011 | 1011 | 7.6 _(I) | 1.06 | 0.1 | 0.0 | 20.9 | - | - | 0 | 0 |
| WS01 | 1 | 50 | 5 | | 3.06 | 1.00 to 3.00 | 15 secs | 1011 | 1011 | 0.9 _(SS) | 1.06 | 0.5 | 0.0 | 20.8 | - | - | 0 | 0 |
| WS01 | 1 | 50 | 5 | | 3.06 | 1.00 to 3.00 | 30 secs | 1011 | 1011 | - | 1.06 | 0.5 | 0.0 | 20.5 | - | - | 0 | 0 |
| WS01 | 1 | 50 | 5 | | 3.06 | 1.00 to 3.00 | 60 secs | 1011 | 1011 | - | 1.06 | 0.5 | 0.0 | 20.4 | - | - | 0 | 0 |
| WS01 | 1 | 50 | 5 | | 3.06 | 1.00 to 3.00 | 90 secs | 1011 | 1011 | - | 1.06 | 0.5 | 0.0 | 20.4 | - | - | 0 | 0 |
| WS01 | 1 | 50 | 5 | | 3.06 | 1.00 to 3.00 | 120 secs | 1011 | 1011 | - | 1.06 | 0.5 | 0.0 | 20.4 | - | - | 0 | 0 |
| WS01 | 1 | 50 | 5 | | 3.06 | 1.00 to 3.00 | 180 secs | 1011 | 1011 | - | 1.06 | 0.5 | 0.0 | 20.4 | - | - | 0 | 0 |
| WS01 | 1 | 50 | 5 | | 3.06 | 1.00 to 3.00 | 240 secs | 1011 | 1011 | - | 1.06 | 0.5 | 0.0 | 20.4 | - | - | 0 | 0 |

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

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| | Compiled By | Date | Checked By | Date | Contract Ref: |
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| | Contract: | | | | Page. |

Land North of Barkby Road, Syston



| 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) | | Gas Flow (I/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|--|------------------------------|------|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| WS01 | 1 | 50 | 5 | | 3.06 | 1.00 to 3.00 | 300 secs | 1011 | 1011 | - | 1.06 | 0.5 | 0.0 | 20.4 | - | - | 0 | 0 |
| WS01 | 1 | 50 | 6 | 3.00 | 3.06 | 1.00 to 3.00 | 11/04/2018 10:31:00 | 1004 | 1004 | 0.5 _(I) | 1.03 | 0.1 | 0.0 | 20.9 | - | - | 0 | 0 |
| WS01 | 1 | 50 | 6 | | 3.06 | 1.00 to 3.00 | 15 secs | 1004 | 1004 | 0.4 _(I) | 1.03 | 0.6 | 0.0 | 20.6 | - | - | 1 | 0 |
| WS01 | 1 | 50 | 6 | | 3.06 | 1.00 to 3.00 | 30 secs | 1004 | 1004 | - | 1.03 | 0.6 | 0.0 | 20.0 | - | - | 1 | 0 |
| WS01 | 1 | 50 | 6 | | 3.06 | 1.00 to 3.00 | 60 secs | 1004 | 1004 | - | 1.03 | 0.5 | 0.0 | 20.0 | - | - | 1 | 0 |
| WS01 | 1 | 50 | 6 | | 3.06 | 1.00 to 3.00 | 90 secs | 1004 | 1004 | - | 1.03 | 0.6 | 0.0 | 20.0 | - | - | 1 | 0 |
| WS01 | 1 | 50 | 6 | | 3.06 | 1.00 to 3.00 | 102 secs | 1004 | 1004 | - | 1.03 | 0.5 | 0.0 | 20.0 | - | - | 1 | 0 |
| WS01 | 1 | 50 | 6 | | 3.06 | 1.00 to 3.00 | 180 secs | 1004 | 1004 | - | 1.03 | 0.4 | 0.0 | 20.3 | - | - | 1 | 0 |
| WS01 | 1 | 50 | 6 | | 3.06 | 1.00 to 3.00 | 240 secs | 1004 | 1004 | - | 1.03 | 0.4 | 0.0 | 20.3 | - | - | 1 | 0 |
| WS01 | 1 | 50 | 6 | | 3.06 | 1.00 to 3.00 | 300 secs | 1004 | 1004 | - | 1.03 | 0.4 | 0.0 | 20.3 | - | - | 1 | 0 |
| | | | | | | | | | | | | | | | | | | |
| WS02 | 1 | 50 | 1 | 2.00 | 2.11 | 1.00 to 2.00 | 08/03/2018 10:39:00 | 985 | 985 | 0.0 _(I) | 2.11 | 0.0 | 0.0 | 20.9 | 0.0 | 5.0 | 0 | 0 |
| WS02 | 1 | 50 | 1 | | 2.11 | 1.00 to 2.00 | 15 secs | 985 | 985 | 0.0 _(SS) | 2.11 | 0.5 | 0.0 | 19.9 | 0.0 | - | 0 | 0 |
| WS02 | 1 | 50 | 1 | | 2.11 | 1.00 to 2.00 | 30 secs | 985 | 985 | - | 2.11 | 0.5 | 0.0 | 19.5 | 0.0 | - | 0 | 0 |
| WS02 | 1 | 50 | 1 | | 2.11 | 1.00 to 2.00 | 60 secs | 985 | 985 | - | 2.11 | 0.6 | 0.0 | 19.3 | 0.0 | - | 0 | 0 |
| WS02 | 1 | 50 | 1 | | 2.11 | 1.00 to 2.00 | 90 secs | 985 | 985 | - | 2.11 | 0.6 | 0.0 | 19.2 | 0.0 | - | 0 | 0 |
| WS02 | 1 | 50 | 1 | | 2.11 | 1.00 to 2.00 | 120 secs | 985 | 985 | - | 2.11 | 0.6 | 0.0 | 19.1 | 0.0 | - | 0 | 0 |
| WS02 | 1 | 50 | 1 | | 2.11 | 1.00 to 2.00 | 180 secs | 985 | 985 | - | 2.11 | 0.6 | 0.0 | 19.0 | 0.0 | - | 0 | 0 |
| WS02 | 1 | 50 | 1 | | 2.11 | 1.00 to 2.00 | 240 secs | 985 | 985 | - | 2.11 | 0.7 | 0.0 | 18.9 | 0.0 | - | 0 | 0 |
| WS02 | 1 | 50 | 1 | | 2.11 | 1.00 to 2.00 | 300 secs | 985 | 985 | - | 2.11 | 0.7 | 0.0 | 18.8 | 0.0 | - | 0 | 0 |
| WS02 | 1 | 50 | 2 | 2.00 | 2.10 | 1.00 to 2.00 | 15/03/2018 09:00:00 | - | - | - | 0.00 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| | R | emarks: | Flooded. Wa | er around B | H, filled BH. | | | | | | | | | | | | | |
| WS02 | 1 | 50 | 3 | 2.00 | 2.10 | 1.00 to 2.00 | 20/03/2018 13:45:00 | 991 | - | 3.0 _(I) | 1.17 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS02 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 15 secs | 991 | - | 0.2 _(SS) | 1.17 | 0.2 | 0.0 | 19.9 | 0.0 | - | 4 | 0 |
| WS02 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 30 secs | 991 | - | - | 1.17 | 0.2 | 0.0 | 19.6 | 0.0 | - | 5 | 0 |

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

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RSK Environment Ltd 12 Royal Scot Road Pride Park Derby DE24 8AJ

| | Compiled By | Date | Checked By | Date | Contract Ref: |
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| | Contract: | | | | Page: |

Land North of Barkby Road, Syston



| 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) | | Gas Flow (I/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|--|------------------------------|---|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| WS02 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 60 secs | 991 | - | - | 1.17 | 0.2 | 0.0 | 19.6 | 0.0 | - | 5 | 0 |
| WS02 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 90 secs | 991 | - | - | 1.17 | 0.2 | 0.0 | 19.6 | 0.0 | - | 5 | 0 |
| WS02 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 120 secs | 991 | - | - | 1.17 | 0.2 | 0.0 | 19.6 | 0.0 | - | 5 | 0 |
| WS02 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 180 secs | 991 | - | - | 1.17 | 0.2 | 0.0 | 19.6 | 0.0 | - | 5 | 0 |
| WS02 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 240 secs | 991 | - | - | 1.17 | 0.2 | 0.0 | 19.6 | 0.0 | - | 5 | 0 |
| WS02 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 300 secs | 991 | - | - | 1.17 | 0.2 | 0.0 | 19.6 | 0.0 | - | 5 | 0 |
| WS02 | 1 | 50 | 4 | 2.00 | 2.09 | 1.00 to 2.00 | 26/03/2018 13:15:00 | 1011 | - | 0.0 _(I) | 1.18 | 0.0 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS02 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 15 secs | 1011 | - | 0.0 _(SS) | 1.18 | 0.2 | 0.0 | 19.7 | 0.0 | - | 3 | 0 |
| WS02 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 30 secs | 1011 | - | - | 1.18 | 0.2 | 0.0 | 19.3 | 0.0 | - | 3 | 0 |
| WS02 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 60 secs | 1011 | - | - | 1.18 | 0.2 | 0.0 | 19.3 | 0.0 | - | 3 | 0 |
| WS02 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 90 secs | 1011 | - | - | 1.18 | 0.2 | 0.0 | 19.3 | 0.0 | - | 3 | 0 |
| WS02 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 120 secs | 1011 | - | - | 1.18 | 0.2 | 0.0 | 19.3 | 0.0 | - | 3 | 0 |
| WS02 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 180 secs | 1011 | - | - | 1.18 | 0.2 | 0.0 | 19.3 | 0.0 | - | 3 | 0 |
| WS02 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 240 secs | 1011 | - | - | 1.18 | 0.2 | 0.0 | 19.4 | 0.0 | - | 4 | 0 |
| WS02 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 300 secs | 1011 | - | - | 1.18 | 0.2 | 0.0 | 19.4 | 0.0 | - | 4 | 0 |
| WS02 | 1 | 50 | 5 | 2.00 | 2.11 | 1.00 to 2.00 | 05/04/2018 10:03:00 | 1010 | - | 1.9 _(I) | 0.86 | 0.1 | 0.0 | 20.9 | - | - | 0 | 0 |
| WS02 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 15 secs | 1010 | - | 0.3 _(SS) | 0.86 | 0.2 | 0.0 | 20.5 | - | - | 1 | 0 |
| WS02 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 30 secs | 1010 | - | - | 0.86 | 0.2 | 0.0 | 19.9 | - | - | 0 | 0 |
| WS02 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 60 secs | 1010 | - | - | 0.86 | 0.2 | 0.0 | 20.2 | - | - | 0 | 0 |
| WS02 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 90 secs | 1010 | - | - | 0.86 | 0.1 | 0.0 | 20.5 | - | - | 0 | 0 |
| WS02 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 120 secs | 1010 | - | - | 0.86 | 0.1 | 0.0 | 20.5 | - | - | 0 | 0 |
| WS02 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 180 secs | 1010 | - | - | 0.86 | 0.1 | 0.0 | 20.5 | - | - | 0 | 0 |
| WS02 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 240 secs | 1010 | - | - | 0.86 | 0.1 | 0.0 | 20.5 | - | - | 0 | 0 |
| WS02 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 300 secs | 1010 | - | - | 0.86 | 0.1 | 0.0 | 20.5 | - | - | 0 | 0 |
| WS02 | 1 | 50 | 6 | 2.00 | 2.11 | 1.00 to 2.00 | 11/04/2018 10:15:00 | 1006 | - | 2.2 _(I) | 0.71 | 0.1 | 0.0 | 20.9 | - | - | 0 | 0 |

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

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Land North of Barkby Road, Syston



| 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) | | Gas Flow (I/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|--|------------------------------|-----|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|-----------|-----------------------------|-------------------------------|
| WS02 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 15 secs | 1006 | - | 0.3 _(SS) | 0.71 | 0.1 | 0.0 | 20.8 | - | - | 5 | 0 |
| WS02 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 30 secs | 1006 | - | - | 0.71 | 0.1 | 0.0 | 20.3 | - | - | 6 | 0 |
| WS02 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 60 secs | 1006 | - | - | 0.71 | 0.1 | 0.0 | 20.2 | - | - | 6 | 0 |
| WS02 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 90 secs | 1006 | - | - | 0.71 | 0.1 | 0.0 | 20.1 | - | - | 7 | 0 |
| WS02 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 120 secs | 1006 | - | - | 0.71 | 0.1 | 0.0 | 20.0 | - | - | 7 | 0 |
| WS02 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 180 secs | 1006 | - | - | 0.71 | 0.1 | 0.0 | 20.0 | - | - | 7 | 0 |
| WS02 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 240 secs | 1006 | - | - | 0.71 | 0.1 | 0.0 | 20.0 | - | - | 7 | 0 |
| WS02 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 300 secs | 1006 | - | - | 0.71 | 0.1 | 0.0 | 20.0 | - | - | 7 | 0 |
| | | | | | | | | | | | | | | | | | | |
| WS03 | 1 | 50 | 1 | 2.00 | 2.09 | 1.00 to 2.00 | 08/03/2018 10:49:00 | 986 | - | 0.0(1) | 2.09 | 0.0 | 0.0 | 20.9 | 0.0 | 2.0 | 0 | 0 |
| WS03 | 1 | 50 | 1 | | 2.09 | 1.00 to 2.00 | 15 secs | 986 | - | 0.0 _(SS) | 2.09 | 0.4 | 0.0 | 19.8 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 1 | | 2.09 | 1.00 to 2.00 | 30 secs | 986 | - | - | 2.09 | 0.4 | 0.0 | 19.5 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 1 | | 2.09 | 1.00 to 2.00 | 60 secs | 986 | - | - | 2.09 | 0.4 | 0.0 | 19.4 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 1 | | 2.09 | 1.00 to 2.00 | 90 secs | 986 | - | - | 2.09 | 0.4 | 0.0 | 19.4 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 1 | | 2.09 | 1.00 to 2.00 | 120 secs | 986 | - | - | 2.09 | 0.4 | 0.0 | 19.4 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 1 | | 2.09 | 1.00 to 2.00 | 180 secs | 986 | - | - | 2.09 | 0.4 | 0.0 | 19.3 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 1 | | 2.09 | 1.00 to 2.00 | 240 secs | 986 | - | - | 2.09 | 0.4 | 0.0 | 19.3 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 1 | | 2.09 | 1.00 to 2.00 | 300 secs | 986 | - | - | 2.09 | 0.4 | 0.0 | 19.3 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 2 | 2.00 | 2.10 | 1.00 to 2.00 | 15/03/2018 09:00:00 | 991 | 984 | 3.2 _(I) | 0.73 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 2 | | 2.10 | 1.00 to 2.00 | 15 secs | 991 | 984 | 0.2 _(SS) | 0.73 | 0.4 | 0.0 | 19.0 | 0.0 | - | 2 | 0 |
| WS03 | 1 | 50 | 2 | | 2.10 | 1.00 to 2.00 | 30 secs | 991 | 984 | - | 0.73 | 0.4 | 0.0 | 18.5 | 0.0 | - | 1 | 0 |
| WS03 | 1 | 50 | 2 | | 2.10 | 1.00 to 2.00 | 60 secs | 991 | 984 | - | 0.73 | 0.4 | 0.0 | 18.4 | 0.0 | - | 1 | 0 |
| WS03 | 1 | 50 | 2 | | 2.10 | 1.00 to 2.00 | 90 secs | 991 | 984 | - | 0.73 | 0.4 | 0.0 | 18.4 | 0.0 | - | 1 | 0 |
| WS03 | 1 | 50 | 2 | | 2.10 | 1.00 to 2.00 | 120 secs | 991 | 984 | - | 0.73 | 0.4 | 0.0 | 18.4 | 0.0 | - | 1 | 0 |
| WS03 | 1 | 50 | 2 | | 2.10 | 1.00 to 2.00 | 180 secs | 991 | 984 | - | 0.73 | 0.4 | 0.0 | 18.4 | 0.0 | - | 1 | 0 |

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

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| | Contract: | | | | Page: |

Land North of Barkby Road, Syston



| 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) | | Gas Flow (I/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|--|------------------------------|------|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|-----------|-----------------------------|-------------------------------|
| WS03 | 1 | 50 | 2 | | 2.10 | 1.00 to 2.00 | 240 secs | 991 | 984 | - | 0.73 | 0.4 | 0.0 | 18.4 | 0.0 | - | 1 | 0 |
| WS03 | 1 | 50 | 2 | | 2.10 | 1.00 to 2.00 | 300 secs | 991 | 984 | - | 0.73 | 0.4 | 0.0 | 18.4 | 0.0 | - | 1 | 0 |
| WS03 | 1 | 50 | 3 | 2.00 | 2.10 | 1.00 to 2.00 | 20/03/2018 14:00:00 | 991 | - | 3.1 _(I) | 0.59 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 15 secs | 991 | - | 0.1 _(SS) | 0.59 | 0.1 | 0.0 | 20.0 | 0.0 | - | 3 | 0 |
| WS03 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 30 secs | 991 | - | - | 0.59 | 0.0 | 0.0 | 19.7 | 0.0 | - | 2 | 0 |
| WS03 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 60 secs | 991 | - | - | 0.59 | 0.0 | 0.0 | 19.7 | 0.0 | - | 2 | 0 |
| WS03 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 90 secs | 991 | - | - | 0.59 | 0.0 | 0.0 | 19.7 | 0.0 | - | 2 | 0 |
| WS03 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 120 secs | 991 | - | - | 0.59 | 0.0 | 0.0 | 19.7 | 0.0 | - | 2 | 0 |
| WS03 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 180 secs | 991 | - | - | 0.59 | 0.0 | 0.0 | 19.7 | 0.0 | - | 2 | 0 |
| WS03 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 240 secs | 991 | - | - | 0.59 | 0.0 | 0.0 | 19.7 | 0.0 | - | 1 | 0 |
| WS03 | 1 | 50 | 3 | | 2.10 | 1.00 to 2.00 | 300 secs | 991 | - | - | 0.59 | 0.0 | 0.0 | 19.7 | 0.0 | - | 1 | 0 |
| WS03 | 1 | 50 | 4 | 2.00 | 2.09 | 1.00 to 2.00 | 26/03/2018 13:07:00 | 1011 | - | -0.2 _(I) | 0.65 | 0.0 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 15 secs | 1011 | - | 0.0 _(SS) | 0.65 | 0.1 | 0.0 | 20.6 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 30 secs | 1011 | - | - | 0.65 | 0.1 | 0.0 | 20.6 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 60 secs | 1011 | - | - | 0.65 | 0.1 | 0.0 | 20.6 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 90 secs | 1011 | - | - | 0.65 | 0.1 | 0.0 | 20.6 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 120 secs | 1011 | - | - | 0.65 | 0.1 | 0.0 | 20.6 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 180 secs | 1011 | - | - | 0.65 | 0.1 | 0.0 | 20.6 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 240 secs | 1011 | - | - | 0.65 | 0.1 | 0.0 | 20.6 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 4 | | 2.09 | 1.00 to 2.00 | 300 secs | 1011 | - | - | 0.65 | 0.1 | 0.0 | 20.6 | 0.0 | - | 0 | 0 |
| WS03 | 1 | 50 | 5 | 2.00 | 2.11 | 1.00 to 2.00 | 05/04/2018 09:51:00 | 1014 | 1010 | 1.3 _(I) | 0.41 | 0.1 | 0.0 | 20.9 | - | - | 0 | - |
| WS03 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 15 secs | 1014 | 1010 | 0.4 _(SS) | 0.41 | 0.1 | 0.0 | 20.8 | - | - | 1 | - |
| WS03 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 30 secs | 1014 | 1010 | - | 0.41 | 0.1 | 0.0 | 20.8 | - | - | 0 | - |
| WS03 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 60 secs | 1014 | 1010 | - | 0.41 | 0.1 | 0.0 | 20.8 | - | - | 0 | - |
| WS03 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 90 secs | 1014 | 1010 | | 0.41 | 0.1 | 0.0 | 20.8 | - | - | 0 | - |

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

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Land North of Barkby Road, Syston



| Exploratory Position ID | Pipe ref | Pipe diameter (mm) | Monitoring Round | Reported Installation Depth (m) | Measured Installation Depth (mbgl) | Response Zone | | Borehole Pressure (mb) | | Gas Flow (l/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|---------------------|------------------------------|------|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| WS03 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 120 secs | 1014 | 1010 | - | 0.41 | 0.1 | 0.0 | 20.8 | - | - | 0 | - |
| WS03 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 180 secs | 1014 | 1010 | - | 0.41 | 0.1 | 0.0 | 20.8 | - | - | 0 | - |
| WS03 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 240 secs | 1014 | 1010 | - | 0.41 | 0.1 | 0.0 | 20.8 | - | - | 0 | - |
| WS03 | 1 | 50 | 5 | | 2.11 | 1.00 to 2.00 | 300 secs | 1014 | 1010 | - | 0.41 | 0.1 | 0.0 | 20.8 | - | - | 0 | - |
| WS03 | 1 | 50 | 6 | 2.00 | 2.11 | 1.00 to 2.00 | 11/04/2018 10:02:00 | 1007 | 1006 | 3.3 _(I) | 0.36 | 0.1 | 0.0 | 20.9 | - | - | 0 | 0 |
| WS03 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 15 secs | 1007 | 1006 | 0.5 _(SS) | 0.36 | 0.1 | 0.0 | 20.9 | - | - | 1 | 0 |
| WS03 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 30 secs | 1007 | 1006 | - | 0.36 | 0.1 | 0.0 | 20.9 | - | - | 1 | 0 |
| WS03 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 60 secs | 1007 | 1006 | - | 0.36 | 0.1 | 0.0 | 20.9 | - | - | 1 | 0 |
| WS03 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 90 secs | 1007 | 1006 | - | 0.36 | 0.1 | 0.0 | 20.9 | - | - | 1 | 0 |
| WS03 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 120 secs | 1007 | 1006 | - | 0.36 | 0.1 | 0.0 | 20.9 | - | - | 1 | 0 |
| WS03 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 180 secs | 1007 | 1006 | - | 0.36 | 0.1 | 0.0 | 20.9 | - | - | 1 | 0 |
| WS03 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 240 secs | 1007 | 1006 | - | 0.36 | 0.1 | 0.0 | 20.9 | - | - | 1 | 0 |
| WS03 | 1 | 50 | 6 | | 2.11 | 1.00 to 2.00 | 300 secs | 1007 | 1006 | - | 0.36 | 0.1 | 0.0 | 20.9 | - | - | 1 | 0 |
| | | | | | | | | | | | | | | | | | | |
| WS04 | 1 | 50 | 1 | 5.00 | 4.94 | 1.00 to 5.00 | 08/03/2018 11:01:00 | 986 | - | 1.3 _(I) | 4.87 | 0.0 | 0.0 | 0.9 | 0.0 | 2.5 | 0 | 0 |
| WS04 | 1 | 50 | 1 | | 4.94 | 1.00 to 5.00 | 15 secs | 986 | - | 2.0 _(SS) | 4.87 | 3.9 | 0.0 | 10.1 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 1 | | 4.94 | 1.00 to 5.00 | 30 secs | 986 | - | - | 4.87 | 4.1 | 0.0 | 5.9 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 1 | | 4.94 | 1.00 to 5.00 | 60 secs | 986 | - | - | 4.87 | 4.5 | 0.0 | 4.0 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 1 | | 4.94 | 1.00 to 5.00 | 90 secs | 986 | - | - | 4.87 | 4.9 | 0.0 | 2.3 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 1 | | 4.94 | 1.00 to 5.00 | 120 secs | 986 | - | - | 4.87 | 5.2 | 0.0 | 1.1 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 1 | | 4.94 | 1.00 to 5.00 | 180 secs | 986 | - | - | 4.87 | 5.3 | 0.0 | 0.7 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 1 | | 4.94 | 1.00 to 5.00 | 240 secs | 986 | - | - | 4.87 | 5.3 | 0.0 | 0.3 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 1 | | 4.94 | 1.00 to 5.00 | 300 secs | 986 | - | - | 4.87 | 5.3 | 0.0 | 0.1 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 2 | 5.00 | 4.94 | 1.00 to 5.00 | 15/03/2018 09:00:00 | - | - | - | 3.26 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| | R | emarks: | Unable to mo | nitor due to | flooded well | | | | | | | | | | | | | |

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

RSK

RSK Environment Ltd 12 Royal Scot Road Pride Park Derby DE24 8AJ

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Land North of Barkby Road, Syston



| 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) | | Gas Flow (I/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|--|------------------------------|-----|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| WS04 | 1 | 50 | 3 | 5.00 | 4.91 | 1.00 to 5.00 | 20/03/2018 09:00:00 | 991 | - | 2.7 _(I) | DRY | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS04 | 1 | 50 | 3 | | 4.91 | 1.00 to 5.00 | 15 secs | 991 | - | 2.7 _(SS) | DRY | 3.3 | 0.0 | 7.8 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 3 | | 4.91 | 1.00 to 5.00 | 30 secs | 991 | - | 1 | DRY | 3.3 | 0.0 | 5.6 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 3 | | 4.91 | 1.00 to 5.00 | 60 secs | 991 | - | - | DRY | 3.3 | 0.0 | 5.5 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 3 | | 4.91 | 1.00 to 5.00 | 90 secs | 991 | - | - | DRY | 3.3 | 0.0 | 5.5 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 3 | | 4.91 | 1.00 to 5.00 | 120 secs | 991 | - | - | DRY | 3.3 | 0.0 | 5.4 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 3 | | 4.91 | 1.00 to 5.00 | 180 secs | 991 | - | - | DRY | 3.3 | 0.0 | 5.4 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 3 | | 4.91 | 1.00 to 5.00 | 240 secs | 991 | - | - | DRY | 3.3 | 0.0 | 5.3 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 3 | | 4.91 | 1.00 to 5.00 | 300 secs | 991 | - | - | DRY | 3.3 | 0.0 | 5.3 | 0.0 | - | 1 | 0 |
| WS04 | 1 | 50 | 4 | 5.00 | 4.73 | 1.00 to 5.00 | 26/03/2018 12:57:00 | 1012 | - | 0.0 _(I) | 4.67 | 0.0 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS04 | 1 | 50 | 4 | | 4.73 | 1.00 to 5.00 | 15 secs | 1012 | - | 0.0 _(SS) | 4.67 | 2.8 | 0.0 | 9.6 | 0.0 | - | 0 | 0 |
| WS04 | 1 | 50 | 4 | | 4.73 | 1.00 to 5.00 | 30 secs | 1012 | - | - | 4.67 | 2.9 | 0.0 | 8.0 | 0.0 | - | 0 | 0 |
| WS04 | 1 | 50 | 4 | | 4.73 | 1.00 to 5.00 | 60 secs | 1012 | - | - | 4.67 | 3.0 | 0.0 | 7.7 | 0.0 | - | 0 | 0 |
| WS04 | 1 | 50 | 4 | | 4.73 | 1.00 to 5.00 | 90 secs | 1012 | - | - | 4.67 | 3.0 | 0.0 | 7.5 | 0.0 | - | 0 | 0 |
| WS04 | 1 | 50 | 4 | | 4.73 | 1.00 to 5.00 | 120 secs | 1012 | - | - | 4.67 | 3.1 | 0.0 | 7.1 | 0.0 | - | 0 | 0 |
| WS04 | 1 | 50 | 4 | | 4.73 | 1.00 to 5.00 | 180 secs | 1012 | - | - | 4.67 | 3.2 | 0.0 | 6.7 | 0.0 | - | 0 | 0 |
| WS04 | 1 | 50 | 4 | | 4.73 | 1.00 to 5.00 | 240 secs | 1012 | - | - | 4.67 | 3.3 | 0.0 | 6.1 | 0.0 | - | 0 | 0 |
| WS04 | 1 | 50 | 4 | | 4.73 | 1.00 to 5.00 | 300 secs | 1012 | - | - | 4.67 | 3.4 | 0.0 | 5.7 | 0.0 | - | 0 | 0 |
| | | | | | | | | | | | | | | | | | | |
| WS05 | 1 | 50 | 1 | 2.00 | 2.10 | 1.00 to 2.00 | 08/03/2018 11:13:00 | 987 | 987 | 0.0 _(I) | 2.10 | 0.0 | 0.0 | 20.9 | 0.0 | 34.8 | 0 | 0 |
| WS05 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 15 secs | 987 | 987 | 0.0 _(SS) | 2.10 | 0.6 | 0.0 | 19.3 | 0.0 | - | 1 | 0 |
| WS05 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 30 secs | 987 | 987 | - | 2.10 | 0.5 | 0.0 | 19.2 | 0.0 | - | 1 | 0 |
| WS05 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 60 secs | 987 | 987 | - | 2.10 | 0.5 | 0.0 | 19.2 | 0.0 | - | 1 | 0 |
| WS05 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 90 secs | 987 | 987 | 1 | 2.10 | 0.5 | 0.0 | 19.2 | 0.0 | - | 1 | 0 |
| WS05 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 120 secs | 987 | 987 | | 2.10 | 0.5 | 0.0 | 19.2 | 0.0 | - | 1 | 0 |

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

RSK

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| | Contract: | | | | Page: |

Land North of Barkby Road, Syston



| 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) | | Gas Flow (I/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|--|------------------------------|------|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| WS05 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 180 secs | 987 | 987 | - | 2.10 | 0.5 | 0.0 | 19.1 | 0.0 | - | 1 | 0 |
| WS05 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 240 secs | 987 | 987 | - | 2.10 | 0.5 | 0.0 | 19.0 | 0.0 | - | 1 | 0 |
| WS05 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 300 secs | 987 | 987 | - | 2.10 | 0.5 | 0.0 | 19.0 | 0.0 | - | 1 | 0 |
| WS05 | 1 | 50 | 2 | 2.00 | 2.06 | 1.00 to 2.00 | 15/03/2018 09:00:00 | 981 | 984 | -0.2 _(I) | 1.76 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS05 | 1 | 50 | 2 | | 2.06 | 1.00 to 2.00 | 15 secs | 981 | 984 | -0.2 _(SS) | 1.76 | 0.4 | 0.0 | 20.3 | 0.0 | - | 4 | 0 |
| WS05 | 1 | 50 | 2 | | 2.06 | 1.00 to 2.00 | 30 secs | 981 | 984 | - | 1.76 | 0.4 | 0.0 | 20.2 | 0.0 | - | 2 | 0 |
| WS05 | 1 | 50 | 2 | | 2.06 | 1.00 to 2.00 | 60 secs | 981 | 984 | - | 1.76 | 0.5 | 0.0 | 20.2 | 0.0 | - | 1 | 0 |
| WS05 | 1 | 50 | 2 | | 2.06 | 1.00 to 2.00 | 90 secs | 981 | 984 | - | 1.76 | 0.5 | 0.0 | 20.2 | 0.0 | - | 1 | 0 |
| WS05 | 1 | 50 | 2 | | 2.06 | 1.00 to 2.00 | 120 secs | 981 | 984 | - | 1.76 | 0.5 | 0.0 | 20.2 | 0.0 | - | 1 | 0 |
| WS05 | 1 | 50 | 2 | | 2.06 | 1.00 to 2.00 | 180 secs | 981 | 984 | - | 1.76 | 0.5 | 0.0 | 20.2 | 0.0 | - | 1 | 0 |
| WS05 | 1 | 50 | 2 | | 2.06 | 1.00 to 2.00 | 240 secs | 981 | 984 | - | 1.76 | 0.5 | 0.0 | 20.3 | 0.0 | - | 1 | 0 |
| WS05 | 1 | 50 | 2 | | 2.06 | 1.00 to 2.00 | 300 secs | 981 | 984 | - | 1.76 | 0.5 | 0.0 | 20.3 | 0.0 | - | 1 | 0 |
| WS05 | 1 | 50 | 3 | 2.00 | 2.08 | 1.00 to 2.00 | 20/03/2018 14:30:00 | 1005 | 991 | 0.0 _(I) | 1.72 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS05 | 1 | 50 | 3 | | 2.08 | 1.00 to 2.00 | 15 secs | 1005 | 991 | 0.0 _(SS) | 1.72 | 0.6 | 0.0 | 20.2 | 0.0 | - | 1 | 0 |
| WS05 | 1 | 50 | 3 | | 2.08 | 1.00 to 2.00 | 30 secs | 1005 | 991 | - | 1.72 | 0.6 | 0.0 | 19.9 | 0.0 | - | 0 | 0 |
| WS05 | 1 | 50 | 3 | | 2.08 | 1.00 to 2.00 | 60 secs | 1005 | 991 | - | 1.72 | 0.6 | 0.0 | 19.9 | 0.0 | - | 0 | 0 |
| WS05 | 1 | 50 | 3 | | 2.08 | 1.00 to 2.00 | 90 secs | 1005 | 991 | - | 1.72 | 0.6 | 0.0 | 18.8 | 0.0 | - | 0 | 0 |
| WS05 | 1 | 50 | 3 | | 2.08 | 1.00 to 2.00 | 120 secs | 1005 | 991 | - | 1.72 | 0.6 | 0.0 | 19.8 | 0.0 | - | 0 | 0 |
| WS05 | 1 | 50 | 3 | | 2.08 | 1.00 to 2.00 | 180 secs | 1005 | 991 | - | 1.72 | 0.6 | 0.0 | 19.8 | 0.0 | - | 0 | 0 |
| WS05 | 1 | 50 | 4 | 2.00 | 2.05 | 1.00 to 2.00 | 26/03/2018 12:49:00 | 1011 | 1011 | 0.0 _(I) | 1.69 | 0.0 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS05 | 1 | 50 | 4 | | 2.05 | 1.00 to 2.00 | 15 secs | 1011 | 1011 | 0.0 _(SS) | 1.69 | 0.7 | 0.0 | 20.0 | 0.0 | - | 0 | 0 |
| WS05 | 1 | 50 | 4 | | 2.05 | 1.00 to 2.00 | 30 secs | 1011 | 1011 | - | 1.69 | 0.7 | 0.0 | 19.8 | 0.0 | - | 0 | 0 |
| WS05 | 1 | 50 | 4 | | 2.05 | 1.00 to 2.00 | 60 secs | 1011 | 1011 | - | 1.69 | 0.7 | 0.0 | 19.7 | 0.0 | - | 0 | 0 |
| WS05 | 1 | 50 | 4 | | 2.05 | 1.00 to 2.00 | 90 secs | 1011 | 1011 | - | 1.69 | 0.7 | 0.0 | 19.7 | 0.0 | - | 0 | 0 |
| WS05 | 1 | 50 | 4 | | 2.05 | 1.00 to 2.00 | 120 secs | 1011 | 1011 | - | 1.69 | 0.7 | 0.0 | 19.7 | 0.0 | | 0 | 0 |

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

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RSK Environment Ltd 12 Royal Scot Road Pride Park Derby DE24 8AJ

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| | Contract: | | | | Page: |

Land North of Barkby Road, Syston



| 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) | | Gas Flow (I/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|--|------------------------------|------|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| WS05 | 1 | 50 | 4 | | 2.05 | 1.00 to 2.00 | 180 secs | 1011 | 1011 | - | 1.69 | 0.7 | 0.0 | 19.6 | 0.0 | - | 0 | 0 |
| WS05 | 1 | 50 | 4 | | 2.05 | 1.00 to 2.00 | 240 secs | 1011 | 1011 | - | 1.69 | 0.7 | 0.0 | 19.6 | 0.0 | - | 0 | 0 |
| WS05 | 1 | 50 | 4 | | 2.05 | 1.00 to 2.00 | 300 secs | 1011 | 1011 | - | 1.69 | 0.7 | 0.0 | 19.6 | 0.0 | - | 0 | 0 |
| WS05 | 1 | 50 | 5 | 2.00 | 2.09 | 1.00 to 2.00 | 05/04/2018 11:06:00 | 1011 | 1011 | 3.2 _(I) | 1.58 | 0.1 | 0.0 | 20.9 | - | - | 0 | - |
| WS05 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 15 secs | 1011 | 1011 | 0.7 _(SS) | 1.58 | 0.7 | 0.0 | 20.4 | - | - | 0 | - |
| WS05 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 30 secs | 1011 | 1011 | - | 1.58 | 0.7 | 0.0 | 19.5 | - | - | 0 | - |
| WS05 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 60 secs | 1011 | 1011 | - | 1.58 | 0.7 | 0.0 | 19.4 | - | - | 0 | - |
| WS05 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 90 secs | 1011 | 1011 | - | 1.58 | 0.7 | 0.0 | 19.4 | - | - | 0 | - |
| WS05 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 120 secs | 1011 | 1011 | - | 1.58 | 0.7 | 0.0 | 19.3 | - | - | 0 | - |
| WS05 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 180 secs | 1011 | 1011 | 1 | 1.58 | 0.7 | 0.0 | 19.3 | - | - | 0 | - |
| WS05 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 240 secs | 1011 | 1011 | - | 1.58 | 0.7 | 0.0 | 19.3 | - | - | 0 | - |
| WS05 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 300 secs | 1011 | 1011 | - | 1.58 | 0.7 | 0.0 | 19.3 | - | - | 0 | - |
| WS05 | 1 | 50 | 6 | 2.00 | 2.09 | 1.00 to 2.00 | 11/04/2018 09:43:00 | 1005 | 1005 | 3.2 _(I) | 1.41 | 0.1 | 0.0 | 20.9 | - | - | 0 | 0 |
| WS05 | 1 | 50 | 6 | | 2.09 | 1.00 to 2.00 | 15 secs | 1005 | 1005 | 0.2 _(SS) | 1.41 | 0.8 | 0.0 | 20.2 | - | - | 0 | 0 |
| WS05 | 1 | 50 | 6 | | 2.09 | 1.00 to 2.00 | 30 secs | 1005 | 1005 | - | 1.41 | 0.8 | 0.0 | 19.6 | - | - | 0 | 0 |
| WS05 | 1 | 50 | 6 | | 2.09 | 1.00 to 2.00 | 60 secs | 1005 | 1005 | 1 | 1.41 | 0.8 | 0.0 | 19.5 | - | - | 0 | 0 |
| WS05 | 1 | 50 | 6 | | 2.09 | 1.00 to 2.00 | 90 secs | 1005 | 1005 | - | 1.41 | 0.8 | 0.0 | 19.5 | - | - | 0 | 0 |
| WS05 | 1 | 50 | 6 | | 2.09 | 1.00 to 2.00 | 120 secs | 1005 | 1005 | - | 1.41 | 0.8 | 0.0 | 19.5 | - | - | 0 | 0 |
| WS05 | 1 | 50 | 6 | | 2.09 | 1.00 to 2.00 | 180 secs | 1005 | 1005 | - | 1.41 | 0.8 | 0.0 | 19.5 | - | - | 0 | 0 |
| WS05 | 1 | 50 | 6 | | 2.09 | 1.00 to 2.00 | 240 secs | 1005 | 1005 | - | 1.41 | 0.8 | 0.0 | 19.5 | - | - | 0 | 0 |
| WS05 | 1 | 50 | 6 | | 2.09 | 1.00 to 2.00 | 300 secs | 1005 | 1005 | - | 1.41 | 0.8 | 0.0 | 19.5 | - | - | 0 | 0 |
| | | | | | | | | | | | | | | | | | | |
| WS06 | 1 | 50 | 1 | 2.00 | 2.08 | 1.00 to 2.00 | 08/03/2018 11:22:00 | 987 | 987 | 0.0(1) | 2.08 | 0.0 | 0.0 | 20.9 | 0.0 | 23.6 | 0 | 0 |
| WS06 | 1 | 50 | 1 | | 2.08 | 1.00 to 2.00 | 15 secs | 987 | 987 | 0.0 _(SS) | 2.08 | 0.4 | 0.0 | 20.6 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 1 | | 2.08 | 1.00 to 2.00 | 30 secs | 987 | 987 | - | 2.08 | 0.4 | 0.0 | 20.5 | 0.0 | - | 0 | 0 |

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

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Land North of Barkby Road, Syston



| Exploratory Position ID | Pipe ref | Pipe diameter (mm) | Monitoring Round | Reported Installation Depth (m) | Measured Installation Depth (mbgl) | Response Zone | | Borehole Pressure (mb) | | Gas Flow (I/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|---------------------|------------------------------|------|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| WS06 | 1 | 50 | 1 | | 2.08 | 1.00 to 2.00 | 60 secs | 987 | 987 | - | 2.08 | 0.5 | 0.0 | 20.5 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 1 | | 2.08 | 1.00 to 2.00 | 90 secs | 987 | 987 | - | 2.08 | 0.5 | 0.0 | 20.5 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 1 | | 2.08 | 1.00 to 2.00 | 120 secs | 987 | 987 | - | 2.08 | 0.5 | 0.0 | 20.5 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 1 | | 2.08 | 1.00 to 2.00 | 180 secs | 987 | 987 | - | 2.08 | 0.5 | 0.0 | 20.4 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 1 | | 2.08 | 1.00 to 2.00 | 240 secs | 987 | 987 | - | 2.08 | 0.5 | 0.0 | 20.4 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 1 | | 2.08 | 1.00 to 2.00 | 300 secs | 987 | 987 | - | 2.08 | 0.5 | 0.0 | 20.4 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 2 | 2.00 | 2.10 | 1.00 to 2.00 | 15/03/2018 09:00:00 | - | - | - | 0.00 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded arou | nd monitorin | g well | | | | | | | | | | | | | |
| WS06 | 1 | 50 | 3 | 2.00 | 2.08 | 1.00 to 2.00 | 20/03/2018 14:45:00 | 991 | 991 | 0.0 _(I) | 1.69 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 3 | | 2.08 | 1.00 to 2.00 | 15 secs | 991 | 991 | 0.0 _(SS) | 1.69 | 0.7 | 0.0 | 19.6 | 0.0 | - | 1 | 0 |
| WS06 | 1 | 50 | 3 | | 2.08 | 1.00 to 2.00 | 30 secs | 991 | 991 | - | 1.69 | 0.7 | 0.0 | 18.5 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 3 | | 2.08 | 1.00 to 2.00 | 60 secs | 991 | 991 | - | 1.69 | 0.7 | 0.0 | 18.5 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 3 | | 2.08 | 1.00 to 2.00 | 90 secs | 991 | 991 | - | 1.69 | 0.7 | 0.0 | 18.5 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 3 | | 2.08 | 1.00 to 2.00 | 120 secs | 991 | 991 | - | 1.69 | 0.7 | 0.0 | 18.4 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 3 | | 2.08 | 1.00 to 2.00 | 180 secs | 991 | 991 | - | 1.69 | 0.7 | 0.0 | 18.4 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 3 | | 2.08 | 1.00 to 2.00 | 240 secs | 991 | 991 | - | 1.69 | 0.7 | 0.0 | 18.4 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 3 | | 2.08 | 1.00 to 2.00 | 300 secs | 991 | 991 | - | 1.69 | 0.7 | 0.0 | 18.4 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 4 | 2.00 | 2.08 | 1.00 to 2.00 | 26/03/2018 12:40:00 | 1012 | 1012 | 0.0 _(I) | 1.72 | 0.0 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 4 | | 2.08 | 1.00 to 2.00 | 15 secs | 1012 | 1012 | 0.0 _(SS) | 1.72 | 0.6 | 0.0 | 19.4 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 4 | | 2.08 | 1.00 to 2.00 | 30 secs | 1012 | 1012 | - | 1.72 | 0.7 | 0.0 | 19.0 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 4 | | 2.08 | 1.00 to 2.00 | 60 secs | 1012 | 1012 | - | 1.72 | 0.7 | 0.0 | 18.9 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 4 | | 2.08 | 1.00 to 2.00 | 90 secs | 1012 | 1012 | - | 1.72 | 0.7 | 0.0 | 18.9 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 4 | | 2.08 | 1.00 to 2.00 | 120 secs | 1012 | 1012 | - | 1.72 | 0.7 | 0.0 | 18.9 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 4 | | 2.08 | 1.00 to 2.00 | 180 secs | 1012 | 1012 | - | 1.72 | 0.7 | 0.0 | 18.8 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 4 | | 2.08 | 1.00 to 2.00 | 240 secs | 1012 | 1012 | - | 1.72 | 0.7 | 0.0 | 18.8 | 0.0 | - | 0 | 0 |

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

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Land North of Barkby Road, Syston



| 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) | | Gas Flow (l/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|--|------------------------------|------|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| WS06 | 1 | 50 | 4 | | 2.08 | 1.00 to 2.00 | 300 secs | 1012 | 1012 | - | 1.72 | 0.7 | 0.0 | 18.8 | 0.0 | - | 0 | 0 |
| WS06 | 1 | 50 | 5 | 2.00 | 2.09 | 1.00 to 2.00 | 05/04/2018 09:30:00 | 1010 | 1010 | 3.3 _(I) | 1.16 | 0.1 | 0.0 | 20.9 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 15 secs | 1010 | 1010 | 0.4 _(SS) | 1.16 | 0.8 | 0.0 | 20.5 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 30 secs | 1010 | 1010 | - | 1.16 | 0.8 | 0.0 | 19.0 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 60 secs | 1010 | 1010 | - | 1.16 | 0.8 | 0.0 | 18.7 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 90 secs | 1010 | 1010 | - | 1.16 | 0.8 | 0.0 | 18.7 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 120 secs | 1010 | 1010 | - | 1.16 | 0.8 | 0.0 | 18.7 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 180 secs | 1010 | 1010 | - | 1.16 | 0.8 | 0.0 | 18.7 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 240 secs | 1010 | 1010 | - | 1.16 | 0.8 | 0.0 | 18.7 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 300 secs | 1010 | 1010 | - | 1.16 | 0.8 | 0.0 | 18.7 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 6 | 2.00 | 1.86 | 1.00 to 2.00 | 11/04/2018 09:30:00 | 1003 | 1003 | 10.3 _(I) | 0.90 | 0.1 | 0.0 | 20.9 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 6 | | 1.86 | 1.00 to 2.00 | 15 secs | 1003 | 1003 | 0.6 _(SS) | 0.90 | 6.0 | 0.0 | 20.4 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 6 | | 1.86 | 1.00 to 2.00 | 30 secs | 1003 | 1003 | - | 0.90 | 6.0 | 0.0 | 19.4 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 6 | | 1.86 | 1.00 to 2.00 | 60 secs | 1003 | 1003 | - | 0.90 | 6.0 | 0.0 | 19.2 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 6 | | 1.86 | 1.00 to 2.00 | 90 secs | 1003 | 1003 | - | 0.90 | 6.0 | 0.0 | 19.2 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 6 | | 1.86 | 1.00 to 2.00 | 120 secs | 1003 | 1003 | - | 0.90 | 6.0 | 0.0 | 19.2 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 6 | | 1.86 | 1.00 to 2.00 | 180 secs | 1003 | 1003 | - | 0.90 | 6.0 | 0.0 | 19.2 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 6 | | 1.86 | 1.00 to 2.00 | 240 secs | 1003 | 1003 | - | 0.90 | 6.0 | 0.0 | 19.2 | - | - | 0 | 0 |
| WS06 | 1 | 50 | 6 | | 1.86 | 1.00 to 2.00 | 300 secs | 1003 | 1003 | - | 0.90 | 6.0 | 0.0 | 19.2 | - | - | 0 | 0 |
| | | | | | | | | | | | | | | | | | | |
| WS07 | 1 | 50 | 1 | 3.00 | 3.05 | 1.00 to 3.00 | 08/03/2018 09:00:00 | - | - | - | 0.13 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS07 | 1 | 50 | 2 | 3.00 | 3.02 | 1.00 to 3.00 | 15/03/2018 09:00:00 | - | - | - | 0.00 | - | - | - | - | - | - | - |
| | F | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS07 | 1 | 50 | 3 | 3.00 | 3.00 | 1.00 to 3.00 | 20/03/2018 13:15:00 | - | - | - | 0.00 | - | - | - | - | - | - | - |

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

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RSK Environment Ltd 12 Royal Scot Road Pride Park Derby DE24 8AJ

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| Contract: | • | | • | Page: |

Land North of Barkby Road, Syston



| 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) | | Gas Flow (l/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|--|------------------------------|---|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS07 | 1 | 50 | 4 | 3.00 | 2.78 | 1.00 to 3.00 | 26/03/2018 13:32:00 | - | - | - | -0.13 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS07 | 1 | 50 | 5 | 3.00 | | 1.00 to 3.00 | 05/04/2018 09:30:00 | - | - | - | 0.12 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS07 | 1 | 50 | 6 | 3.00 | | 1.00 to 3.00 | 11/04/2018 09:30:00 | - | - | - | 0.12 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS08 | 1 | 50 | 2 | 4.00 | 3.88 | 1.00 to 4.00 | 15/03/0201 | - | - | - | 0.00 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS08 | 1 | 50 | 1 | 4.00 | 4.02 | 1.00 to 4.00 | 08/03/2018 | - | - | - | 0.14 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS08 | 1 | 50 | 3 | 4.00 | 3.00 | 1.00 to 4.00 | 20/03/2018 | - | - | - | 0.00 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS08 | 1 | 50 | 4 | 4.00 | 3.04 | 1.00 to 4.00 | 26/03/2018 | - | - | - | 0.13 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS08 | 1 | 50 | 5 | 4.00 | 3.00 | 1.00 to 4.00 | 05/04/2018 | - | - | - | 0.00 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS08 | 1 | 50 | 6 | 4.00 | 3.00 | 1.00 to 4.00 | 11/04/2018 | - | - | - | 0.00 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS09 | 1 | 50 | 1 | 2.00 | 1.86 | 1.00 to 2.00 | 08/03/2018 | - | - | - | 0.13 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS09 | 1 | 50 | 2 | 2.00 | 1.88 | 1.00 to 2.00 | 15/03/2018 | - | - | - | 0.00 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS09 | 1 | 50 | 3 | 2.00 | 1.85 | 1.00 to 2.00 | 20/03/2018 | - | - | - | 0.13 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |

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

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Land North of Barkby Road, Syston

13 of **18**

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18 AC

| Exploratory Position ID | Pipe ref | Pipe diameter (mm) | Monitoring Round | Reported Installation Depth (m) | Measured Installation Depth (mbgl) | Response Zone | | Borehole Pressure (mb) | | Gas Flow (l/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|---------------------|------------------------------|-----|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| WS09 | 1 | 50 | 4 | 2.00 | 1.87 | 1.00 to 2.00 | 26/03/2018 | - | - | - | 0.19 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS09 | 1 | 50 | 5 | 2.00 | | 1.00 to 2.00 | 05/04/2018 | - | - | - | - | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS09 | 1 | 50 | 6 | 2.00 | | 1.00 to 2.00 | 11/04/2018 | - | - | - | - | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS10 | 1 | 50 | 1 | 2.00 | 2.10 | 1.00 to 2.00 | 08/03/2018 09:56:00 | 983 | 983 | 0.0 _(I) | 0.14 | 0.0 | 0.0 | 20.9 | 0.0 | 1.3 | 0 | 0 |
| WS10 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 15 secs | 983 | 983 | 0.0 _(SS) | 0.14 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS10 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 30 secs | 983 | 983 | - | 0.14 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS10 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 60 secs | 983 | 983 | - | 0.14 | 0.1 | 0.0 | 20.7 | 0.0 | - | 0 | 0 |
| WS10 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 90 secs | 983 | 983 | - | 0.14 | 0.1 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |
| WS10 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 120 secs | 983 | 983 | - | 0.14 | 0.1 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |
| WS10 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 180 secs | 983 | 983 | - | 0.14 | 0.1 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |
| WS10 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 240 secs | 983 | 983 | - | 0.14 | 0.1 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |
| WS10 | 1 | 50 | 1 | | 2.10 | 1.00 to 2.00 | 300 secs | 983 | 983 | - | 0.14 | 0.1 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |
| WS10 | 1 | 50 | 2 | 2.00 | 2.13 | 1.00 to 2.00 | 15/03/2018 09:00:00 | - | - | - | 0.00 | - | - | - | - | - | - | - |
| | F | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS10 | 1 | 50 | 3 | 2.00 | 2.13 | 1.00 to 2.00 | 20/03/2018 | _ | - | - | 0.00 | - | - | - | - | - | - | - |
| | F | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS10 | 1 | 50 | 4 | 2.00 | 2.13 | 1.00 to 2.00 | 26/03/2018 | - | - | - | 0.00 | - | - | - | - | - | - | - |
| | F | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS10 | 1 | 50 | 5 | 2.00 | 2.13 | 1.00 to 2.00 | 05/04/2018 | - | - | - | 0.00 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |
| WS10 | 1 | 50 | 6 | 2.00 | 2.13 | 1.00 to 2.00 | 11/04/2018 | - | - | - | 0.00 | - | - | - | - | - | - | - |
| | R | emarks: | Flooded. | | | | | | | | | | | | | | | |

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

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Land North of Barkby Road, Syston



| 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) | | Gas Flow (I/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|--|------------------------------|-----|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| WS11 | 1 | 50 | 1 | 2.00 | 2.07 | 1.00 to 2.00 | 08/03/2018 11:41:00 | 987 | 987 | 0.0(1) | 2.07 | 0.0 | 0.0 | 20.9 | 0.0 | 14.6 | 0 | 0 |
| WS11 | 1 | 50 | 1 | | 2.07 | 1.00 to 2.00 | 15 secs | 987 | 987 | 0.0 _(SS) | 2.07 | 0.7 | 0.0 | 20.2 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 1 | | 2.07 | 1.00 to 2.00 | 30 secs | 987 | 987 | - | 2.07 | 0.7 | 0.0 | 19.9 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 1 | | 2.07 | 1.00 to 2.00 | 60 secs | 987 | 987 | - | 2.07 | 0.7 | 0.0 | 19.9 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 1 | | 2.07 | 1.00 to 2.00 | 90 secs | 987 | 987 | - | 2.07 | 0.7 | 0.0 | 19.8 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 1 | | 2.07 | 1.00 to 2.00 | 120 secs | 987 | 987 | - | 2.07 | 0.7 | 0.0 | 19.8 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 1 | | 2.07 | 1.00 to 2.00 | 180 secs | 987 | 987 | - | 2.07 | 0.7 | 0.0 | 19.7 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 1 | | 2.07 | 1.00 to 2.00 | 240 secs | 987 | 987 | - | 2.07 | 0.7 | 0.0 | 19.6 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 1 | | 2.07 | 1.00 to 2.00 | 300 secs | 987 | 987 | - | 2.07 | 0.7 | 0.0 | 19.6 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 2 | 2.00 | 2.08 | 1.00 to 2.00 | 15/03/2018 12:15:00 | 984 | 984 | 0.0 _(I) | 1.62 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 2 | | 2.08 | 1.00 to 2.00 | 15 secs | 984 | 984 | 0.0 _(SS) | 1.62 | 0.7 | 0.0 | 19.6 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 2 | | 2.08 | 1.00 to 2.00 | 30 secs | 984 | 984 | - | 1.62 | 0.7 | 0.0 | 18.9 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 2 | | 2.08 | 1.00 to 2.00 | 60 secs | 984 | 984 | - | 1.62 | 0.7 | 0.0 | 19.0 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 2 | | 2.08 | 1.00 to 2.00 | 90 secs | 984 | 984 | - | 1.62 | 0.7 | 0.0 | 19.0 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 2 | | 2.08 | 1.00 to 2.00 | 120 secs | 984 | 984 | - | 1.62 | 0.7 | 0.0 | 19.1 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 2 | | 2.08 | 1.00 to 2.00 | 180 secs | 984 | 984 | - | 1.62 | 0.7 | 0.0 | 19.1 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 2 | | 2.08 | 1.00 to 2.00 | 240 secs | 984 | 984 | - | 1.62 | 0.7 | 0.0 | 19.2 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 2 | | 2.08 | 1.00 to 2.00 | 300 secs | 984 | 984 | - | 1.62 | 0.7 | 0.0 | 19.2 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 3 | 2.00 | 2.06 | 1.00 to 2.00 | 20/03/2018 12:15:00 | 991 | 991 | 0.1 _(I) | 0.87 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 3 | | 2.06 | 1.00 to 2.00 | 15 secs | 991 | 991 | 0.1 _(SS) | 0.87 | 0.7 | 0.0 | 20.1 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 3 | | 2.06 | 1.00 to 2.00 | 30 secs | 991 | 991 | - | 0.87 | 0.7 | 0.0 | 19.5 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 3 | | 2.06 | 1.00 to 2.00 | 60 secs | 991 | 991 | - | 0.87 | 0.7 | 0.0 | 19.6 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 3 | | 2.06 | 1.00 to 2.00 | 90 secs | 991 | 991 | - | 0.87 | 0.6 | 0.0 | 19.6 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 3 | | 2.06 | 1.00 to 2.00 | 120 secs | 991 | 991 | - | 0.87 | 0.6 | 0.0 | 19.7 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 3 | | 2.06 | 1.00 to 2.00 | 180 secs | 991 | 991 | - | 0.87 | 0.6 | 0.0 | 19.7 | 0.0 | | 0 | 0 |

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

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Land North of Barkby Road, Syston



| 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) | | Gas Flow (I/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|--|------------------------------|------|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| WS11 | 1 | 50 | 3 | | 2.06 | 1.00 to 2.00 | 240 secs | 991 | 991 | - | 0.87 | 0.6 | 0.0 | 19.7 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 3 | | 2.06 | 1.00 to 2.00 | 300 secs | 991 | 991 | - | 0.87 | 0.6 | 0.0 | 19.8 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 4 | 2.00 | 2.07 | 1.00 to 2.00 | 26/03/2018 13:44:00 | 1012 | 1012 | 0.0 _(I) | 0.95 | 0.0 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS11 | 1 | 50 | 4 | | 2.07 | 1.00 to 2.00 | 15 secs | 1012 | 1012 | 0.0 _(SS) | 0.95 | 0.5 | 0.0 | 20.0 | 0.0 | - | 1 | 0 |
| WS11 | 1 | 50 | 4 | | 2.07 | 1.00 to 2.00 | 30 secs | 1012 | 1012 | - | 0.95 | 0.5 | 0.0 | 19.8 | 0.0 | - | 1 | 0 |
| WS11 | 1 | 50 | 4 | | 2.07 | 1.00 to 2.00 | 60 secs | 1012 | 1012 | - | 0.95 | 0.5 | 0.0 | 19.8 | 0.0 | - | 1 | 0 |
| WS11 | 1 | 50 | 4 | | 2.07 | 1.00 to 2.00 | 90 secs | 1012 | 1012 | - | 0.95 | 0.5 | 0.0 | 19.8 | 0.0 | - | 1 | 0 |
| WS11 | 1 | 50 | 4 | | 2.07 | 1.00 to 2.00 | 120 secs | 1012 | 1012 | - | 0.95 | 0.5 | 0.0 | 19.8 | 0.0 | - | 2 | 0 |
| WS11 | 1 | 50 | 4 | | 2.07 | 1.00 to 2.00 | 180 secs | 1012 | 1012 | - | 0.95 | 0.5 | 0.0 | 19.8 | 0.0 | - | 2 | 0 |
| WS11 | 1 | 50 | 4 | | 2.07 | 1.00 to 2.00 | 240 secs | 1012 | 1012 | - | 0.95 | 0.5 | 0.0 | 19.9 | 0.0 | - | 2 | 0 |
| WS11 | 1 | 50 | 4 | | 2.07 | 1.00 to 2.00 | 300 secs | 1012 | 1012 | - | 0.95 | 0.5 | 0.0 | 19.9 | 0.0 | - | 2 | 0 |
| WS11 | 1 | 50 | 5 | 2.00 | 2.09 | 1.00 to 2.00 | 05/04/2018 10:41:00 | 1011 | 1011 | 0.3 _(I) | 0.60 | 0.1 | 0.0 | 20.9 | - | - | 0 | 0 |
| WS11 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 15 secs | 1011 | 1011 | 0.4 _(SS) | 0.60 | 0.4 | 0.0 | 20.7 | - | - | 1 | 0 |
| WS11 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 30 secs | 1011 | 1011 | - | 0.60 | 0.4 | 0.0 | 20.4 | - | - | 1 | 0 |
| WS11 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 60 secs | 1011 | 1011 | - | 0.60 | 0.4 | 0.0 | 20.4 | - | - | 1 | 0 |
| WS11 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 90 secs | 1011 | 1011 | - | 0.60 | 0.4 | 0.0 | 20.4 | - | 1 | 0 | 0 |
| WS11 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 120 secs | 1011 | 1011 | - | 0.60 | 0.4 | 0.0 | 20.4 | - | - | 0 | 0 |
| WS11 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 180 secs | 1011 | 1011 | - | 0.60 | 0.4 | 0.0 | 20.4 | - | - | 0 | 0 |
| WS11 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 240 secs | 1011 | 1011 | - | 0.60 | 0.4 | 0.0 | 20.4 | - | - | 0 | 0 |
| WS11 | 1 | 50 | 5 | | 2.09 | 1.00 to 2.00 | 300 secs | 1011 | 1011 | - | 0.60 | 0.4 | 0.0 | 20.4 | - | - | 0 | 0 |
| WS11 | 1 | 50 | 6 | 2.00 | 2.08 | 1.00 to 2.00 | 11/04/2018 10:52:00 | 1005 | 1005 | 2.8 _(I) | 0.62 | 0.1 | 0.0 | 20.9 | - | - | 0 | 0 |
| WS11 | 1 | 50 | 6 | | 2.08 | 1.00 to 2.00 | 15 secs | 1005 | 1005 | 0.3 _(SS) | 0.62 | 0.2 | 0.0 | 20.8 | - | - | 1 | 0 |
| WS11 | 1 | 50 | 6 | | 2.08 | 1.00 to 2.00 | 30 secs | 1005 | 1005 | - | 0.62 | 0.2 | 0.0 | 20.7 | - | - | 0 | 0 |
| WS11 | 1 | 50 | 6 | | 2.08 | 1.00 to 2.00 | 60 secs | 1005 | 1005 | - | 0.62 | 0.2 | 0.0 | 20.8 | - | - | 0 | 0 |
| WS11 | 1 | 50 | 6 | | 2.08 | 1.00 to 2.00 | 90 secs | 1005 | 1005 | - | 0.62 | 0.1 | 0.0 | 20.9 | - | - | 0 | 0 |

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

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Land North of Barkby Road, Syston



| 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) | | Gas Flow (I/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydrogen Sulphide (ppm) |
|-------------------------------|-------------|--------------------------|---------------------|--|---|---------------|--|------------------------------|------|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| WS11 | 1 | 50 | 6 | | 2.08 | 1.00 to 2.00 | 120 secs | 1005 | 1005 | - | 0.62 | 0.1 | 0.0 | 20.9 | - | - | 0 | 0 |
| WS11 | 1 | 50 | 6 | | 2.08 | 1.00 to 2.00 | 180 secs | 1005 | 1005 | - | 0.62 | 0.1 | 0.0 | 20.9 | - | - | 0 | 0 |
| WS11 | 1 | 50 | 6 | | 2.08 | 1.00 to 2.00 | 240 secs | 1005 | 1005 | - | 0.62 | 0.1 | 0.0 | 20.9 | - | - | 0 | 0 |
| WS11 | 1 | 50 | 6 | | 2.08 | 1.00 to 2.00 | 300 secs | 1005 | 1005 | - | 0.62 | 0.1 | 0.0 | 20.9 | - | - | 0 | 0 |
| | | | | | | | | | | | | | | | | | | |
| WS12 | 1 | 50 | 1 | 3.00 | 3.04 | 1.00 to 3.00 | 08/03/2018 11:33:00 | 987 | 987 | 0.0(1) | 3.04 | 0.0 | 0.0 | 20.9 | 0.0 | 3.4 | 0 | 0 |
| WS12 | 1 | 50 | 1 | | 3.04 | 1.00 to 3.00 | 15 secs | 987 | 987 | 0.0 _(SS) | 3.04 | 0.4 | 0.0 | 20.5 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 1 | | 3.04 | 1.00 to 3.00 | 30 secs | 987 | 987 | - | 3.04 | 0.4 | 0.0 | 20.3 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 1 | | 3.04 | 1.00 to 3.00 | 60 secs | 987 | 987 | - | 3.04 | 0.4 | 0.0 | 20.3 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 1 | | 3.04 | 1.00 to 3.00 | 90 secs | 987 | 987 | - | 3.04 | 0.5 | 0.0 | 20.3 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 1 | | 3.04 | 1.00 to 3.00 | 120 secs | 987 | 987 | - | 3.04 | 0.5 | 0.0 | 20.2 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 1 | | 3.04 | 1.00 to 3.00 | 180 secs | 987 | 987 | - | 3.04 | 0.5 | 0.0 | 20.2 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 1 | | 3.04 | 1.00 to 3.00 | 240 secs | 987 | 987 | - | 3.04 | 0.5 | 0.0 | 20.2 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 1 | | 3.04 | 1.00 to 3.00 | 300 secs | 987 | 987 | - | 3.04 | 0.5 | 0.0 | 20.2 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 2 | 3.00 | 3.04 | 1.00 to 3.00 | 15/03/2018 09:00:00 | 1017 | 984 | 8.7 _(I) | 0.40 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 2 | | 3.04 | 1.00 to 3.00 | 15 secs | 1017 | 984 | 0.1 _(SS) | 0.40 | 0.5 | 0.0 | 20.4 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 2 | | 3.04 | 1.00 to 3.00 | 30 secs | 1017 | 984 | - | 0.40 | 0.5 | 0.0 | 20.3 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 2 | | 3.04 | 1.00 to 3.00 | 60 secs | 1017 | 984 | - | 0.40 | 0.5 | 0.0 | 20.2 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 2 | | 3.04 | 1.00 to 3.00 | 90 secs | 1017 | 984 | - | 0.40 | 0.5 | 0.0 | 20.2 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 2 | | 3.04 | 1.00 to 3.00 | 120 secs | 1017 | 984 | - | 0.40 | 0.5 | 0.0 | 20.2 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 2 | | 3.04 | 1.00 to 3.00 | 180 secs | 1017 | 984 | - | 0.40 | 0.5 | 0.0 | 20.3 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 2 | | 3.04 | 1.00 to 3.00 | 240 secs | 1017 | 984 | - | 0.40 | 0.5 | 0.0 | 20.3 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 2 | | 3.04 | 1.00 to 3.00 | 300 secs | 1017 | 984 | - | 0.40 | 0.5 | 0.0 | 20.3 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 3 | 3.00 | 3.05 | 1.00 to 3.00 | 20/03/2018 09:00:00 | 969 | 991 | -7.4 _(I) | 0.47 | 0.1 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 3 | | 3.05 | 1.00 to 3.00 | 15 secs | 969 | 991 | -0.1 _(I) | 0.47 | 0.8 | 0.0 | 20.5 | 0.0 | - | 0 | 0 |

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

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Land North of Barkby Road, Syston



| Position ID | Pipe ref | Pipe diameter (mm) | Monitoring Round | Reported Installation Depth (m) | Measured Installation Depth (mbgl) | Response Zone | | Borehole Pressure (mb) | | Gas Flow (l/hr) | Water Depth (mbgl) | Carbon Dioxide (% / vol) | Methane (% / vol) | Oxygen (% / vol) | LEL (%) | PID (ppm) | Carbon Monoxide (ppm) | Hydroger Sulphide (ppm) |
|----------------|-------------|--------------------------|---------------------|--|---|---------------|---------------------|------------------------------|------|-----------------------|--------------------------|--------------------------------|----------------------|---------------------|------------|--------------|-----------------------------|-------------------------------|
| WS12 | 1 | 50 | 3 | | 3.05 | 1.00 to 3.00 | 30 secs | 969 | 991 | - | 0.47 | 0.9 | 0.0 | 20.3 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 3 | | 3.05 | 1.00 to 3.00 | 60 secs | 969 | 991 | - | 0.47 | 0.9 | 0.0 | 20.3 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 3 | | 3.05 | 1.00 to 3.00 | 90 secs | 969 | 991 | - | 0.47 | 1.0 | 0.0 | 20.2 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 3 | | 3.05 | 1.00 to 3.00 | 120 secs | 969 | 991 | - | 0.47 | 1.0 | 0.0 | 20.2 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 3 | | 3.05 | 1.00 to 3.00 | 180 secs | 969 | 991 | - | 0.47 | 1.0 | 0.0 | 20.2 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 3 | | 3.05 | 1.00 to 3.00 | 240 secs | 969 | 991 | - | 0.47 | 1.0 | 0.0 | 20.2 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 3 | | 3.05 | 1.00 to 3.00 | 300 secs | 969 | 991 | - | 0.47 | 1.0 | 0.0 | 20.2 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 4 | 3.00 | 3.04 | 1.00 to 3.00 | 26/03/2018 13:52:00 | 1012 | 1012 | 0.0(1) | 0.91 | 0.0 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 4 | | 2.92 | 1.00 to 3.00 | 15 secs | 1012 | 1012 | 0.0 _(SS) | 0.79 | 0.2 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 4 | | 2.92 | 1.00 to 3.00 | 30 secs | 1012 | 1012 | - | 0.79 | 0.2 | 0.0 | 20.9 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 4 | | 2.92 | 1.00 to 3.00 | 60 secs | 1012 | 1012 | - | 0.79 | 0.2 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 4 | | 2.92 | 1.00 to 3.00 | 90 secs | 1012 | 1012 | - | 0.79 | 0.2 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 4 | | 2.92 | 1.00 to 3.00 | 120 secs | 1012 | 1012 | - | 0.79 | 0.2 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 4 | | 2.92 | 1.00 to 3.00 | 180 secs | 1012 | 1012 | - | 0.79 | 0.2 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 4 | | 2.92 | 1.00 to 3.00 | 240 secs | 1012 | 1012 | - | 0.79 | 0.2 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |
| WS12 | 1 | 50 | 4 | | 2.92 | 1.00 to 3.00 | 300 secs | 1012 | 1012 | - | 0.79 | 0.2 | 0.0 | 20.8 | 0.0 | - | 0 | 0 |

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

RSK

RSK Environment Ltd 12 Royal Scot Road Pride Park Derby DE24 8AJ

| Compiled By | Date | Checked By | Date | Contract Ref: |
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