

Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

Environmental Statement

Volume 3 Appendix 21.7 - Archaeological and Geoarchaeological Monitoring Assessment

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Onshore Archaeological and Geoarchaeological Monitoring Assessment

Project: Sheringham Shoal and Dudgeon Offshore Wind Farm Extensions Client: Equinor Date: January 2022

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Project Details

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Executive Summary

Dalcour Maclaren (DM) were commissioned by Equinor New Energy Limited (hereafter referred to as 'the Client') to undertake a scheme of archaeological and geoarchaeological monitoring and recording during ground investigations, comprising boreholes and test pits, associated with the proposed onshore elements of the Sheringham Shoal Offshore Wind Farm Extension Project (SEP) and Dudgeon Offshore Wind Farm Extension Project (DEP).

A total of 31 locations were archeologically monitored during the ground investigations whilst a further 15 were monitored for geoarchaeological and palaeoenvironmental potential. The works were undertaken to enable an informed decision to be made in relation to the presence or absence of archaeological and geoarchaeological remains with the onshore works area; their significance; and to guide the design of appropriate further mitigation measures, should they be required.

No features or deposits of archaeological interest were identified within any of the archaeological or geoarchaeological monitoring locations and no in-situ artefacts were recovered.

Four Neolithic or Early Bronze Age lithics were recovered from the surface of the field to the south of the Swainsthorpe substation at the southern terminus of the onshore cable corridor. Due to the unstratified nature of the finds, it cannot be stated whether these finds relate to the cropmarks of fragmentary ditches of unknown date or whether they are unrelated and represent a hitherto unrecognised phase of activity on the site.

Deposits of palaeoenvironmental and geoarchaeological interest were identified in two monitored locations (BH6-15 and BH9-25) and one location which was not subject to archaeological or geoarchaeological monitoring (BH10-31).

The deposits identified within BH6-15 and BH10-31 represent alluvium and organic alluvium associated with the Rivers Bure and Wensum respectively and have High – Moderate palaeoenvironmental and Moderate geoarchaeological potential.

The organic deposits identified within BH9-25 have High palaeoenvironmental and geoarchaeological potential. These are interpretated as the fills of a buried tunnel valley of Anglian age. If this origin is accepted then the fills must post-date MIS 12 (478 - 424ka) and, due to the absence of Devensian gravels within this area, must predate the deposition of the Briton's Lane Formation (possibly MIS 6/191 – 130ka) and therefore a provisional, mid-Pleistocene date of between c. 424,000 - 191,000 years ago is proposed.



All other deposits are considered to have No – Low palaeoenvironmental or geoarchaeological potential due to the generally shallow sequences, dominated by coarse, gravelly sediments of Mid-Pleistocene origin.



1 Introduction

- 1.1.1 Dalcour Maclaren (DM) were commissioned by Equinor New Energy Limited (hereafter referred to as 'the Client') to undertake a scheme of archaeological and geoarchaeological monitoring and recording during ground investigations, comprising boreholes and test pits, associated with the proposed onshore elements of the Sheringham Shoal Offshore Wind Farm Extension Project (SEP) and Dudgeon Offshore Wind Farm Extension Project (DEP).
- 1.1.2 The works were undertaken to enable an informed decision to be made in relation to the presence or absence of archaeological and geoarchaeological remains with the onshore works area; their significance; and to guide the design of appropriate further mitigation measures, should they be required.

1.2 Scheme Overview

1.2.1 The extension of the existing operational wind farms will consist of a number of offshore and onshore elements including the offshore wind turbines and subsea array cables, up to two offshore substations, offshore and onshore export cables, and a new area for up to two onshore substations to accommodate the connection of SEP and DEP to the transmission grid.

1.3 Definition of terms

- 1.3.1 The term 'Site' is used throughout the report to refer to the onshore works area within the Preliminary Environmental Information Report (PEIR) (Royal HaskoningDHV (2021a) boundary.
- 1.3.2 An archaeological watching brief is defined as 'a formal programme of observation and investigation conducted during any operation carried out for non-archaeological reasons. This will be within a specified area or site on land, in an inter-tidal zone or underwater, where there is a possibility that archaeological deposits may be disturbed or destroyed. The programme will result in the preparation of a report and ordered archive' (CIfA 2014a).
- 1.3.3 The term 'geo/archaeological' is used throughout the report to combine the terms archaeological, geoarchaeological and palaeoenvironmental for ease of reading and understanding. Where appropriate, the individual specific terms will be used.
- 1.3.4 The abbreviation 'ka' is used after dates to represent 'thousand years ago' e.g. 100ka = 100,000 years ago.
- 1.3.5 Marine Isotope Stage is abbreviated to 'MIS' with the relevant stage number and, where relevant, the equivalent 'ka' dates, for example, MIS 4/71 57ka. The dates for the MIS boundaries are derived from Lisiecki and Raymo (2005).



1.3.6 The abbreviation 'm aOD' represents the spot height in metres above Ordnance Datum whilst 'bgl' is the depth below (current) ground level.

1.4 Requirements for Geo/Archaeological Works

- 1.4.1 A scheme of geo/archaeological monitoring was designed in order to satisfy the stated objectives of the project as set out under Section 3 below and the goals of the advisory document previously prepared by Royal HaskoningDHV (2021c) in cooperation with John Percival, Historic Environment Senior Officer, Norfolk County Council.
- 1.4.2 The geo/archaeological watching brief was intended to monitor intrusive works during the course of the ground investigations at locations identified as having archaeological and/or geoarchaeological potential.
- 1.4.3 The purpose of the monitoring was to allow for any potential geo/archaeological features or deposits present to be highlighted, investigated and recorded.
- 1.4.4 The locations selected for monitoring can be found in Appendix 1 and are shown on Drawings 195811/WB/1.0 10.0 with the respective type of monitoring i.e. archaeological or geoarchaeological, illustrated.
- 1.4.5 The perceived potential and justification for the choice of boreholes monitored and the type of monitoring that was undertaken can be found in Appendix 2. This was derived from the Royal HaskoningDHV (2021c) advisory document for site investigation and was informed by the findings of the Desk-Based Assessment (DBA; Royal HaskoningDHV 2021b) and the earlier geophysical survey (Headland Archaeology 2020).
- 1.4.6 As the known remains are a buried structure, where appropriate the standard and guidance for the archaeological investigation and recording of standing buildings or structures, will also be adhered to. Archaeological building investigation and recording is defined as 'a programme of work intended to establish the character, history, dating, form and archaeological development of a specified building, structure, or complex and its setting, including buried components, on land, in an inter-tidal zone or underwater' (CIFA 2014b).
- 1.4.7 The monitoring has been undertaken in line with the methodology set out within the approved Written Scheme of Investigation (WSI) (Dalcour Maclaren 2021), which was developed in consultation with and approved by John Percival, Historic Environment Senior Officer, Norfolk County Council.
- 1.4.8 The Scheme was developed following guidance and best practice presented within the following documents:



- Standards for Development-Led Archaeological Projects in Norfolk (Norfolk County Council 2018)
- Standards and Guidance for Archaeological Watching Brief, Chartered Institute for Archaeologists: Reading (ClfA 2014a);
- Standards and Guidance for the Collection, Documentation, Conservation and Research of Archaeological Materials, Chartered Institute for Archaeologists: Reading (ClfA 2014b);
- Code of Approved Conduct for the Regulation of Arrangements in Field Archaeology, Chartered Institute for Archaeologists: Reading (CIfA 2019);
- Environmental archaeology and archaeological evaluations. Recommendations concerning the environmental component of archaeological evaluations in England (AEA 1995);
- Geoarchaeology: using earth sciences to understand the archaeological record (Historic England 2015a);
- Environmental archaeology: a guide to the theory and practice of methods, from sampling and recovery to post-excavation, 2nd edition (English Heritage 2011);
- Guidance on Assessing the Risk Posed by Land Contamination and its Remediation on Archaeological Resource Management (English Heritage 2005).
- Preserving Archaeological Remains: Decision-Taking for Sites under Development, Historic England: London (Historic England 2016);
- Management of Research Projects in the Historic Environment (MoRPHE), (Historic England 2015b).



2 Background

2.1 Site Location

- 2.1.1 The onshore cable corridor is approximately 60km in length from Weybourne on the north Norfolk coast to the proposed onshore substation adjacent to the existing Norwich Main substation, south of Norwich.
- 2.1.2 Drawing 195811/WB/1.0 provides an overview of the route but also highlights the ten individual areas where ground investigations were monitored.

2.2 Geology

- 2.2.1 The majority of the proposed route is mapped by the British Geological Survey (BGS 2021a) as being underlain by solid geology comprising undifferentiated chalk of the Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation deposited during the Cretaceous Period 72 94 Ma (Million Years Ago).
- 2.2.2 The exception to this occurs between Saxthorpe and Swannington where the Wroxham Crag Formation is mapped. These deposits comprise interbedded gravels, sands, silts and clays which are distinguishable from the Norwich Crag Formation by the presence of a significant proportion of quartz and quartzite pebbles in the gravels (McMillan et al 2011, 136 137).
- 2.2.3 Rose et al (2001) defines the Wroxham Crag as including 'all marine strata deposited in the area from the start of the influx of substantial quantities of quartz and quartzite, during the Pre-Pastonian, to the onset of glaciation represented by the Happisburgh Formation. The Wroxham Crag Formation thus includes strata previously included in either the Norwich Crag Formation or the Cromer Forest-bed Formation' (McMillan et al 2011, 136).
- 2.2.4 The Formation is widely overlain by mid-Pleistocene glacial deposits and has therefore been widely dated between MIS 67? 17 (McMillan et al 2011, 137).
- 2.2.5 To the south and southwest of Norwich, undifferentiated Crag Group deposits are mapped which are likely to either comprise further deposits of the Wroxham Crag Formation or be the older, Norwich Crag Formation (BGS 2021a).
- 2.2.6 Overlying the bedrock geology is an extensive and complex patchwork of superficial deposits. The northern end of the route, in the vicinity of Weymouth, is dominated by the Weybourne Town Till Member and the Briton's Lane Formation. The former is a highly calcareous silt and chalk-rich matrix-supported diamicton which pre-dates the latter (BGS 2021a; McMillan et al 2011, 148).



- 2.2.7 The glaciofluvial deposits of the Briton's Lane Formation comprise several coarsegrained sand and gravel outwash lithofacies that are believed to date to the Mid-Pleistocene, possibly MIS 6 (McMillan et al 2011, 148). Lesser deposits identified within the area including the sands and gravels of the Marine Beach Deposits along the foreshore and undifferentiated head deposits (BGS 2021a).
- 2.2.8 In the vicinity of Oulton, in addition to the undifferentiated alluvium, head and terrace deposits associated with the River Bure, the Briton's Lane Formation is mapped as overlying the Lowestoft Formation, an extensive suite of outwash deposits and tills deposited during the Anglian Glaciation (MIS 12) (BGS 2021a).
- 2.2.9 To the south of Swannington and for the remainder of the route to the south and southwest of Norwich, the mapping of superficial deposits is dominated by the Lowestoft Formation, the Sheringham Cliffs Formation (variously dated as MIS 12 or MIS 10; the latter is favoured by McMillan et al 2011, 147) and the Leet Hill Sand and Gravel (MIS 16?), a sub-division of the Happisburgh Glaciogenic Formation. All of these Mid-Pleistocene units are composed of tills, diamicton, sands and gravels and clays of glacial origin.
- 2.2.10 Interdigitating these glacial deposits are the undifferentiated alluvial and sand and gravel terrace deposits of the River Wensum, River Tud, River Yare and River Tas; these are late Pleistocene and Holocene date and have incised into the earlier Pleistocene strata

2.3 Archaeological and Historical Background

- 2.3.1 A PEIR (Royal HaskoningDHV (2021a) and Onshore Archaeological DBA (Royal HaskoningDHV 2021b) have previously been prepared for the route.
- 2.3.2 Due to the scale of the route and the extensive quantity of archaeological remains identified by these studies, the summary of the DBA (Royal HaskoningDHV 2021b, 39 41) is presented below and the reader should refer to the original documents for further information.

Summary of Heritage Potential

2.3.3 The archaeological evidence in the 500m and 1km study areas reflects a human presence from the Palaeolithic period to the present day. Finds and sites dating to the prehistoric period suggest that the study area presented an environment suitable for exploitation during the Palaeolithic and Mesolithic period. The archaeological record suggests a prevalence of activities associated with subsistence, reflective of a nomadic existence of a hunter-gatherer lifestyle. Should further remains from this early period exist within the study area, they will most likely comprise artefactual lithic finds.



- 2.3.4 Activity of an increasingly sedentary nature is represented by the archaeological record from the Neolithic period onwards. Should further currently unrecorded heritage assets be discovered to exist within the study area dating from the Neolithic to the Romano-British period, such sites would likely be representative of land-use in association with settlement, subsistence (including farming activities) and spiritual / religious activities. The archaeological record also indicates the presence of military-related activity in the study area from the Romano-British period. As such, the potential for currently unrecorded heritage assets of a military nature dating to this period should not be discounted within the study area.
- 2.3.5 Settlement, agricultural and religious activities continued to dominate the archaeological record within the study area from the Saxon period onwards. These elements of past land-use may thus be represented amongst potential heritage assets that are as yet undiscovered in the study area. In addition to those outlined above, potential heritage assets from the medieval period onwards may also be of a commercial or industrial nature. The growth of a number of trading centres surrounding the study area saw a marked increase in heritage assets associated with industry and production in the archaeological record, an element which intensified in the post-medieval period with the Industrial Revolution. Commercial and industrial expansion drew people to the towns, which in turn, saw an increase in more concentrated settlement patterns in and surrounding various towns along the route of the study area. Despite this, agricultural activities continued to be the predominant activity and is likely to be reflected in the potential archaeological record (e.g. in the form of field boundaries).
- 2.3.6 Currently unknown archaeological remains dating to the 20th century in the study area are likely to be predominantly representative of defence measures (e.g. tank traps, anti-aircraft infrastructure, pill boxes that are no longer extant) or may provide direct evidence of hostilities (e.g. bomb craters).

Potential for Buried Archaeological Remains

- 2.3.7 The PEIR boundary is considered to contain a high potential for the further discovery of buried archaeological sites/features. A large proportion of heritage assets recorded in the NHER relate to cropmark sites, some of which are extensive and complex, indicative of a multi-period buried archaeological landscape dating from earlier prehistoric through to modern periods.
- 2.3.8 Within the Landfall location, there is potential for further archaeological discoveries associated with medieval and post-medieval field systems, and WWII coastal defences and military training activity.
- 2.3.9 Key areas along the onshore cable corridor for potential archaeological discoveries include:



- Roman and medieval settlement activity near Itteringham;
- A possible Roman military site east of Southgate;
- Medieval and post-medieval field systems and undated enclosures to the east of Morton on the Hill;
- A possible Bronze Age barrow cemetery and probable Roman enclosures and field systems at the A47 crossing;
- A multi-period site just to the northwest of Great Melton;
- An undated enclosure (possibly Neolithic/Bronze Age) to the west of High Green; and
- Possible line of the Roman road between Caistor St Edmund and Crownthorpe to the west of Ketteringham.
- 2.3.10 Within the onshore substation site options, there is the potential for archaeological remains associated with Roman field systems and agricultural activity, as well as medieval settlement activity potentially associated with the medieval village of Gowthorpe to the immediate west.



3 Aims and Objectives

- 3.1.1 The purpose of the requested geo/archaeological watching brief was to monitor the intrusive works associated with the development and, where geo/archaeological remains were present, to investigate, characterise and interpret them. In instances where the watching brief remit was not sufficient to deal with the potential archaeological resource, then the assessment will highlight this and provide sufficient data to allow the Stakeholders and Client to make an informed decision on the requirement for further mitigation strategies.
- 3.1.2 The general aims of the geo/archaeological monitoring were to:
 - determine the presence or absence of buried or upstanding geo/archaeological remains within the proposed development site;
 - allow the monitoring archaeologist to signal that potentially significant geo/archaeological has been revealed before it is destroyed;
 - provide the opportunity for an appropriate resource allocation to deal with the geo/archaeological under the watching brief remit;
 - determine the character, date, extent and distribution of any geo/archaeological deposits revealed as well as their potential significance;
 - determine levels of disturbance to any geo/archaeological deposits from plough damage or from any other agricultural/industrial practices or later building activities;
 - sufficiently investigate and record all deposits and features of potential geo/archaeological interest within the areas to be disturbed during the current development;
 - disseminate the results of the fieldwork through an appropriate level of recording.



4 Methodology

- 4.1.1 In accordance with requirements from Norfolk County Council, a programme of geo/archaeological work was undertaken, in line with the agreed WSI, in order to satisfy the stated objective of the project as set out under Section 3 above.
- 4.1.2 The Norfolk Historic Environment Record Event (ENF) for the works was ENF151963.

4.2 Archaeology

- 4.2.1 The WSI stated that thirty locations would be archaeologically monitored but one location, BH21-65, was not undertaken due to its location within operational land but two additional locations, BH21-67 and BH21-68, were undertaken to the south/southwest of the existing Norwich Main substation, near Swainsthorpe, at the southern terminus of the route (See Appendix 1).
- 4.2.2 During the borehole investigations, archaeological monitoring of in-situ deposits was restricted to the hand dug test pits at the top of the sequences which were usually c.1.00m in depth. All deeper deposits were investigated as disturbed upcast produced during the drilling.
- 4.2.3 All archaeological deposits and features were investigated and sampled sufficiently to characterise, date them, understand their relationships and determine their significance.
- 4.2.4 Archaeological contexts were recorded and numbered individually on pro-forma context sheets with all relevant data such as drawings, photographic images, finds, environmental samples, height values and any other information cross-referenced. In addition, a further, more general record of the work comprising descriptions and discussions of the archaeology was maintained. Context sheets were primarily filled in by the archaeologist excavating the feature/deposit.
- 4.2.5 Hand drawn sections were drawn at an appropriate scale. All drawings have been accurately related to the National Grid.
- 4.2.6 A complete digital photographic record of the work was kept. All images were taken using a camera with a suitable megapixel resolution. The photographic record is regarded as part of the site archive and digital files will be appropriately filed, saved, labelled and cross-referenced in relation to the site-specific photography register.

4.3 Geoarchaeology

4.3.1 Fifteen locations were identified which required geoarchaeological monitoring.



- 4.3.2 All of the sequences subject to geoarchaeological recording were monitored by a suitably trained and experienced geoarchaeologist.
- 4.3.3 The sequences were recorded following standard geological criteria (Tucker 1982; Jones et al 1999; Munsell Color 2000) whilst archaeological deposits and features were investigated and recorded as per the standards and strategy below.

4.4 Artefacts

4.4.1 All artefacts revealed were recovered regardless of date so that the provisional dating of as many contexts as possible could be undertaken in line with Historic England guidance (2015a).

4.5 Lithics

- 4.5.1 Worked flint was recorded following standard technological and typological classifications and largely follows the methodology of Inizan et al (1999) with modifications and additions as indicated in the text by the author.
- 4.5.2 Retouched tools were classified following standard British works such as Healy (1988) and Bamford (1985). Measurements were taken following the methodology of Saville (1980).

4.6 Palaeoenvironmental Sampling

- 4.6.1 The strategy and methodology for the sampling of deposits was in accordance with English Heritage (Now Historic England) Centre for Archaeology Guidelines "Environmental Archaeology – A guide to the theory and practice of methods, from sampling and recovery to post-excavation" (2011).
- 4.6.2 All samples were assigned a unique identification number accompanied with an appropriate sample form.
- 4.6.3 Where guidance was relevant the appropriate English Heritage (Now Historic England) papers were followed (EH 2005, 2007 & 2011).



5 Results

5.1.1 Due to the broad geographic area that is spanned by the monitoring, it is not possible to give a 'typical' stratigraphic sequence for the monitored sections and therefore the lithological descriptions of strata recorded/ encountered during the geo/archaeological monitoring are contained within Appendix 3, Appendix 4 and Appendix 5.

5.2 Archaeological Monitoring

- 5.2.1 No features or deposits of archaeological interest were identified within any of the 31 monitored locations and no in-situ artefacts were recovered.
- 5.2.2 The sole finds of archaeological interest comprised four stuck flints which were recovered from the surface during the monitoring of BH21-61 and BH21-64; these are discussed below.

5.3 Geoarchaeological Monitoring

- 5.3.1 No features, deposits or artefacts of archaeological interest were identified during the geoarchaeological monitoring works.
- 5.3.2 Deposits of palaeoenvironmental and geoarchaeological interest were identified in two monitored locations (BH6-15 and BH9-25) and one location which was not subject to archaeological or geoarchaeological monitoring (BH10-31).

BH6-15

- 5.3.3 Underlying topsoil and subsoil at 0.40 bgl/ 23.24m aOD was the upper surface of a dark blackish brown, peaty clay deposit measuring 0.70m in thickness. Frequent plant macrofossil remains were visibly preserved within the sediment including leaves of sedges and/or grasses.
- 5.3.4 This was underlain at 1.10m bgl/22.54m aOD by a dark brownish grey, slightly clayey, coarse gravelly sand with occasional pockets/ fragments of organic clay/ peat. This organic alluvium/ alluvium was c. 2.50m in thickness with a basal boundary at 3.60m bgl/20.04m aOD although it should be noted that no organic remains were noted below c. 2.00m bgl/ 21.64m aOD.
- 5.3.5 Underlying this deposit, at 3.60m bgl/20.04m aOD was a dark grey sandy gravelly clay alluvium measuring 1.90m in thickness. This deposit lay upon superficial gravels at 5.50m/18.14m AOD which marked the base of the Holocene alluvial sequence.



Discussion

- 5.3.6 The peaty clay (0.40m 1.10m) deposit has **High** palaeoenvironmental potential due to the visible presence of plant macrofossils. In addition, there is a **high** potential for the preservation of other palaeoenvironmental proxy such as microfossils i.e. pollen, diatoms.
- 5.3.7 The organic alluvium/ alluvium (1.10m 3.60m) is characterised as having **Moderate** palaeoenvironmental potential; this is due to the mixed, fragmentary nature of the organic clays/ peat and the overall lithology of the deposit (gravelly sandy clay) being less than ideal for the preservation of macro- and microfossils.
- 5.3.8 The lower deposit has **Low No** palaeoenvironmental potential as no visible organic inclusions were noted. Despite the absence of visible plant macrofossil remains, there is potential for the preservation of microfossils within these sediments.
- 5.3.9 It is likely that the lower two deposits represent overbank sedimentation succeeded by a change in the depositional environment, potentially channel migration or avulsion of a channel, resulting in a marked reduction in flow rates allowing for the deposition of fine-grained organic sediments and peat development.
- 5.3.10 Overall, the entire sequence is considered **Moderate** geoarchaeological potential and a **Moderate High** palaeoenvironmental potential to inform upon the Holocene development and evolution of the River Bure and the palaeoenvironmental history of the local landscape.

BH9-25

- 5.3.11 Underlying an alluvial topsoil composed of dark brown, clayey sand, at a depth of 0.90m bgl/14.63m aOD, was a dark grey, very sandy gravel of 8.30m thickness.
- 5.3.12 Underlying these superficial gravels at a depth of 9.20m bgl/ 6.33m aOD was a very soft, dark brown silty peat measuring c.0.80m in thickness.
- 5.3.13 The peat was underlay at 10.00m bgl/ 5.53m aOD by a soft greyish brown organic sandy clay with occasional shell fragments. This deposit extended for at least another 5.45m to 15.45m bgl/ 0.08m aOD but the base of the deposit was not proven, and no evidence of chalk bedrock was identified.
- 5.3.14 It was not possible to recover an undisturbed sample of the deposit due to the disturbed nature of the cable percussion drilling and therefore direct dating or palaeoenvironmental assessment of the deposit was not possible within the current scope of works. Despite this, it should be noted that, given the interpretation of the feature (see below) and the stratigraphic position of the deposits in relation to the



overlying gravels, there is potential that the age of the deposits may be greater than the maximum limit of radiocarbon dating (i.e. 50ka).

Discussion

- 5.3.15 The presence of extensive organic alluvium and peat (>5.45m and 0.80m thickness respectively) within BH9-25 is of note due to its depth (9.20m bgl/ 6.33m aOD) but also due to its stratigraphic position underlying extensive gravel deposits.
- 5.3.16 McMillan et al (2011, 149) note that 'till and associated outwash deposits of Devensian (MIS 2) age extend a short distance inland from the north coast of Norfolk' and the BGS does not map any deposits associated with the Last Glacial Maximum, whose southerly extent was the north coast of Norfolk, therefore, the extensive gravels identified must predate the Devensian Glaciation.
- 5.3.17 There are two gravel formations mapped by the BGS (2021a) within the vicinity of Swannington; the Briton's Lane Formation (possibly MIS 6/191 130ka, McMillan et al 2011, 149) and the Sheringham Cliffs Formation (MIS 10/ 374 337ka; McMillan et al 2011, 147-148). It is assumed, in the absence of detailed lithological comparison, that the sealing gravels are in fact one of the two aforementioned members and, therefore, to be a component of, or sealed by, either of these Formations makes these deposits of potential significance for the understanding of the Pleistocene palaeoenvironment within the region.
- 5.3.18 The lithology of the sediments is indicative of a hydroseral succession representing the development of a peat-forming, fen wetland from a slow-flowing, open water body. It is not clear whether the relationship between the upper boundary of the peat and the overlying gravel is conformable, but the sharp transition may suggest that there is a discontinuity in the sedimentary record.
- 5.3.19 The organic clay deposits sit within a defined cut or trough in the chalk as the upper surface of the chalk was not proven in BH9-25 but was encountered at:
 - 12.93m aOD in BH9-24, 130m to the north
 - 9.35m aOD in BH9-26, 135m to the west
 - 15.33m aOD in BH9-27, 145m to southwest
 - 18.90m aOD in BGS Ref: TG11NW21, 870m to the northeast
 - 7.15m aOD in BGS Ref: TG11NW28, 285m to the east
 - 10.30m aOD in BGS Ref: TG11NW57, 350m to southeast
 - 9.90m aOD in BGS Ref: TG11NW22, 470m to southeast



- 8.40m aOD in BGS Ref: TG11NE2, 1.6km to southeast
- 5.3.20 There are records of a 'black bog' deposit in the public well at Swannington (BGS Ref: TG11NW94) c.760m to the west. The record states that "the cottagers will not use the water, either for drinking or washing....they say that it turns linen yellow and is not fit to drink" (BGS 2021b) suggesting that the black bog is a peat deposit.
- 5.3.21 Despite this, it is unlikely that the two deposits are linked as the upper contact of the 'black bog' is at c.10.61m aOD (as opposed to 6.33m aOD of the BH9-25 peat) and it directly overlies the chalk bedrock, whose upper surface is proven at 9.39m aOD.
- 5.3.22 The initial interpretation, based upon the scale and stratigraphic position of the feature and its fills, is that the trough in the chalk represents a buried tunnel valley associated with the Anglian Glaciation (MIS 12/ 478 424ka) of which there are multiple examples from East Anglia (Figure 3 of Eaton et al 2020, who source Graham et al 2011).
- 5.3.23 Tunnel valleys are defined by Stucki et al (2010, 363 364) as 'large, elongated depressions of subglacial origin cut into bedrock...the sedimentary architecture of tunnel valley fills is characterized (sic) by a large variety of lithofacies including those associated with glacial, glaciofluvial or glaciolacustrine sedimentation, as well as those resulting from deposition under temperate (i.e., warm stage) conditions'. 'Tunnel valleys are interpreted to have served as subglacial drainage pathways for large volumes of melt water and are thus considered to play a substantial role for the entire hydraulic system beneath glaciers'.
- 5.3.24 Despite this interpretation, as shown by the upper contact heights of the chalk above, there is no clear indication of continuation in any other direction and no deposits matching the lithological descriptions were identified within the surrounding boreholes. Despite this, this 'absence' of continuation is likely to be reflective of the resolution of the sampling and the gaps between locations as opposed to being a real absence.
- 5.3.25 It was not possible to recover an undisturbed sample of the deposit due to the disturbed nature of the cable percussion drilling and therefore direct dating or palaeoenvironmental assessment of the deposit was not possible within the current scope of works. Despite this, it should be noted that, given the suggested origin of the feature and the stratigraphic position of the deposits in relation to the overlying gravels, there is potential that the age of the deposits may be greater than the maximum limit of radiocarbon dating (i.e. 50ka).
- 5.3.26 If the interpretation of the feature as a buried tunnel valley of Anglian age is accepted then the fills must post-date MIS 12 and, due to the absence of Devensian gravels within this area, must predate the deposition of the Briton's Lane Formation (possibly



MIS 6/191 - 130ka) and therefore a provisional, mid-Pleistocene date of between the end of MIS 12 and the beginning of MIS 6 (c. 424 - 191ka) is proposed.

- 5.3.27 The organic clays may represent the water-lain sediments of the Ivy Farm Laminated Silt Member (IFLS), a basal sub-division of the Sheringham Cliffs Formation (McMillan et al 2011, 147-148). The IFLS Member comprises 'up to 22 m of clays, silts and sands and consists of two distinctive lithofacies:
 - a) rhythmically-bedded dark grey clays and pale grey silts that grade upwards into a pale-yellow laminated marl;
 - b) horizontally bedded and rippled fine-grained pale grey sand rich in the heavy mineral zircon'.
- 5.3.28 The lower boundary of the IFLS is described as conformable with either 'the diamicton facies of the Walcott Till Member or the sandy facies of the Mundesley Sand Member' (McMillan et al 2011, 147-148). As the underlying deposits were not proven, the description of the stratigraphic relationship cannot be used to further interpretation of the deposits.
- 5.3.29 An alternative interpretation is that these deposits pre-date the Sheringham Cliffs Formation and are of Hoxnian (MIS 11/ 424 – 374ka) age. No deposits of Hoxnian age are currently known from the Yare Catchments Subgroup (McMillan et al 2011, 310-311) although they are known from the neighbouring Ouse-Nene Catchments Subgroup, specifically the River Nar.
- 5.3.30 The Nar Clay Formation (including both the marine Nar Clay and the underlying Nar Valley Freshwater Beds) consists of 'finely laminated marine clays, silts and silty clays, and peat of the Nar Valley Freshwater Peat Beds. Brickpits have yielded a rich fauna of well-preserved bivalves and gastropods, foraminifera, ostracods and diatoms. The clay has also yielded the bones and teeth of mammals' (McMillan et al 2011, 150).
- 5.3.31 Regardless of age, Pleistocene deposits with geo/archaeological significance, are a material consideration within the planning system in England (Historic England 2020, 8) and given the possibility that these deposits may represent a hitherto unidentified sequence with potential to contribute to the understanding of the onshore mid late Pleistocene palaeoenvironment, these deposits are considered to have a High geoarchaeological and palaeoenvironmental potential
- 5.3.32 In the event that further site investigation works are due to occur in the area, then scope for assessment and dating of the deposits should be considered with uranium series dating on peat and amino acid racemization on shells within the organic clays being potential options.



BH10-31

- 5.3.33 Underlying 0.50m of topsoil, at a height of 9.65m aOD, a very soft, black, slightly sandy organic clay was identified.
- 5.3.34 The deposit measured 4.60m in thickness and its basal horizon was identified at 5.05m aOD where it overlay Pleistocene gravel.

5.4 Discussion

- 5.4.1 Due to the homogenous description given within the log, it is considered that the deposits identified within BH10-31 represent gradually accumulating alluvium deposit during flooding in a peripheral location from the main active channel. Due to the continuity through the sequence, it may be considered that this alluvial unit is deposited within a stable floodplain where the primary channel remains relatively mobile with very little movement within its floodplain; this is potentially indicative of a later Holocene date, but this is purely speculative.
- 5.4.2 Despite this location not being monitored, it is evident, both from the description of the deposit and from the location of recovery, that the material recovered from BH10-31 has Moderate High potential for the preservation of palaeoenvironmental remains.
- 5.4.3 The geoarchaeological potential of the deposits is more uncertain as the description of the clays implies that they may be somewhat amorphous although; the level of lithological recording may not account for finer resolution structural and depositional features within the deposit or spatial variation within the lithology of the alluvial unit. It is therefore considered that the alluvium has **Moderate** geoarchaeological potential.
- 5.4.4 Due to the absence of similar organic remains, or non-granular alluvium at all, in BH10-29, BH10-30 and BH10-32, there is a possibility that the deposits with palaeoenvironmental or geoarchaeological potential (i.e. non-granular, non-Pleistocene gravels) are constrained within the Holocene valley floor although there may be potential for palaeochannels to exist as the valley floor widens to the south/southeast of Attlebridge.

6 Artefacts and Lithics

6.1 Results

- 6.1.1 Four pieces of struck flint were recovered from the surface of the field, centred on Grid Reference TG218019, to the south of the substation at Swainsthorpe where BH21-61, BH21-64, and TP21-01 to TP21-04 were monitored
- 6.1.2 They are all made from similar translucent dark grey to black fine-grained flint, with two pieces retaining a hard and worn cortex and the other two a thicker and rough but still weathered cortex. It is likely that the raw materials were gathered from derived sources, probably either the glacial till that cover the area or from alluvial deposits eroding through the tills. All of the pieces have suffered from post-depositional abrasion and chipping although to varying extents, as would be consistent with their recovery from unstratified contexts.
- 6.1.3 The four struck pieces comprise a flake, a core and two retouched implements: a denticulated tool and a piercer. The denticulated implement was made on a narrow decortication flake that had been sporadically retouched by cutting series of small shallow notches along parts of both lateral margins, with wear on the cusps of the notches suggesting that it had been used as a heavy-duty cutting implement, perhaps akin to a saw, on relatively hard materials such as wood or bone. The piercer was made on a short, thick flake and has been minimally retouched to form a blunt point or spur on its distal end. This also shows traces of wear and there is some evidence that it may have been used in a similar way to an awl, but this is masked by post-depositional damage. The core has also experienced considerable post-depositional attrition but traces of at least two platforms that had produced flakes and narrow flakes can be detected. The flake is thin but fragmentary with most of its distal end and its striking platform missing.
- 6.1.4 No chronologically diagnostic implements that can give a precise date are present and it is quite possible that the pieces are not related and the products of different periods. However, if taken together, a date during the Later Neolithic or Early Bronze Age would comfortably encompass all of the pieces.

6.2 Significance

6.2.1 The main significance of the struck flint is that it demonstrates prehistoric flint working and tool-use activities occurring at the site, most probably during the Neolithic or Early Bronze Age. However, the small size of the assemblage and lack of diagnostic pieces or secure contextual associations means its interpretational vale is limited and it can contribute little to further understandings of the precise chronology or nature of the prehistoric occupation.



- 6.2.2 Due to its limited interpretative potential, this report and accompanying catalogue is all that is required for the purposes of archiving and no further analytical work is warranted. The assemblage does, however, provide evidence for prehistoric activity at the site and can contribute to wider appreciations of prehistoric landscape use in the area.
- 6.2.3 It is therefore recommended that it is recorded in the Historic Environment Record and a brief mention is included in any published account of the fieldwork.



7 Summary

7.1 Archaeological Monitoring

- 7.1.1 No features or deposits of archaeological interest were identified within any of the 31 archaeologically monitored locations and no in-situ artefacts were recovered.
- 7.1.2 The sole finds of archaeological interest comprised four stuck flints which were recovered from the surface during the monitoring of BH21-61 and BH21-64; these are discussed below.
- 7.1.3 Four Neolithic or Early Bronze Age lithics were recovered from the surface of the field to the south of the Swainsthorpe substation at the southern terminus of the route.
- 7.1.4 Due to the unstratified nature of the finds, it cannot be stated whether these finds relate to the cropmarks of fragmentary ditches of unknown date as recorded by the DBA (Royal HaskoningDHV 2021b) or whether they are unrelated and represent a hitherto unrecognised phase of activity on the site.
- 7.1.5 The archaeological potential of the lithics is difficult to assess as, in the absence of associated features or deposits, they may represent stray finds as a result of accidental loss during short-term or transitional activity on the site or, alternatively, represent a small component of a larger assemblage indicating a longer phase of occupation.

7.2 Geoarchaeological Monitoring

- 7.2.1 No features, deposits or artefacts of archaeological interest were identified during the geoarchaeological monitoring works.
- 7.2.2 Deposits of palaeoenvironmental and geoarchaeological interest were identified in two monitored locations (BH6-15 and BH9-25) and one location which was not subject to archaeological or geoarchaeological monitoring (BH10-31).
- 7.2.3 The deposits identified within BH6-15 and BH10-31 represent alluvium and organic alluvium associated with the Rivers Bure and Wensum respectively and have High
 Moderate palaeoenvironmental and Moderate geoarchaeological potential.
- 7.2.4 The deposits identified within BH9-25 have **High** palaeoenvironmental and geoarchaeological potential. These are interpretated as the fills of a buried tunnel valley of Anglian age. If this origin is accepted then the fills must post-date MIS 12 (478 424ka) and, due to the absence of Devensian gravels within this area, must predate the deposition of the Briton's Lane Formation (possibly MIS 6/191 130ka)



and therefore a provisional, mid-Pleistocene date of between the end of MIS 12 and the beginning of MIS 6 (c. 424 – 191ka) is proposed.

7.2.5 All other deposits are considered to have **No – Low** palaeoenvironmental or geoarchaeological potential due to the generally shallow sequences, dominated by coarse, gravelly sediments of Mid-Pleistocene origin.



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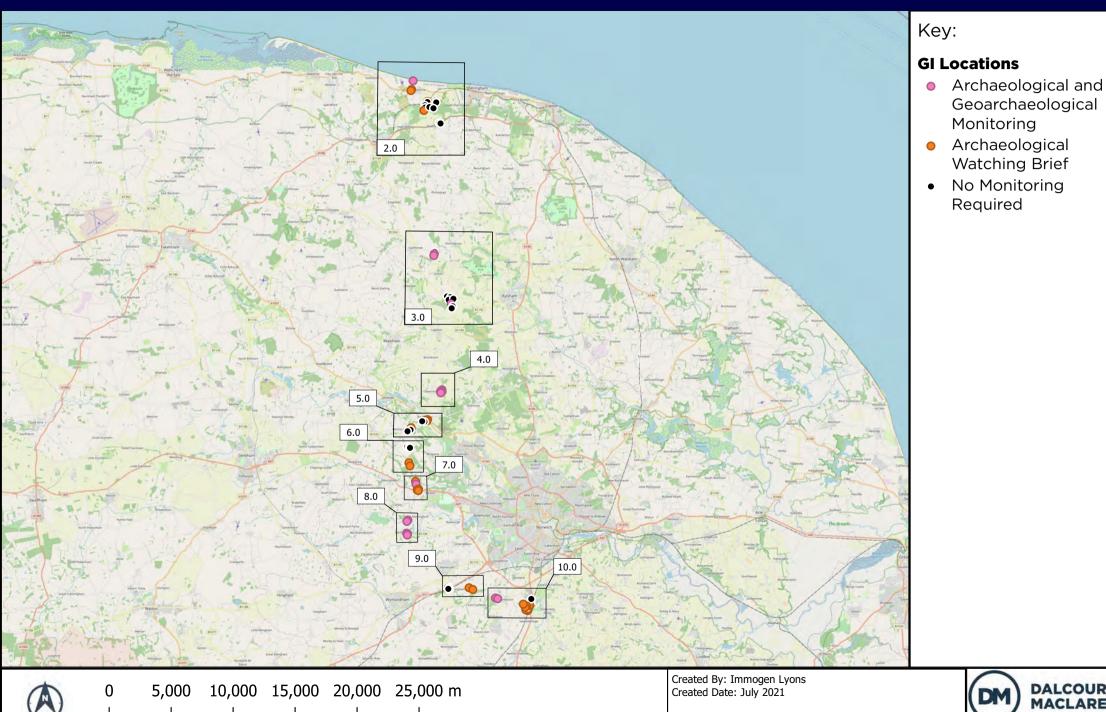
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DRAWINGS

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OVERVIEW OF BOREHOLE LOCATIONS



DALCOUR MACLAREN DM

Geoarchaeological

Monitoring Archaeological

Required

Watching Brief No Monitoring

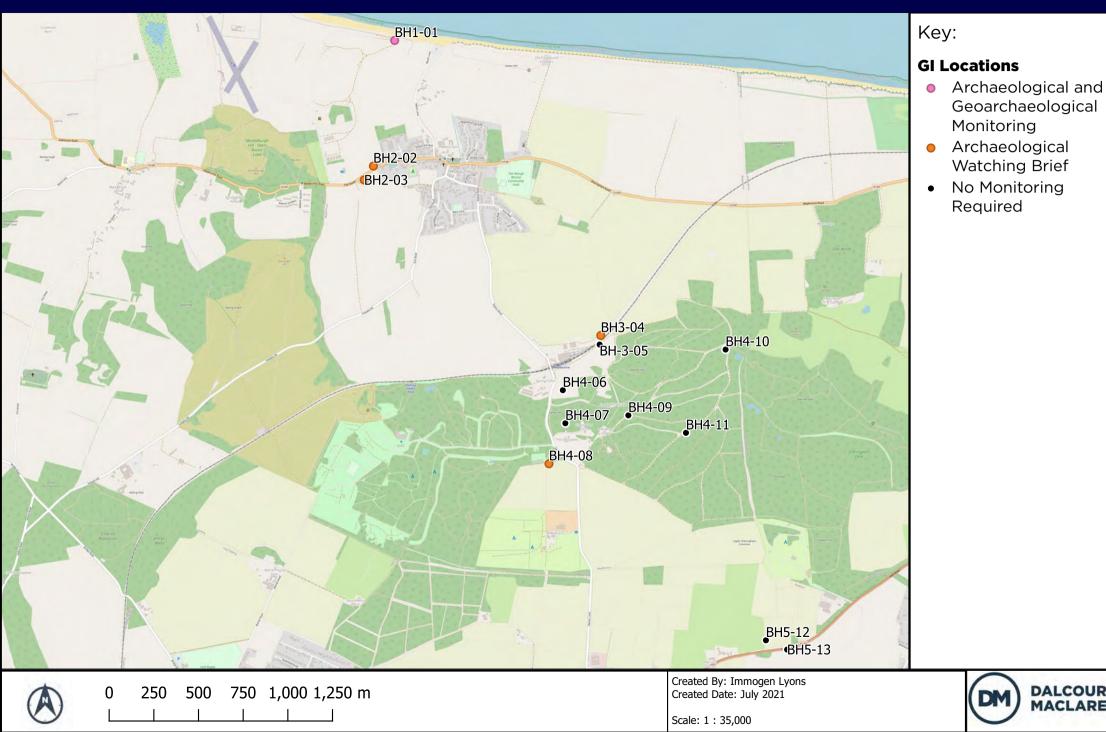
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BOREHOLE LOCATIONS WITH MONITORING REQUIREMENTS

DALCOUR MACLAREN

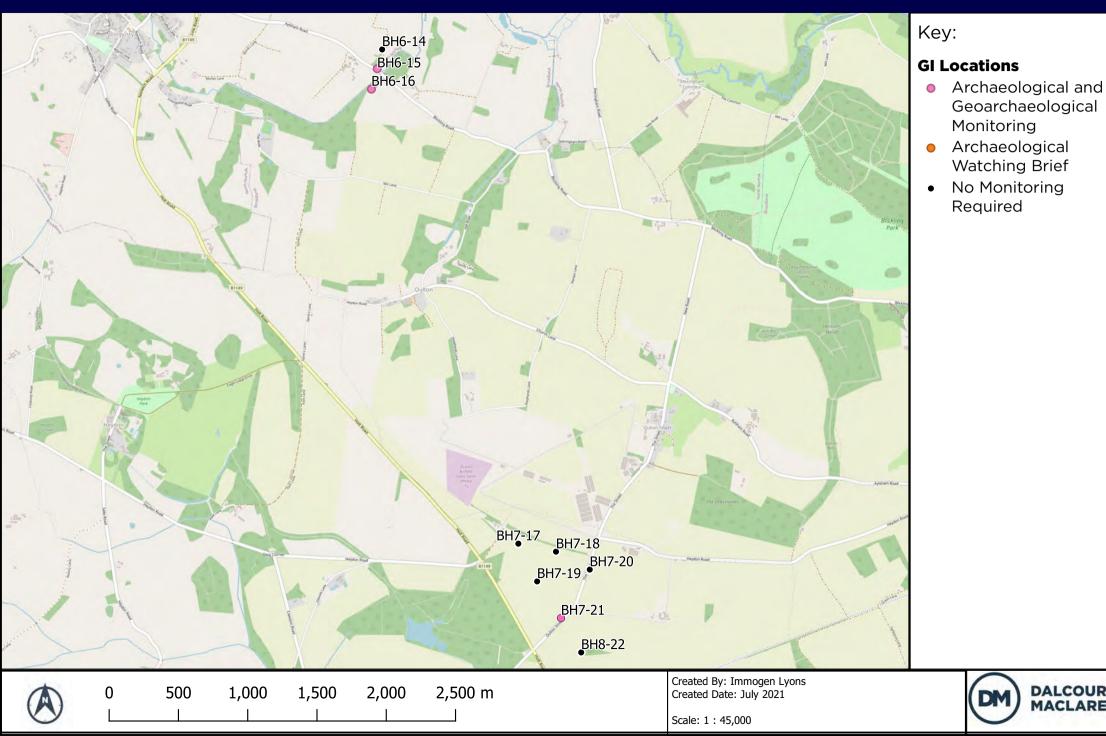
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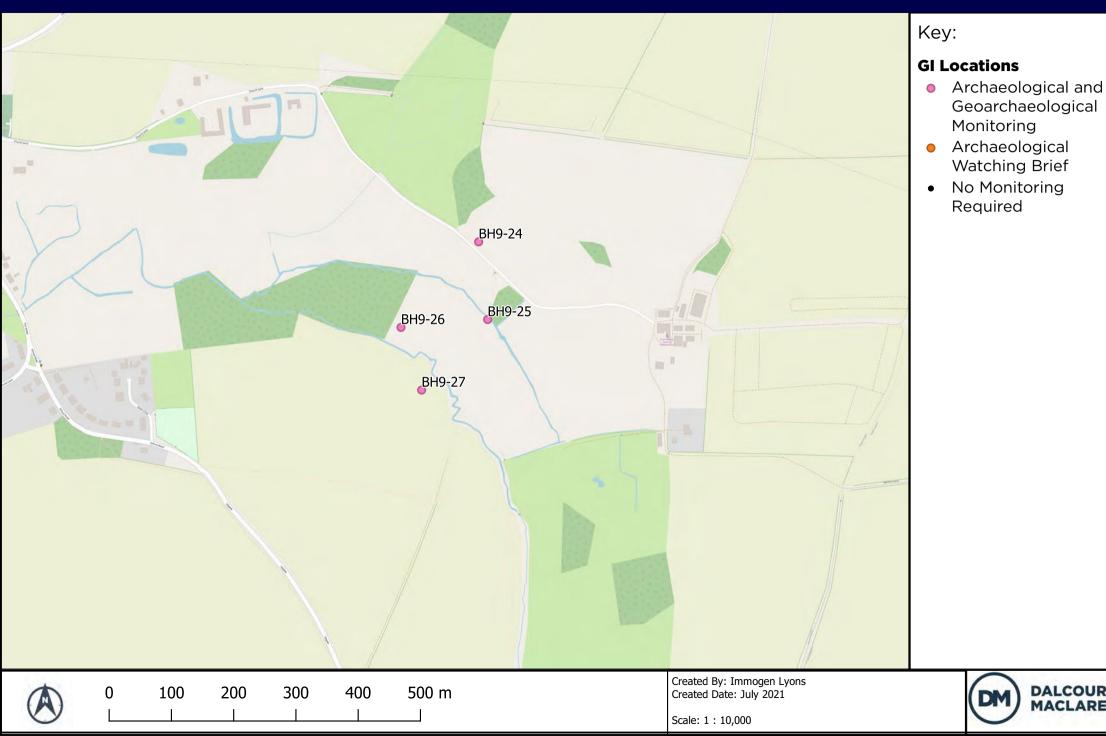
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BOREHOLE LOCATIONS WITH MONITORING REQUIREMENTS



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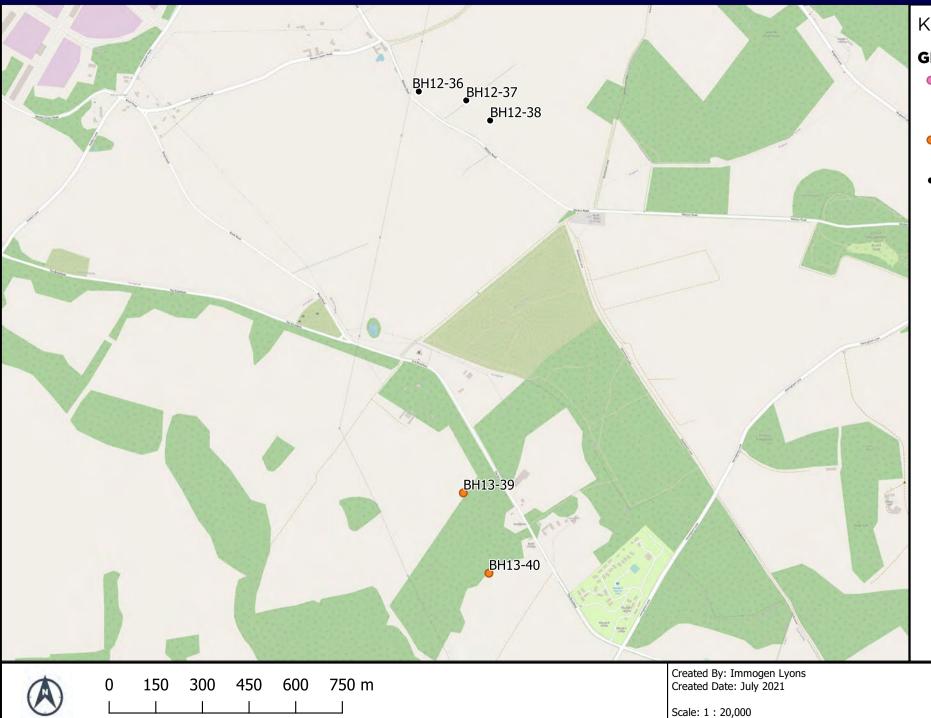
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 Archaeological and Geoarchaeological Monitoring

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Geoarchaeological

DALCOUR MACLAREN

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Monitoring Archaeological

Required

Watching Brief

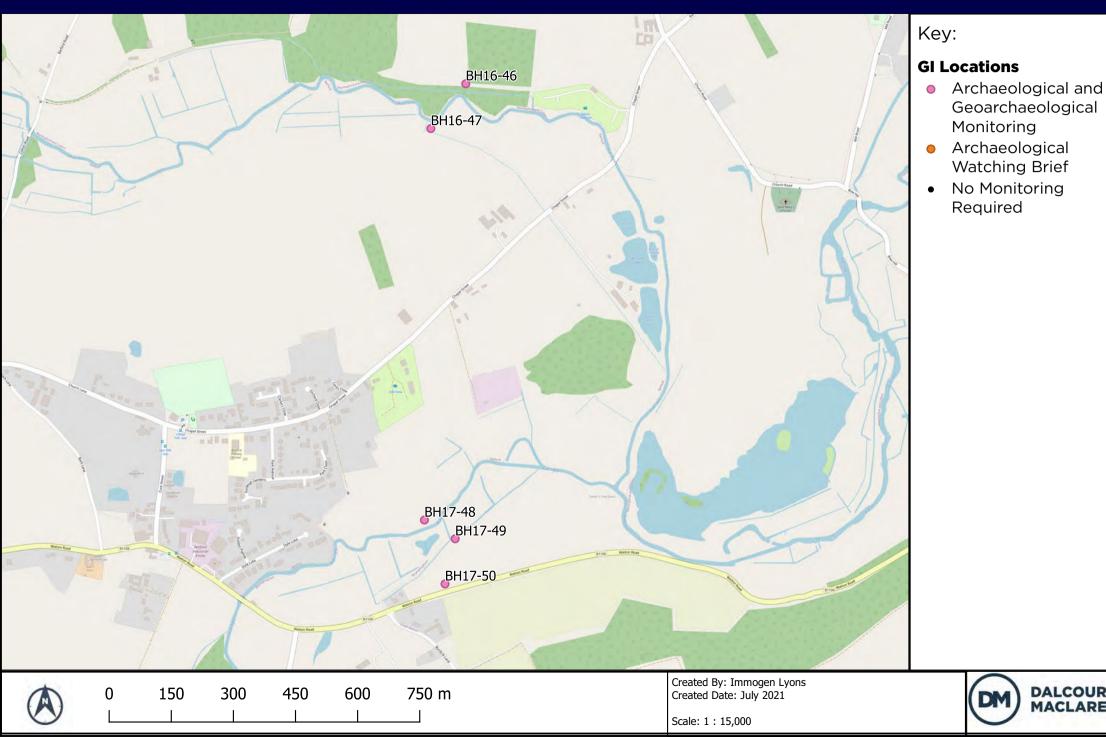
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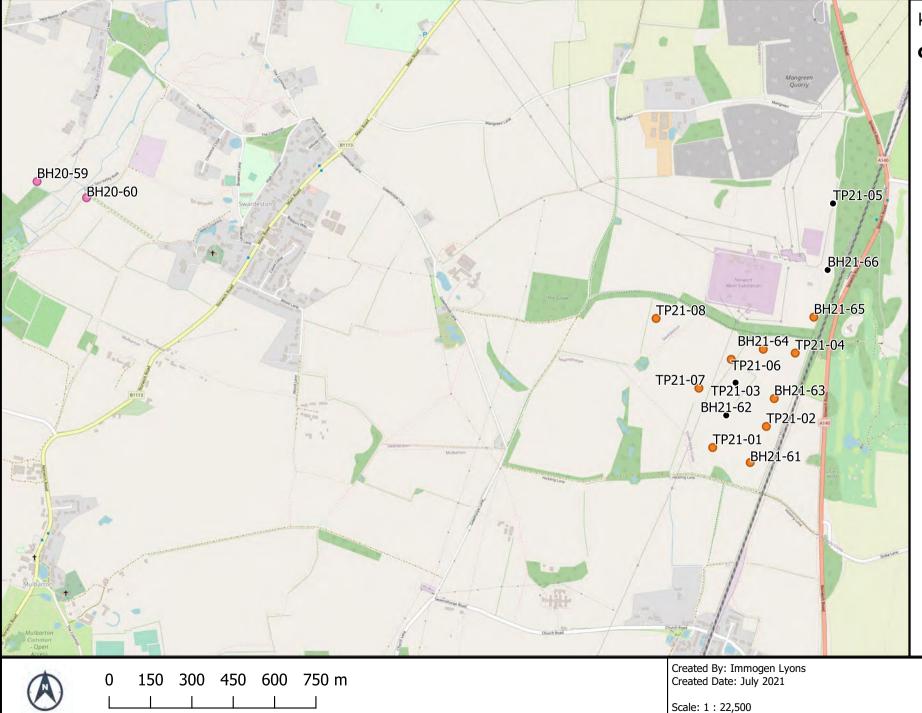
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BOREHOLE LOCATIONS WITH MONITORING REQUIREMENTS



Key:

GI Locations

- Archaeological and Geoarchaeological Monitoring
- Archaeological Watching Brief
- No Monitoring
 Required





APPENDICES



Appendix 1 Location of Monitored Site Investigations



| Borehole Reference | Mitigation Type | Easting | Northing | Height (m aOD) |
|-----------------------|--------------------|------------|------------|-------------------|
| BH1-01 | Geoarch | 610817.342 | 343679.202 | 9.07m |
| BH2-02 | WB | 610729.071 | 342973.289 | 23.90m |
| BH2-03 | WB | 610681.448 | 342894.648 | 25.91m |
| BH3-04 | WB | 612042.147 | 342084.855 | 40.06m |
| BH4-08 | WB | 611783.415 | 341360.003 | 78.92m |
| BH4-11 | WB | 612515.787 | 341557.413 | 51.57m |
| BH6-15 | Geoarch | 613121.396 | 329971.271 | 23.64m |
| BH6-16 | Geoarch | 613082.65 | 329823.076 | 25.54m |
| BH9-24 | Geoarch | 614213.876 | 319117.145 | 17.63m |
| BH9-25 | Geoarch | 614226.409 | 318987.534 | 15.53m |
| BH9-26 | Geoarch | 614091.273 | 318975.867 | 16.35m |
| BH9-27 | Geoarch | 614128.552 | 318878.104 | 18.93m |
| BH10-28 | WB | 613150.080 | 316689.151 | 18.73m |
| BH10-29 | WB | 613118.837 | 316584.622 | 13.84m |
| BH10-30 | WB | 612960.01 | 316621.52 | 10.39m |
| BH10-32 | WB | 612731.109 | 316537.155 | 10.89m |
| BH11-33 | WB | 611860.744 | 315954.291 | 41.66m |
| BH12-37 | WB | 611783.606 | 314416.9 | 44.45m |
| BH13-39 | WB | 611816.077 | 313171.614 | 57.43m |
| BH13-40 | WB | 611908.378 | 312914.586 | 56.52m |
| BH14-41 | WB | 612229.399 | 311581.193 | 19.63m |
| BH14-42 | Geoarch | 612224.197 | 311387.917 | 21.13m |
| BH15-43 | WB | 612440.222 | 311082.674 | 28.34m |
| BH15-44 | WB | 612611.325 | 311016.136 | 30.86m |
| BH15-45 | WB | 612535.663 | 310974.508 | 32.08m |
| BH16-46 | Geoarch | 611904.868 | 308573.31 | 19.78m |
| BH16-47 | Geoarch | 611854.837 | 308458.587 | 21.79m |
| BH17-48 | Geoarch | 612005.865 | 307700.215 | 21.00m |
| BH17-49 | Geoarch | 611930.803 | 307446.53 | 17.54m |
| BH17-50 | Geoarch | 611962.085 | 307365.783 | 21.50m |
| BH18-52 | WB | 615435.452 | 303285.637 | 47.42m |
| BH19-57 | WB | 617093.613 | 303351.675 | 46.69m |
| BH19-58 | WB | 617401.247 | 303352.466 | 40.72m |
| BH20-59 | Geoarch | 619225.829 | 302589.836 | 22.51m |
| BH20-60 | Geoarch | 619392.492 | 302526.26 | 26.65m |
| BH21-61 | WB | 621885.917 | 301730.542 | 29.81m |
| BH21-63 | WB | 621917.391 | 302142.581 | 26.96m |



| BH21-64 | WB | 621917.09 | 302143.558 | 26.98m |
|---------|----|------------|------------|---------|
| BH21-67 | WB | 621648.73 | 301884.817 | 35.28m |
| BH21-68 | WB | 621493.699 | 302031.021 | 38.56m |
| TP21-01 | WB | 621748.760 | 301776.087 | 29.93m |
| TP21-02 | WB | 621940.558 | 301858.781 | 25.47m |
| TP21-04 | WB | 622032.938 | 302131.627 | 29.52 m |
| TP21-06 | WB | 621799.024 | 302101.768 | 27.33m |
| TP21-07 | WB | 621688.237 | 301991.012 | 31.16m |
| TP21-08 | WB | 621519.838 | 302237.053 | 31.86m |



Appendix 2 Perceived Heritage and Archaeological Potential of SI Locations

| BH_ID | Mitigation | Completed? | Perceived Heritage Importance | Summary of Findings | |
|-------------|------------|------------|--|--|---|
| BH01- 01 | Geoarch | | Medium – with the BH being located just off the intertidal/ beach area – there will be low potential for archaeological remains related to the military camp. | Weybourne Camp, Roman coin finds | Archaeological Monitoring at th coast. |
| BH02- 02 | WB | | Low to Medium – BH located of edge of areas indicated on available data as archaeological presence. | Weybourne Camp, Roman coin finds | Archaeological area, due to no these reasons, |
| BH02- 03 | WB | | Medium – to the north of Scheduled Monument NHLE 1013097, although not much info on this area, due to no geophysical data. | Medieval moated complex with enclosures, fishponds, old road and field system. Adjacent to Scheduled moated site – NHLE 1013097. | Archaeological position. |
| BH03- 04 | WB | | Not located within recorded heritage assets or unknown archaeological remains perceived within available data, however immediately adjacent to several recorded heritage assets/finds of Saxon date | N/A | Archaeologica |
| BH04- 08 | WB | | Low – BH within area recorded on NHER as site of multi period finds. | Within area of Multi-period finds (Neolithic, | Archaeological |
| BH04- 11 | WB | | Medium – BH within area recorded as multi-period pits. | Mesolithic, roman, medieval/post-med) Site of late Saxon to medieval earthwork pits, and site of WWII weapons pits. | position based |
| BH06- 15 | Geoarch | | No recorded heritage assets or unknown archaeological remains perceived within available data, although to the adjacent south is APS_104 (buried ditches of unknown date and origin). | N/A | Archaeological Monitoring due waterway. |
| BH06- 16 | Geoarch | | No recorded heritage assets or unknown archaeological remains perceived within available data, although to the adjacent east is APS_104 (buried ditches of unknown date and origin). | N/A | Archaeologica Monitoring due waterway. |
| BH09- 24 | Geoarch | | No recorded heritage assets or unknown archaeological remains perceived within available data. Adjacent records include Multi period finds, including early Saxon period. | N/A | Archaeological Monitoring due waterway. |
| BH09- 25 | Geoarch | | No recorded heritage assets or unknown archaeological remains perceived within available data. Adjacent records include Multi period finds, including early Saxon period. | N/A | Archaeological Monitoring due waterway. |
| BH09- 26 | Geoarch | | No recorded heritage assets or unknown archaeological remains perceived within available data. Adjacent records include Multi period finds, including early Saxon period. | N/A | Archaeological Monitoring due waterway. |
| BH09- 27 | Geoarch | | No recorded heritage assets or unknown archaeological remains perceived within available data. Adjacent records include Multi period finds, including early Saxon period. | N/A | Archaeological Monitoring due waterway. |
| BH10- 28 | WB | | Low – the BH is located just outside of the NHER indicated area (south-west), with no geophysical anomalies present within the immediate area. | Cropmarks of fragmentary ditches and soil marks of buried walls of uncertain date. Fragmentary linear anomalies of uncertain origin. Possible round barrow on north-eastern edge of survey area. Metal detecting survey also found several multi-period metal finds, dating from the roman, medial and post-medieval periods, with unidentified metal fragments of late Bronze Age to post-med date. | Archaeological archaeological |
| BH10- 29 | WB | | Low - the BH is located just outside of the NHER indicated area (north-east). | Roman, medieval and post medieval finds: metal detecting discovered a Roman ring, | Archaeologica geophysical re |

al Watching Brief and Geoarchaeological this BH due to the potential across the Norfolk

cal Watching Brief, although not much info on this no geophysical data. No alternative provided due to ns, and currently best placed.

cal Watching Brief. No alternative as currently best

al watching brief at this BH.

cal Watching Brief. No alternative as currently best ed on known data from APS report

al Watching Brief.

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cal watching brief at this BH due to the identified cal remains, and geophysical surveys.

al watching brief at this BH due to finds and nearby results.

| BH_ID | Mitigation | Completed? | Perceived Heritage Importance | Summary of Findings | |
|-------------|------------|------------|---|---|---|
| | | | | a vessel, Medieval strap fitting, and post med coin weight. | |
| BH10- 30 | WB | | Low - the BH is located just outside of the NHER indicated area (north-western edge). | Roman, medieval and post medieval finds: metal detecting discovered a Roman ring, a vessel, Medieval strap fitting, and post med coin weight. | Archaeological geophysical res |
| BH10- 32 | WB | | High – with BH is on the very edge of the indicated area of both the APS and NHER data for the archaeological remains. | Cropmarks of ring ditch and oval enclosure of possible Bronze Age date, and medieval building platforms. | Archaeological records and ne |
| BH11- 33 | WB | | Medium – the BH is within the centre of the recorded data on the NHER, although it has not been confirmed as archaeological remains. | Cropmarks of field boundaries of unknown date. Unsurveyed for geophysical survey at the time of writing – under crop of sugar beet. | Archaeological have been ider |
| BH12- 37 | WB? | | Low – the BH is within the south-east of the indicative boundary of the site on the NHER. | Cropmarks of possible post-medieval date, field boundaries. | |
| BH13- 39 | WB | | Low – the BH is located near to the centre of post-medieval asset Honingham Park, although no other assets within the immediate vicinity. | Within Post-medieval Honingham Park. | Archaeological Med park recor |
| BH13- 40 | WB | | Low – the BH is located near to the centre of post-medieval asset Honingham Park, although APS_072 to the south-east of undated cropmarks of field boundaries. | Within Post-medieval Honingham Park. | Archaeological Med park recor |
| BH14- 41 | WB | | Low to medium – BH is within field indicated by NHER as area of multi-period finds, however to the adjacent south-west is APS_67 (extant platforms and ditched medieval tofts – also confirmed by geophysical anomalies (PA12)). | Area of multi-period prehistoric worked flints and Iron Age, medieval and post med pottery sherds. | Archaeological and nearby geo |
| BH14- 42 | Geoarch | | Medium to high – whilst BH is at northern extent of area, it is located within/close to an area of high archaeological potential, although geophysical survey provided no anomalies of possible or probable origin. | Cropmarks of a possible ring ditch of Bronze Age date and enclosures of Roman date. Linear anomalies possibly forming part of field system/enclosures. | Archaeological Monitoring at th |
| BH15- 43 | WB | | Medium to high – BH within area of suspected Roman cropmarks, although geophysical survey provided no anomalies of possible or probable origin | Northern extent of cropmarks of Roman date | Archaeological provided, as cu |
| BH15- 44 | WB | | Medium to high – BH within area of suspected Roman cropmarks, although geophysical survey provided no anomalies of possible or probable origin | Cropmarks of a possible ring ditch of Bronze Age date and Roman enclosures | Archaeological provided, as cu |
| BH15- 45 | WB | | High – BH within area of suspected Roman cropmarks, although unsurveyable by geophysical survey to confirm extent of remains. | Cropmarks of a possible ring ditch of Bronze Age date and Roman enclosures | Archaeological provided, as cu |
| BH16- 46 | Geoarch | | No recorded heritage assets or unknown archaeological remains perceived within available data. | N/A | Archaeological Monitoring at th Due to proximit of probable dito |
| BH16- 47 | Geoarch | | No recorded heritage assets or unknown archaeological remains perceived within available data, although be aware that field to the adjacent south is APS_054: probable ditched enclosures forming focus of prehistoric settlement. | N/A | Archaeological Monitoring at th Due to proximit of probable dito |
| BH17- 48 | Geoarch | | No recorded heritage assets or unknown archaeological remains perceived within available data. | N/A | Archaeological Monitoring at th waterway. |
| BH17- 49 | Geoarch | | No recorded heritage assets or unknown archaeological remains perceived within available data. | N/A | Archaeological Monitoring at th waterway. |

al watching brief at this BH due to finds and nearby results.

al Watching Brief at this BH due to HER and APS nearby geophysical results.

al watching brief at this BH due to cropmarks that entified across the site.

al watching brief at this BH as located within Postorded on HER.

al watching brief at this BH as located within Postorded on HER.

al watching brief at this BH due to multi-period finds eophysical result.

al Watching Brief and Geoarchaeological this BH due to possible settlement evidence.

al watching brief at this BH. No alternative current location considered best option.

al watching brief at this BH. No alternative current location considered best option.

al watching brief at this BH. No alternative current location considered best option.

al Watching Brief and Geoarchaeological this BH.

nity to linear features and waterway and proximity to linear features to adjacent south.

al Watching Brief and Geoarchaeological this BH.

nity to linear features and waterway and proximity to here a closures to adjacent south.

al Watching Brief and Geoarchaeological this BH due to proximity to linear features and

al Watching Brief and Geoarchaeological this BH due to proximity to linear features and

| BH_ID | Mitigation | Completed? | Perceived Heritage Importance | Summary of Findings | |
|-------------|------------|------------|---|---|---|
| BH17- 50 | Geoarch | | No recorded heritage assets or unknown archaeological remains perceived within available data. | N/A | Archaeological Monitoring at th waterway. |
| BH18- 52 | WB | | Low – BH's located within area recorded on NHER as site of a Roman Brooch findspot. | Site of Roman Brooch Findspot. | Potential for Ar |
| BH19- 57 | WB | | Medium – BH is located within a post-medieval park, although be aware of nearby heritage assets ranging from prehistoric periods. | Within post-medieval Ketteringham Park. | Archaeological area being rec of SM's to near |
| BH19- 58 | WB | | Medium – BH within area indicated by NHER as site of multi- period finds. | Within area of multi-period finds. | Archaeological HER asset of r north. |
| BH20- 59 | Geoarch | | No recorded heritage assets or unknown archaeological remains perceived within available data. | N/A | Archaeological Monitoring due |
| BH20- 60 | Geoarch | | No recorded heritage assets or unknown archaeological remains perceived within available data. | N/A | Archaeological Monitoring due |
| BH21- 61 | WB | | Low to medium due to proximity to some settlement anomalies identified to geophysical surveys to west – BH to south, and cropmarks of unknown date. | Cropmarks of fragmentary ditches of unknown date and post-medieval field boundaries. | Archaeological position. |
| BH21- 63 | WB | | Low to medium due to proximity to some settlement anomalies identified to geophysical surveys to west– BH to south, and cropmarks of unknown date. | Cropmarks of fragmentary ditches of unknown date and post-medieval field boundaries. | Archaeological position. |
| BH21- 64 | WB | | Low to Medium due to proximity to some settlement anomalies identified to geophysical surveys to west – BH near northern edge of heritage extent, and cropmarks of unknown date. | Post-medieval field boundaries. | Archaeological position. |
| BH21- 65 | WB | | Medium – BH to south-west corner of field, although no immediate identified features. | Probable site of WWII searchlight battery | Archaeological position based |
| TP21- 01 | WB | | No recorded heritage assets or unknown archaeological remains perceived within available data. Close proximity to Gowthorpe manor settlement and geophysical settlement anomalies. | N/A | Archaeological anomalies and |
| TP21- 02 | WB | | Low – TP towards centre of recorded data, and cropmarks of unknown date. | Cropmarks of fragmentary ditches of unknown date and post-medieval field boundaries. | Archaeological anomalies and |
| TP21- 04 | WB | | Low – TP close to northern edge, and cropmarks of unknown date. | Post-medieval field boundaries. | Archaeological anomalies and |
| TP21- 06 | WB | | No recorded heritage assets or unknown archaeological remains perceived within available data. Close proximity to Gowthorpe manor settlement and geophysical settlement anomalies. | Site of medieval village of Gowthorpe, and cropmarks of ring ditches and sub- rectangular enclosures. Linear settlement clearly identified along the western edge of the survey area, which comprises a series of sub-rectangular enclosures with divisions and multiple discrete anomalies. Low magnitude linear anomalies suggest a field system extending to the east of the settlement. | Archaeological anomalies and |

al Watching Brief and Geoarchaeological this BH due to proximity to linear features and

Archaeological Watching brief focussed on the within the centre of HER polygon.

al watching brief at this BH, due to surrounding corded locations for multi-period finds, and aware arby east.

al Watching brief at this BH, as located withing f multi-period finds, and aware of SM's to nearby

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al Watching Brief and Geoarchaeological le to proximity to linear features and waterway

al Watching Brief. No alternative as currently best

al Watching Brief. No alternative as currently best

al Watching Brief. No alternative as currently best

al Watching Brief. No alternative as currently best d on known data from APS report

al watching brief due to proximity to geophysical ad settlement of Gowthorpe manor.

al watching brief due to proximity to geophysical d settlement of Gowthorpe manor.

al watching brief due to proximity to geophysical d settlement of Gowthorpe manor.

al watching brief due to proximity to geophysical ad settlement of Gowthorpe manor.

| BH_ID | Mitigation | Completed? | Perceived Heritage Importance | Summary of Findings | |
|-------------|------------|------------|---|---|---------------------------------|
| TP21- 07 | WB | | No recorded heritage assets or unknown archaeological remains perceived within available data. Close proximity to Gowthorpe manor settlement and geophysical settlement anomalies. | Site of medieval village of Gowthorpe, and cropmarks of ring ditches and sub- rectangular enclosures. Linear settlement clearly identified along the western edge of the survey area, which comprises a series of sub-rectangular enclosures with divisions and multiple discrete anomalies. Low magnitude linear anomalies suggest a field system extending to the east of the settlement. | Archaeological anomalies and |
| TP21- 08 | WB | | No recorded heritage assets or unknown archaeological remains perceived within available data. Close proximity to Gowthorpe manor settlement and geophysical settlement anomalies. | Site of medieval village of Gowthorpe, and cropmarks of ring ditches and sub- rectangular enclosures. Linear settlement clearly identified along the western edge of the survey area, which comprises a series of sub-rectangular enclosures with divisions and multiple discrete anomalies. Low magnitude linear anomalies suggest a field system extending to the east of the settlement. | Archaeological anomalies and |

cal watching brief due to proximity to geophysical nd settlement of Gowthorpe manor.

cal watching brief due to proximity to geophysical nd settlement of Gowthorpe manor.



Appendix 3 Lithostratigraphy of Boreholes

| Borehole Ref | Top (m) | Base (m) | Lithology | Description |
|-----------------|---------|----------|----------------------------------|---|
| | 0.00 | 0.30 | Topsoil | Friable, dark brown, clayey sand with occasional angular – subrounded fine – coarse flint gravel. |
| | 0.30 | 4.60 | Beach deposits/ superficial | Loose – firm, mid yellowish brown, silty sand with occasional – rare angular – subrounded fine – coarse gravel. Becomes darker and firmer with depth |
| | 4.60 | 9.50 | Superficial | Firm - friable, mid orangish brown, with occasional brownish grey mottling, silty sand with rare lenses of sandy clay. |
| BH01-01 | 9.50 | 13.90 | Superficial | Loose, becoming firmer with depth, mid - light, orangish brown silty gravelly sand with rare lenses of sandy clay. Gravel was angular – subrounded, fine – coarse flint. |
| | 13.90 | 15.30 | Superficial | Mid brownish grey becoming mid whitish grey with depth. Very dense slightly silty sandy gravel with rare cobbles. Gravel comprised of angular – subangular, fine – coarse flint and chalk lithorelicts. |
| | 15 | .30+ | Bedrock | Chalk |
| | | | | |
| | 0.00 | 0.20 | Topsoil | Friable, mid -dark brown, slightly silty clayey sand. Occasional gravel comprising angular to subrounded, fine to coarse flint and quartzite. |
| | 0.20 | 0.40 | Subsoil | Friable – firm becoming more cohesive with depth, gravelly clayey sand. Gravel was angular – subrounded, fine to coarse, flint. |
| | 0.40 | 1.10 | Organic alluvium/ peat | Soft, pliable, dark blackish brown, slightly sandy, silty organic peaty clay. Visible fragments of plant macrofossils including sedges. |
| BH06-15 | 1.10 | 3.60 | Organic Alluvium/ alluvium | Friable – loose, dark brownish grey, slightly clayey, coarse gravelly sand with occasional pockets/ fragments of organic clay/ peat. Transitions to gravelly sand below c.2.00m with no organics. |
| | 3.60 | 5.50 | Superficial | Firm – stiff, dark mid-fine sandy gravelly clay. Gravel comprised of angular – subangular, fine – coarse flint and chalk lithorelicts. |
| | 5.50 | 7.50 | Superficial | Moderately dense, dark grey, very gravelly silty sand. Gravel was angular – subrounded, fine – coarse flint and chalk. |
| | 7. | 50+ | Bedrock | Chalk |

| Borehole Ref | Top (m) | Base (m) | Lithology | Description |
|-----------------|---------|----------|-------------|---|
| | 0.00 | 0.20 | Topsoil | Friable, mid – dark brown clayey, fine - mid sand with occasional rounded – subangular flint gravel |
| | 0.20 | 0.40 | Subsoil | Firm – friable, dark brown, fine – mid sandy clay with occasional subangular – rounded flint gravel |
| | 0.40 | 3.60 | Superficial | Loose, becoming denser with depth, mid – light orangish brown, slightly silty, fine – coarse, becoming coarser with depth, sandy gravel. Gravel was angular to subrounded fine to coarse flint and quartzite. |
| BH06-16 | 3.60 | 5.30 | Superficial | Dense but friable, becoming very dense with depth, light – mid, orangish brown, gravelly silty sand. Gravel was angular – subrounded, fine – coarse flint. |
| | 5.30 | 6.40 | Superficial | Dense, friable – loose, light – mid, orangish brown, sand and gravel. Gravel of angular – subrounded, fine – coarse flint and quartzite. |
| | 6.40 | 8.50 | Superficial | Firm/ stiff, dark grey sandy clay with occasional angular – subrounded, fine – coarse chalk and flint gravel. |
| | 8.50 | 11.00 | Superficial | Dense, dark grey silty gravelly sand. Gravel of angular – subangular, fine – coarse flint. |
| | 11 | .00+ | Bedrock | Chalk |
| | ſ | | | |
| | 0.00 | 0.40 | Topsoil | Friable, mid brown, silty sand with occasional – rare subangular to subrounded quartzite and flint gravel. |
| | 0.40 | 1.00 | Alluvium | Soft, pliable, becoming firmer, mid grey, sandy clay with occasional subangular – subrounded, fine – coarse flint and quartzite gravel. |
| BH09-24 | 1.00 | 4.70 | Superficial | Moderately dense, becoming denser with depth, mid – dark grey, slightly silty, mid – coarse sand and gravel with rare subangular flint cobbles. Gravel was angular – subrounded, fine – coarse flint and quartzite gravel. |
| | 4. | 70+ | Bedrock | Chalk |
| | | | | |
| BH09-25 | 0.00 | 0.90 | Topsoil | Friable, dark brown, clayey fine – mid sand with angular – subrounded, fine – coarse flint and quartzite gravel. |

| Borehole Ref | Top (m) | Base (m) | Lithology | Description | | |
|-----------------|---------|----------|---|---|--|--|
| | 0.90 | 9.20 | Superficial | Dark grey very sandy gravel. Gravel was angular – subrounded, fine – coarse flint and quartzite. | | |
| | 9.20 | 10.00 | Pleistocene (?) Peat/organic alluvium | Very soft dark brown silty fibrous peat with occasional (up to 30mm in size) of very soft dark brown clay. | | |
| | 10.00 | 15.45+ | Pleistocene(?) organic alluvium? | Soft, becoming denser with depth, mid greyish brown, organic sandy clay with occasional shell fragments (up to 5mm in size). | | |
| | | | | | | |
| | 0.00 | 0.30 | Topsoil | Friable, mid-dark brown, sandy silt with rare angular to subrounded, fine to coarse flint and quartzite gravel. | | |
| | 0.30 | 1.20 | Alluvium | Firm, pliable, light – mid brownish grey sandy clay with occasional – frequent angular – subrounded gravel of fine – coarse flint. | | |
| BH09-26 | 1.20 | 5.30 | Superficial | Moderately dense, dark grey, clayey sandy gravel. Gravel of angular – rounded, fine – coarse flint, quartzite and chalk. | | |
| | 5.30 | 7.00 | Superficial | Stiff, dark grey slightly sandy clay with occasional gravel of angular – subrounded, fine to coarse flint, quartzite and chalk. Occasional shell fragments. | | |
| | 7. | .00+ | Bedrock | Chalk | | |
| | | | | | | |
| | 0.00 | 0.30 | Topsoil | Friable, mid-dark brown, sandy silt with rare angular to subrounded, fine to coarse flint and quartzite gravel. | | |
| BH09-27 | 0.30 | 1.00 | Superficial | Friable, mid brown sand with rare - occasional angular to subrounded, fine to coarse flint gravel. | | |
| | 1.00 | 1.30 | Superficial | Friable, dark grey, sand | | |
| | 1.30 | 3.60 | Superficial | Pliable – firm, dark grey, sandy clay with occasional – frequent with rare - occasional angular to subrounded, fine to coarse flint gravel. | | |
| | 3. | 60+ | Bedrock | Chalk | | |
| | | | | | | |

| Borehole Ref | Top (m) | Base (m) | Lithology | Description | | | |
|-----------------|---------|----------|-------------|---|--|--|--|
| | 0.00 | 0.30 | Topsoil | Friable, dark – mid brown gravelly clayey sand with frequent subangular – subrounded, fine – coarse flint and chalk gravel and rare subangular flint cobbles. | | | |
| | 0.30 | 1.20 | Superficial | Friable – loose, mid – dark brown, clayey gravelly sand. Gravel was angular – subangular, fine – coarse flint and chalk. | | | |
| | 1.20 | 2.30 | Superficial | Loose, light brown, clayey gravelly sand. Gravel was angular – subangular, fine – coarse flint and chalk. | | | |
| | 2.30 | 3.00 | Superficial | Pliable, light brown sandy gravelly clay with occasional subrounded flint and chalk cobbles. Gravel was angular – subangular, fine – coarse flint and chalk. | | | |
| | 3.00 | 4.50 | Superficial | Friable – loose, light - mid greyish brown silty sand. | | | |
| | 4.50 | 9.40 | Superficial | Friable – firm, light brown, becoming grey with depth gravelly sand with occasional subrounded flint and chalk cobbles. Gravel was angular – subangular, fine – coarse flint and chalk. | | | |
| BH14-42 | 9.40 | 9.70 | Superficial | Pliable, light grey, sandy gravelly clay. Gravel was subrounded – subangular, fine – coarse flint and chalk. | | | |
| | 9.70 | 13.70 | Superficial | Moderately firm, light grey gravelly sand becoming sand and gravel with depth. Gravel was angular – subangular, fine – coarse flint and chalk. | | | |
| | 13.70 | 14.00 | Superficial | Stiff - firm, light grey, sandy gravelly clay with occasional subangular flint cobbles. Gravel was subrounded – subangular, fine – coarse flint and chalk. | | | |
| | 14.00 | 15.50 | Superficial | Moderately dense, light – mid grey gravelly sand with frequent angular – subangular flint and chalk cobbles. Gravel was angular – subangular, fine – coarse flint and chalk | | | |
| | 15.50 | 17.00 | Superficial | Moderately dense, dark grey sandy gravel with frequent subangular – angular flint and chalk cobbles. Gravel was angular – subangular, fine – coarse flint and chalk. | | | |
| | 17 | .00+ | Bedrock | Chalk | | | |
| | | | | | | | |

| Borehole Ref | Top (m) | Base (m) | Lithology | Description |
|-----------------|---------|----------|-------------|--|
| | 0.00 | 0.30 | Topsoil | Friable, dark – mid brown, clayey gravelly sand with occasional subangular flint cobbles. Gravel was subrounded – subangular, fine – coarse flint. |
| | 0.30 | 3.20 | Superficial | Friable, becoming denser with depth, light – mid orangish brown gravelly sand with occasional subangular flint cobbles. Gravel was subrounded – subangular, fine – coarse flint. |
| | 3.20 | 4.10 | Superficial | Loose, light orangish brown sand and gravel with occasional angular - subangular flint cobbles. Gravel was angular – subangular, fine – coarse flint. |
| | 4.10 | 6.30 | Superficial | Firm, dark grey sandy gravelly clay. Gravel was subrounded – subangular, fine – coarse flint and chalk. |
| BH16-46 | 6.30 | 7.80 | Superficial | Moderately dense, light grey, gravelly clayey sand with occasional angular flint cobbles. Gravel was subrounded – subangular, fine – coarse flint and chalk. |
| | 7.80 | 9.10 | Superficial | Moderately dense, mid grey sandy gravel with frequent subangular flint cobbles. Gravel was subrounded – subangular, fine – coarse flint and chalk. |
| | 9.10 | 9.20 | Superficial | Firm, mid – dark grey silty sand with frequent subrounded – subangular, fine – coarse flint and chalk gravel. |
| | 9.20 | 15.20 | Superficial | Stiff, dark grey sandy gravelly clay with occasional subangular flint and chalk cobbles. Gravel was subrounded – subangular, fine – coarse flint and chalk. |
| | 15.20 | 18.00+ | Superficial | Firm - friable, grey gravelly sand. Gravel was subrounded – subangular, fine – coarse flint and chalk. |
| | | | | |
| | 0.00 | 0.20 | Topsoil | Pliable, dark brown, sandy gravelly clay. Gravel was subrounded – subangular, fine – coarse flint and chalk. |
| BH16-47 | 0.20 | 0.90 | Alluvium | Friable, dark brown, gravelly sand. Gravel was angular – subrounded, fine – coarse flint. |
| | 0.90 | 5.90 | Superficial | Moderately dense, mid orangish greyish brown, sandy clayey gravel with rare subangular flint cobbles. Gravel was angular – subrounded, fine – coarse flint. |

| Borehole Ref | Top (m) | Base (m) | Lithology | Description |
|-----------------|---------|----------|-------------|--|
| | 5.90 | 10.10 | Superficial | Dense, mid grey, sand and gravel becoming clayey with depth. Gravel was angular – subrounded, fine – coarse flint and chalk. |
| | 10.10 | 18.45+ | Superficial | Stiff, mid grey, sandy gravelly clay. Gravel was subangular – subrounded, fine – coarse chalk and flint. |
| | | | | |
| | 0.00 | 0.40 | Topsoil | Pliable – friable, dark brown, sandy silt with frequent angular – subangular flint cobbles and angular – subangular, fine - coarse flint gravel. |
| | 0.40 | 1.20 | Alluvium | Friable, dark – mid brown, silty sand with occasional - frequent subangular flint cobbles and angular – subangular, fine – coarse flint gravel. |
| BH17-48 | 1.20 | 4.70 | Superficial | Moderately dense, mid - dark orangish brown, sand and gravel with frequent angular – subangular flint cobbles. Gravel was angular – subangular, fine to coarse flint. |
| | 4.70 | 4.80 | Superficial | Firm – stiff, dark sandy clay. |
| | 4.80 | 9.70 | Superficial | Firm, light grey, gravelly sandy clay. Gravel was subangular – subangular, fine to coarse flint and chalk. |
| | 9.70 | 15.20 | Superficial | Pliable – firm becoming firmer with depth, light grey, sandy gravelly clay with occasional subangular – subrounded chalk and frequent flint gravel and rare angular chalk and flint cobbles. |
| | | | | |
| | 0.00 | 0.40 | Topsoil | Mid brown, clayey sand with frequent subangular – subrounded, fine – coarse flint gravel. |
| | 0.40 | 0.90 | Alluvium | Friable – pliable, light greyish brown clayey sand with frequent subangular – subrounded, fine – coarse flint gravel |
| BH17-49 | 0.90 | 1.80 | Superficial | Firm – pliable, light orangish brown, sandy clay with frequent subrounded, fine – coarse flint gravel |
| | 2.20 | 4.70 | Superficial | Moderately dense, mid grey, clayey sand with frequent subangular – subrounded, fine – coarse flint gravel |
| | 4.70 | 12.60 | Superficial | Firm – stiff, mid grey, slightly sandy clay |

| Borehole Ref | Top (m) | Base (m) | Lithology | Description |
|-----------------|---------|----------|-------------|--|
| | 12.60 | 18.00+ | Superficial | Stiff, mid grey, sandy gravelly clay. Gravel was subrounded – rounded, fine – medium glint and chalk. |
| | | | | |
| | 0.00 | 0.40 | Topsoil | Mid brown, clayey sand with frequent subangular – subrounded, fine – coarse flint gravel and occasional subangular flint cobbles. |
| | 0.40 | 3.10 | Superficial | Firm – pliable, mid orangish brown, sandy clay with occasional - frequent subangular – subrounded, fine – coarse flint gravel |
| | 3.10 | 4.20 | Superficial | Firm – pliable, light orangish brown, sandy clay with occasional - frequent subangular – subrounded, fine – coarse flint gravel. |
| BH17-50 | 4.20 | 6.20 | Superficial | Moderately dense, mid orangish brown, sandy gravel of subangular – subrounded fine – coarse flint with occasional subrounded flint cobbles |
| | 6.20 | 8.20 | Superficial | Firm – stiff, mid orangish brown sandy gravelly clay. Gravel was angular – subangular, fine – coarse chalk and flint. |
| | 8.20 | 15.00+ | Superficial | Firm, becoming firmer with depth, light – mid grey, sandy gravelly clay. Gravel was angular – subangular, fine chalk and flint. |
| | | | | |
| | 0.00 | 0.40 | Topsoil | Firm but friable, mid brown clayey sand. |
| | 0.40 | 1.80 | Superficial | Firm but friable, mid brown, clayey gravelly sand. Gravel was subangular – subrounded, fine – coarse flint. |
| BH20-59 | 1.80 | 3.60 | Superficial | Stiff, mid-dark orangish brown, sandy gravelly silt. Gravel was subangular – subrounded, fine – coarse flint. |
| D1120-39 | 3.60 | 5.00 | Superficial | Moderately dense, occasionally loose, mid grey, mid – coarse sandy gravel. Gravel was subangular – subrounded, fine – coarse flint. |
| | 5.00 | 6.40 | Superficial | Stiff, mid brown, sandy gravelly clay. Gravel was subangular – subrounded, fine – coarse flint. |
| | 6.40 | 15.45+ | Bedrock | Chalk |
| | | | | |
| BH20-60 | 0.00 | 0.50 | Topsoil | Firm but friable, dark - mid brown, gravelly silty sand. Gravel was subangular – subrounded, fine – coarse flint. |

| Borehole Ref | Top (m) | Base (m) | Lithology | Description |
|-----------------|---------|----------|-------------|--|
| | 0.50 | 1.20 | Superficial | Firm but friable, light – mid brown, gravelly sand. Gravel was subangular – subrounded, fine – coarse flint. |
| | 1.20 | 1.60 | Superficial | Stiff, mid-dark orangish brown, sandy gravelly silt. Gravel was subangular – subrounded, fine – coarse flint. |
| | 1.60 | 3.30 | Superficial | Moderately dense, occasionally loose, mid orangish brown, gravelly coarse sand with frequent subrounded – angular flint cobbles. Gravel was angular – subrounded, fine – coarse flint. |
| | 3.30 | 15.45+ | Bedrock | Chalk |



Appendix 4 Geotechnics Cable Percussion Borehole Logs

DATA SHEET - Symbols and Abbreviations used on Records

| - | A SHEET – Symbols an e Types | Groundwater | | Strata, Continued | G |
|-------------|---|---|---------------------|---|---|
| | | | $\overline{\nabla}$ | | |
| В | Bulk disturbed sample | Water Strike | Y | Mudstone | |
| BLK | Block sample | Depth Water Rose To | Y | | |
| C | Core sample | Instrumentation | | Siltstone | * * * * * * |
| D | Small disturbed sample (tub/jar) | Instrumentation | | | × × × × × × × × × × × × × × × |
| Е | Environmental test sample | | 55 | Metamorphic Rock | x x x x x |
| ES | Environmental soil sample | Seal | | Fine Grained | ****** |
| EW | Environmental water | | 22 | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| C | sample | | | Medium Grained | $\sim\sim$ |
| G L | Gas sample | | - | | <u> </u> |
| LB | Liner sample | Filter | • | Coarse Grained | \sim |
| Р | Large bulk disturbed sample Piston sample (PF - failed P | | | | \sim |
| r | sample) | | | Igneous Rock | V V V V V |
| ΤW | Thin walled push in sample | | 55 | Fine Grained | |
| U | Open Tube - 102mm | Seal | 22 | | ++++ |
| | diameter with blows to take sample. (UF - failed U | | | Medium Grained | ++++ |
| | sample) | | | | + + + + |
| UT | Thin wall open drive tube sampler - 102mm diameter | Strata | Legend | Coarse Grained | |
| | with blows to take sample. | Made Ground | | Backfill Materials | **** |
| V | (UTF - failed UT sample) Vial sample | Granular | | Backini Materiais | ×1 |
| Ŵ | Water sample | Made Ground | | Arisings | 8 |
| # | Sample Not Recovered | Cohesive | | Alisings | |
| | • | | | | Ň |
| Insitu | Testing / Properties | Topsoil | | Bentonite Seal | |
| CBRP | CBR using TRL probe | | <u> </u> | | , |
| CHP | Constant Head Permeability Test | Cobbles and Boulders | | Concrete | • |
| COND | Electrical conductivity | | 20(| Concrete | • |
| ТС | Thermal Conductivity | Gravel | • • • | | <u></u> |
| TR | Thermal Resistivity | | * • • • | Fine Gravel Filter | |
| HV ICBR | Strength from Hand Vane CBR Test | Sand | | | - |
| IDEN | Density Test | -w- | | General Fill | |
| IRES | Resistivity Test | | <u> </u> | General Fill | |
| MEX | CBR using Mexecone Probe Test | Silt | ××× | | :-] |
| PID | Photo Ionisation Detection | | × | Gravel Filter | [.] |
| | (ppm) | Clay | <u> </u> | | |
| PKR PLT | Packer Permeability Test Plate Load Test | Clay | | C | |
| PP | Strength from Pocket | | | Grout | |
| | Penetrometer | Peat | AVZ. | | 0.00 |
| Temp VHP | Temperature Variable Head Permeability | i out | NIZ. | Sand Filter | |
| V LLL | Variable Head Permeability Test | | NZ. | | 0 - C |
| VN | Strength from Insitu Vane | Noto Composite 11 te | show- | - . | |
| w% | Water content | Note: Composite soil types by combined symbols | snown | Tarmacadam | |
| undrain | her strengths from ed triaxial testing) | Chalk | | | |
| S | Standard Penetration Test | Chaix | | Rotary Core | |
| С | (SPT) SPT with cone | | | RQD Rock Quality D (% of intact core | |
| N | SPT Result | Limestone | | FRACTURE INDEX | , |
| -/- | Blows/penetration (mm) | | | Fractures/metre FRACTURE Maximum | 9 |
| _*/_ | after seating drive Total blows/penetration | Sandator - | | SPACING (m) Minimum | |
| (mm) | i otai biows/peneti ation | Sandstone | | NA Non-applica NI Non-intact | |
| () | Extrapolated value | | | NR No core re | covery |
| | | Coal | | AZCL Assumed zo loss | one of core |
| | | | | (where core recovery is unkno | |
| | | | | assumed to be at the base of th | ie run) |

GeoTechnics

Project EQUINOR FEED PHASE 1 INVESTIGATIONS Engineer Borehole BH1-01 J MURPHY & SONS LIMITED Project No PC218256 610817.342E 343679.202N National Grid Client Ground Level 9.07 m OD J MURPHY & SONS LIMITED Coordinates Strata Sampling Properties Scale 1:50 Depth Cased & Sample Strength w SPT N Level Depth Description Depth Leaend Туре (to Water) kPa % m OD 9.07 G.L. TOPSOIL: Dark brown gravelly slightly clayey sand with occasional rootlets. Gravel is angular to subrounded fine to coarse flint. 0.10- 0.30 B D 0.20 ES 0.30 8.77 ×' 0.50- 1.00 в Yellowish brown slightly gravelly silty SAND. Gravel is angular to subrounded fine to coarse flint. 0.80 D Below 1.20m, becomes brown. 1.20- 1.65 D 1.20 s4 (DRY) 1.50- 2.20 в 2.00 D Below 2.20m, becomes medium dense. 2.20- 2.65 D S20 1.50 (DRY) 2.50- 3.20 в 3.00 D 3.50- 3.95 S28 E D 3.00 (3.20) 4.00- 4.50 в × 4.20 D S11 4.50- 4.95 D 4.50 (3.20) 4.47 4.60 Medium dense orangish brown mottled brownish grey silty SAND with occasional pockets (up to 50mm in size) of slightly sandy clay. 5.00- 5.50 в 5.20 D 5.50- 5.95 D 5.50 **S10** (4.60) 6.00- 6.50 в 6.20 D 6.50- 6.95 6.00 s15 D (4.80)7.00- 7.50 в 7.30 D 7.50- 7.95 s7 D 7.50 Below 7.50m, becomes loose. (6.00) 8.00- 8.50 в Below 8.20m, mottling absent. 8.20 D **S**8 8.50- 8.95 8.50 D (7.10) 9.00- 9.50 в 9.20 D 9.50- 9.95 D 9.50 **S**1 9.50 -0.43 Very loose grey slightly gravelly very silty SAND with rare pockets (up to 100mm in size) of grey slightly sandy clay. Gravel is angular to (8.20) 10.00-10.50 B subrounded fine to coarse flint. Boring Progress Groundwater Iole Denth Depth Depth to Depth Depth Denth Remarks on Depth Crew Date Time Rose to Technique Water Mins Sealed Dia of Hole Cased Struck Cased Groundwater 20 Inspection Pit 01/09/21 08:00 Moderate inflow. 1.20 MR/SS G.L 14.20 14.00 11.00 12.50 12.50 12.50 12.50 9.20 01/09/21 DRY 02/09/21 25.45 0.20 Cable Percussion MR/SS 9.20 18:00 08:00 12.10 02/09/21 11.60 06/09/21 20.50 20.00 18:00 20.50 20.00 08:00 00 .00 .40 06/09/21 :00 Inspection pit hand excavated to 1.20m depth and no services were found. Es sample = 2 x vial, 1 x plastic jar and 2 amber jar. Water was added to assist boring between 1.20 and 15.00m. Backfill details from base of hole: bentonite grout up to ground level. Remarks Logged by Checked by DRB 1 of 3 Symbols and Figure abbreviations are 19/11/2021 explained on the accompanying

ezimbelogo

All dimensions Logged in accordance with BS5930:2015 + A1:2020 are in metres.

key sheet.

| | | | | | | | | ercus | ssion | | | | | | | | |
|--|-------------------------------|--------------------------|--------------------------------|-----------------|-----------|------------------|--------------------|----------------------|--|------------------------------|------------------------------|-------------------------------|--------------------------|-------------------|-----------------|--|----------------------|
| Project | EQUIN | IOR FEEI | PHASE | 1 INVE | STIGAT | IONS | Engine | er | J MURPHY | ζ& SON | S LIMI | TED | | Boreho Project | ole No | BH1-01 PC218256 | |
| Client | J MUF | RPHY & S | SONS LIN | MITED | | | Nationa Coordir | al Grid nates | 610817.3 343679.2 | | | | | Ground | Level | 9.07 m | OD |
| Sampl | | | | Prope | rties | | Strata | а | | | | | | | | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 10.20 10.30 10.50- | -10.95 | - D - D - D - D | 10.50 (8.30) | | | S0/450 | | | | | | | | | | | V / / / / / |
| 11.00- 11.00- 11.20 11.50- | -14.20 | - B - W - D | 11.50 | | | S10 | Below | w 11.501 | n, become | as medi | um den | Se . | | | | | |
| | | | (9.00) | | | | | | -, | | | | | | | 0 × . | |
| 12.00- | -12.50 | в | | | | | | | | | | | | | F | •× | |
| 12.20 | | D | | | | | | | | | | | | | È | 0. ×. | |
| 12.50- | -12.95 | _ D | 12.50 (9.20) | | | S15 | | | | | | | | | - - - | × | |
| 13.00- | -13.90 | В | | | | | | | | | | | | | | 0. X 4. X 5. X 0. X | |
| 13.60 | | - - D | | | | | | | | | | | | | | | |
| 14.00- | -14.35 | р | 14.00 (DRY) | | | \$50/ 200 | Grave | el is ar | rey very cobble co | y sandy ontent o suban | slight of suba gular : | tly sil angular fine to | ty GRA flint coars | VEL • e | _ 13.9 | 0 V V V V V V V V V V V V V | -4.83 |
| 14.50- | -15.00 | в | | | | | | t and ch | | | - | | | | + - - | · · · · · · | |
| 14.80 | | - - | | | | | | | | | | | | | | × · · · | |
| 15.50- | | - - - - | 15.50 (14.60) |) | | S 17 | GRAVE white | EL. Clas e with f | vered as sts are v frequent to subrou | /ery we black | ak low specks | densit . Occas | y, creational | amish | 15.3 | 0 | -6.23 |
| | -16.50 | - | | | | | | | | | | | | | F | | |
| 16.20 16.50 | | - D | 16.50 | | 24 25 | | | | | | | | | | | | |
| | | | (12.60) | | | | | | | | | | | | - | | |
| 16.95- | -17.10 | - D | | | | | | | | | | | | | <u>-</u> - | | |
| 17.50- | -17.95 | D | 17.50 (12.60) | þ | | S 11 | | | | | | | | | | | |
| 18.00- | -19.00 | _ в | | | | | | | | | | | | | - - - | | |
| 18.50 | | D | | | | | | | | | | | | | Ē | | |
| 19.00- | -19.45 | | 19.00 (12.20) | 304 | 24 | | | | | | | | | | | | |
| 19.45- | -19.60 | Ð | | | | | | | | | | | | | | | |
| | | <u> </u> | | | | | | | | | | | | | <u>+</u> | | |
| Boring | , | | | | | Progr | | | | 1 | | ndwate | r | | | | |
| Depth | Hole Dia | | Techniqu | e | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | arks on adwater |
| | | | | | | | | | | | | | | | | | |
| Remar | | | | | | | | | | | | | | | Ch | ecked by | AS DRB |
| Symbols a abbreviati explained accompar | ions are l on the nying | | | | | | | | | | | | | | | | 2 of 3 19/11/2021 |
| key sheet All dimens are in met | sions | Logged in | accordance | e with BS59 | 30.2015 - | + A1·2020 | | | | | | | | | ٤ | jeolee | |

| BOREH | IOLE | REC | ORL |) - | Cab | ole Pe | ercus | ssion | | | | | | | | |
|---|---|--|-----------------|----------|------------|--------------------|----------------|----------------------|--------------|---------|----------------|---------|-------------------|--------------|-------------------------|-----------------------------|
| Project EQUI | NOR FEEI |) PHASE | 1 INVE | STIGAT | IONS | Enginee | er | J MURPHY | C& SONS | S LIMI | red | | Boreho Project | le E No ₽ | H1-01 C218256 | |
| Client J MU | RPHY & S | SONS LIM | IITED | | | Nationa Coordin | l Grid ates | 610817.3 343679.3 | 342E 202N | | | | Ground | Level g | .07 m | OD |
| Sampling | | | Prope | rties | | Strata | | | | | | | | | Scale ? | 1:50 |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 20.50-21.50 20.50-20.95 21.00 21.50 21.95-22.10 22.50-22.95 23.00-24.00 23.50 24.00 24.45-24.60 25.00-25.45 | _ D _ UT27 _ D _ D _ D _ D _ D _ D _ D _ D | 20.00 (12.10) 20.00 (11.60) 20.00 (11.50) 20.00 (11.40) 20.00 (11.40) | 173 | 28 | s16 s10 | absen | | | nd of Bo | prehole | dwate | Γ | | 25.45 | | -16.38 |
| Depth Dia | | Technique | e | Crew | of Hole | Cased | Water | Date | Time | Struck | Depth Cased | Rose to | Mins | Sealed | | ndwater |
| | | | | | | | | | | | | | | | | |
| Remarks | | | | <u> </u> | | ļļ | | <u> </u> | <u> </u> | | | ļ | ļ | Log | ged by ecked by | AS |
| Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres. | | accordance | | 30.3045 | Δ1·2020 | | | | | | | | | Figu | | DRB 3 of 3 19/11/2021 |

Project EQUINOR FEED PHASE 1 INVESTIGATIONS Engineer Borehole **BH2-02** J MURPHY & SONS LIMITED Project No PC218256 National Grid 610729.071E Client 342973.289 N Ground Level 23.90 m OD J MURPHY & SONS LIMITED Coordinates Strata Sampling Properties Scale 1:50 Depth Cased & Sample Strength w SPT N Level Depth Description Depth Leaend Туре (to Water) kPa % m OD 23.90 G.L. TOPSOIL: Dark brown gravelly clayey sand with many rootlets. Gravel is angular to subrounded fine to coarse flint and quartzite. 0.10- 0.40 B D 0.20 ES 0.40 23.50 0.40- 0.70 B D Yellowish brown gravelly clayey SAND with rare rootlets. Gravel is angular to subrounded fine to coarse flint. 0.50 0.50 0.70- 1.20 ES 0.70 23.20 в 1.00 D Stiff yellowish brown slightly gravelly slightly sandy to sandy SILT. Gravel is angular to subrounded fine to coarse flint and chalk. 1.00 ES 1.20- 2.20 1.20- 1.65 в 1.20 S28 D (DRY) At 1.20m, medium dense. 2.00 D 2.20- 2.65 D s33 1.50 (DRY) 2.50- 3.50 в 3.00 D 20.40 3.50- 4.50 3.50- 3.95 в 3.50 р 1.50 S23 Stiff light brown mottled cream sandy SILT. (DRY) 4.00 D 25 4.50- 5.50 в ×۷ 4.50- 4.95 S18 D 1.50 (DRY) 5.00 D 5.50- 6.50 5.50- 5.95 в 5.50 18.40 Stiff light brown mottled grey slightly gravelly sandy SILT. Gravel is angular to subrounded fine to medium chalk. D 1.50 s21 (DRY) 6.00 D 6.50- 6.95 UT26 4.50 27 72 (DRY) 6.95- 7.10 D 7.50- 7.95 D 4.50 24 s25 (DRY) 7.90 16.00 8.00- 9.00 Stiff grey mottled orangish brown slightly sandy в SILT slightly gravelly in parts. Gravel is angular to subrounded fine to coarse chalk. 8.50 D 9.00- 9.45 UT31 9.00 19 Below 9.00m, becoming very stiff. 115 (DRY) 9.45- 9.60 D 23 10.00 D 10.00-10.45 s34 Boring Progress Groundwater IOLE Denth Depth)enth to Denth Depth Denth Remarks on Depth Crew Date Time Rose to Technique Water Mins Sealed Groundwater Dia of Hole Cased Struck Cased Inspection Pit 06/09/21 08:00 Soil noted as 1.20 MR/SS G.L 4.50 1.20 06/09/21 07/09/21 damp. Moderate inflow. 15.45 0.15 Cable Percussion MR/SS 1.20 DRY 18:00 1.20 DRY 08:00 12.30 9.50 10.80 20 15.45 12.50 13.50 07/09/21 18:00 Inspection pit hand excavated to 1.20m depth and no services were found. Es sample = 2 x vial, 1 x plastic jar and 2 amber jar. Backfill details from base of hole: bentonite grout up to ground level. Remarks Logged by Checked by AS DRB 1 of 2 Symbols and Figure abbreviations are 19/11/2021 explained on the accompanying geolecimies key sheet.

All dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020

| Project EQUI | | | | | | Engine | | J MURPHY | & SON | S LIMI | FED | | Boreho Project | ole No | BH2-02 PC218256 | |
|---|--|---|----------|-------|---------|-------------------|----------|------------------------|-------|--------------|----------------|---------|-------------------|-----------------|---|---------------------|
| Client , MII | | | | | | Nationa | al Grid | 610729.0 342973.2 | 71E | | | | - | | | . 00 |
| Sampling | RDHX & S | SONS LIM | Prope | rties | | Coordir Strata | | 342973.2 | 8911 | | | | Ground | Levei | 23.90 n Scale | |
| Depth | Sample | Depth Cased & (to Water) | | w | SPT N | Descrip | otion | | | | | | | Depth | | Level |
| 10.70-11.40 10.80-12.30 11.00 11.40-11.85 11.85-12.00 12.50-12.95 13.00-14.00 13.50 14.00-14.45 14.45-14.60 15.00-15.45 | - B - W - D - D - D - D - D - D - D - D - D - D | (to Water) 9.00 (DRY) 9.50 (DRY) 9.50 (10.80) 12.50 (12.40) 12.50 (13.50) | | % | 532 | | | grey slig to subrot | | andy Sihalk. | | avel is | | 10.7 | 70 X (x | 13.20 |
| Doring | F | | | | | | | | | (°**** | duce | - | | F | | |
| Boring Depth Dia | | Technique | 0 | Crew | Depth | Depth | Depth to | Date | Time | Depth | Depth Cased | Rose to | in | Depth | | narks on |
| Deptn Dia | | rechnique | <u> </u> | Clew | of Hole | Cased | Water | Date | Time | Struck | Cased | | Mins | Sealed | Grou | undwater |
| Remarks | | | | ļ | | | | <u> </u> | | | | | | La Ch Fir | ngged by necked by gure | AS DRB 2 of 2 |
| abbreviations are explained on the accompanying | | | | | | | | | | | | | | | | 19/11/2021 |

| lient _{J MU} | | | | | | | | | | | Project | NO P | 2218256 | |
|--|-----------------------------|---------------------------------|--------------------------------|------------------------------|---------------------------|---|---|------------------------------------|--------------------|---------|------------|-----------------------|---|--------------------------------|
| a mage line | RPHY & S | SONS LIN | | | | National Grid Coordinates | 610681.448E 342894.648N | | | | Ground | Level 2 | 5.91 m | |
| Sampling | Sample | Depth Cased & | Prope Strength | | CDT N | Strata | | | | | | | Scale 1: | |
| Depth | Туре | Cased & (to Water) | | % | SPT N | Description | | | | | | Depth | Legend | Level m OD |
| 0.10- 0.30 0.20 0.20 0.50- 1.00 | D ES | | | | | occasional subangular fine to coa | rk brown grave rootlets and a flint. Gravel : rse flint and o , rootlets abso | low cobb is angula quartzite | ole com ar to a | ntent o | | G.L. | | 25. |
| 0.80 0.90 | D ES | | | | | | silty SAND with flint and rare | | | | of | 0.80 1.10 | | 25.1 24.8 |
| 1.20- 2.00 1.20- 1.65 1.30 | D ES | 1.20 (DRY) | | | S10 | sandy SILT | ish brown mott slightly grave subrounded fine | lly in pa | arts. | Gravel | is | | × • × • × • × • × • × • × • × • × • × • | |
| 1.80 2.20- 2.65 | | 1.50 | | 18 | s19 | Below 2.20m | , becoming stir | ff. | | | | | × × × × × × × × × × × × | |
| 2.50- 3.20 | E | (DRY) | | | 519 | | | | | | | | × * * * * * * * * * * * * * * * * * * * | |
| 2.80 3.20- 3.65 | D | 1.50 | 151 | 21 | | | | | | | | | x | |
| | Ē | (DRY) | 151 | 21 | | | | \mathbf{N} | | | | | X X X X X X X X X X X X X X X X X X X | |
| 3.65- 3.80 | | | | | | | | | | | | | × • × • × • × • × • × • × • × • × • × • | |
| 4.50- 4.95 | - - D | 1.50 (DRY) | | | S15 | ~ | X | | | | | | × * * * × × × × × × × × × × × × × × × × | |
| 5.00- 5.50 | В | | | | | | | | | | | - | × × × × × × × × × × × × × × × × × × × | |
| 5.30 5.50- 5.95 | D UT27 | 3.00 (DRY) | | 22 | | | | | | | | | × × × × × × × × × × × × × × × × × × × | |
| 5.95- 6.10 | D | | | | X | | | | | | | | × · · × × · × × × · × × · × · × · × × · × × × · × | |
| 6.50- 6.95 | D | 3.00 (DRY) | K | | 534 | | | | | | | - - - - 6.90 | X X X X X X X X X X X X X X X X X X X | 19.0 |
| 7.00- 7.50 7.20 | В D | | | | | gravelly SI | light brown sl: LT. Gravel is s ium chalk and s | subangula | | | | | | 19.0 |
| 7.50- 7.95 | UT40 | 6.00 (7.40) | 245 | 19 | | Below 7.50m | , becoming very | y stiff. | | | | | $\underbrace{V}_{\substack{\circ} \circ $ | |
| 7.95- 8.10 | D | | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| 8.50- 8.89 8.70-11.10 | F | 8.50 (DRY) | | | s50/ 235 | | | | | | | - | | |
| 9.00- 9.80 | в | | | | | Below 9.00m | , becoming sand | dy and sl | Lightl | y grave | 11y. | Į Į | | |
| 9.50 | D | | | 15 | | | | | | | | | | |
| 9.80-10.25 | UT56 | 9.50 (DRY) | | | Drogr | | | Groups | | r | | + | | |
| Boring Depth Dia | | Techniqu | e | Crew | Depth of Hole | Depth Depth to | Date Time | | Depth | Rose to | in Minc | Depth | Remar | |
| 1.20 | | tion Pit | : | MR/SS MR/SS | G.L. 14.00 14.00 | 11.00 13.80 11.00 6.60 | 31/08/21 08:00 | 0 7.40 0 11.10 0 | Cased 9.00 | 8.90 | Mins 20 | Sealed | Ground Seepage. Moderate | |
| Remarks Remark | Inspect ES sam Backfi | tion pit ple = 2 11 detai | t hand o x vial ils from | excavat , 1 x p m base | ed to lastic of hol | 1.20m depth a jar and 2 am e: bentonite | nd no services ber jar. grout up to gro | were fou | und. | | | Chế Figu | cked by I re 1 | AS DRB of 2 9/11/2021 |

are in metres. Logged in accordance with BS5930:2015 + A1:2020

| Project _{EQUII} | NOR FEE | D PHASE | 1 INVES | STIGAT | IONS | Enginee | er | J MURPH | Y & SON | S LIMI | red | | Boreho Project | No ₽ | H2-03 | |
|--|----------------------------|--------------------------------|-----------------|--------|------------------|--------------------|-------------------|--------------------|----------------|-----------------|----------------|---|-------------------|--------------------|--|-----------------------------------|
| Client _{சாய} | RPHY & | SONS LIN | MITED | | | Nationa Coordin | l Grid ates | 610681. 342894. | 448 E 648 N | | | | | | 5.91 m | OD |
| Sampling | <u></u> | | Proper | ties | | Strata | | 5120511 | 01011 | | | | orouna | 20101 2 | Scale 1 | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 10.25-10.40 | - D - D | | | | | | | | | | | | | | | |
| 11.00-11.41 | - - D - | 11.00 (DRY) | | | \$50/ 255 | | | | | | | | | | $\mathbf{\nabla}_{\mathbf{a},\mathbf{b},\mathbf{b},\mathbf{c},\mathbf{c},\mathbf{c},\mathbf{c},\mathbf{c},\mathbf{c},\mathbf{c},c$ | |
| 11.50-12.00 | В | | | | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| 11.80 12.00-12.45 | D UT71 - | 11.00 (DRY) | | 19 | | | | | | | | | | | | |
| 13.00-14.00 13.00-13.28 | - - - - - - | 11.00 (DRY) | | | s50/ 140 | | | | | | | | | | | |
| 13.80 14.00-14.27 | - - - - - - | 11.00 (13.80) | þ | | \$45/ 130 | | • | \langle | | | | | | | | |
| 14.80 15.00-15.39 | | 11.00 (6.60) | | | \$50/ 235 | | | | | | | | | 15.39 | | 10.5 |
| | | | | | | 2 | | E | nd of B | orehol | 9 | | | | | |
| | | | \langle | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Boring | <u>-</u> | | | | Progre | ess | | | | Grour | ndwate | r | | - | | |
| Depth Hole Dia | | Techniqu | е | Crew | Depth of Hole | Depth | Depth to Water | Date | Time | Depth Struck | Depth Cased | | in Mins | Depth Sealed | | rks on dwater |
| | | | | _ | | | _ | | | | | | | | | |
| Remarks |] | | | | 1 | <u> </u> | | Ļ | | 1 | <u> </u> | ļ | <u> </u> | Log Che Figu | čked by ire | AS DRB 2 of 2 19/11/2021 |
| explained on the accompanying key sheet. All dimensions | | | e with BS593 | | | | | | | | | | | ſ | | |

| roject _{EQ} | UINC | OR FEEI | D PHASE | 1 INVE | STIGATI | IONS | Enginee | r | J MURPHY | & SON | S LIMI | FED | | Boreh Project | | | 13-04 | |
|---|-----------|--------------------|----------------------|--------------------|------------------|----------------------|----------------------|---------------------|--|------------------|-----------------|---------|---------|------------------|---------------|-------|---|----------------------------|
| | MURI | РНҮ & 2 | SONS LIM | | rtico | | National Coordina | | 612042.1 342084.8 | 47 E 55 N | | | | Ground | l Level | | | OD |
| Sampling | | Sample | Depth Cased & | Prope Strength | | SPT N | Strata | | | | | | | | - | | Scale 1 | :50 Leve |
| Depth | | Туре | (to Water) | kPa | % | | Descript | ion | | | | | | | Dep | .ь. | Legend | m OD |
| 0.10- 0. 0.20 0.20 | | B D ES | | | | | claye | y sand | rk brown with occ subrounde | asiona | l root | lets. 0 | Favel | y is | ŧ | .40 | | 39. |
| 0.50- 1. 0.50 0.80 | 00 | B ES D | | | 17 | | grave | lly SII | ish brown LT. Grave halk and | l is a | | | | d fine | | | × * * * * * * * * * * * * * * * * * * * | |
| | | - | | | | | Below | 1.20m | , becomes | stiff | • | | | | Ē | | * * * * * * * * * * * * * | • |
| 1.20- 1. 1.50- 2. | | D B | 1.20 (DRY) | | | s19 | | | | | | | | | | | · · × · · × × · · × • × · · × × · · × • × • × | • |
| 1.80 | - | D | | | | | | | brown sl L is angu | | | | | | 1 | .80 | 0 X 0 X X 0 X X 0 X X 0 X X 0 X X 0 X X 0 X | 38. |
| 2.20- 2. | | D | 1.50 (DRY) | | | S17 | | | and cha | | Subro | inded 1 | line co | | F F | | × • × • × • × • × • × • × • × • × • × • | |
| 2.50- 3. | 20 | _ В | | | | | | | | | | | | | F | | × × × × × × × × × × × × × × × × × × × | |
| 3.00 | | D | | | 25 | | | | | | | | | | E_ | | • × • × × • × 4 • × • × | |
| 3.20- 3. | 65 | UT17 | 3.00 (DRY) | | 23 | | | | | | | | | | Ē | | × × • × × × ~ × • × • × × • • × • | : |
| 3 65 3 | <u></u> | - | | | | | | | | 7 | | | | | Ē | | • × • × 4 × • × 4 × • × 4 × • × | : |
| 3.65- 3. | 00 | | | | | | | | | | | | | | ŧ | | × × × × × × × × × × × × × × × × × × × | |
| | Þ | - | | | | | | | | | | | | | F F | | ° × ° × × ° × ∦ ▷ × ° × × ° × ° | |
| 4.50- 4. | 95 | D | 3.00 (DRY) | | | S9 | 1 | | | | | | | | | | × | • |
| 5.00- 5. | 50 | в | | | | | | 5.00m | , with oc | casion | al pocl | kets (u | up to 1 | Omm in | F | | > × + × × + > × × × + > × × × + > × × × + = × > | |
| 5.20 | | D | | | | | , | Y | | | | | | | F F | | × · · × × · · × · · × × · · × · · × | |
| 5.50- 0. | 95 | <u>UT27</u> | 4.50 (DRY) | 45 | 22 | | | | | | | | | | F F | | × × × × × × × × × × × × | |
| 5.95- 6. | 10 | D | | | 21 | | | | | | | | | | F_ | | × × × × × × × × × | • |
| | - | - | | | | | | | | | | | | | F | | × , , , , , , , , , , , , , , , , , , , | |
| 6.50- 6. | 95 | D | 6.00 (DRY) | | | S16 | * | | | | | | | | F | | × • × • • × • × • • × • × • | • |
| | | - - | | | | | | | | | | | | | È. | | × , | • |
| 7.20- 7. | 50 | в | | | | | Firm o | rey mo | ottled li | ght ye | llowis | n brown | n sligh | tly | - 7 | .20 | × · · × · · · · · · · · · · · · · · · · | 32 |
| 7.40 7.50- 7. | 95 | D UT31 | 7.50 | 62 | 21 | | sandy | | | | | | - 5 | - | Ē | | · · · · · · · · · · · · · · · · · · · | |
| 7.95- 8. | | D | (DRY) | | 22 | | | | | | | | | | Ē | | × · × × · × · × × · × · × | . .] |
| 8.10- 9. | | W | | | | | | | | | | | | | ŧ | | · × · ·×. × · × · × · × | |
| | | - - | _ | | | | | | | | | | | | ŧ | | . × · × ×. · × · ×. · × | |
| 8.70- 9. 9.00-10. | | D B | 8.50 (DRY) | | | s11 | | | | | | | | | - a | .00 | · × · × × · × · × · × | 31 |
| | | | | | | | | | ottled li ly grave | | | n brown | n sligh | tly | Ē | | × · · × · × · · × · | : |
| 9.50 9.50- 8. | 10 | D W | | | | | | | | | | | | | F | | × × × × × × × · × | |
| | - | - | 10.00 | | | | | | | | | | | | ŧ | | × · × · × · · · · · · · · · · · · · · · | · |
| 0.00-10. oring | 40 | <u>0</u> T22 | 10.00 (8.80) | | | Progre | 255 | | | | Grour | ndwate | r | | <u> </u> | | | <u> </u> |
| H | ole ia | | Technique | e | Crew | Depth of Hole | Depth I | Depth to Water | Date | Time | Depth Struck | | Poso to |) Mins | Dept Seale | | | rks on dwater |
| 1.20 | | | cion Pit Percussi | | MR/SS MR/SS | G.L. 9.50 9.50 | 9.00 | DRY 8.10 | 26/08/21 26/08/21 27/08/21 27/08/21 | 18:00 08:00 | | | | | 2.5410 | | None enc during b | ounte |
| | | | | | | | | | | | | | | | | | | |
| emarks | AGS | Inspect ES samp | tion pit | x vial | excavat | lastic | 1.20m de jar and | epth and 1 2 amb | nd no ser per jar. and 9.50m | vices | were fo | ound. | | | | Chec | ked by 🛛 | AS DRB |
| mbols and breviations a plained on th | ire 1 | A 50mm 18.00m | standpi with fl | lpe was lush lo | instal ckable | lled to protec | 18.00m tive co | with a ver. Ba | a geowrap ackfill d nite up t | ped sl etails | from 1 | base of | hole: | bentor | ite , | Figur | | 1 of 2 19/11/202 |
| companying / sheet. | | | | | | | | | | | | | | | | Œ | ded | mie |

All dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020

| BOR | EH | OLE | REC | ORD |) – | Cab | ole Pe | ercus | ssion | | | | | | | | |
|--|--|--|---|-----------------|--------------------|---------------------|--------------------|------------------|----------------------|---------------------|-----------------|----------------|---------|--------------------------|-----------------|------------------|-----------------------------------|
| Project | EQUIN | IOR FEEI |) PHASE | 1 INVES | STIGAT | IONS | Engine | er | J MURPHY | & SONS | S LIMIJ | ED | | Borehc Project | le B No ₽ | H3-04 C218256 | |
| Client | J MUR | PHY & S | SONS LIN | 1ITED | | | Nationa Coordir | al Grid nates | 612042.1 342084.8 | 47 E 855 N | | | | Ground | Level 4 | 0.06 m | OD |
| Samplir | ng | | | Prope | rties | | Strata | 3 | | | | | | | | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| Depth 10.45-1 11.00-1 11.50-1 11.80 12.20-1 12.65-1 13.50-1 14.00-1 14.20 14.50-1 14.95-1 | 1.45 .2.00 .2.65 .2.80 .3.95 .4.50 .4.95 | - D - D - D - D - D - D - D - D - D - D | Cased & (to Water) 11.00 (10.10) 12.00 (11.60) 13.00 (12.20) 14.00 (13.30) | 45 | w % 22 22 | SPT N 519 527 | | | n, become | es stiff | | | | | Depth | Legend | |
| 16.00-1 16.30-1 16.80 17.00-1 17.45-1 18.00-1 | .7.00 .7.45 .7.60 | - - В | 15.50 (14.70) 17.00 (15.60) 17.00 (15.60) | | 25 | s23 s48 | Below | v 18.00m | a, become Er | es very Id of Bc | | | | | 18.45 | | 21.61 |
| Boring | Hole | <u> </u> | ļ | ! | | Progre | | Depth to | 1 | | | dwate | 1 | in | Donth | Dome | rks on |
| Depth | Dia | | Technique | e | Crew | of Hole | Cased | Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | dwater |
| Remark Symbols an abbreviation explained on accompanyi key sheet. All dimensio are in metre | nd ns are n the ing ons | | accordance | e with BS59 | 30:2015 + | A1:2020 | | <u> </u> | | | | | | | Che Figu | cked by | AS DRB 2 of 2 19/11/2021 |

| oject | EQUIN | IOR FEED | PHASE | 1 INVES | STIGAT | IONS | Engineer | | J MURPHY | & SON | S LIMI | TED | | Boreh Projec | | | H3-05 218256 | |
|---|----------------|----------------------|--------------------------------|-----------------|----------------|-----------------------------|--|---------------------------|--|---|----------------------------|--------------------|-------------------|------------------------|-----------|-----------------------|---|-----------------------------------|
| ient | | PHY & S | ONS LIM | | | | National Coordina | Grid tes | 612038.6 342033.6 | | | | | Groun | d Leve | | | OD |
| ampli | ing | Comple | Depth | Prope | | | Strata | | | | | | | | 1 | | Scale 1 | 1 |
| epth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descriptio | on | | | | | | | Dep | | Legend | Lev m OE |
| 0.10- 0.10 | 0.50 | В D | | | | | with o | ccasic | rk brown onal root ine to c | lets. | Gravel | is and | gular ' | to | + | .L. | | 40 |
|).60-).60 | 1.20 | - B - D - | | | 14 | | Firm 1 SILT. C COARSE | Gravel | prown sli is angu :. | ghtly lar to | sandy subro | slight: unded : | ly gra fine to | velly o | | .50 | × * * * * * * * * * * * * * | 40 |
| .20- | 1.65 | D | 1.20 (DRY) | | | S32 | | | | | | | | | E E | | ° × ° × 4 × ° × 4 ▷ × ° × × ° × ° | |
| .50- .50 | 2.00 | - B - D | (DRI) | | | | Stiff : | light | brown sl | ightly | sandy | SILT. | | | | .50 | × × × × × × × × × × × × × × × × × × × | 39 |
| .00- | 2.45 | _UT43 - | 1.70 (DRY) | | | | | | | | | | | | | | | • |
| .60 | | - D | | | | | | | | | | | | | | | × | |
| .00 | 3.50 3.45 | В - D - D - | 1.70 (DRY) | | 21 | s35 | | | | | | | | | | | × × × × × × × × × × × × × × × × × × × | • • • |
| .00- | 4.45 | | 3.00 (DRY) | | | | | | \langle | | | | | | | | · · · · · · · · · · · · · · · · · · · | - |
| .60- | 5.00 | - - - B - D | | | | | Below | 4.60m, | with fr | requent | black | speck | s. | | | | × × × × | - |
| | 5.45 | D | 4.50 (DRY) | | | S20 | | | | | | | | | | | × × × × × × × × × × × × × × × × × × × | |
| 5.50- | 6.00 | - В - | | | | | | | | | | | | | | | × × × × × × × × × × × × × × × × × × × | - |
| 5.00 5.00- | 6.45 | D - UT41 | 6.00 (DRY) | 74 | 22 | X | | | | | | | | | | | | |
| 5.60 | | - D | | | | | • | | | | | | | | | | × × × × × × × × × × | |
| .00- | 7.45 | D | 6.00 (DRY) | | 21 | s 25 | | | | | | | | | | | | • |
| .50- | 8.00 | в | | | | | Stiff (| light | grey sli | ghtly | sandy | SILT | | | 7 | .50 | × | 33 |
| .00 .00- | 8.45 | D - UT31 | 7.50 (DRY) | | | | | | | | | | | | | | × × × × × × × × × × × × × × × × × × × | |
| .60 | | D | | | | | | | | | | | | | | | × × × × × × × × × × × × | • |
| | 9.50 9.45 | В D | 9.00 (DRY) | | | S16 | Below | 9.00m, | becomir | ng ligh | t grey | local | ly dar] | k grey. | | | × × × × × × × × × | |
| .50 | | D | | | 20 | | | | | | | | | | | | × × × × × × × × × × × × × × × × × × × | • |
| | 10.45 | <u>U</u> T46 | 10.00 (DRY) | 102 | 20 | Drogr | | | | | (| advict | or | | <u> </u> | | × × . × · × | |
| pring | Hole | | Technique | 9 | Crew | Depth | Depth D | | Date | Time | Depth | | Poso | to Mine | Dept | | | rks on |
| .20 .00 | | Inspect | ion Pit | : | KR/SR KR/SR | 11.50 | 1.70 1.70 11.00 11.00 | DRY DRY DRY | 02/09/21 02/09/21 03/09/21 03/09/21 06/09/21 | 08:00 18:00 08:00 18:00 08:00 | | Cased | | Mins | Seale | | Groun None enc during b | |
| | ind ons are | 18.00m | with up | right] | lockabl | ed to lled to le prot | 11.50 1.20m de 18.00m ective co to 0.30m | pth ar with a over. | Backfill | vices ped sl detai | were f otted ls from | m base | n from of ho | 1.00m le: gra | to vel | Logg Chec Figur | ked by 1 e : | ECAD DRB 1 of 1 19/11/20 |
| lained (ompany sheet. dimensi | ying | | | | | | | | | | | | | | | @E | Dest | Me |

| Project _{EQUIN} | IOR FEED | PHASE | 1 INVES | STIGAT: | IONS | Engine | er | J MURPHY | & SONS | 3 LIMIT | ED | | Boreho Project | ole No | BH3-05 PC218256 | |
|---|--|--|-----------------|----------------------|--------------------------|--------------------|----------|----------------------|----------|---------|-------------------------|--------------|-------------------|-----------|-----------------------|---------------|
| Client , MITR | PHY & S | ONS T.TW | በተዋምቦ | | | Nationa Coordir | al Grid | 612038.0 342033.0 | 51 E | | | | Ground | | | OD |
| Sampling | | | Proper | rties | | Strata | | 512055.0 | | | | | C. Gunu | 20001 | Scale | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 10.60-11.00 10.60 11.00-11.45 11.50-12.00 12.00-12.45 12.60 13.00-13.50 13.00-13.45 13.50 14.00-14.45 14.50-15.00 14.60-15.00 14.60-15.00 15.00-15.45 15.50-16.00 16.00 16.00 16.00 17.00-17.50 17.50-17.95 18.00 | - D - D - D - D - D - D - D - D - D - D | 11.00 (DRY) 11.50 (DRY) 11.50 (DRY) 11.50 (DRY) 11.50 (DRY) 11.50 (DRY) | 110 | 20 20 21 19 | s28 s31 s29 s32 | Below | v 13.00r | n, become | as stiff | | | ff. | | | | 22.7 |
| | - | | | | | | | | | | ducata | | | <u>-</u> | | |
| Boring Depth Dia | - | Technique | <u>_</u> | Crew | Depth | Depth | Depth to | Date | Time | Depth | dwate Depth Cased | r Rose to | in | Depth | | arks on |
| Deptri Dia | | . coninque | ~ | | of Hole | Cased | Water | Date | | Struck | Cased | | Mins | Sealed | Grou | ndwater |
| Remarks 🔜 | | | | | | | | | | | | | | Lo | ogged by hecked by | ECAD |
| Symbols and | | | | | | | | | | | | | | CI Fi | hecked by gure | DRB 2 of 2 |

| | QUINC | OR FEED | PHASE | I INVES | STIGATI | LONS | Engineer | J MURPHY | & SONS I | IMITED | | Borehole Project N | | 14-06 218256 | |
|------------------------------|-------------|----------------|-----------------------|-----------------|----------------|--------------|--|--|-----------------------|----------------------------|-------------------|-----------------------|-----------------|--|------------------|
| ient _J | MURI | PHY & S | ONS LIM | IITED | | | National Grid Coordinates | 611841.54 341774.04 | | | | Ground L | evel 54 | .28 m | OD |
| ampling | · . | | Turnit | Prope | | | Strata | | | | | | | Scale 1 | :50 |
| Depth | | Sample Type | Cased & (to Water) | Strength kPa | w % | SPT N | Description | | | | | | Depth | Legend | Leve m OD |
| 0.30- 1. 0.30 | .00 | B D | | | | | TOPSOIL: Da clayey SANI angular to quartzite. | D with occa | asional 1 | cootlets. G | ravel i | s | _ G.L. | | 54. |
| 1.20- 1. 1.50 | .65 | D | 1.20 (DRY) | | | S8 | Loose orang is angular | | | | | | 1.10 | | 53. |
| 2.00- 2. 2.00- 2. | | – B D | 1.70 (DRY) | | | S6 | Below 2.00m content of | | | with a low | cobble | | - | | |
| 3.00- 3. 3.00 | | D | 1.70 (DRY) | | | s11 | At 3.00m, n | nedium dens | 3e. | | | | - | | - |
| 3.50- 4. 4.00 4.00- 4. | - | B D | 4.00 (DRY) | | | C25 | Orangish br content of subrounded At 4.00m, m | subrounded fine to co | d flint. Darse fli | Gravel is | angular | to | 3.50 | | 50 |
| 5.00- 5 5.00- 5 5.00 | | - B D D | 4.50 (DRY) | | | s19 | Medium dens Gravel is a flint. | se light bu | rown slig subround | ghtly grave led fine to | lly SAN coarse | | _ 5.00 | | 49 |
| 6.00- 6. | | | 6.00 (DRY) | | | S18 | Below 6.00m | a, becomes | gravelly | 7. | | | - | 0 0 0 0 0 0 0 0 0 | |
| 6.50- 7. 6.50 7.00- 7. | - | B D | 7.00 (DRY) | | | \$ 25 | | | | | | | - | 0 4 4 4 4 6 7 7 7 7 7 8 8 8 | |
| 8.00- 8. 8.00 8.00- 8. | _ | _ В D D | 7.50 (DRY) | | | S28 | Medium dens Gravel is a flint and o | angular to | | | | | _ 8.00 | | 46 |
| 9.00- 9. | .45 | | 9.00 (DRY) | | | C36 | Below 9.00m | n, becomes | dense. | | | | _ | | |
| 9.50-10. 9.50 | .00 | B D | | | | | | | | | | F | | | • |
| 0.00-10 | .45 | - - | 10.00 (DRY) | | | C38 | | | | | | F F | _ | 0 4 | - |
| oring | | | (DRI) | | | Progr | | | | roundwate | r | | | | |
| | lole Dia | - | Technique | 9 | Crew | | Depth Depth t Cased Water | | | ruck Cased | Rose to | | Depth Sealed | | rks on dwater |
| 1.20 5.00 0. | | | ion Pit ercussi | | KR/SS KR/SS | 11.50 | 12.00 DRY 12.00 | 07/09/21 x 07/09/21 08/09/21 x 08/09/21 | 18:00 08:00 | | | | | None enc during b | |

| BOREHOLE RECORD | - Cab | le Percussion | | | |
|--|--------------|--|-----------------|-------------------|---------------------------------|
| Project EQUINOR FEED PHASE 1 INVEST | TIGATIONS | Engineer J MURPHY & SONS LIMITED Boreh Project | No PC | H4-06 | |
| Client J MURPHY & SONS LIMITED | | National Grid 611841.54 E Coordinates 341774.041N Ground | Level 54 | 1.28 m (| |
| Sampling Propert | | Strata | | Scale 1: | |
| Depth Sample Cased & Strength Type (to Water) KPa | W SPT N % | Description | Depth | Legend | Level m OD |
| 11.00-11.50 B 11.00 D 11.00-11.45 10.50 (DRY) | C37 | Below 11.00m, very sandy gravel. CHALK recovered as light brown slightly sandy silty GRAVEL. Clasts are very weak to weak, low to medium | 11.70 | | 42.58 |
| 12.00-12.45 D 12.00 (DRY) 12.50 D | s17 21 | density, white with occasional black specks and occasional subangular fine to coarse flint gravel. Matrix is light brown. Below 12.50m, with rare orangish brown surface staining. | | | |
| 13.00-13.45 UT41 12.00 (DRY) 13.50-14.00 B | | | | | |
| 13.60 D 14.00 D 14.00-14.45 D 12.00 | 20 521 | | | | |
| 14.50-14.95 UT43 12.00 (DRY) | | | | | |
| 15.00 D | | End of Borehole | 15.00 | | 39.28 |
| | | | | | |
| | | | | | |
| Boring | Progre | ss Groundwater | | | |
| Hole | Crew OF Hole | Depth Depth to Date Time Depth Depth Rose to Mins | Depth Sealed | Remarl Ground | |
| | | | | | |
| Remarks Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres. Logged in accordance with BS593 | I | | Cheo Figu | cked by D re 2 | C/AD RB of 2 9/11/2021 |

Project EQUINOR FEED PHASE 1 INVESTIGATIONS

GATIONS Engineer

J MURPHY & SONS LIMITED

Borehole BH Project No PC

BH4-07 PC218256

| ampl | ing | Sample | Depth | Prope | | CDT N | Strata | | Scale 1 | 1 |
|---|-----------------|---|----------------------------------|-------------------|-------------------------|--|--|----------------------|---|------------------------|
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Description | Depth | Legend | Level m OD |
| 0.10- 0.10 | 0.40 | B D | | | | | TOPSOIL: dark brown slightly gravelly SAND with occasional rootlets. Gravel is angular to subrounded fine to medium flint and quartzite. | G.L. | | 82.9 |
| 0.50- 0.50 | 1.00 | - B - D | | | | | Orangish brown very gravelly slightly silty SAND. Gravel is angular to subrounded fine to medium flint and quartzite. | 0.50 | • × • • • | 82.4 |
| 1.20- | 1.65 | - - - - | 1.20 (DRY) | | | S19 | At 1.20m, medium dense. | | × · · · · · · · · · · · · · · · · · · · | |
| 2.00 | 2.50 | - - - - - - - - - | 1.70 (DRY) | | | s36 | Below 2.00m, becomes dense. | | | |
| | 3.45 3.39 | - - - - - | 3.00 (1.00) | | | \$50/ 235 | | 3.40 | × | 79. |
| 3.50- 3.50 | 4.00 | - B - D | | | | | Dense orangish brown very sandy slightly silty GRAVEL with a medium cobble content of subrounded flint. Gravel is angular to subrounded fine to coarse flint and quartzite. | E. | × · · · | |
| 4.00- | 4.45 | | 4.00 (1.00) | | | C41 | | | × • | |
| 5.00 | 5.50 | - - - В - D - | 4.50 (1.00) | | | C40 | | | | |
| | 6.45 | | 6.00 (5.00) | | | 533 | Dense orangish brown gravelly slightly silty SAND. Gravel is angular to subrounded fine to coarse flint. | 5.90 | | 77. |
| 6.50 | 7.45 | B D D | 7.00 (6.00) | | | \$ 35 | | | × * * * * * | |
| 8.00 | 8.50 | - - - - - - - - - - - - - - - - - - - | 7.50 (7.50) | | | S29 | At 8.00m, medium dense. | | | |
| 9.00- | 9.45 | - - - - | 9.00 (8.00) | | | s23 | At 9.00m, medium dense. | | | |
| 9.50- 9.50 | 10.00 | В D | | | | | | | | |
| 0.00- | 10.45 | - D | 10.00 (9.00) | | | S46 | | Ē. | •ו•• | - |
| oring epth | Hole Dia | | Techniqu | e | Crew | Depth of Hole | Depth Depth to Depth Depth Depth Depth Depth Depth | n Depth ns Sealed | | rks on dwater |
| 1.20 5.00 0.45 | 0.40 | Inspect Cable 1 | tion Pit Percussi Percussi | lon | KR/SR KR/SR KR/SR | G.L. 1.20 1.20 15.00 15.00 | 23/08/21 08:00 1.20 DRY 23/08/21 18:00 1.20 DRY 24/08/21 08:00 15.00 24/08/21 18:00 18:00 15.00 25/08/21 08:00 18:00 | | None enc during b | ounter |
| emar | and | Inspect Backfi | tion pit 11 detai | hand o ls from | excava m base | | 27.00 25/08/21 18:00 .20m depth and no services were found. : bentonite grout up to ground level. | Log Che Figu | cked by 1 ire : | ECAD DRB 1 of 4 |
| breviation plained compan y sheet. | on the lying | | | | | | | | | 19/11/202 [.] |

| Project genthe FERSING J MERPAY & SORE LINETED Borehold Project NO Persistes Client J MORPAY & SORE LINETED Validanal Cid Siles 0.11 Contract Ground Level 0.2.0 mit Sampling Properties Strata Scale 1: Depth Sampling Properties Strata Scale 1: Depth Sampling 10.050 Strata Scale 1: 11.00-11.45 D 10.050 S33 Scale 1: 12.00-12.45 D 12.05 Strata Scale 1: 13.00-14.45 D 12.05 Strata | BOR | REH | OLE | REC | ORL |) – | Cab | ole Pe | ercus | ssion | | | | | | | | |
|--|--|-----------------------|---------------|--------------------------------|-----------------|---------|-----------|----------------|----------|-----------|-----------------|------------------|--------------------|-------------------|--------------------------|---------|--|-----------------------|
| Oldent у нирену с окок в LINTED Coordinates 341583.621 N Ground Level 8.39 Ground Level 8.39 Coordinates 341683.621 N Ground Level 8.39 N bepin Sampling Properties Strata Scale 1 | | | | | | | | | | | & SON | S LIMI | FED | | Borehc Project | No P | | |
| Sampling Properties Strata Scale n: Depth Supple (arrows) for any by the formula of the second properties (arrows) for any by the formula of the second properties (arrows) for any by the formula of the second properties (arrows) for any by the formula of the second properties (arrows) for any by the formula of the second properties (arrows) for any by the second | Client | J MUR | RPHY & S | SONS LIM | 1ITED | | | | | | | | | | Ground | Level 8 | 2.90 m | OD |
| 1 0/98 0/94 % 1 11.00-11.05 B 1 6.55 635 12.00-12.45 D 12.00 633 12.00-12.45 D 12.00 633 12.00-13.05 B 12.00 633 12.00-13.05 D 12.00 633 13.00-13.45 D 12.00 636 14.00-14.45 D 12.00 633 14.00-14.45 D 15.00 633 14.00-14.45 D 15.00 633 15.00-15.45 D 15.00 633 15.00-16.00 B 14.00 633 15.00-17.50 D 15.00 633 16.00-16.45 D 15.00 633 17.00-17.50 D 17.00 635 17.00-17.50 D 17.00 635 17.00-17.50 D 18.00 635 18.00-18.45 D 18.00 632 <t< td=""><td></td><td></td><td></td><td></td><td>Prope</td><td>rties</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | Prope | rties | | | | | | | | | | | | |
| 11.00-11.50 11.00-11.45 B D 15.00 (10.00) 835 12.00-12.45 D 12.00 (11.00) 833 12.00-12.45 D 12.00 (11.00) 833 12.00-13.06 B D D 12.50 (12.00) 835 13.00-13.45 D 12.50 (12.00) 836 14.00-14.45 D 15.00 (12.00) 833 15.00-15.45 D 15.00 (15.00) 833 15.00-15.45 D 15.00 (15.00) 833 15.00-15.45 D 15.00 (15.00) 833 15.00-15.45 D 15.00 (15.00) 835 15.00-15.45 D 15.00 (15.00) 835 15.00-15.45 D 15.00 (15.00) 835 16.00-16.45 D 15.00 (15.00) 835 17.00-17.55 B 17.00 (15.00) 835 18.00-16.45 D 18.00 (15.00) 835 18.00-16.45 D 18.00 (15.00) 835 18.00-16.45 D 18.00 (15.00) 839 18.00-16.45 D 18.00 (15.00) 839 18.00-16.45 D 18.00 (15.00) 839 18.00-16.45 D 18.00 (18.00) 19 Pelow 18.00m, becom | Depth | | | Depth Cased & (to Water) | Strength kPa | | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 12.50-13.00 B 12.50 D 12.50 D 13.00-13.45 D 14.00-14.55 D 14.00-14.45 D 14.00-14.45 D 15.00-15.45 D 15.00-16.00 B 15.50-16.00 B 15.50-17.50 B 17.00-17.50 B 17.00-17.50 B 18.00-18.45 D 18.00-18.45 D 18.00-18.45 D 18.00 18.00 18.00 18.00 18.00 B 19.00-19.45 D 19.00-19.45 | 11.00 | | - D | | | | s35 | | | | | | | | | | | |
| 12.50 D 13.00-13.45 D 14.00-14.55 B 14.00-14.55 D 14.00-14.45 D 15.00-15.45 D 15.00-15.45 D 15.00-16.40 B 15.00-17.50 B 17.00-17.50 B 17.00-17.50 B 17.00-17.50 B 18.00-18.45 D 18.00-17.50 B 18.00-17.50 B 18.00-17.50 B 19.00-17.50 B 19.00 | 12.00-1 | 12.45 | | 12.00 (11.00) | | | s33 | | | | | | | | | | • × • • • | |
| 14.00-14.55 - B 14.00-14.55 - D 15.00-15.45 - D 15.00-15.45 - D 15.50-16.00 - B 15.50-16.00 - B 15.50-16.00 - D 16.00-16.45 - D 16.00-16.45 - D 16.00 - D 17.00-17.50 - B 17.00-17.45 - D 18.00-18.45 - D 18.00-18.45 - D 18.00-18.45 - D 18.00-18.45 - D 18.00 18.00 18.00-18.45 - D 19.00 - S35 19.00 - S35 19.00-19.45 - D 19.00 - S22 20.00-20.50 - B Eoring - D 19.00 - D <td>12.50</td> <td></td> <td>- D</td> <td>12 50</td> <td></td> <td></td> <td>536</td> <td>subro</td> <td>ounded i</td> <td>Eine to c</td> <td>oarse</td> <td>flint.</td> <td></td> <td>gular t</td> <td>0</td> <td>12.50</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td>70.40</td> | 12.50 | | - D | 12 50 | | | 536 | subro | ounded i | Eine to c | oarse | flint. | | gular t | 0 | 12.50 | · · · · · · · · · · · · · · · · · · · | 70.40 |
| 14.00 14.00 14.00 \$33 15.00-15.45 D 15.00 \$39 15.50-16.00 B 15.00 \$39 15.50-16.00 B 15.00 \$39 16.00-16.45 D 16.00 \$39 17.00-17.50 B \$39 17.00-17.50 B \$39 18.00-18.45 D 18.00 18.50-19.00 B \$19 18.50 D 19.00 18.50 D 19.00 19.00-19.45 D 19.00 19.00-20.50 B S22 Bornmg Progress Groundwater | | | | | | | 536 | | | | | | | | | | | |
| 15.50-16.00 B 15.50-16.00 B 15.50-16.00 D 16.00-16.45 D 16.00-16.45 D 16.00-16.45 D 17.00-17.50 B 17.00-17.50 B 17.00-17.50 B 17.00 D 18.00-18.45 D 18.50-19.00 B 18.50-19.00 B 19.00-19.45 D 19.00-20.50 B Boring Progress | 14.00 | | - D | 14.00 (13.00) | | | s33 | | | X | | | | | | | р | |
| 15.50 D D If and a constraints of the constraints o | 15.00-1 | 15.45 | - D - | | | | s39 | Grave flint | al is an | ngular to | subro | unded i | Eine to | coarse | | 15.00 | | 67.90 |
| 17.00-17.50 B 17.00 D 17.00-17.45 D 17.00-17.45 D 18.00-18.45 D 18.00-18.45 D 18.50-19.00 B 18.50 D 19.00-19.45 D 19.00-19.45 D 19.00-20.50 B Boring Progress | 15.50 | | - D | | | | 539 | with | rare an | ngular to | ng ora subro | ngish unded | orown i Eine to | n colou medium | r | | | |
| 18.50-19.00 B 18.50 D 19.00-19.45 D (18.00) 522 20.00-20.50 B Boring Progress | 17.00 | | - D | | | | s35 | | | n, with r | are sh | ell fra | agments | (up to | 5mm | | | |
| 19.00-19.45 D 19.00 (18.00) 20.00-20.50 B Progress Groundwater | 18.00-1 | 18.45 | - - D - | | | | S19 | | | n, become | s medi | um den: | se. She | ll frag | ments | | 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | |
| 20.00-20.50 B Progress Groundwater | 18.50 | | | | | | | | | | | | | | | | | |
| 20.00-20.50 в Progress Groundwater | 19.00-1 | 19.45 | | | | | S22 | | | | | | | | | | р х х х х х | |
| | | 20.50 | в | | | | | | | | | | | | | - | | - |
| | Boring Depth | | | Technique | e | Crew | Depth | Depth | | Date | Time | Depth | Depth | r Rose to | | | | |
| Depth Dia Technique Crew of Hole Cased Water Date Time Struck Cased Mins Sealed Ground Dia Dia 27.00 27.00 26/08/21 08:00 < | - spin | Dia | | . comique | - | | 27.00 | 27.00 | water | 26/08/21 | 08:00 | | Cased | | Mins | Sealed | Groun | dwater |
| Symbols and Checked by I | Symbols an | nd | ļ | | | | 1 | <u> </u> | <u> </u> | <u> </u> | | 1 | <u> </u> | <u> </u> | | Che | cked by a re | ECAD DRB 2 of 4 |
| abbreviations are explained on the accompanying key sheet. All dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020 | explained of accompanyi key sheet. All dimensio | on the /ing ons | Lorge | 00000000000 | | 20.2045 | . 41.0000 | | | | | | | | | @: | | |

| | | PHASE | 1 INVE | STIGAT | IONS | Engineer | | J MURPHY | & SON | S LIMII | FED | | Boreho Project | ole No | BH4-07 PC218256 | |
|-------------------------------------|---|--------------------------------|-----------------|--------|---------------|----------------------|---------|-------------------------------------|--------|----------|---------|---------|-------------------|-----------|---------------------------------------|---------------|
| Sampling | PHY & S | SONS LIM | תתידת | | | National Coordina | Grid | 611860.0 341589.8 | | | | | - | Level | | n OD |
| Denth | uni a i | | Prope | rties | | Strata | 105 | 541505.0 | 2111 | | | | Ground | Level | Scale | |
| Depin | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descripti | on | | | | | | | Depth | Legend | Level m OD |
| 20.00 20.00-20.45 | | 20.00 (18.00) | | | s20 | | | | | | | | | | | |
| 21.00-21.45 | D | 20.50 (19.00) | | | S24 | | | | | | | | | | 0 × 4 | |
| 21.50-22.00 21.50 | В D | | | | | | | | | | | | | | 0 4 0 X | |
| 22.00-22.45 | | 22.00 (21.00) | | | S27 | | | | | | | | | | • × • • | |
| 23.00-23.50 23.00 23.00-23.45 | - - - - - - - - - - - - - - - - - - - | 23.00 (22.00) | | | S29 | | | | | | | | | | × | |
| 23.50-24.00 23.50 | - B - D | (, | | | | to med | lium co | ish brown obble con ngular to | tent o | f subro | ounded | flint. | | 23.5 | 50 | 59.4 |
| 24.00-24.45 | - - - - - | 24.00 (23.00) | | | C33 | flint | and q | vartzite. | Subio | | | coarse | - | | | |
| 25.00-25.50 25.00 25.00-25.45 | - B - D - D | 25.00 (23.00) | | | C37 | | V | | | | | | | | | |
| 26.00-26.45 | | 26.00 (24.00) | | | C40 | | | | | | | | | | | |
| 26.50-27.00 26.50 | В D | | | | | | | | | | | | | | | |
| 27.00-27.45 | - - - - - - | 27.00 (25.00) | | | C43 | | | | | | | | | | | |
| 28.00-28.50 28.00 28.00-28.45 | - - - - - - - | 28.00 (27.00) | | | С33 | | | m, become bles abse | | ddish b | orown s | and and | 1 | | | |
| 00 00 00 45 | - - - - - | 29.00 (27.00) | | | C45 | | | | | | | | | | | |
| 29.00-29.45 | L | | | | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| 29.00-29.45 29.50-30.00 29.50 | в - D | | | | | | | | | | | | | F | | |
| 29.50-30.00 | - D | 30.00 (28.00) | | | c47 Progre | | | | | Creative | idwate | | | | | |

| | | IOLE | | | | | Enginee | | J MURPHY | & SON | S LIMI | red | | Borehc Project | le B No ₽ | H4-07 | |
|---|--|----------------|--------------------------------|-----------------|---------|-----------------|----------------------|--------------|----------------------|------------|-----------------|----------------|--------------|--------------------------|--------------|---------|-------------------------------------|
| Client | Ј МО | RPHY & S | ONS LIN | MITED | | | National Coordina | Grid ates | 611860.0 341589.8 | 11E 21N | | | | Ground | Level 8 | 2.90 m | OD |
| Sampl | | | | Proper | | | Strata | | 01200010 | | | | | cround | 2010. 0 | Scale 1 | |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descript | ion | | | | | | | Depth | Legend | Level m OD |
| | | | | | | | | | Er | d of B | orehole | | | | | | 52.4 |
| Roring | | - | | | | Drogr | | | | | Groue | dwate | r | | | | |
| Boring Depth | Hole | - | Techniqu | e | Crew | Progre Depth | Depth L | Depth to | Date | Time | Depth Struck | Depth Cased | r Rose to | in | Depth | | rks on |
| Берш | Dia | | | | CIEW | of Hole | Cased | Water | Dale | | Struck | Cased | | Mins | Sealed | Groun | dwater |
| Remar Symbols a abbreviati explained accompar key sheet. All dimens are in met | and ons are on the nying sions | - | popordeses | e with BS59 | 20-2045 | A1:2020 | <u> </u> | | + | ļ | | <u> </u> | 1 | <u> </u> | | cked by | ECAD DRB 4 of 4 19/11/2021 |

| oject | EQUII | NOR FEEI | D PHASE | 1 INVE | STIGATI | IONS | Engineer | J MURPHY | & SON | S LIMI | ED | | Boreho Project | | H4-08 | |
|---|--------------------------|--------------------------------------|--------------------------------|-----------------------------|------------------------------|--------------------------------|---|--|----------------------------------|--------------------|-------------------|---------------|-------------------|---------------------------------|--------------------------------------|---------------------------------|
| lient | | RPHY & S | SONS LIN | | | | National Grid Coordinates | 611783.4 341360.0 | | | | | Ground | Level 78 | 3.92 m | |
| Sampli | ing | Sampla | Depth | Prope | | 007.11 | Strata | | | | | | | 1 | Scale 1 | 1 |
| Depth | | Sample Type | Cased & (to Water) | Strength kPa | ₩ % | SPT N | Description | | | | | | | Depth | Legend | Lev m OE |
| 0.10- 0.10 | | — - В - D | | | | | TOPSOIL: Da occasional subrounded | rootlets. | Grave | l is ar | velly s Igular | and wit to | h | G.L. | | 78 |
| 0.50- 0.50 | 1.00 | - B - D - | | | | | Medium dens is angular quartzite. | | | | | | | | | |
| 1.20- | 1.65 | - - D - | 1.20 (DRY) | | | s22 | | | | | | | | | | • |
| 2.00 | 2.50 | - - - - - - | 1.70 (DRY) | | | C24 | Below 2.00m subrounded | | low to | medium | 1 cobbl | e conte | nt of | | | |
| 3.00- | 3.45 | | 3.00 (0.50) | | | C43 | Below 3.00m | a, becomes | dense | | | | | | | |
| 4.00 | 4.50 4.35 | - - - - - - - - | 4.00 (0.50) | | | C50/ 200 | At 4.00m, v | ery dense | • | | | | | | | |
| 5.00- | 5.40 | | 4.50 (0.50) | | | C50/ 245 | At 5.00m, v | very dense | | | | | | | | • |
| 6.00 | 6.50 | - - - - - - - - | 6.00 (0.50) | | | C50/ 270 | At 6.00m, v | ery dense | | | | | | | | |
| 7.00- | 7.45 | | 7.00 (0.50) | | | C42 | | | | | | | | | 0 0 0 0 0 0 0 0 | - - - - - |
| 7.50- 7.50 | 8.00 | В D | | | | | | | | | | | | | 0 0 0 | |
| 8.00- | 8.45 | - - - - - | 7.50 (0.50) | | | C45 | Below 8.00m | a, becomes | grave | lly. Co | bbles | absent. | | | | • • • • • |
| 9.00 | 9.50 9.45 | - - - - - - - | 9.00 (4.50) | | | C38 | | | | | | | | | | |
| 0.00- oring | 10.45 | - | 10.00 (4.50) | | | c44 Progré | 255 | | | Grour | dwate | r | | - | 0 | - |
| epth | Hole Dia | | Technique | e | Crew | Depth of Hole | Depth Depth to Cased Water | | Time | Depth Struck | Depth Cased | | in Mins | Depth Sealed | | rks on dwater |
| 1.20 5.45 | | | cion Pit Percussi | | SR/KR SR/KR | G.L. 3.50 3.50 13.00 | 3.50 3.50 13.00 14.50 | 18/08/21 18/08/21 19/08/21 19/08/21 20/08/21 20/08/21 | 18:00 08:00 18:00 08:00 | | | | | | None enc during b | ounte |
| emar mbols a breviatic plained compan | and ons are on the | Water v A 50mm 15.00m | vas adde standpi with up | ed to a pe was pright | ssist h instal lockabl | ooring 1 led to le prote | 1.20m depth a between 1.20 15.00m with ective cover. 1.00m, bento | and no ser and 15.00 a geowrap Backfill | m. ped slo detai | otted s ls from | ection base | of hole | : bent | Cheo Figur onite evel. | cked by 1 re : | ECAD DRB 1 of 19/11/20 |

| Project | EQUIN | OR FEE | D PHASE | 1 INVE | STIGAT | IONS | Engine | er | J MURPHY | & SON | S LIMI | red | | Boreho Project | le B No P | H4-08 | |
|--|-----------------------------------|---|--------------------------------|-----------------|--------|----------------------------|--------------------|-------------------|------------------------------------|---------|--------------------------|--------------------------|--------------|-------------------|-----------------|---------------|-------------------------------------|
| Client | T MITR | рну & | SONS LIN | TTED | | | Nationa Coordir | | 611783.4 341360.0 | | | | | - | | 8.92 m | OD |
| Sampl | | u | | Prope | rties | | Strata | | | | | | | oround | 2010. 1 | Scale 1 | |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 10.50- 10.50 11.00- | | - B - D - D - D | 10.50 (4.50) | | | s31 | low o | cobble c | e orangis content. rse flint | Gravel | is ang | gular t | | | 10.40 | | 68.52 |
| 12.00 12.00- 12.50- | | - - - - - - - - - - - - - - - - - - - | 12.00 (4.50) | | | s30 | Below | v 12.00m | a, become | es slig | htly g | ravelly | | | | | · · · · · · |
| 13.00- | -13.45 | - D - D | 13.00 (4.50) | | | S29 | | | | | | | | | | | |
| 14.00- 14.00- 14.00 | | - B - D - D - | 14.40 (4.50) | | | s26 | | | | | | • | | | | | · · · · · |
| 15.00- 15.00 | -15.45 | - D - D - D - | 14.50 (4.50) | | | s25 | | V | E | nd of B | orehole | a | | | 15.45 | | 63.47 |
| | | | | | | | | | | | | | | | | | |
| Boring | Hole Dia | | Technique | e | Crew | Progre Depth of Hole | Depth | Depth to Water | Date | Time | Grour Depth Struck | ndwate Depth Cased | r Rose to | in Mins | Depth Sealed | | rks on dwater |
| | | | - | | | | 2000 | | | | | 2000 | | | | | |
| Remar Symbols a abbreviati explained accompar key sheet | and ons are on the nying | • | | | | | | | | • | | • | | • | Figu | cked by re | ECAD DRB 2 of 2 19/11/2021 |

| oject | EQUIN | IOR FEEI | D PHASE | 1 INVE | STIGATI | IONS | Engineer | | J MURPHY | & SON | S LIMI | ED | | Boreho Project | | H4-09 | |
|------------------------------------|-------------------------|-----------------------|-----------------------------------|--------------------|------------------------|----------------------------------|-------------------------------------|--------------------------------------|--|--------------------------------------|---------------------------------------|------------------------------|------------------|--------------------------|---|---|-------------------------------|
| ent | | RPHY & S | SONS LIN | | | | National Coordina | | 612210.8 341646.6 | | | | | Ground | Level 8: | 2.49 m | |
| ampli | ng | Sample | Depth | Prope Strength | | CDT N | Strata | | | | | | | | | Scale 1 | 1 |
| epth | | | Depth Cased & (to Water) | kPa | % | SPT N | Descripti | on | | | | | | | Depth | Legend | Lev m OD |
| 0.20 0.30- 0.40 0.50- | 0.30 0.50 1.00 | D B D B | | | | | conten rootle to coa Brown | t of s ts. Gr rse fl slight | own grave subangula ravel is lint and ly Grave | r flin subang quartz lly SA | t and o ular to ite. ND. Gra | occasio subro | onal ounded f | fine | G.L. 0.30 0.50 | | 82 82 81 |
| | 2.00 1.65 | D | 1.20 (DRY) | | | s22 | Medium slight subrou | dense ly sil nded f | ed fine t e dark ye ty SAND. fine to c becomes | llowis Grave oarse | h brown l is an quartzi | n sligh ngular .te and | tly gra to | avelly | + - - - - - - - | × · · · · · · · · · · · · · · · · · · · | |
| 1.80 2.20- | 2.65 | | 1.80 | | | s11 | Below gravel | | , becomes | yello | wish br | own an | d slig | htly | | | |
| 2.50- 2.80 | 3.00 | B | (DRY) | | | | | | | | | | | | - - - - - - - - - - - - - - - | | |
| | 3.65 4.00 | E | 3.00 (2.90) | | | S14 | | | | | | | | | | | |
| | 4.65 | E | 4.00 (3.60) | | | s10 | | • | $\langle \rangle$ | | | | | | | | |
| .50- .80 | 5.00 | в | | | | | 7 | | | | | | | | | | |
| | 5.65 6.00 | E | 5.00 (4.90) | | | s13 | slight | ly sil | e dark ye Lty SAND. Elint to | Grave | l is ar | gular | to | | 5.50 | | 76 |
| | 7.00 6.95 | - D - B - | 6.30 (6.10) | | | c18 | | | | | | | | | | | |
| 7.30 7.70- | 8.15 | - - - - - | 7.50 (7.30) | | | C26 | | | | | | | | | | × * | |
| 8.50- | 9.00 | - В | | | | | Medium | deng | yellowi | sh hro | wn (1) 3 | | AND | ravel | 8.50 | × · · · · · · · · · · · · · · · · · · · | 73 |
| 3.70 9.00- | 9.45 | ם – ם – | 9.00 (8.80) | | | s22 | is ang quartz | ular t | o subrou | nded f | ine to | coarse | flint | and | | | , |
| 9.50-3 | 10.00 | В | | | | | | | | | | | | | | | |
| oring | | | | | | Progre | | | | | | dwate | r | | | | <u> </u> |
| epth 1.20 0.00 | | Inspect | Technique tion Pit Percussi | 5 | Crew MR/SS MR/SS | Depth of Hole G.L. 1.20 | | Water | Date 20/08/21 20/08/21 | | Depth Struck | Depth Cased | Rose to | Mins | Depth Sealed | Remai Groun None enc during b | dwate ounte |
| emarl | 0.15 | Cable I | Percussi | Lon | MR/SS | 1.20 14.00 14.00 26.50 | NIL 14.00 14.00 24.00 | DRY 13.10 DRY DRY | 23/08/21 23/08/21 24/08/21 24/08/21 | 08:00 18:00 08:00 18:00 | were fo | ound. | | | 105 | | |
| mbols ar breviatio blained o | nd ons are on the | Water v Backfil | was adde 11 detai | ed to a ils fro | ssist k m base | oring of hold | between e: bento | 1.20-1 nite g | nd no ser 1.40 and grout up | 14.00- to gro | 22.00m. und lev | rel. | | | | cked by 1 re : | 25 DRB L of 19/11/20 |

| BORE | HOLE | REC | ORL |) - | Cab | | | ssion | | | | | | | | |
|-------------------------------|----------------|--------------------------------|-----------------|---------|------------------|--------------------|----------------|-------------------------------------|---------------|--------|---------|--------------------|-------------------|--------------|---------------|----------------------|
| Project EQU: | INOR FEEI | D PHASE | 1 INVE | STIGAT | IONS | Enginee | er | J MURPHY | & SON | S LIMI | TED | | Boreho Project | le B No P | H4-09 | |
| Client J M | JRPHY & S | SONS LI | MITED | | | Nationa Coordin | l Grid ates | 612210.8 341646.6 | | | | | Ground | Level 8 | 2.49 m | OD |
| Sampling | u - | | Prope | rties | | Strata | | | | | | | oround | 2010. 0 | Scale 1 | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| | - | | | | | | | | | | | | | - | ····· | |
| 10.20 | с 5 _ D | 10.00 | | | S22 | | | | | | | | | F | 0.0 | |
| 10.50-10.9 | | 10.00 (10.20 |) | | 522 | | | | | | | | | F | | • |
| 11.00-11.50 | р в | | | | | | | | | | | | | Ę | 0 | |
| 11.20 | D | | | | | | | | | | | | | Ę | | |
| 11.50-11.9 | 5 D | 11.50 |) | | S25 | | | | | | | | | t F | 0.00 | |
| | È | | | | | | | | | | | | | t F | | • |
| 12.10-12.70 | в | | | | | Mediu | m dens | e orangis | h brow | n grav | | ight ly | gilty | 12.10 | •••••• | 70.39 |
| 12.50 | - _ D | | | | | SAND. | Grave | l is angu t and qua | lar to | subro | unded f | ine to | BIICY | + L | D X | |
| | | | | | | | | | | | | | | + L | ×···· | |
| 12.80-13.29 13.00-13.50 | 5 D D B | 12.80 (12.20 | | | S18 | | | | | | | | | <u>+</u> | | |
| | E | | | | | | | | | | | | | F E | ×··· | |
| | E | | | | | | | | | | | | | F | • × • | |
| 13.80 14.00-14.4 | | 14.00 | | | S28 | Below | 14.00 | m, become | s slig | htly g | ravelly | · . | | <u> </u> | × · · | |
| | E | (13.10 |) | | | | | | | | | | | L L | • × • | |
| 14.50-15.00 | в | | | | | | | | | | | | | F | 0 · · × · · · | 1 |
| 14.80 | - D | | | | | | | | | | | | | F | • × • • | |
| | F | | | | | | | | | | | | | F | 0 | |
| 15.50-15.9 | 5 L D | 15.00 | | | S 17 | | X | | | | | | | F | × • • | |
| 15.50-15.9. | Ē | (14.90) | | | 517 | | | | | | | | | F | 0 | |
| 16.00-16.50 | рв | | | | | | | | | | | | | Ę | × | |
| 16.30 | - D | | | | | | | | | | | | | F | 0 | |
| | | | | | | • | | | | | | | | ŧ. | × | |
| 16.80-17.2 | 5 D | 16.50 (16.40 | | | s 30 | | | | | | | | | ‡ F | • × • • • | |
| | F | (10.40 | 1 | | | | | | | | | | | F | × | |
| 17.50-18.00 | рв | | | | | | | rown_slig | | | | | | 17.30 | | 65.19 |
| 17.70 | D | | | | | of sa | ndy cla | ccasional ay. Grave rse quart | l is s | ubangu | lar to | m in si subrour | lze) nded | t t | 0. 0 | |
| | - | | | | | TTHE | co coa. | ise quait | zite a | | | | | <u>+</u> | | |
| | F | | | | | | | | | | | | | | 0.0.0 | |
| | E | | | | | | | | | | | | | F | | |
| 18.80-19.2 19.00-19.5 | | 18.20 (18.60 |) | | S25 | | | | | | | | | <u> </u> | 0 | |
| | E | | | | | | | | | | | | | Ł | | 1 |
| | - | | | | | | | | | | | | | F | | |
| 19.80 | - D | | | | | | | | | | | | | F | 0 | |
| 20.00-20.4 | 5 | 19.50 (19.70 |) | | C15 | | | | | - | | | | - | | - |
| Boring Donth Hole | | Toobaigu | | Crow | Progre | Depth | Depth to | Data | Time | Depth | | | in | Depth | | rks on |
| Depth Dia | | Techniqu | e | Crew | of Hole 26.50 | Cased 24.00 | Water DRY | Date 25/08/21 | Time 08:00 | Struck | Cased | KUSE IU | Mins | Sealed | Groun | dwater |
| | | | | | 35.10 | 24.00 | DRY | 25/08/21 | 18:00 | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Remarks | GS | | | | - | + | | | | - | • | * | • | Log | | PS DRB |
| Symbols and abbreviations are | | | | | | | | | | | | | | Figu | re : | 2 of 4 19/11/2021 |
| explained on the accompanying | | | | | | | | | | | | | | | | |
| key sheet. All dimensions | Loggod in | accordance | with RS50 | 30.2015 | L A 1.2020 | | | | | | | | | ٩ | Maint | mes |

BOREHOLE RECORD - Cable Percussion Project EQUINOR FEED PHASE 1 INVESTIGATIONS Borehole Engineer BH4-09 J MURPHY & SONS LIMITED Project No PC218256 National Grid Coordinates 612210.814E 341646.633N Client Ground Level 82.49 m OD J MURPHY & SONS LIMITED Sampling Properties Strata Scale 1:50 Depth Cased & Sample Strength w SPT N Level Description Depth Depth Leaend Туре (to Water) kPa % m OD At 21.30m, very dense. s50/95 21.30-21.52 21.00 D (20.60 60.69 21.80-22.30 21.80 B D 22.00 23 Very stiff yellowish brown slightly gravelly slightly sandy calcareous SILT. Gravel is subangular fine to coarse flint. 22.50 (DRY) s50/ 190 22.80-23.14 D 23.00-24.00 в 23.50 D 24.00-24.22 s50/ 24.00 D (DRY) 125 24.50-25.00 в 24.80 D UT66 25.00 24.00 (DRY) 25.45-25.60 D 26.20-26.65 D 24.00 **5**44 (DRY) 27.00-27.50 в 27.20 D 27.50-27.95 D 24.00 s38 (DRY) 27.90 54.59 CHALK recovered as white and yellowish brown slightly sandy slightly gravelly SILT. Gravel is very weak, low density and white with occasional black specks. 28.00-28.50 в 28.30 D 20 28.90 UT74 24.00 144 21 (DRY) 29.35-29.50 D 30.00-30.24 s50/ D 24.00 (DRY) 110 Boring Progress Groundwater IOL Denth Depth Depth to Depth Depth Depth Remarks on Depth Technique Crew Date Time Rose to Water Mins of Hole Cased Struck Cased Sealed Groundwater Dia Remarks 🔜 Logged by Checked by PS DRB Symbols and Figure 3 of 4 abbreviations are 19/11/2021 explained on the accompanying eeinteeloep key sheet. All dimensions Logged in accordance with BS5930:2015 + A1:2020 are in metres.

| BOR Project | | | | 1 INVES | | | Enginee | | J MURPHY | & SON | S T.TMT | ספי | | Boreho | le E | H4-09 | |
|---|-------------------------------------|----------------|--------------------------------|-------------------|-----------|------------------|--------------------|-------------------|----------------------|--------------|-----------------|----------------|---------|------------|-------------------|-------------------------|-----------------------------------|
| , | HQUIN | OK FEEL | | I INVE | JIGAI | | | | | | 5 DIMI. | | | Project | No f | H4-09 C218256 | |
| | | PHY & S | ONS LIN | | | | Nationa Coordin | ates | 612210.8 341646.6 | 314E 333N | | | | Ground | Level a | | |
| Samplir | ng | Sample | Depth | Prope Strength | | SPT N | Strata | | | | | | | | [| Scale 1 | |
| Depth | | Туре | Depth Cased & (to Water) | kPa | % | SPIN | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 30.50-3 | 1.00 | - B - B | | | | | | | | | | | | | | | |
| 31.20 | | D | | | | | | | | | | | | | - | | |
| 31.40 31.85-3 | 2.00 | UT65 D | 24.00 (DRY) | | | | | | | | | | | | <u>_</u> | | |
| 33.00-3 | | | 24.00 | | | \$50/ | | | | | | | | | | | |
| 33.50-3 | 4.00 | - - - B | (DRY) | | | 145 | | | | | | | | | | | |
| | | - | | | | | | | | | | | | | | | |
| 34.20 34.50 | | D UT72 | 24.00 (DRY) | | 21 | | | | X | | | | | | | | |
| 34.95-3 | 5.10 | - - D | (2007) | | | | | | | | | | | | - - - 35.10 | | 47.39 |
| Boring | Hole | | Technicu | | | Progre | Depth | Depth to | | Id of B | Grour | ndwate | | in | Depth | | rks on |
| Depth | Hole Dia | | Techniqu | e | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| | | | | | | | | | | | | | | | | | |
| Remark Symbols and abbreviation explained or accompanyi key sheet. All dimensio are in metre | nd ns are n the ing ons | | accordance | e with BS59 | 30:2015 + | A1:2020 | | | | 1 | | <u> </u> | 1 | | Figu | ecked by | PS DRB 4 of 4 19/11/2021 |

| roject | EQUIN | IOR FEEI | PHASE | 1 INVE | STIGATI | IONS | Enginee | r | J MURPHY | & SON | S LIMI | TED | | Boreho Project | | H4-10 | |
|--------------------------|------------------|--------------------|---------------------|-------------------|----------------|------------------|-------------------------|---------------------------|--|------------------|-----------------|-------------------|---------------|-------------------|-----------------|---------------------------------------|----------------------------|
| ient | | RPHY & S | SONS LIN | | rtioc | | National Coordina | ates | 612744.8 342056.6 | | | | | Ground | Level 3 | 6.10 m Scale 1 | OD |
| ampl | ing | Sample | Depth Cased & | Prope Strength | | SPT N | Strata | | | | | | | | | | :50 Leve |
| epth | | Туре | (to Water) | | % | 5111 | Descript | tion | | | | | | | Depth G.L. | Legend | m OD 36 |
|).20).30).50- | • 0.30 • 1.00 | B D ES B | | | | | SAND subro | with me unded f | DE GROUND edium cob Elint. Gr Eine to c | ble co avel i | ntent s suba | of suba ngular | ingular to | to | 0.30 | | 35. |
|).60).70 | | D ES | | | | | | | own grave ar to sub | | | | | | - | • × • • • | |
| | 1.65 2.20 | _ D В | 1.20 (DRY) | | | S6 | | l is su | sh brown ıbangular | | | | | | 1.30 | | 34 |
| .80 | | _ D | | | | | | • | | | | | | | - | · · · · · · · · · · · | |
| 2.20- | 2.65 | D | 1.50 (DRY) | | | S11 | Firm | browns | lightly | gravel | lv san | dv CLAN | with | | 2.20 | · · · · · · · · · · · · · · · · · · · | 33 |
| 2.50- | 3.20 | в | (Diti) | | | | occas | ional <u>p</u> l is su | bockets (bangular | up to | 50mm i: | n size) | of sam | | - | | |
| 3.00 3.20 | | D - - UT26 | 1.50 | | 14 | | | | | | | | | | | · · · · · | |
| | · 3.80 | D | (DRY) | | | | | | | | | | | | - | | , |
| | | - | | | | | Below | 4.20m | becomes | stiff | | | | | - | · · · · · · · | |
| .20- | 4.65 | D | 1.50 (DRY) | | | S16 | 2020** | | | | • | | | | - | ····· | |
| | | - | | | | | | | | | | | | | - - - | · · · · · · | |
| | . | È _ | | | | | | | | • | | | | | | 0.000 | |
| .10- .20 | 6.00 | - В - D | | | | | | | f grey s l is suba | | | | | | 5.10 | ····· | 31 |
| 5.50 | | _UT31 | 3.00 (DRY) | | | | | e chall | | - <i></i> ar | bu | | | | - | · · · · · · · · · · · · · · · · · · · | |
| .95- | 6.10 | - - - D | | | 12 | | Below | 6.10m | , becomes | brown | _ | | | | - - - | ····· | |
| | | | | | | | | •=• | | | | | | | - | | |
| .50- | 6.95 | D | 3.00 (DRY) | | | 519 | | | | | | | | | - | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| | 7 | - | | | | | | | rown grav | | | | | der | 6.70 | | 29 |
| .00- | 7.50 | В - - D | | | | | clay. | | pockets (l is suba c. | | | | | | | 0 | |
| - | | Ę | | | | | | | | | | | | | - - | | |
| .70- | 8.11 | D | 7.50 (DRY) | | | \$52/ 255 | | | | | | | | | 7.80 | · · · · · · · · · · · · · · · · · · · | 28 |
| | | - - | , | | | | | | vish brow ıbangular | | | | | | - | • × • | |
| .50- | 9.00 | - - - в | | | | | | | | | | | | | - | × | |
| .70 | | - D | | | | | | | | | | | | | - | • × • • • | |
| | 9.50 | в | 9.00 | | | C39 | | | | | | | | | - | × · · · | |
| | | E | (DRY) | | | | | | | | | | | | - | • × • • | |
| | | E | | | | | | | | | | | | | - | × · · · | |
| | 10.50 | - D В | | | | 64 5 | | | | | | | | | - - | •ו•• | |
| .00- pring | | | ļ | ļ | | C45 Progre | | | | | | ndwate | er | | | | ļ |
| pth | Hole Dia | | Technique | | Crew | Depth of Hole | Depth I Cased | Depth to Water | Date | Time | Depth Struck | | Rose to | in Mins | Depth Sealed | | rks on dwater |
| .20 .45 | 0.15 | Inspect Cable I | ion Pit Percussi | | MR/SS MR/SS | 10.00 | 10.00 10.00 20.00 | DRY | 18/08/21 18/08/21 19/08/21 19/08/21 | 18:00 08:00 | | 17.20 | 15.90 | 20 | | Moderate | infl |
| emar | ks д | Inspect ES same | ion pit | hand x vial | excavat | ed to | 1.20m de | epth ar d 2 am | nd no ser Der jar. | vices | were f | ound. | ļ | | Log | | ECAD |
| | and ons are | Water w | vas adde | ed to a | ssist k | poring | between | 6.70 a | and 20.00 grout up | m. | | | | | Che Figu | ire i | DRB 1 of 3 19/11/203 |
| lained ompar sheet | | | | | | | | | | | | | | | | | നിച |
| dimens in met | | | | with BS59 | | | | | | | | | | | بالع | للكحميد | ոտե |

| Project _{EQUI} | NOR FEE | D PHASE | 1 INVE | STIGAT | IONS | Engine | er | J MURPHY | (& SON | IS LIMI | TED | | Boreho Project | le E No P | BH4-10 C218256 | |
|---|--------------------------------------|----------------------------------|-----------------|--------|------------------|--------------------|---------------------|----------------------|----------------|-----------------|---------|---------|--------------------------|---|---|-------------------------------------|
| Client _{ச MU} | RPHY & S | SONS LIN | IITED | | | Nationa Coordii | al Grid nates | 612744.8 342056.6 | 302 E 509 N | | | | Ground | Level 3 | 36.10 m | OD |
| Sampling | | | Prope | rties | | Strata | a | | | | | | | | Scale 1 | :50 |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descri | otion | | | | | | | Depth | Legend | Leve m OD |
| 10.70 11.00-11.39 11.10-11.60 | - | 10.00 (DRY) 11.00 (DRY) | | | C50/ 235 | Below | v 11.101 | n, become | es slig | htly g | ravelly | ·. | | | | V / / / / / / / / / / / / |
| 11.80 12.00-12.50 12.00-12.45 | | 12.00 (DRY) | | | S41 | | | | | | | | | | | |
| 12.80 13.00-13.50 13.00-13.45 | | 13.00 (DRY) | | | S29 | Belo | w 13.001 | n, become | es medi | um den: | se. | | | | • × • • • • • • • • • • • • • • • • • • | |
| 13.80 14.00-14.45 14.20-14.60 | - | 14.00 (DRY) | | | S16 | Below | w 14.201 | n, become | s very | grave | 11y. | | | | | |
| 14.80 15.00-15.50 15.00-15.45 | - - - - - - - - | 15.00 (DRY) | | | C12 | | V | | | | | | | | 5 X | |
| 15.80 15.90-17.20 15.90-17.20 16.00-16.50 16.00-16.45 | - D - W - W - B | 16.00 (DRY) | | | C1 0 | | | | | | | | | - - - - - - - - - - - - - - - - - - - | ▼ • × • • • • • • • • • • • • • • • • • | |
| 16.80 17.00-17.50 17.00-17.45 | - - D - B - - | 17.00 (DRY) | | | C14 | | | | | | | | | | ∑ | |
| 17.80 18.00-18.50 18.00-18.45 | - D - B - - - | 18.00 (16.80) | | | C20 | Belo cobb | v 18.00 Le conte | n, become ent. | s very | grave | lly wit | h a low | | | | |
| 18.70 19.00-19.50 19.00-19.45 | - D - B | 19.00 (16.20) | | | C18 | | | | | | | | | | | |
| 19.80 20.00-20.45 Boring | - - - | 20.00 (17.10) | | | c17 | ess | | | | Grour | ndwate | r | | | × • • • • × ~ • • • • • • | |
| Depth Dia | | Techniqu | е | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | Depth | Rose to | in Mins | Depth Sealed | | arks on ndwater |
| Remarks E Symbols and abbreviations are explained on the | 9 | | | | | | | | | | | | | Loç Che Figi | ecked by ure | ECAD DRB 2 of 3 19/11/2021 |

are in metres. Logged in accordance with BS5930:2015 + A1:2020

| | | NOR FEED | | | | | Engineer | | J MURPHY | & SON | S LIMI | red | | Borehc Project | le B No ₽ | H4-10 C218256 | |
|--|--|----------------|--------------------------------|-----------------|---------|---------|----------------------|--------------|----------------------|------------|-----------------|--------|---------|--------------------------|--------------|------------------|-------------------------------------|
| Client | JMU | RPHY & S | ONS LIN | 1ITED | | | National Coordina | Grid ates | 612744.8 342056.6 | 02E 09N | | | | Ground | Level 3 | 6.10 m | OD |
| Sampl | | | | Proper | | | Strata | | | | | | | | | Scale 1 | |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descript | ion | | | | | | | Depth | Legend | Level m OD |
| | | | | | | | | | Er | d of B | orehole | | | | | | 15.6 |
| Boring | | | | | | Progre | ess | | | | Grour | idwate | r | | <u> </u> | | |
| Depth | Hole | - | Techniqu | e | Crew | Depth | Depth L | Depth to | Date | Time | Depth Struck | | Rose to | in Mins | Depth | | rks on |
| | Dia | | | | | of Hole | Cased | vvater | | | STRUCK | Cased | | Mins | Sealed | Groun | dwater |
| Remar Symbols a abbreviatii explained accompan key sheet. All dimens are in met | and ons are on the nying sions | - | | e with BS59: | 20-2045 | A1:2020 | <u> </u> | | + | ļ | I | | | <u> </u> | | cked by | ECAD DRB 3 of 3 19/11/2021 |

Project EQUINOR FEED PHASE 1 INVESTIGATIONS

Engineer

J MURPHY & SONS LIMITED

Borehole Project No

BH4-11 PC218256

612515.787E 341557.413N National Grid Client Coordinates Ground Level 51.57 m OD J MURPHY & SONS LIMITED Properties Strata Scale 1:50 Sampling Depth Cased & Sample Strength w SPT N Level Depth Description Depth Leaend Туре (to Water) kPa % m OD G.L. 51.57 TOPSOIL: Dark brown gravelly slightly clayey sand with a low cobble content of subrounded flint and occasional rootlets. Gravel is angular to 0.40 51.17 B D 0.40- 0.80 subrounded fine to coarse flint. × 0.40 Orangish brown gravelly slightly silty SAND. Gravel is angular to subrounded fine to medium flint. 0.80- 1.20 в 0.80 D Below 1.20m, becomes medium dense. 1.20 (DRY) 1.20- 1.65 D s13 2.00- 2.50 в 2.00 2.00- 2.45 D D 1.70 S16 (DRY) × 3.00- 3.45 L D 3.00 s20 (DRY) × 3.50- 4.00 B D 3.50 4.00- 4.45 S30 4.00 Below 4.00m, becomes D dense. (DRY) 5.00- 5.45 в 5.00 46.57 Dense orangish brown very gravelly slightly silty SAND. Gravel is angular to subrounded fine to coarse flint. 5.00 D • ... 5.00- 5.45 D 4.50 \$39 2 (DRY) × s47 6.00- 6.45 D 6.00 (DRY) 6.50- 7.00 в 6.50 D × 7.00- 7.45 D 7.00 549 (DRY) 8.00- 8.50 в 8.00 D D 8.00- 8.45 7.50 S47 (DRY) 9.00- 9.45 D 9.00 S42 (DRY) 9.50-10.00 B D 9.50 10.00-10.45 D 10.00 S43 (DRY) Boring Progress Groundwater Iole Denth Depth)enth to Depth Depth Depth Remarks on Depth Technique Crew Date Time Rose to Mins of Hole Cased Water Struck Cased Sealed Groundwater Dia 0.40 27/08/21 08:00 1.20 Inspection Pit KR/BE G.L 18.00 Seepage. 27/08/21 27/08/21 31/08/21 31/08/21 01/09/21 1.20 1.20 15.45 15.00 0.20 Cable Percussion KR/SR NTT. DRY 18:00 Cable Percussion KR/SR 25.51 0.15 NIL DRY 08:00 15.00 22.00 18:00 08:00 DRY 15.45 DRY 01/09/21 51 00 DRY 18:00 Inspection pit hand excavated to 1.20m depth and no services were found. Backfill details from base of hole: bentonite grout up to ground level. Remarks Logged by Checked by ECAD DRB 1 of 3 Symbols and Figure abbreviations are 19/11/2021 explained on the accompanying eeinteeloep key sheet. All dimensions Logged in accordance with BS5930:2015 + A1:2020 are in metres.

| BOR | REH | OLE | REC | ORL |) – | Cat | | | sion | | | | | | | | |
|--|--------------------------|---|----------------------------------|-----------------|--------|-------------|--------------------|----------------------|---|--------------------|---------|---------|----------|-------------------|----------|--|-----------------------|
| Project | EQUIN | OR FEED | PHASE | 1 INVES | STIGAT | IONS | Engine | er | J MURPHY | ∕& SON | IS LIMI | TED | | Boreho Project | le No | BH4-11 PC218256 | |
| Client | J MUR | PHY & S | ONS LIN | AITED | | | Nationa Coordir | al Grid nates | 612515. 341557.4 | | | | | Ground | Level | 51.57 m | n OD |
| Samplir | ng | | | Prope | rties | | Strata | Э | | | | | | | | Scale | 1:50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 11.00-1 11.00 11.00-1 | | - B - D - D | 10.50 (DRY) | | | S43 | | | | | | | | | | | <i></i> |
| 12.00-1 | L2.45 | - - - - - - | 12.00 (DRY) | | | S41 | | | | | | | | | | × * | |
| 12.50-1 12.50 | | - B - D | | | | | Below | w 12.50m | n, with a | a low c | obble (| content | • | | | • • • • • • • • • • • • • • • • • • • | |
| 13.00-1 | L3.45 | | 13.00 (DRY) | | | C43 | GRAVE flint | IL with | ish brown a low co al is and | obble c | ontent | of sub | angula | r | 13.0 | 0 | 38.57 |
| 14.00-1 14.00 14.00-1 | | B - D - - | 14.00 (DRY) | | | С39 | | | | | | | | | | ************************************** | |
| 15.00-1 | L5.45 | - - | 15.00 (DRY) | | | C41 | | V | | | | | | | | × · · · · · · · · · · · · · · · · · · · | |
| 15.50-1 15.50 16.00-1 | | В | 16.00 | | | C38 | Below sand | w 15.50m | n, slight | ly gra | velly | slightl | y silt | Ŧ | | × • • • • • • • • • • • • • • • • • • • | |
| 17.00-1 17.00 17.00-1 | | - - - - - - - - - - - - - - - - - - - | (DRY) 17.00 (DRY) | | 27 | S46 | sandy low d | y slight density, | ered as w ty grave white w subangula | elly SI with ra | LT. Gr | avel is | very | | 16.9 | 0 + + + + + + + + + + + + + | 34.67 |
| 18.00-1 18.00-1 18.50-1 18.50 | L8.45 | D | 18.00 (dry) 18.00 (DRY) | | | S50 | | | | | | | | | | | |
| 19.00-1 | L9.37 | - - - - - - - - | 19.00 (DRY) | | | S50/ 220 | | | | | | | | | | | |
| 20.00-2 Boring | 20.50 | В | | | | Progr | | | | | Grouv | ndwate | r | | - | | |
| Depth | Hole | - | Techniqu | 9 | Crew | Depth | Depth | Depth to | Date | Time | Depth | Depth | Rose to | in | Depth | | arks on |
| Zopul | Dia | | . som nyu | - | | OT HOLE | Cased | Water | Juit | | Struck | Cased | | Mins | Sealed | Grou | ndwater |
| Remark | | | | | | 1 | ļ | <u> </u> | | ļ | | ļ | <u> </u> | <u> </u> | Ch | gged by necked by gure | ECAD DRB 2 of 3 |
| abbreviation explained o accompany key sheet. | ns are on the ring | | | with BS59 | | | | | | | | | | | | | 19/11/2021 |

| lient _{J M} | JRPHY & S | ONS LIM | IITED | | | National Grid Coordinates | 612515.78 341557.43 | | | | | Ground | Level 51 | .57 m | OD |
|--|-------------------|--------------------------------|-----------------|--------|------------------|--|-------------------------|-------------------|-----------------|----------------|---------|------------|--|-------------|------------------------------------|
| ampling | | | Proper | ties | | Strata | | | | | | | | Scale 1 | :50 |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Description | | | | | | | Depth | Legend | Leve m OD |
| 0.00 0.00-20.3 | - D 5 D - | 20.00 (18.00) | | 26 | S50/ 200 | | | | | | | | | | |
| 1.00-21.3 1.00-21.3 | 3 - | 21.00 (19.00) | | | S50/ 225 | CHALK recove slightly gra extremely we angular to s | avelly sla ak to ver | ightly rv weal | sandy | SILT. | Gravel | is | 21.00 | | 30. |
| 2.00-22.3 | - D | 22.00 | | 25 | s50/ | | Jabangura | | | | | | | | |
| 2.00-22.4 | - | (20.00) 22.00 (20.00) | | | 210 | | | | | | | | | | |
| 3.00-23.5 3.00-23.4 | | 22.00 (22.00) | | | S50/ 260 | | | | | | | | | | |
| 4.00-24.3 | 4 _ D | 22.00 (22.00) | | | s50/ 190 | | $\langle \rangle$ | | | | | | | | |
| 4.50-25.00 4.50 | р <u>в</u> - р | | | 25 | | | | | | | | | | | |
| 5.00-25.4 | | 22.00 (22.00) | | | \$50/ 255 | | | 1.6.5 | orehole | | | | 25.41 | | 26 |
| | | • | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | - - - - - - - - - - | | |
| | | | | | | | | | | | | | | | |
| oring | | ļ | | | Progr | | , | | | ndwate | 1 | in | Donth | Dom - | rks cr |
| Depth Dia | | Technique | e | Crew | Depth of Hole | | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | irks on idwater |
| emarks 🖁 | <u>0</u> | | | | | | | | | | | | 1 | od by | 803- |
| mbols and breviations are plained on the companying | | | | | | | | | | | | | Logg Chec Figur | ked by e | ECAD DRB 3 of 3 19/11/202 |

| roject | EQUIN | IOR FEEI | D PHASE | 1 INVES | STIGATI | IONS | Engine | ər | J MURPHY | & SON | S LIMI | red | | Boreho Project | | H5-12 | |
|---------------|------------------|------------------------------|----------------------|-----------------|----------------|---------------|---------------------------------|---|--|------------------------------|---------------------------|--------------------|-------------------|-------------------|-----------------|--|------------------|
| Client | ј мир | PHY & S | SONS LIN | IITED | | | Nationa Coordii | | 613042.0 340429.6 | | | | | Ground | Level 81 | 1.16 m | OD |
| Sampl | | u . | | Prope | rties | | Strata | | | | | | | oround | | Scale 1 | |
| Depth | | Sample Type | Caseu a | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| - | | туре | (to Water) | кга | 70 | | | | | | | | | | G.L. | | 81.1 |
| 0.20 0.20 | • 0.30 • 1.00 | B D ES B D ES | | | | | with in d: to co Orang | occasio iameter) parse fl gish bro | rk brown onal root). Gravel Lint and own very | lets and is any chalk. | nd rar gular lv sil | e roots to subr | (up to ounded | o 10mm fine | 0.30 | | 80.8 |
| | 2.20 1.65 | - - - в - | 1.20 (DRY) | | | C25 | sand coars | . Gravel se flint | ockets (L is angu and qua , medium | lar to rtzite | subro | in size unded f |) of br ine to | rown | | × • • • • • • • • • • • • • • • • • • • | |
| 2.00 | | - - - - | | | | | | | | | | | | | | | |
| | 3.20 2.65 | - B | 2.10 (2.10) | | | C24 | | | | | | | | | | | |
| | 4.20 | D В | | | | | | | | | | | | | 3.20 | | 77.9 |
| 3.20- | 3.65 | | 3.10 (3.00) | | | C47 | Grave flint | el is an t and qu | ish brown ngular to martzite. becomin | subro | unded : | Eine to | RAVEL. | 2 | | × · · · · · · · · · · · · · · · · · · · | |
| 4.00 4.20- | 5.20 | _ D - В | | | | | | • | | | | | | | Ļ F | × · · · | |
| 4.20- | 4.59 | - - - - | 4.20 (3.10) | | | C50/ 240 | | | | | | | | | | * * * * * * * * * * * * * * * * * * * | |
| 5.00 | | D | | | | | Very | dense (| orangish occasion | brown | very s | andy sl | ightly | silty | 5.20 | | 75.9 |
| | 5.79 6.50 | D | 5.30 (4.60) | | | \$50/ 235 | of bi | rown cla parse fl | ay. Grave | l is a | ngular | to sub | rounded | fine | | · · · · · · · · · · · · · · · · · · · | |
| | 6.95 7.50 | - - - - B | 6.50 (6.10) | | | C38 | | | | | | | | | - 6.60 | · · · · · · · · · · · · · · · · · · · | 74.5 |
| 7.00 | | - - - - - | | | | | GRAVI | EL. Grav | ish brown vel is an : and qua | gular | to sub: | | | | | | |
| | 8.25 9.00 | - - - в | 7.60 (DRY) | | | C19 | Below | v 7.80m, | , medium | dense. | | | | | | | |
| 8.50 | | - - - | | | | | | | | | | | | | | ************************************** | |
| | 9.65 | - - - - В | 9.00 (8.80) | | | C13 | Mediı | m dense | e brown g | ravell | y SAND | with a | low co | obble | 9.40 | · · · · · · · · · · · · · · · · · · · | 71.7 |
| | | - - - - | | | | | conte | ent of s ngular t | subangula to subrou | r to s | ubround | ded fli | nt. Gra | avel | | | |
| Boring | | | <u> </u> | | | Progre | | | | | | ndwate | | | | | <u> </u> |
| Depth | Hole Dia | | Techniqu | e | Crew | | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| 1.20 15.45 | 0.15 | | tion Pit Percussi | | MR/SS MR/SS | G.L. 15.45 | 12.50 | DRY | 08/09/21 08/09/21 | | | | | | | None end during b possibly obscured added wa | oring, by |

| Remarks Symbols and abbreviations are | Inspection pit hand of SES sample = 2 x vial Water was added to as Backfill details from | , 1 x plastic ssist boring | : jar a betwee | nd 2 am n 1.20 a | ber jar. and 11.40 |)m. | | | | jed by cked by re | AS DRB 1 of 2 19/11/2021 |
|--|---|-------------------------------|-------------------|---------------------|-----------------------|-----|--|--|----|-------------------------|-----------------------------------|
| explained on the accompanying key sheet. | | | | | | | | | e | | كأشر |
| All dimensions | Longed in accordance with BS59 | 30·2015 + A1·2020 | | | | | | | 0- | | |

| Project _{EQUIN} | IOR FEED | PHASE | 1 INVES | STIGAT: | IONS | Engine | er | J MURPHY | (& SON | S LIMI | red | | Boreh Project | ole I No 1 | BH5-12 PC218256 | |
|---|-----------------|--------------------------------|-----------------|---------|------------------|--------------------|--------------------|----------------------------------|-------------------|--------------------|-----------------|-------------------|------------------|-----------------|---|---|
| lient _{J MUE} | RPHY & S | SONS LIN | IITED | | | Nationa Coordir | al Grid | 613042.0 340429.0 | | | | | - | | 31.16 M | OD |
| Sampling | | | Prope | rties | | Strata | | | | | | | | | Scale | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 10.30 10.70-11.15 | - D | 10.50 (9.60) | | | C14 | | | | | | | | | | | V / / / / / / / / / / / / / / / / / / / |
| 11.40-12.30 | - - B - | | | | | Firm | cream s | andy SII | JT. | | | | | 11.40 |) ***** ***** ***** | 69.7 |
| 12.00 | D | | | 21 | | | | | | | | | | <u> </u> | × · · × · ` . × · × × · · × · | |
| 12.30-12.75 | - UT27 | 12.30 (DRY) | 102 | 18 | | Below | v 12.30m | , becom | ing sti | ff. | | | | | × × × × × × × × × × × × × × × × × × × | |
| 12.75-12.90 13.00-13.45 | ם - - - ס | 12.50 | | | s27 | | | | | | | | | F F | | |
| | - | (DRY) | | | | | | | | | | | | | × · · × × · · × · × · × | |
| 13.30-14.00 13.50 | B D | | | | | SILT | with a ounded c | ream sli medium o halk and | cobble i flint | content . Grave | c of su | bangula ngular | ar to | 13.30 |) ************************************ | 67.86 |
| 14.00-14.45 | UT42 | 12.50 (DRY) | 177 | 15 | | subro | ounded f | ine to d | coarse | cnalk a | and III | nt. | | | × • × 4 | |
| 14.45-14.60 | D | | | | | | | | | | | | | | × * × * * * * * * * * * * * * * * * * * | |
| 15.00-15.45 | D | 12.50 (DRY) | | 17 | s31 | | | | | | | | | | × × × × × × × × × × × × × × × × × × × | |
| Boring Denth Hole | | Technique | | | Progra | Depth | Depth to | | | Depth | idwate Depth | 1 | | 15.4 | Rem | - 65.71 arks on |
| Depth Hole Dia | | Techniqu | е | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | o in Mins | Depth Sealed | | arks on ndwater |
| | | | | | | | | | | | | | | | | |
| Remarks Symbols and abbreviations are explained on the accompanying key sheet. | | | e with BS59 | | 1 | <u> </u> | <u> </u> | | ļ | <u> </u> | <u> </u> | <u> </u> | <u> </u> | Ch Fig | gged by ecked by ure | AS DRB 2 of 2 19/11/2021 |

Project EQUINOR FEED PHASE 1 INVESTIGATIONS

Engineer

J MURPHY & SONS LIMITED

Borehole Project No

BH5-13 PC218256

National Grid 613160.433E Client 340381.438N Ground Level 85.04 m OD J MURPHY & SONS LIMITED Coordinates Sampling Properties Strata Scale 1:50 Depth Cased & Sample Strength w SPT N Level Depth Description Depth Leaend Туре (to Water) kPa % m OD 85.04 G.L. TOPSOIL: Dark brown slightly gravelly silty sand with occasional rootlets and a medium cobble content of subangular flint. Gravel is subangular 0.10- 0.30 B D 0.20 ES 0.30 84.74 to angular fine to coarse flint. 0.50- 1.00 B D 0.60 Orangish brown silty SAND & GRAVEL. Gravel is subangular to subrounded fine to coarse flint. 0.60 ES At 1.20m, very dense. 1.20- 1.65 1.20 C50/ (DRY) 295 1.50- 2.50 в 2.00 D At 2.50m, medium dense. Below 2.70m, with many pockets (up to 50mm in size) of sandy silt. 2.50- 2.95 2.50 C19 (1.60)2.70- 3.50 в 3.00 D 16 3.50- 3.90 в 3.50 81.54 Firm orangish brown mottled dark brown slightly gravelly sandy CLAY. Gravel is angular to subangular fine to coarse flint and chalk. 3.50-3.95 р 3.20 S13 (3.40)3.70 D 3.90 81.14 3.90 - 4.90в Firm light brown and cream slightly sandy slightly gravelly SILT. Gravel is angular to subrounded fine to coarse chalk. D 20 4.20 4.90- 5.35 D 4.50 59 (DRY) 5.40 79.64 Light brown slightly gravelly SAND with a high cobble content of subrounded chalk and flint. Gravel is angular to subrounded fine to coarse 5.40- 6.20 в chalk and flint. 5.80 D 6.20- 7.50 B D 6.20- 6.65 **S**30 6.00 78.64 6.40 (DRY) Medium dense light brown very silty SAND 7.00 D S16 7.50- 7.95 D 7.50 (DRY) Dark brown gravelly silty SAND with a medium cobble content of subangular to subrounded chalk. Gravel is subrounded fine to coarse chalk and flint. ** Driller notes presence of occasional brains 8.10- 9.00 в 8.10 76.94 8.50 D Driller notes presence of occasional bands of chalk. 9.00-10.00 76.04 в 9.00 D 9.00 s41 Dense light brown very silty SAND 9.00- 9.45 (DRY) 9.50 D 10.00-10.45 D 9.50 \$39 (DRY) Boring Progress Groundwater IOL Denth Depth)enth to Depth Depth Denth Remarks on Depth Crew Date Rose to Technique Time Water Cased Mins Sealed Dia of Hole Cased Struck Groundwater 09/09/21 08:00 None encountered 1.20 Inspection Pit MR/SS G.L 09/09/21 10/09/21 10/09/21 11.30 11.30 15.25 0.15 Cable Percussion MR/SS 11.00 DRY 18:00 during boring, 08:00 possibly 11.00 DRY 15.25 11.00 DRY 18:00 obscured by added water. ES sample = 2 x vial, 1 x plastic jar and 2 amber jar. MS Water was added to assist boring between 1.20-3.90m and 10.20-11.30m. Inspection pit hand excavated to 1.20m depth and no services were found. ** Drillers description. Remarks Logged by Checked by CR/PS DRB 1 of 2 Symbols and Figure abbreviations are 19/11/2021 Backfill details from base of hole: bentonite grout up to ground level. explained on the accompanying ezimbelogo key sheet. All dimensions Logged in accordance with BS5930:2015 + A1:2020 are in metres.

| roject _{EQU} | INOR FEEI | D PHASE | 1 INVES | STIGAT | IONS | Engineer | J MURPH | Y & SONS | S LIMIT | ED | | Boreho Project | No 1 | BH5-13 PC218256 | |
|---|-------------------------------------|--------------------------------|-----------------|--------------|------------------|--|--|--------------------------------|--------------------|------------------|------------------|-------------------|------------------------------|--|--------------------------------------|
| lient _{J M} | JRPHY & S | SONS LIN | 1ITED | | | National Grid Coordinates | 613160. 340381. | 433 E 438 N | | | | Ground | Level a | 35.04 m | OD |
| Sampling | | _ | Prope | | | Strata | | | | | | | | Scale 1 | :50 |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Description | | | | | | | Depth | Legend | Level m OD |
| 10.20-11.00 | р в | | | | | **Below 10 | .20m, Dri | ller not | tes, ma | ny ban | ds of c | halk. | | × · · · × | |
| 10.80 | - - - | | | | | | | | | | | | | × · · · × · | |
| 1.30-11.79 1.40-12.50 | 5 D D B - - - - D | 11.00 (DRY) | | 18 | S20 | Stiff crea with a med subrounded subrounded Between 12 | lium cobbl chalk an chalk an | e conten d flint d flint | nt of s . Grave | ubangu l is a | lar to ngular | to | | x x x x x x x x x x x x x x x x x x x | 73.6 |
| 2.50-12.9 | 5 UT67 | 11.00 (DRY) | | | | 100mm in s | ize) of o | rangish | brown | sand. | | | | × * * * * * * * * * * * * * * * * * * * | |
| 12.95-13.10 | | | | | | | | | | | | | | 2 X 4 X X 5 X X X 7 X X X 7 X X X 7 X 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1 | |
| 13.50-14.50 13.50-13.99 | | 11.00 (DRY) | | | S42 | Below 13.5 | 0m, becom | ing a de | ense ve | ry sil | ty sand | l | | × • • × • • × • • × • × • • × • • • • × • • × • * | |
| 4.20 | - D | | | 22 | | | | | | | | | | × • × • × • × • × • × • × • × • × • × • | |
| 4.80-15.2 | 5 D | 11.00 (DRY) | | | s32 | | | nd of Bo | rehole | | | | 15.2 | | 69. |
| | - - - - - | | | | | | Ē | na or Bo | orenoie | | | | + - - - - | | |
| | | | | | | | | | | | | | | | |
| | | | | \checkmark | | | | | | | | | | | |
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| | - - - - - | | | | | | | | | | | | <u> </u> − − − − | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Boring | <u> </u> | | | | Progre | 255 | | | Groun | dwate | r | | <u> -</u> | | |
| Depth Dia | | Techniqu | e | Crew | Depth of Hole | Depth Depth | | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | arks on adwater |
| Domarka T | T | | | | | | | | | | | | | | |
| with the second | _ | | | | | | | | | | | | Ch | ure | CR/PS DRB 2 of 2 19/11/2021 |

Engineer

Project EQUINOR FEED PHASE 1 INVESTIGATIONS

J MURPHY & SONS LIMITED

Borehole BH6-14 Project No PC218256

613148.862E National Grid Client 330112.674N Ground Level 25.70 m OD J MURPHY & SONS LIMITED Coordinates Strata Sampling Properties Scale 1:50 Depth Cased & Sample Strength w SPT N Level Description Depth Depth Leaend Туре (to Water) kPa % m OD 25.70 G.L. TOPSOIL: Dark brown slightly gravelly clayey sand with occasional rootlets. Gravel is angular to subrounded fine to coarse flint and quartzite. 0.20- 0.50 в 0.20 D 0.60- 1.00 0.60 25.10 в Soft to firm yellowish brown slightly gravelly sandy CLAY. Gravel is angular to rounded fine to 0.60 ъ 11 coarse flint. Below 1.20m, becoming firm. 1.20 (DRY) 1.20- 1.65 D **S**8 1.50- 2.00 в D 1.60 24.10 1.50 ° x Dense yellowish brown gravelly silty SAND. Gravel is angular to subrounded fine to coarse flint and guartzite. Below 2.00m, with occasional pockets (up to 30mm in 2.00- 2.45 D 1.70 s35 (DRY) size) of silt. 2.50- 3.00 в 2.50 D 3.00- 3.45 D 3.00 s39 (DRY) 22.20 3.50 Dense yellowish brown slightly silty SAND & GRAVEL with occasional pockets (up to 50mm in size) of clay. Gravel is angular to subrounded fine to coarse flint and quartzite. ۰× 4.00 - 4.50в 4.00 D C40 4.00- 4.45 4.00 (DRY) 5.00- 5.45 D 4.50 S42 5.00 20.70 (DRY) Dense dark grey slightly clayey SAND. 5.50- 6.00 в D 5.50 6.00- 6.45 D 6.00 s20 6.00 19.70 (DRY) Stiff dark grey slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint and chalk. 6.50- 7.00 в 7.00 15 D 7.00- 7.45 S20 7.00 7.10 18.60 D ° × Medium dense dark grey gravelly silty SAND with occasional shell fragments (up to 5mm in size). Gravel is angular to subrounded fine to medium (DRY) 7.50- 8.00 в chalk. 8.00- 8.45 7.50 s27 Below 8.00m, with a rare angular to subrounded fine D (DRY) to medium flint gravel. 8.60- 9.00 8.60 17.10 в CHALK, recovered as white slightly sandy slightly 8.60 D gravelly SILT. Gravel is very weak, low density, white with occasional black specks with occasional 9.00- 9.45 D 9.00 22 **S**9 (DRY) subrounded to rounded fine to coarse flint gravel. ▼ ∇ 10.00-10.50 B Boring Progress Groundwater Iole Denth Depth)enth to Denth Depth Denth Remarks on Depth Crew Date Time Rose to Technique Water Mins Sealed Dia of Hole Cased Struck Cased Groundwater Inspection Pit 08/09/21 08:00 Slow inflow. 1.20 KR/SS G.L 10.00 10.00 9.80 20 1.20 08/09/21 09/09/21 15.45 0.15 Cable Percussion KR/SS 1.00 DRY 18:00 DRY 08:00 1.00 15.45 13.50 14.50 09/09/21 18:00 Inspection pit hand excavated to 1.20m depth and no services were found. Backfill details from base of hole: bentonite grout up to ground level. Remarks Logged by Checked by ECAD DRB 1 of 2 Symbols and Figure abbreviations are 19/11/2021 explained on the accompanying ezimbelogo key sheet. All dimensions Logged in accordance with BS5930:2015 + A1:2020 are in metres.

| BOI | REH | OLE | REC | ORL |) - | Cab | ole Pe | ercus | ssion | | | | | | | | |
|---|-------------------------------|----------------------|--------------------------------|-----------------|-----------|------------------|--------------------|-------------------|--------------------|----------------|-----------------|----------------|---------|--------------------------|-----------------|---|------------------|
| Project | EQUIN | NOR FEEI | D PHASE | 1 INVE | STIGAT | IONS | Engine | er | J MURPH | Y & SON | S LIMI | TED | | Boreho Project | No P | H6-14 | |
| Client | JMU | RPHY & S | SONS LIN | 1ITED | | | Nationa Coordir | al Grid nates | 613148. 330112. | 862 E 674 N | | | | Ground | Level 2 | 5.70 m | OD |
| Samp | ling | | | Prope | rties | | Strata | 3 | | | | | | | | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 10.00 10.00- | -10.45 | - D - UTF - | 10.00 (DRY) | | | | | | | | | | | | | | |
| 11.00- | -11.45 | - D | 10.50 (10.00) | | | S8 | | | | | | | | | | | |
| 11.50- 11.50 | -12.00 | - B - D - | | | 22 | | | | | | | | | | | | |
| 12.00- | -12.45 | - D - - | 12.00 (11.50) | | | S11 | Below | v 12.00r | a, flint | gravel | becom | ing rar | e. | | | | |
| 12.50- 12.50 | -13.00 | - в - D - | | | | | | | | | | | | | | | |
| 13.00- | -13.45 | - D - - - | 12.00 (12.50) | | | S12 | | | • | | | | | | | | |
| 14.00 | -14.50 -14.45 | - - - D - D | 13.50 | | 22 | S14 | | • | \langle | | | | | | | | |
| | | | (13.50) | | | | | | | | | | | | | | |
| 15.00- | -15.45 | - - D - | 13.50 (14.50) | | | s15 | | | | | | | | | | | |
| | | | | | | | | | E | nd of B | orehol | e | | | 15.45 | | 10.25 |
| | | | | | | | | | | | | | | | | | |
| | | - | | | | | | | | | | | | | | | |
| | | - - - - | | | | | | | | | | | | | | | |
| | | - - - - | | | | | | | | | | | | | | | |
| | | - - - - | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | - - - - | | | | | | | | | | | | | | | |
| Boring | 1 | - | | | | Progre | ess | | | | Grou | ndwate | r | | - | | |
| Depth | Hole Dia | | Technique | e | Crew | Depth of Hole | Depth | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| | | | | | | | | | | | | | | | | | |
| Remai | |] | | | | <u> </u> | | | | | | | | | Logo | cked by | ECAD DRB |
| Symbols a abbreviati explained accomparkey sheet | ions are I on the nying | | | | | | | | | | | | | | Figu | | |
| All dimens | sions | Logged in | accordance | with BS59 | 30:2015 + | + A1:2020 | | | | | | | | | 5 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | |

| roject | EQUII | NOR FEEI | D PHASE | 1 INVES | STIGATI | IONS | Enginee | er | J MURPHY | & SON | S LIMI | red | | Boreho Project | | H6-15 | |
|--------------------------------|----------------------------|------------------------------|---------------------------------|--------------------------------|--------------------------------------|----------------------------|-------------------------------|-------------------------------|---|---------------------------|------------------------------|----------------------------|--------------------|--------------------------|-----------------------|---|---------------------|
| Client | | RPHY & S | SONS LIN | | | | Nationa Coordin | ates | 613121.3 329971.2 | | | | | Ground | | 8.64 m | |
| Sampl | ling | | | Prope | | | Strata | | | | | | | | | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Leve m OD |
| 0.10 0.20- 0.30 0.40- | - 0.20 - 0.40 - 1.00 | - D - B - D - B | | | | | claye angul quart | y sand ar to s zite. | rk brown with occ subrounde | asiona d fine | l root to coa | lets. G arse fl | ravel i int and | l.s | 0.20 | | 23. 23. |
| 0.50 | | | | | | | angul | ar to s | ly grave subrounde | d fine | to coa | arse fl | int. | | | | |
| | - 1.70 - 1.65 | | NIL (1.05) | | | S5 | \ pocke Loose with | dark occasio | rown slig to 50mm grey very onal pock erial. Gr | in siz sandy ets (u | e) of p slight p to 20 | peat. tly sil Omm in | ty GRAV size) c | /EL of | 1.10 | × · · · · · · · · · · · · · · · · · · · | 22 |
| 2.00 | | - - D | | | | | fine | to coar | rse flint | and q | uartzi | te. | | | + + + | × | |
| | - 2.65 - 2.65 | | 2.15 (1.10) | | | C34 | absen | | | | | | | | + - - - - | × · · · · | , , , |
| 3.00 | | - D | | | | | | | | | | | | | + + | | |
| 3.20- | - 3.60 - 3.65 | - - - | 3.15 (1.10) | | | C36 | | | | | | | | | - 3.60 | × | 21 |
| 3.70- 3.70 | - 4.20 | - в - D | | | 12 | | Stiff Grave chalk | l is ar | grey slig ngular to | htly g subro | ravell; unded | y sandy Eine to | CLAY. medium | ı | | | |
| 4.20- 4.40 | - 4.65 | UT17 EW | 4.15 (DRY) | 103 | 11 | | | | X | | | | | | | ▼ | |
| | - 4.75 | F | | | | | | | | | | | | | | | 1 1 |
| 5.20- | - 5.65 | - - D - | 5.15 (DRY) | | | s25 | | V | | | | | | | - | $\nabla \nabla \cdot \cdot$ | 1 |
| 5.60- 5.60 | - 6.20 | - B - D - | | | | | | l is ar | e dark gr ngular to | | | | | | - | | |
| | - 7.00 - 6.75 | | 6.30 (4.00) | | | 531 | | | | | | | | | + + + - - | | |
| 7.00 7.25- | - 7.50 | D в | | | 9.3 | | | 7.00m, unded f | , with a Elint. | low col | bble co | ontent | of | | - | | |
| 7.25- | - 7.70 | | 7.20 (3.60) | | | C17 | grave | lly SII | vered as | l is e | xtreme: | ly to v | ery wea | ık, | 7.50 | | 1 |
| 8.00 | _ | D | | | | | TOM Q | ензіту | , white w | ith OC | Casiona | ai DIAC | r sheck | . ð • | + | | 1 |
| | - 8.75 - 8.90 | UT13 | 8.20 (3.20) | 328 | 22 | | | | | | | | | | | | 1 1 1 |
| 9.30- | -10.00 - 9.75 | D | 9.15 (6.30) | | | S6 | | | , with oc rse flint | | | ılar to | subrou | inded | | | 1 1 1 |
| 9.70- | -10.00 | - в - - | | | | | | | | | | | | | + + + + | | |
| oring | , | <u> </u> | <u> </u> | l | | Progre | | | | | | ndwate | | | | | ļ |
| epth | Hole Dia | | Technique | | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | | Rose to | in Mins | Depth Sealed | Rema Groun | dwate |
| 1.20 5.15 | 0.15 | | tion Pit Percussi | | CR/BB CR/BB | 11.85 | 11.70 11.70 13.60 | 0.75 | 13/09/21 13/09/21 14/09/21 14/09/21 | 18:00 08:00 | | NIL 5.30 | | 20 20 | 3.90 | Slow inf Moderate | |
| emar | | Inspect At 12.4 Backfi | tion pit 40m, UT 11 detai | : hand e shoe an ls from | excavat nd sam <u>r</u> n base | ed to ble cat of hol | 1.20m d cher da e: bent | epth ar maged o onite g | nd no ser during sa grout up | vices mpling to gro | were fo und lev | ound. vel. | <u> </u> | <u> </u> | | ked by 1 | ECAD DRB 1 of |
| | ons are on the nying | | | | | | | | | | | | | | | | 19/11/2 |
| dimens | sions tres. | Loaaed in | accordance | with BS59 | 30:2015 + | A1:2020 | | | | | | | | | | 7 | ~ |

| roject _{EQ} | UINOR FEE | D PHASE | 1 INVES | STIGAT | IONS | Engineer | J | MURPHY | & SONS | S LIMIT | ED | | Borehc Project | ole No | BH6-1 PC2182 | 56 56 | |
|---------------------------------|----------------|-----------------------|-----------------|--------|---------|--------------------------|-------|----------------------|---------|--------------------------|----------------|--------------|--------------------------|-----------|-----------------------|----------------------|---------------|
| ient .T | MURPHY & | | | | | National G Coordinate | id e | 513121.3 829971.2 | 96 E | | | | | | 23.64 | | חר |
| ampling | MURPHY & | SONS LII | Prope | rties | | Strata | S 3 | 29971.2 | 71 N | | | | Grouna | Level | 23.64 Scal | | |
| Depth | Sample Type | Cased & (to Water) | Strength kPa | | SPT N | Description | | | | | | | | Dept | - | jend | Level m OD |
| .0.10 .0.35-10. | D | 10.30 (6.50) | | 22 | | | | | | | | | | | | | |
| 11.00 11.40-11. 11.40-11. | 85 B 85 D | 11.35 (4.60) | | | S4 | | | | | | | | | | | ╡╵╡╶┥╶┥┥╴┥╴╴╴╴╴╴╴╴╴╴ | |
| 2.40-13. 2.40-12. | | 12.35 (0.80) | | | | | | | | | | | | | | | |
| .3.10-13. .3.10-13. | | 13.05 (1.80) | | | S6 | | | | | | | | | | | | |
| 3.75 | Ð | | | 30 | | | | | | | | | | Ę | | | |
| | 55 - UT22 | 13.60 (2.50) | | | | | | V | | | | | | | | | |
| 4.55-14. 4.70-15. | | 13.60 (2.20) | | | S8 | 7 | | | | | | | | 15. | 15 | | 8.49 |
| | | | | | | | | En | d of Bo | orehole | | | | | | | |
| | | | | | X | | | | | | | | | | | | |
| | | | K | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | |
| | - | | | | | | | | | | | | | <u> </u> | | | |
| oring Hepth | | Techniqu | e | Crew | Depth | Depth Dep | th to | Date | Time | Groun Depth Struck | Depth Cased | r Rose to | in Misse | Depth | | | ks on |
| · · · · · | ia | 1- | | | of Hole | Cased Wa | ater | | | JULK | Jaseu | | Mins | Sealed | | oun | dwater |
| | | | | | | 1 1 | 1 | | | | | 1 | | 1 | 1 | | |
| emarks | AGS | | | | | | | | | | | | | L | ogged by Checked b | E | CAD DRB |

| Project _E | QUIN | OR FEED | PHASE | 1 INVE | STIGATI | IONS | Engine | er | J MURPHY | & SON | S LIMI | red | | Borehc Project | | H6-16 | |
|---|--------------|---|--------------------------------|-------------------------------|------------------------------|--------------------------|-------------------------------|----------------------------------|--|-----------------|--------------------|----------------|----------|--------------------------|-------------------------------|-----------------|------------------------------------|
| Client _J | J MUR | PHY & S | ONS LIM | IITED | | | Nationa Coordir | | 613082.6 329823.0 | | | | | Ground | Level 2 | 5.54 m | OD |
| Sampling | g | | | Prope | | | Strata | 3 | | | | | | | | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 0.10- 0 0.20 0.50- 1 | | - B - D - B | | | | | claye angul | ey sand | ck brown with occ counded f | asiona | 1 root | lets. G | ravel i | | G.L. | | 25.5 25.1 |
| 0.80 1.20- 2 1.20- 1 | | - D - B - B | 1.20 (DRY) | | | C36 | GRAVE Grave flint | CL with el is ar | wn very low cobb ngular to martzite. ense. | le con subro | tent of | E subro | unded f | lint. | | | • |
| 1.80 2.00- 2 2.00- 2 2.00- 2 | 2.50 | - - - - - - - - - - - - - - - - - - - | 1.90 (DRY) | | | C50/ 135 | At 2. | .00m, ve | ery dense | | | | | | | | · · · |
| 2.70 2.70- 4 2.80 3.00- 3 | | - EW D - | 3.00 (2.30) | | | C41 | | | | | | | | | | | |
| 3.60- 4 4.10 | 1.50 | - B - - - - - - | | | | | pocke | ts (up | own grave to 40mm subrounde | in siz | e) of d | clav. G | ravel i | onal s | 3.60 | | 21.94 |
| 4.50- 4 | 1.94 | | 4.30 (3.10) | | | \$50/ 285 | At 4 | .50m, ve | ery dense | | | | | | | | • |
| 5.30- 6 5.50 | 5.00 | - - - B - D - | | | | | with Grave | a low o al is ar | own very cobble co gular to | ntent | of sub | rounded | flint. | | 5.30 | | 20.2 |
| 6.00- 6 6.40- 7 | | - - - - - - - | 6.00 (2.70) | | | C23 | At 6. | .00m, me | artzite. dium den grey slig | | ravelly | v sandv | CLAY. | | - - - 6.40 | | 19.14 |
| 7.00 | | - - - - - - | | | 11 | | Grave chall | al is ar and fl | gular to .int. | subro | unded i | Eine to | coarse | | | | |
| 7.30- 8 7.30- 7 | 3.50 7.75 | - B - D - | 7.30 (5.20) | | | S18 | | | with oc yey sand | | al poci | cets (u | p to 30 | mm in | | | • |
| 8.00 8.50- 8 | 3.95 | | 7.30 | | | s23 | | .00m, de | | | | | | | - - - - - 8.50 | | 17.0 |
| 9.00 | | - - - - - - | (4.90) | | | | | | e dark gr :o subrou | | | | | | | | • |
| 9.70-10 10.00-11 | | - - - - - - - - - - - - - - - - - - - | 9.50 (5.10) | | | s45 | At 9. | .70m, de | ense. | | | | | | | | |
| Boring | | | | | | Progre | | | | | | ndwate | r | | | | |
| | Hole Dia | - | Technique | e | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | Remai Ground | ks on dwater |
| 1.20 L5.00 0 | | Inspect Cable P | | | MR/SS MR/SS | 11.00 | 11.00 11.00 11.00 | 3.10 | 13/09/21 13/09/21 14/09/21 14/09/21 | 18:00 08:00 | | 4.30 | 2.70 | 20 | | Moderate | inflow |
| Remarks ymbols and bbreviations xplained on ccompanying | are the | Water w Inspect Backfil | as adde ion pit l detai | ed to as hand d ls from | ssist k excavat m base | oring ed to of hol | betweer 1.20m c e: bent | h 1.20-1 lepth ar conite g | 1.00m. nd no ser prout up | vices to gro | were fo und lev | ound. vel. | <u> </u> | | Che Figu | cked by I re | ECAD DRB L of 2 9/11/2021 |
| ey sheet. All dimension are in metres. | าร | Logged in a | accordance | with BS59 | 30:2015 + | A1:2020 | | | | | | | | | <u> </u> | | |

| Project _{EQUII} | NOR FEEI | PHASE | 1 INVES | STIGAT: | IONS | Engine | er | J MURPHY | & SON | S LIMI | TED | | Boreho Project | No E | BH6-16 C218256 | |
|--|------------------------------------|------------------------------------|-----------------|----------|---------|-------------------------|---|---|--------|--------------------|--------------------------|-----------------|-------------------|-------------|-------------------|-----------------------------|
| Client .T MTT | RPHY & S | ONG TT | TTED | | | Nationa Coordir | al Grid | 613082.6 329823.0 | 5 E | | | | - | | 25.54 m | |
| Sampling | XFNI & S | | Prope | rties | | Strata | | 529025.0 | 7011 | | | | Ground | | Scale | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 10.50 11.00-12.00 11.00-11.45 11.70 12.00-13.20 12.00-12.45 12.50 | - D - B - UTF - 27 - D | 11.00 (3.10) 11.00 (3.10) | | | 59 | GRAVE densi Belov | EL. Gravity, whi ity, whi v 12.00 | vered as vel is ex ite with m, with r lint grav | ccasio | y to ve onal bl | ery wea Lack sp | k, low ecks. | | 11.00 | | 14.54 |
| 13.20-13.65 13.50-14.50 14.00 14.50-14.95 | - B - B | 11.00 (3.20) 11.00 (3.10) | 341 | 22 23 | 516 | | | | | | | | | | | 10.54 |
| | L | • | | | | | | Er | d of B | orehole | 3 | | | - 13.00 | | 10.54 |
| Boring Depth Hole | | Techniqu | e | Crew | Progre | Depth | Depth to | Date | Time | Depth | idwate Depth Cased | r Rose to | in | Depth | | arks on |
| Remarks R | | | - | | of Hole | Cased | Water | | | Struck | Cased | | Mins | Sealed | ided by | ECAD |
| Symbols and abbreviations are explained on the accompanying key sheet. All dimensions | 1 | | | | | | | | | | | | | Che Figi | ecked by | DRB 2 of 2 19/11/2021 |

| | | ULL | NEC | | | Out | | JICUC | 531011 | | | | | | | | |
|--|-----------------------------------|-------------------------------|--------------------------------|-----------------|-----------------|--------------------|--------------------|-------------------|--|--------------------|--------------------|-------------------|---------|-------------------|---|---|---|
| Project | EQUIN | IOR FEEI |) PHASE | 1 INVE | STIGAT: | IONS | Engine | er | J MURPHY | & SON | S LIMI | red | | Boreho Project | | H7-17 ^{C218256} | |
| Client | | RPHY & S | SONS LIN | | | | Nationa Coordir | nates | 614283.5 326598.5 | | | | | Ground | Level 4 | | OD |
| Sampl | ing | | Looph | Prope | | | Strata | 1 | | | | | | | 1 | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD 42.99 |
| 0.10 | 0.70 | | | | | | is su | bangula | own sligf ar to suk nd flint. | rounde | | | | ravel | 0.40 | | 42.59 |
| 0.40 | 1.20 | - B - D - B - D | | | | | \ silty | SAND. | ark yello Gravel i uartzite | s suba | ngular | | | | 0.70 | · · · · · · | 42.29 |
| | 1.65 1.65 | - B - D | NIL (DRY) | | | s23 | subar and f | ngular f lint. | rown grav to subrou , becomes | inded f | ine to | coarse | | | | • × • • | 22 • • • |
| 2.00 | 2.45 | - B - D - D | 1.90 (0.50) | | | S19 | | | | | | | | | | · × ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | - - - - - - - - - |
| 3.00 | 3.45 3.45 | - B - D - D - | 2.90 (0.50) | | | s19 | | | | | | | | | | 0 × 0 | |
| 4.00 | 4.45 4.45 | - B - D - D - | 3.90 (1.00) | | | S19 | | | | | | | | | | 0 | |
| 5.00 | 5.45 | B - D - D - | 4.90 (1.00) | | | s21 | silty | SAND. | e yellowi Gravel wartzite | is ang | ular to | | | | 5.00 | с | 37.99 |
| 6.10 | | - - D | | | | X | | | e yellowi ar to suk | | | | | avel | - 6.10 | 0 | 36.89 |
| | 6.95 6.95 | | 6.20 (1.00) | | | s14 | | | nd flint. | | | | | | | | |
| | 8.45 8.45 | - B - D | 9.20 (1.00) | | | S16 | | | | | | | | | | | |
| | 9.95 | - - - В - D | 9.50 | | | S14 | Mediı | ım densı | e grey sl | ightly | grave | 11 v SAN | D. Grav | rel is | 9.50 | 0 | 33.49 |
| 9.90 | 2.33 | - D | (1.00) | | | 217 | subar | | to subrou | | | | | | 9.90 | | 33.09 |
| Boring | | ļ | | ļ | | Progre | ess | | | | Grour | ndwate | r | | ! | | Ļ |
| Depth | Hole Dia | | Technique | e | Crew | Depth | | Depth to Water | Date | Time | Depth | Depth | Rose to | in Mins | Depth Sealed | | rks on dwater |
| 1.50 6.00 15.45 | 0.40 0.20 | Inspect Cable H Cable H | ion Pit Percussi | : lon | CD CD CD | G.L. | 15.00 | vvalei | 23/08/21 23/08/21 | 08:00 | Struck | Cased | | 111115 | JEAIEU | | ountered |
| | | | | <u> </u> | | | | | | | | | | | | | |
| Remar Symbols a abbreviati explained accompar key sheet | and ons are on the nying | A 50mm 15.00m | standpi with up | pe was | insta lockab | lled to Le prot | 15.00m ective | a with a cover. | nd no ser and 13.7(a geowrag Backfill nite up t | oped sl . detai | otted : ls from | section m base | of hole | : bent | o Chế onite ^{Figu} evel. | cked by re | PS DRB 1 of 2 19/11/2021 |

7

| Project _{EQUI} | INOR FEE | D PHASE | 1 INVES | STIGAT | IONS | Enginee | r | J MURPHY | & SONS | 3 LIMI1 | ED | | Boreh Project | ole t No | BH PC | 17-17 218256 | |
|--|-----------------|-----------------------|-----------------|--------|----------------|----------------------|--------------------|--|---------|----------------|----------------|---------|------------------|--------------------|----------------|------------------------|---------------------|
| lient _{.ர M} | IRPHY & | SONS LIN | MTTED | | | National Coordina | | 614283.5 326598.5 | 08E | | | | - | d Level | 42 | .99 n | n OD |
| Sampling | | | Proper | rties | | Strata | | 01000000 | • • • • | | | | oroun | | | Scale | |
| Depth | Sample Type | Cased & (to Water) | Strength kPa | w % | SPT N | Descript | tion | | | | | | | Dep | th | Legend | Lev m OI |
| 10.50-10.95 11.00-11.45 11.00-11.45 | - - 5 — В | 10.60 | | 19 | 514 | quart: | zite an .00m, 1 | e brown s ibangular id flint. prown sli | | | | | | | | | |
| 12.00 | | (1.00) | | | | | | | | | | | | | | | |
| 12.50-12.95 12.50-12.95 13.00 | | 12.30 (1.00) | | | S14 | | | | | | | | | | | | |
| 14.00-14.45 14.00-14.45 | | 13.90 (DRY) | | 15 | s25 | Stiff | grey a | sandy CL4 | х. | | | | | 13 | .70 | | 29 |
| 15.00-15.45 | 5 D | 14.90 (DRY) | | | S27 | | | | | | | | | | 45 | | |
| | | | | | | 2 | | Er | d of Bo | orehole | 3 | | | | .45 | | 27 |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Soring Hole | • | + | • | | Progr Depth | | Depth to | | | Groun Depth | dwate Depth | 1 | in | Depti | h | Rom | arks on |
| Depth Dia | | Techniqu | e | Crew | of Hole | Cased | Water | Date | Time | Struck | Depth Cased | Rose to | Mins | | | | ndwater |
| Remarks | GS | | | | | | | | | | | | | | Logge Checl | ed by ked by | PS DRB |
| mbols and breviations are plained on the companying y sheet. | | | | | | | | | | | | | | [| Figure | | 2 of : 19/11/20: |

| roject | EQUIN | IOR FEEI | D PHASE | 1 INVE: | STIGAT | IONS | Enginee | | J MURPHY | | S LIMIT | ED | | Boreho Project | | H7-18 2218256 | |
|-----------------------|----------------------------|--------------------|----------------------|--------------------|-------------------|------------------|------------------------|--------------------|--|------------------|------------------|--------------------|-------------------|-------------------|-----------------|---------------------------------------|---------------------|
| lient | | RPHY & S | SONS LIM | | | | National Coordina | ates | 614549.6 326559.2 | | | | | Ground | Level 4 | | |
| Sampl | ing | Sample | Depth Cased & | Prope Strength | | SPT N | Strata | | | | | | | | D | Scale 1 | :50 Leve |
| Depth | | Туре | (to Water) | 0 | % | 0.11 | Descript | ion | | | | | | | Depth | Legend | m OD |
| 0.00- 0.20 | 0.40 | - В - D | | | | | TOPSO is sub | IL: Bro bangula | own sligh ar to sub | tly gr rounde | avelly d fine | silty to coa | sand. (arse | Fravel | | | |
| | 1.20 | _ В | | | | | | | nd flint. | | 11 611 | — | | / | 0.40 | · · · · · · · | 46. |
| 0.40 | | - D | | | | | angula | brown ar to s | slightly subrounde | grave d fine | to coa | nD. Gra Arse fl | ivel 15 | | - | 0 | |
| | | F | | | | | | | | | | | | | F | · · · · · · · · · · · · · · · · · · · | |
| 1.20- | - 1.65 - 1.65 - 1.65 | B D | NIL | | | C19 | Mediur | n dense | e brown s ıbangular | andy s | lightly | silty | GRAVE | Arge | 1.20 | × · · · | 45. |
| 1.20 | 1.05 | - | (DRY) | | | C1.) | flint | • | mangutat | 20 54 | Diounde | | | ii be | F | , , , , , , , , , , , , , , , , , , , | |
| | - 2.45 | В | | | | | | | | | | | | | - | × · · · | |
| 2.00 2.00- | 2.45 | - D | 1.90 (0.50) | | | C18 | | | | | | | | | Ę | | |
| | | - | (0.50) | | | | | | | | | | | | Ē. | | |
| 3.00 | | - - - в | | | | | | | | | | | | | 3.00 | | 44. |
| 3.00 | - 3.45 | - D | 2.90 | | | C22 | Mediur SAND. | n dense Gravel | e brown v L is suba | ery gr ngular | avelly to sub | slight | ly silt d fine | y to | - 3.00 | •ו••• | 44. |
| | | Ē | (0.50) | | | | | e flint | | | | | | | Ę | × · · · | |
| | | Ę | | | | | | | | | | | | | Ę | • × • • • | |
| 4.00- 4.00 | 4.45 | - в - D | | | | | Below | 4.00m | , slightl | y silt | y sand | and gr | avel. | | - | 0 × | |
| 4.00- | - 4.45 | | 3.90 (0.50) | | | C25 | | | X | | | | | | Ē | × | |
| | | - | | | | | | | | | | | | | E | 0 | |
| 5.00- | - 5.45 | - в | | | | | Below | 5.00m | becomes | sligh | tly gra | velly. | | | <u>-</u> | × | |
| 5.00 | - 5.45 | - D | 4.90 | | | C22 | | | | . 5 | 1 5 | _ | | | - | | |
| | | E | (1.00) | | | | | | | | | | | | F | × | |
| | | F | | | | | | | | | | | | | F | • × • • • | |
| 6.00 | | _ D | | | | | | | | | | | | | F | × | |
| 6.50- | - 6.95 | в | | | | | | | | | | | | | Ē | • × • • | |
| | 6.95 | F | 6.40 (1.00) | | | C24 | | | | | | | | | - | × | |
| 7.00 | | _ D | | | | | | | | | | | | | F_ | • × • | |
| | | Ę | | | | | | | | | | | | | F | × | |
| | | - | | | | | | | | | | | | | F | × | |
| 8.00- | - 8.45 | в | | | | | | | | | | | | | Ę | 0 | |
| | 8.45 | | 7.80 (1.00) | | | C24 | | | | | | | | | F | × | |
| | | Ē | | | | | | | | | | | | | Ę | • × • • • | |
| | | Ę | | | | | | | | | | | | | Ę | X ··· | |
| 9.00 | | - D | | | | | | | | | | | | | F | • × • • • | |
| 9 50 | 9.95 | Ę | 9.30 | | | C17 | | | | | | | | | Ę | × · · · · | |
| 2.30- | 2.25 | F | (1.00) | | | | | | | | | | | | Ę | • × • • • | |
| 10.00 | | - D | | | | | | | | | | | | | E_ | × · · · · | |
| Boring | | ļ | | | ļ | Progr | | | | | | idwate | er | | ļ | | ļ |
| Depth | Hole Dia | | Technique | | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | Groun | rks on dwater |
| 1.20 9.00 | 0.20 | Cable H | cion Pit Percussi | on | 999 | G.L. 3.50 | | | 27/08/21 27/08/21 | 18:00 | | | | | | None enc during b | |
| 20.45 | 0.15 | Cable I | Percussi | .on | CD | | 2.90 13.00 13.00 | | 31/08/21 31/08/21 01/09/21 | 18:00 | | | | | | | |
| Remar | ks 🗖 | Inspect | ion pit | hand o | excavat | 20.45 | 20.00 | epth ar | 01/09/21 01/09/21 nd no ser and 17.00 | 18:00 | | ound. | ļ | | 1.000 | ied by | |
| ymbols a | | Water w Backfil | vas adde 11 detai | d to as ls from | ssist 1 m base | ooring of hol | between e: bento | 1.20 a onite g | and 17.00 grout up | m. to gro | und lev | vel. | | | | cked by 1 | PS DRB 1 of 3 |
| breviation plained | ons are on the | | | | | | | | | | | | | | 90 | | 19/11/2021 |
| compan ey sheet. | | | | | | | | | | | | | | | Ē | | miæ |
| l dimens e in met | | Logged in | accordance | with BS59 | 30:2015 + | A1:2020 | | | | | | | | | 0 | 7 | |

| Project | EQUIN | IOR FEEI | PHASE | 1 INVE | STIGAT | IONS | Engine | er | J MURPH | Y & SON | S LIMI | TED | | Boreho Project | No P | H7-18 | |
|--|--|--|--------------------------------|-----------------|----------|------------------|-------------------------|----------------------|----------------------------------|------------------------------|-----------------------------|--------------------|-----------------|-------------------|-----------------|-----------------|------------------|
| Client | T MITE | PHY & S | SONS LTN | MTTED | | | Nationa Coordir | al Grid | 614549. 326559. | | | | | - | Level 4 | | OD |
| Samp | | | | Prope | rties | | Strata | | 0200000 | | | | | oround | 20101 2 | Scale 1 | |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 11.00 | -11.45 -11.45 | | 10.80 (1.00) | | | C20 | | | | | | | | | | | |
| | -12.95 -12.95 | D | 12.40 (1.00) | | | C20 | | | | | | | | | | | |
| 14.00 | -14.45 -14.45 | - D - - - - - - - - - - - - - - - - - - | 13.90 (1.00) | | | C18 | Mediu sligh subro | m dens. htly sij | e yellow. Lty SAND fine to | ish bro . Grave coarse | wn slig l is s flint. | ghtly g ubangul | ravell ar to | Y | 14.00 | | 33.13 |
| | -15.95 -15.95 | - - - - - - - - - - - - - - - - - - - | 14.90 (1.00) | | | C21 | Orang to su | gish bre ubrounde | own grav | ally SA | ND. Gr. se fl: | avel is int. | suban | gular | 15.40 | | 31.73 |
| 17.00 | -17.45 -17.45 | - - - - - - - - - - - - - - - - - - - | 16.80 (9.50) | | | C16 | Firm | dark g | rey slig | htly sa | ndy CL | AY. | | | 17.00 | | 30.13 |
| 18.00 18.50- | -18.95 | D | 18.40 | 53 | 15 | | | | | | | | | | | | |
| 19.00 | | - - - - - - - | (DRY) | | | | | | | | | | | | | | |
| 20.00 | | D | | | 15 | | | | | | | | | | - | | |
| Boring | -20.45) | | | I | | C20 Progre | ess | | | | Grour | ndwate | r | | ļ | | |
| Depth | Hole Dia | | Techniqu | e | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to |) in Mins | Depth Sealed | Remai Ground | rks on dwater |
| | | | | | | | | | | | | | | | | | |
| Rema | rks 📕 | ļ | | | <u> </u> | r | ļ | <u> </u> | ļ | ļ | 1 | ļ | ļ | 4 | Log Che | | es DRB |
| Symbols abbreviat explained accompa- key sheet All dimen are in me | ions are I on the nying t. sions | Logged in | | | | | | | | | | | | | Figu | ire 2 | 2 of 3 |

| DUr | | OLE | REU | URL | / - | Car | bie Pe | rcus | 51011 | | | | | | | |
|--|----------------------------------|----------------|--|-----------------|-----------|---------------------------|----------------------|------------------|----------------------|--------------|--------------------------|--------------------------|-------------------|-----------------|---------------|-----------------------------------|
| Project | EQUI | NOR FEEI | D PHASE | 1 INVES | STIGAT | IONS | Engineer | | J MURPHY | & SON | S LIMI | red | Boreho Project | le B No ₽0 | H7-18 | |
| Client | JMU | RPHY & S | SONS LIN | AITED | | | National Coordina | Grid tes | 614549.6 326559.2 | 543E 201N | | | Ground | Level 4 | 7.13 m | OD |
| Sampl | ing | | | Prope | rties | | Strata | | | | | | | | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descripti | on | | | | | | Depth | Legend | Level m OD |
| Depth | | Sample Type | Lepth Cased & (to Water) 19.80 (DRY) | Strength kPa | w % | SPT N | Descripti | on | Er | nd of B | orehold | 2 | | Depth | Legend | 26.68 |
| Boring Depth | Hole Dia | | Technique | e | Crew | Progr Depth of Hole | | epth to Water | Date | Time | Grour Depth Struck | ndwate Depth Cased | in Mins | Depth Sealed | Rema Grour | rks on dwater |
| | | | | | | | | | | | | | | | | |
| Remar Symbols a abbreviatio explained accompan key sheet. | ind ons are on the ving | | | | | | | | | | | | | | cked by re | PS DRB 3 of 3 19/11/2021 |
| All dimens are in met | ions | Logged in | accordance | with BS59 | 30:2015 + | A1:2020 | | | | | | | | | لحجس | |

| D · · | | | | ONE | | | | | 551011 | | | | | Poroho | | 17 40 | |
|------------------------------|-----------------|--------------------|--------------------------------|----------------------|--|----------------------|-------------------------|---------------|------------------------------------|--------------|-------------------|-------------------|---------|-------------------|-----------------|-----------------------|--------------------|
| Project | EQUIN | OR FEED | PHASE | 1 INVES | STIGAT | IONS | Enginee | r | J MURPHY | & SON | S LIMI | red | | Boreho Project | | H7-19 | |
| Client | T MITR | рну & S | SONS LIN | 1TTED | | | National Coordin | | 614423.9 326340.5 | | | | | Ground | Level 44 | 1.97 m (| סכ |
| Samplin | | | | Prope | rties | | Strata | | | • | | | | <u>ereuna</u> | | Scale 1: | |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descript | tion | | | | | | | Depth | Legend | Level m OD |
| | | _ | (to water) | Ki u | 70 | | | | | | | | | | G.L. | | 44.97 |
| 0.00- 0.20 | 0.50 | B D | | | | | TOPSO Grave flint | l is s | rk brown ubangular | to su | ly grav bround | elly s ed fine | to coa | ND. rse | - | | |
| 0.50- | 1.20 | - В - D | | | | | | | ish brown | sligh | tly gr | avellv | SAND. G | ravel | 0.50 | 0 | 44.47 |
| | | | | | | | | | ar to sub | | | | | | È | | |
| | | - | | | | | | | | | | | | | - | | |
| 1.20- | | B D | NIL | | | S24 | | | | | | | | | | | 10 15 |
| 1.50 | | D | (DRY) | | | | | | rey grave ar to sub | | | | | | 1.50 | • × • • • | 43.47 |
| 2.00- | 2.45 | в | | | | | 15 50 | bangur | ar co sub | rounde | u rine | 10 004 | | | È. | 0 × . | |
| 2.00- | | D | 1.90 (0.50) | | | S17 | | | | | | | | | F | × | |
| 2.40 | | D | | | | | | | lly sligh | | | | | | 2.40 | | 42.57 |
| | | - | | | | | suban | gular | to subrou | nded f | ine to | coarse | flint. | | - | **** | |
| 3.00- 3.00- | | - в - D | | | | | Below | 3.00m | , becomes | mediu | m dens | е. | | | È. | × | |
| 3.00- | | | 2.90 (0.50) | | | C21 | | | | | | | | | Ę | × · · · · | |
| | | - | (, | | | | | | | | | | | | Ę | • × • | |
| | | - | | | | | | | | | | | | | - | 0 × | |
| 4.00- 4.00 4.00- | | В D | 3.90 | | | C39 | | 4 | | | | | | | E | × • | |
| 4.00- | 1.15 | - | (0.50) | | | 039 | | | X | | | | | | - | U × | |
| | | - | | | | | | | | | | | | | - | × | |
| 5.00- | 5.45 | в | | | | | | | | * | | | | | Ē_ | × | |
| 5.00 5.00- | 5.45 | - D | 4.80 | | | C31 | | | | | , | | | | - | × · · · · | |
| 5.40 | | - - D - D | (0.50) | | | | | ndy cl | , with ma ay. | ny poc | Kets () | ир со а | Jomm in | size) | - 5.60 | • × • | 39.37 |
| 5.00 | | | | | | | | | own grave content o | | | | | | - | D | 55.57 |
| 6.00 | | D | | | | | Grave flint | | ngular to | subro | unded : | fine to | coarse | 1 | F | • × • • • | |
| 6.50- | C 05 | в | | | | | | | | | | | | | Ę | ×. | |
| 6.50 6.50 | | - D | 6.20 | | | C50/ | | | | | | | | | Ē | × | |
| 7.00 | 0.95 | D | (1.00) | | | 275 | | | | | | | | | <u>E</u> | 0.0 | |
| | | - | | | $\mathbf{\nabla}$ | | | | | | | | | | - | *··· | |
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| 8.00- 8.00 | 8.45 | В D | | | | | | | | | | | | | <u>+</u> | × | |
| 8.00- | 8.45 | - | 7.90 (1.00) | | | C35 | | | | | | | | | Ē | 0 × | |
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| 9.00 | | D | | | | | | | | | | | | | Ę | 0 0 0 X | |
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| 9.50- | | в | | | | | | | | | | | | | Ę | •ו•• | |
| 9.50- | 9.95 | - | 9.20 (1.00) | | | C26 | | | | | | | | | È | × · · · | |
| 10.00 | | D | | | | | | | | | | | | | - | • × | |
| Boring | Hele | | | ! | | Progre | | Jonth to | Ň | 1 | | ndwate | 1 | in | Dopth | Remar | ke on |
| Depth | Hole Dia | | Techniqu | | Crew | Depth of Hole | | Water | Date | Time | Depth Struck | | Rose to | in Mins | Depth Sealed | Ground | lwater |
| | 0.20 | Cable P | cion Pit | ion | CD C | G.L. 3.00 | | | 24/08/21 24/08/21 | 18:00 | | | | | | None enco during b | |
| 20.45 | 0.15 | Capie P | ercussi | lon | CD | 3.00 9.50 9.50 | 9.20 | | 25/08/21 25/08/21 26/08/21 | 18:00 | | | | | | | |
| Remark | s 🗖 | Inspect | ion pit | : hand e | excava | 20.45 | DRY | epth a | 26/08/21 | 18:00 | were fo | ound. | ļ | | 105- | od by | 0.5 |
| Symbols and | | Water w Backfil | vas adde 1 detai | ed to as ils from | ssist 1 n base | boring of hol | between e: bent | 1.20 onite | nd no ser and 14.60 grout up | m. to gro | und le | vel. | | | | ked by I | S DRB . of 3 |
| abbreviation explained or | ns are n the | | | | | | | | | | | | | | | | 9/11/2021 |
| accompanyi key sheet. | • | | | | | | | | | | | | | | Ē | Digen | ඩෝ |
| All dimensio | ons | | | | | | | | | | | | | | \sim | ~ | |

| Project _{EQU} | INOR FEE | D PHASE | 1 INVE | STIGAT: | IONS | Engine | er | J MURPHY | (& SON | S LIMI | TED | | Boreho Project | No PC | H7-19 | |
|--|--------------------|--------------------------------|-----------------|----------|-----------------|--------------------|----------|------------------------|-------------------|--------|-----------------|--------|-------------------|----------|-------------------|-----------------------------------|
| Client ,т м | JRPHY & : | SONS LT | MTTED | | | Nationa Coordir | al Grid | 614423.9 326340.9 | 932E | | | | - | Level 44 | | OD |
| Sampling | JAFIII & | | Prope | rties | | Strata | | 520540. | | | | | Ground | | Scale 1 | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 11.00-11.4 11.00 11.00-11.2 | - D | 10.80 | | | C50/ | | | | | | | | | | | |
| 12.00 | | (1.00) | | | 160 | | | | | | | | | | | |
| 12.50-12.99 12.50-12.99 | | 12.20 (1.00) | | | C10 | | | | | | | | | | | |
| 14.00-14.4 14.00 14.00-14.4 | 5 - D | 13.90 (1.00) | | | C17 | Below | v 14.00 | m, very g | gravell | у. | • | | | | | 30.37 |
| 14.60 | - D - | | | | | Brown | grave | lly claye fine to c | ey SAND Coarse | . Grav | el is s | ubangu | lar to | - 14.60 | | 30.37 |
| 15.00 | | | | | | ₽irm | grey sa | andy CLA | ζ. | | | | | 16.20 | | 28.77 |
| 17.00 17.00-17.49 17.50 18.00 | B 5D D | 16.60 (DRY) | 56 | 14 13 | | | | | | | | | | | | |
| 18.50-18.99 18.50-18.99 19.00 | | 18.00 (DRY) | | | C19 | Below | a 18.50 | n, become | es stif | £. | | | | | | |
| 20.00-20.4 | 5 <u>UTF</u> 38 | 19.50 (DRY) | | | | | | | | | | | | - | | - - |
| Boring Donth Hole | 9 | Took | | C | Progre Depth | Depth | Depth to | Det | T: | Depth | ndwate Depth | | in | Depth | | rks on |
| Deptn Dia | | Techniqu | e | Crew | of Hole | Cased | Water | Date | Time | Struck | Depth Cased | | Mins | Sealed | Groun | dwater |
| Remarks Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres | | | | | | | | | | | | | | Figu | cked by 1 re 2 | PS DRB 2 of 3 19/11/2021 |

| | | NOR FEEI | | | | | DIE Pe Engineer | | J MURPHY | & SON | S LIMII | ED | | Boreho | ble B | H7-19 | |
|-------------------------|----------------------|-----------|--------------------------------|-------------------|-----------|-----------|----------------------|----------|----------------------|---------|-----------------|----------------|---------|---------|-------------|---------|---------------|
| | | | | | | | National | Grid | 614423 | 32F | | | | Project | | C218256 | |
| Client | | RPHY & S | SONS LI | | rtion | | National Coordina | ates | 614423.9 326340.9 | 56 N | | | | Ground | Level 4 | 4.97 m | |
| Sampl | ling | Sample | Depth | Prope | | SPT N | Strata | | | | | | | | | Scale 1 | - |
| Depth | | Туре | Depth Cased & (to Water) | Strength) kPa | % | SPIN | Descripti | ion | | | | | | | Depth | Legend | Level m OD |
| | | E | | | | | | | | | | | | | - | | |
| | | | | | | | | | | | | | | | 20.45 | | 24.5 |
| | | E | | | | | | | Er | nd of B | orehole | 9 | | | | | |
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| | | F | | | | | | | | | | | | | + | | |
| Boring |) Hole | + | | + | | Progre | | Depth to | | | | dwate Depth | 1 | in | Depth | Rema | rks on |
| Depth | Dia | | Techniqu | le | Crew | of Hole | Depth D Cased | Water | Date | Time | Depth Struck | Depth Cased | Rose to | Mins | Sealed | | dwater |
| | | | | | | | | | | | | | | | | | |
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| Remar | rks 📕 | | | | | 1 | | | | ļ | | | ļ | | Loa | ged by | PS |
| Symbols a | and | 2 | | | | | | | | | | | | | Che Figu | cked by | DRB 3 of 3 |
| abbreviati explained | ions are I on the | | | | | | | | | | | | | | | | 19/11/2021 |
| accompar key sheet | t. | | | | | | | | | | | | | | ģ | Dele | rijez |
| All dimens are in me | | Logged in | accordance | e with BS59 | 30:2015 + | - A1:2020 | | | | | | | | | | ~ | |

| oject | EQUIN | IOR FEEI | D PHASE | 1 INVES | STIGAT: | IONS | Engineer | J MURPHY | & SON | S LIMI | TED | | Boreho Project | No Po | H7-20 | |
|--------------------------------|---------------|--------------------|-----------------------|--------------------|-----------------|---|---|--|---|--------------------|-------------------|---------|-------------------|---------------------------------|-------------------|---------------------------------|
| lient | JMU | RPHY & S | SONS LIN | IITED | | | National Grid Coordinates | 614816.6 326436.2 | | | | | Ground | Level 4 | 7.35 m | OD |
| Sampli | ng | | Looth | Prope | | | Strata | | | | | | | T | Scale 1: | :50 |
| Depth | | Sample Type | Cased & (to Water) | Strength kPa | w % | SPT N | Description | | | | | | | Depth | Legend | Leve m OD |
| 0.00- | | - B - D | | | | | TOPSOIL: Da Gravel is s quartzite a | ubangular | | | | | | G.L. | | 47. 46. |
| 0.40- 0.40 1.00 | 1.20 | - B - D | | | | | Brown sligh to subround | | | | | | | 1.00 | 0 | 46. |
| 1.20- 1.20- | | в | NIL (DRY) | | | C13 | Medium dens subangular and flint. | | | | | | | | | |
| 2.00- 2.00 2.00- | | - B - D - | 1.70 (0.50) | | | C17 | | | | | | | | | | |
| 3.00- 3.00 3.00- | | - B - D - | 2.90 (1.00) | | | C25 | | | | | | | | | | |
| 4.00- 4.00 4.00- | | - B - D - | 3.90 (1.00) | | | C20 | | | | | | | | | | |
| 5.00- 5.00 5.00- | | - B - D | 4.60 (1.00) | | | C33 | | | • | | | | | | | |
| 6.00 6.50- 6.50- | | D | 6.20 (1.00) | | | C24 | Below 6.00m | , becomes | yello | wish bı | cown ar | d grave | elly. | | | |
| 7.00 8.00- 8.00- | | | 7.70 | | | С33 | Below 8.00m | , becomes | dense | and si | ilty. | | | | | |
| 9.00 | | | | | | | | | | | | | | | | |
| 9.50- 9.50- | | - - - В - | 9.30 (1.00) | | | C39 | | | | | | | | | 0 0 0 0 0 | |
| 0.00 | | - _ D | | | | | | | | | | | | ŧ_ | 0.4.1 | • |
| oring | Hole | + | + | • | | Progre | ess Depth Depth to | | | Grour Depth | dwate Depth | 1 | in | Depth | Remar | ks on |
| epth | Dia | | Technique | | Crew CD | of Hole | | Date | Time | Struck | Cased | Rose to | Mins | Sealed | Ground | dwater |
| 5.45 | 0.15 | Cable 1 | Percussi | .on | CD | 11.00 11.00 14.45 14.45 15.45 | | 06/09/21 07/09/21 07/09/21 09/09/21 09/09/21 | 18:00 08:00 18:00 08:00 18:00 | | | | | | during b | |
| emarl mbols a breviatio | nd Ins are | A 50mm 15.00m | standpi with up | pe was bright l | insta lockab | ted to boring lled to le prot | 1.20m depth a between 1.20 15.00m with ective cover. 1.00m, bento | nd no ser and 15.00 a geowrap Backfill | vices m. ped sl detai | otted s ls from | section N base | of hole | : bent | o Cheo onite ^{Figu} | cked by I re 1 | PS DRB L of 2 9/11/202 |
| company y sheet. dimensi | ying | | | | | | | | | | | | | @E | | nie |

| BOREH | | | | | | | | | | | | | Boreho | | 117 00 | |
|---|------------------|--------------------------------|-------------------|-----------|----------------------------|--------------------|-------------------|--------------------|----------------|--------------------------|--------------------------|---------|------------|-----------------|------------------|-----------------------------------|
| Project _{EQUI} | NOR FEEI | D PHASE | 1 INVES | STIGAT: | | Engine | | J MURPH | | S LIMI | red | | Project | No P | H7-20 C218256 | |
| | RPHY & S | SONS LIN | | | | Nationa Coordir | nates | 614816. 326436. | 665 E 264 N | | | | Ground | Level 4 | 7.35 m | |
| Sampling | Sample | Depth | Prope Strength | | SPT N | Strata | | | | | | | | | Scale 1 | 1 |
| Depth | Туре | Depth Cased & (to Water) | Strength kPa | % | 0.11 | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 11.00-11.45 11.00-11.45 12.00 | | 10.90 (1.00) | | | C36 | | | | | | | | | | | |
| 12.50-12.95 12.50-12.95 | | 12.30 | | | C29 | | | | | | | | | I I | 0 | |
| 13.00 | D | (1.00) | | | | | | | | | | | | ÷ | 0.4 | |
| 14.00-14.45 14.00 14.00-14.45 | - D | 13.90 (1.00) | | | C28 | | • | Č | | | | | | | | |
| | Ę | (1.00) | | | | | | | | | | | | - | | - |
| 14.80 15.00 15.00-15.45 | д Д | 14.90 (3.00) | | 14 | C28 | Stiff | brown | sandy C | LAY. | | | | | 14.80 | | 32.55 |
| | - - - - | | | | | 2 | | E | nd of B | orehole | 9 | | | 15.45 | | 31.90 |
| Boring Depth Dia | | Techniqu | e | Crew | Progra Depth of Hole | | Depth to Water | Date | Time | Grour Depth Struck | ndwate Depth Cased | | in Mins | Depth Sealed | | rks on dwater |
| Depth Dia | | rechniqu | e | Crew | of Hole | Cased | Water | Date | I ime | Struck | Cased | KUSE TO | | Sealed | | |
| | | | | | | | | | | | | | | | | |
| Remarks Symbols and abbreviations are explained on the accompanying | 5 | | | | | | | | | | | | | Figu | čked by 1 re | PS DRB 2 of 2 19/11/2021 |
| key sheet. All dimensions are in metres. | Logged in | accordance | with BS59 | 30:2015 + | - A1:2020 | | | | | | | | | ٤ | <u>aolac</u> i | |

| | | | NLC | | | Our | | nouc | 531011 | | | | | | | | |
|--|-----------------------------------|---------------------------------|----------------------------------|---------------------------------|--------------------------|----------------------------|-------------------------------|--------------------------------|-------------------------------------|-----------------------|------------------|-------------------|------------------|-------------------|-----------------------|---|----------------------------------|
| Project | EQUIN | IOR FEEI | D PHASE | 1 INVES | TIGAT | IONS | Engine | er | J MURPHY | & SON | S LIMI | TED | | Boreho Project | le B No Po | H7-21 | |
| Client Sampl | | RPHY & S | SONS LIN | ITED | ties | | Nationa Coordir Strata | nates | 614617.8 326074.0 | | | | | Ground | Level 44 | 4.18 m Scale 1 | |
| Depth | 9 | Sample | Depth Cased & | Strength | w | SPT N | Descrip | | | | | | | | Depth | Legend | Level |
| Deptil | | Туре | (to Water) | kPa | % | | Descrip | | | | | | | | G.L. | Legend | m OD 44.18 |
| 0.00- 0.10 | 0.60 | - B D | | | | | is su | ubangula | own sligh ar to sub nd flint. | rounde | | | | Gravel | | | |
| 0.60- 0.60 | 1.20 | - В - D | | | | | SAND | with a ounded : | e orangis low cobb fine to c | ole con carse | tent o flint. | f subar Gravel | ngular (l is | to | 0.60 | | 43.58 |
| | 1.65 1.65 | в | NIL (DRY) | | | C16 | subar Belov | ngular (v 1.20m | to subrou , becomes | nded f brown | ine to | coarse | e flint | | | | |
| 2.00 | 2.45 2.45 | - B - D | 1.90 (0.50) | | | C21 | | | | | | | | | | × · · · · · · · · · · · · · · · · · · · | |
| 3.00 | 3.45 | - B - D - | 2.90 (0.50) | | | C19 | | | | | | | | | | | |
| 4.00 | 4.45 | - B - D - | 3.80 (1.00) | | | C35 | Below | .00m, de v 4.70m | , with ra | re poc | kets (| up to ! | 50mm in | size) | | | |
| 5.00 | 5.45 | - B - D | 4.80 (1.00) | | | C26 | | indy ci. | ay. | • | | | | | | 0 X 0 0 | |
| 6.00 | | - - D - | | | | | | | | | | | | | | | |
| | 6.95 6.95 | В | 6.20 (1.00) | | | C23 | | | | | | | | | | | |
| 7.00 | | D | | | | | | | | | | | | | | | |
| 8.00- 8.00 8.00- | 8.45 | - - - - - - - | 7.70 (1.00) | | | С33 | At 8. | .00m, d | ense. | | | | | | | | |
| 9.00 | | D | | | | | | | | | | | | | | × * * * * * * * * * * * * * * * * * * * | |
| | 9.95 9.95 | в | 9.20 (1.00) | | | C14 | | | | | | | | | + + - - - | □ · · × · · · · · · · · · · · · · · · · | |
| 10.00 | | _ D | | | | | | | | | | | | | <u> </u> | 0 | |
| Boring | Hole | | T | | | Progre | | Depth to | | | Groui Depth | ndwate Depth | | in | Depth | Remai | ks on |
| Depth 1.20 15.45 | Dia 0.40 | Inspect | Techniqu cion Pit Percuss | : | Crew CD CD | of Hole G.L. | | Water | Date 02/09/21 02/09/21 | | Struck | Cased | Rose to | Mins | Sealed | Ground None enc during b | dwater ountered |
| Remar Symbols a abbreviatio explained accompan key sheet. | and ons are on the lying | Inspect Water v Backfil | tion pit vas adde 11 detai | t hand e ed to as ls from | excava sist i base | ted to boring of hol | 1.20m d betweer e: bent | lepth an 1.20 a conite s | nd no ser and 15.00 grout up | vices m. to gro | were f | ound. vel. | | | Cheo Figu | cked by I re 1 | 25 DRB 0 of 2 9/11/2021 |
| All dimens | ions | l ogged in | accordance | with BS59 | 30.2015 - | + A1·2020 | | | | | | | | | 22 | الفحيت | |

| Project EQUIN | | | | | Enginee | | J MURPH | V & CON | с ттмт [,] | רפי | | Boreho | le B | H7-21 | |
|---|--|--------------------------------------|-----------|--------------------|--------------------|-------------------|--------------------|---------|---------------------|----------------|---------|------------|-----------------|-------------------|-----------------------------------|
| EQUIT | OR FEED PHAS | E I INVE | SIIGAII | | | | | | S LIMI. | ED | | Project | NO PO | 218256 | |
| | RPHY & SONS L | | | | Nationa Coordin | | 614617. 326074. | | | | | Ground | | 4.18 m | |
| Sampling | Comple Dept | Prope | | | Strata | | | | | | | | | Scale 1 | |
| Depth | Sample Cased Type (to Wate | _{&} Strength ₂r) kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 11.00-11.45 11.00 11.00-11.45 12.00 12.50-12.95 12.50-12.86 13.00 | B D D D D D D D D D D D D D D D D D D D | 0) | | C12 C50/ 210 | At 12 | .50m, v | very den | se. | | | | | | | |
| 14.00-14.45 14.00-14.45 | В 13.9 (1.00 | 0) | | C23 | | | \mathbf{i} | | | | | | | | |
| 14.70 | - - D | | 21 | | Firm | brown s | andy CL | AY. | | | | | 14.70 | • • • • • • • • • | 29.48 |
| 15.00-15.45 15.00-15.45 | В 14.9 (1.00 | | | C17 | | | | | | | | | 15.45 | | 28.73 |
| Boring | | | | Progre | ess | | E | nd of B | | ndwate | r | | | | |
| Depth Hole Dia | Technic | ue | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| | | | | | | | | | | | | 15 | | | |
| Remarks Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres. | Logged in accordar | ce with BS50 | 30.2015 ± | A1-2020 | <u>.</u> | | | | 1 | ļ | · | | Cheo Figu | cked by a re | PS DRB 2 of 2 19/11/2021 |

| roject | EQUIN | IOR FEE | D PHASE | 1 INVES | STIGAT | IONS | Engineer | J MURPI | HY & SON | IS LIMI | TED | | Boreho Project | | BH8-22 PC218256 | |
|--|-----------------------------------|--------------------------------------|-----------------------------------|-------------------|------------------|---|---|---|--|--------------------------------|--------------------------|-------------------|-------------------|---|----------------------------|----------------------------------|
| lient | | RPHY & S | SONS LIN | | | | National Grid Coordinates | d 614762 325846 | | | | | Ground | Level | 41.16 m | |
| Sampli | ing | Sample | Depth | Prope Strength | | ODT N | Strata | | | | | | | 1 | Scale ⁻ | 1 |
| Depth | | Туре | Cased & (to Water) | kPa | % | SPT N | Description | | | | | | | Depth | ů | Leve m OD |
| 0.00- 0.50 | 1.20 | - B - D - D | | | | | TOPSOIL: Gravel is flint and | | ar subro | ly grav ounded f | velly s Eine to | ilty SA coarse | ND. | G.I | | 41. |
| | 1.65 1.65 | - - - - - - - - | NIL (DRY) | | | C14 | At 1.20m, | | | | | | | - - - - - - - - - | 50 | 39. |
| 2.00 | 2.45 | - В - D - | 1.80 (0.50) | | | C21 | Medium de SAND. Gra coarse qu | vel is sul | bangular | to sul | | | | | | |
| 3.00 | 3.45 | - B - D | 2.90 (1.00) | | | C18 | Below 3.0 cobble co | Om, a very ntent of a | y sandy subangul | gravel ar flin | with a nt. | medium | ı | | | |
| 4.00 | 4.45 | - B - D - | 3.90 (1.00) | | | C34 | At 4.00m, | dense. | | | | | | | | |
| 5.00 | 5.45 | - B - D | 4.80 (1.00) | | | C24 | | | | | | | | - - - - - - - - - - - - - - - - - - - | 70 | 35. |
| | 6.95 6.95 | | 6.30 (1.00) | | | C36 | Firm yell gravelly fine to c Dense yel Gravel is quartzite | CLAY. Grav oarse quar lowish bro subangula | vel is s rtzite a own grav ar to su | ubangul nd flin relly sl | lar to nt. Lightly | subrour silty | SAND. | 6.3 | | 34 |
| 8.00 8.00- | 8.45 | - B - D - D | 7.90 (1.00) | | | C35 | | | | | | | | | × | |
| | 9.95 | _ D В | | | | | | | | | | | | | | |
| 9.50- 10.00 | 9.95 | - - - - - | 9.20 (1.00) | | | C40 | | | | | | | | | | |
| Boring | Hole | - | . | | | Progre | | n to | | Grour Depth | dwate Depth | 1 | in | Depth | Rem | arks on |
| Depth 1.20 .5.00 | Dia | Inspect | Technique cion Pit Percussi | : | Crew CD CD | of Hole G.L. 9.00 9.00 13.00 13.00 | Cased Wat 9.00 13.00 13.00 13.00 | Date 09/09/2 09/09/2 10/09/2 10/09/2 13/09/2 | 21 18:00 21 08:00 21 18:00 21 08:00 | Struck | Cased | Rose to | Mins | Sealed | Groun None en during | |
| Remar ymbols a obreviatio compan ccompan by sheet. Il dimens | and ons are on the lying | Backfi | cion pit was adde Ll detai | ils from | n base | ted to boring of hol | 15.00 1.20m depth between 1.2 e: bentonit | and no se 0 and 15.0 | 21 18:00 ervices 00m. p to gro | were fo | ound. <i>r</i> el. | | | CI Fig | | PS DRB 1 of 2 19/11/202 |

| | | OLE | | | | | Enginee | | J MURPH | Y & SON | S LIMI | red | | Boreho | le | BH8 | 8-22 | |
|---|--|---|-----------------|----------------|---------|------------------|----------------|-------------------|---------------------------------|----------|-----------------|----------------|-------------------|------------|-----------------|-------------------------|--|----------------------------------|
| | ~ | | | | | | Nationa | Crid | 614762. | | | | | Project | No | PC21 | 8256 | |
| Client | | PHY & S | ONS LIN | ITED Propei | tion | | Coordin | ates | 325846. | | | | | Ground | Level | | .6 m (ale 1: | |
| Sampl Depth | ing | Sample | | Strength | w | SPT N | Descrip | | | | | | | | Depth | | Legend | Level |
| Deptil | | Туре | (to Water) | kPa | % | | Descrip | | | | | | | | Depti | | Legend | m OD |
| 11.00- 11.00- | 11.45 11.45 | - - - - - - - - - - - - - - - - - - - | 10.90 (1.00) | | | С30 | | | | | | | | | | | °×° × × × × × × × × × × × | |
| 12.00 | | D | | | | | | | | | | | | | Ę | | × | |
| 12.30 12.50- 12.50- | 12.95 12.93 | - D - B - | 12.40 (1.00) | | | C56/ 275 | CLAY. | Gravel | grey sl l is sub c, quart | angular | to sul | orounde | y grave d fine | elly to | 12.: | | | 28.86 |
| 13.00 | | - D - - - - | | | | | | | | | | | | | | | | |
| 14.00- 14.00 14.00- | | - B - D - D - | 13.90 (5.40) | | 16 | C31 | Below | 7 14.00m | n, becom | es dark | brown | ish gre | у. | | | | | |
| 15.00- | 15.45 | _UT38 | 14.90 (8.00) | 53 | 14 | | | | | , | | | | | | | | 25.71 |
| Boring | | | | | | Progre | | Depth to | | nd of B | Grour | ndwate | 1 | In | 15.4 | | Remar | |
| Depth | Hole Dia | - | Techniqu | e | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | Remar Ground | |
| | | | | | | | | | | | | | | | | | | |
| Remar Symbols a abbreviati explained accompar key sheet. All dimens are in met | and ons are on the nying sions | | | with BS59 | 20-2045 | 1 | | | ļ. | <u>.</u> | | <u> </u> | 1 | 1 | Fi | ogged hecke igure | 2 | PS PRB 2 of 2 9/11/2021 |

| roject | EQUIN | IOR FEEI | PHASE | 1 INVE: | STIGAT: | IONS | Engineer | J MURPHY & | SONS LIMIT | ED | | Boreho Project | | H8-23 | |
|--|-----------------------------------|-------------------------------|----------------------------------|----------------------------------|------------------------------|-----------------------------------|---|--|--|-----------------|---------|-------------------|--|-------------------|--|
| lient Sampli | | RPHY & S | SONS LIN | ITED Prope | rtioc | | National Grid Coordinates Strata | 614704.176 325673.953 | | | | Ground | Level 40 | 0.75 m Scale 1 | OD |
| | ing | Sample | Depth Cased & | Strength | | SPT N | Description | | | | | | Donth | | :50 Leve |
| Depth | | Туре | (to Water) | kPa | % | - | Description | | | | | | Depth G.L. | Legend | m OD 40. |
| 0.00- 0.20 | 0.70 | - B - D | | | | | | rown slightl Lar to subro and flint. | | | | ravel | | | |
| 0.70- 0.70 | 1.20 | в | | | | | subangular | elly SAND wi flint. Grav fine to coa | el is subar | igular t | :0 | | 0.70 | | 40. |
| | 1.65 1.65 | в - - | NIL (DRY) | | | C25 | Medium dens | se brown gra to subround | velly SAND. | Grave | is | | 1.20 | | 39. |
| 2.00 | 2.45 | - B - D - | 1.90 (0.50) | | | C32 | At 2.00m, o Below 2.45r | dense. n, becomes y | ellowish br | cown. | | | - - - - - - - - | | , |
| 3.00 | 3.45 | В D | 2.90 (0.50) | | | C27 | | | \langle | | | | - - - - - - - - | | |
| 4.00 | 4.45 | - B - D | 4.80 (1.00) | | | C25 | | \langle | | | | | - - - - - - - - - - | | |
| 5.00 | 5.45 | - B - D | 4.80 (1.00) | | | C28 | | | • | | | | - - - - - - - - - - | | |
| 6.00 | | - - - - | | | | | | | | | | | - | | |
| | 6.95 6.95 | В | 6.30 (1.00) | \langle | | C34 | Below 6.50r | n, becomes a | dense grav | elly si | lty sa | nd. | | 0 | |
| 7.00 | | | | | | | | | | | | | - | | |
| | 8.45 8.45 | - В | 7.80 (1.00) | | | C37 | | | | | | | - - - - - - - - | | |
| 9.00 | | - - - - | | | | | | | | | | | - - - - | | |
| 9.50- | 9.95 9.95 | - - B - | 9.20 (1.00) | | | C34 | | | | | | | - - - - - - | | |
| 0.00 | | _ D | | | | | | | | | | | | | |
| Soring | Hole | | Toober | | C | Progre | Depth Depth t | 0 0 | Depth | dwater Depth | Rose to | in | Depth | Rema | rks on |
| 0epth 1.20 5.45 | Dia | | Technique ion Pit Percussi | | Crew CD CD | of Hole G.L. 10.50 10.50 | Cased Water | 13/09/21 0 13/09/21 1 14/09/21 0 | ime Struck 8:00 8:00 8:00 8:00 | Cased | KUSE IO | Mins | Sealed | | dwater ounter |
| emar wmbols a obreviatio compan ccompan by sheet. | and ons are on the lying | Inspect Water w Backfil | tion pit vas adde 1 detai | t hand o ed to as ils from | excavat ssist l n base | ted to poring of hol | 1.20m depth a between 1.20 e: bentonite | and no servi and 15.00m. grout up to | ces were fo | ound. rel. | | | Cheo Figu | cked by 1 re : | PS DRB 1 of 2 19/11/202 |

| Project | EQUIN | OR FEE | D PHASE | 1 INVE | STIGAT | IONS | Enginee | er | J MURPHY | & SON | S LIMI | TED | | Boreho Project | No P | H8-23 | |
|---|--|----------------------------|--------------------------------|-----------------|--------|------------------|----------------------------------|----------------------------|---|--------------------------|-----------------|----------------|---------|-------------------|-----------------|--------|-----------------------------------|
| Client | T MUR | рну & | SONS LIN | 1TTED | | | Nationa Coordir | | 614704.1 325673.9 | | | | | - | Level 4 | | OD |
| Sampli | | u . | | Prope | rties | | Strata | | 01007013 | | | | | oround | 2010. 2 | Scale | |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 10.40 10.90 11.00-1 11.00-1 12.00 | | D | 10.70 (1.00) | | 16 | C34 | suban flint Dense Grave | gular t and ch brown | ightly o co subrou malk. slightly ubangulan zite and | nded f grave to su | ine to | coarse | quartz | SAND. | 10.40 | | 30.35 |
| 12.50-1 12.50-1 13.00 | | - B - D - D | 12.20 (1.00) | | | С36 | | | | | | | | | | | |
| 14.00-1 14.00 14.00-1 14.40 | | B D D D D D | 13.40 (1.00) | | 17 | C30 | Stiff | browni | .sh grey | sandy | CLAY. | | | | 14.40 | | 26.35 |
| 15.00-1 15.00-1 | | D | 14.90 (1.00) | | | C23 | | | Er | ld of B | orehold | e | | | | | 25.30 |
| | | | | | | | | | | | | | | | | | |
| Boring | | | | | | Progre | ess | | | | Grour | ndwate | r | | <u> </u> | | |
| Depth | Hole Dia | | Techniqu | e | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | arks on ndwater |
| Remark Symbols ar abbreviatio explained oc accompany key sheet. All dimensia are in metr | nd ins are on the ving ons | <u> </u> | accordance | | |] | | | | <u> </u> | | | | | Che Figu | | PS DRB 2 of 2 19/11/2021 |

| h | | | | | | | ole Percu | ssion | | | | | | | | |
|------------------------|-------|----------------------------|--------------------------------|-----------------|----------|-------------------------------|--|--|----------------------|--------------------|--------------------|--------------------|-------------------|----------|---|--------------------|
| Project | EQUIN | IOR FEEI | D PHASE | 1 INVES | STIGAT | IONS | Engineer | J MURPHY | & SONS | S LIMI | red | | Boreho Project | No PC | H9-24 | |
| Client | J MUF | PHY & S | SONS LIM | IITED | | | National Grid Coordinates | 614213.8 319117.1 | | | | | Ground | Level 17 | .63 m | OD |
| Sampli | ing | | _ | Proper | | | Strata | | | | | | | | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Description | | | | | | | Depth | Legend | Level m OD |
| 0.00- | 0.40 | в | | | | | TOPSOIL: B | rown sligf lar to sub | ntly gra | avelly 1 quart | silty zite a | sand. (nd flir | Fravel | G.L. | | 17.63 |
| 0.40- 0.40 | 1.20 | В D | | | | | Soft to fi Gravel is quartzite | subangular | to sub | gravel prounde | lly san ed fine | dy CLAN to coa | r. Irse | 0.40 | | 17.23 |
| 1.20- 1.20- 1.40 | | - B - D - D | NIL (DRY) | | | C16 | Medium den with a low Gravel is a quartzite a | cobble co angular to | ontent o subrou | of suba | angular | flint | | 1.00 | | 16.63 |
| 2.00- 2.00 2.00- | | B D | 1.90 (0.50) | | | C33 | Below 2.20 | m, dense. | | | | | | | × • • • • • • • • • • • • • • • • • • • | |
| 3.00- 3.00 3.00- | | - B - D - | 2.90 (0.50) | | | C36 | | | | | | | | | | |
| 4.00- 4.00 4.00- | | - B - D - | 3.90 (0.50) | | | C46 | | \langle | | | | | | | × • • • • • • • • • • • • • • • • • • • | |
| 4.70 5.00- 5.00- | | - D - B - D | 4.50 (1.00) | | | S20 | CHALK reco gravelly S white with subangular | ILT. Grave occasiona | el is ve al black | ery wea c speck | ak, low cs. Occ | densit asional | y, | 4.70 | | 12.93 |
| 6.00 | | - - - - - | | | 36 | | | | | | | | | | | |
| 7.00 | | - - - - - | | | | | | | | | | | | | | |
| 8.00- | 8.45 | - - - - - - | 7.60 (1.00) | | | C17 | | | | | | | | | | |
| 9.00 | | D | | | | | | | | | | | | | | |
| 9.50- | 9.95 | UTF 17 | 9.20 (1.00) | | | | | | | | | | | | | |
| 10.00 | | D | | | 28 | | Below 10.0 | Om, flint | gravel | becomi | ing rar | e. | | ⊨ | | |
| Boring | Hole | : I | # | | | Progre | ess Depth Depth 1 | tol | | Grour Depth | ndwate Depth | 1 | in | Depth | Rema | rks on |
| Depth | Dia | Increase | Technique | | Crew | of Hole | | . Date | Time 08:00 | Struck | Cased | Rose to | Mins | Sealed | Groun | dwater |
| 1.20 15.45 | 0.15 | | tion Pit Percussi | | CR CR | G.L. 5.00 5.00 15.45 | | 14/09/21 14/09/21 15/09/21 15/09/21 | 18:00 08:00 | | | | | | None end during b | ountered oring. |

| Sym abb expl | ained o | nd ons are on the | Inspection pit hand e Water was added to as Backfill details from | ssist boring | betwee | n 1.20 a | and 15.00 |)m. | | | | ged by cked by re | ECAD/PS DRB 1 of 2 19/11/2021 |
|--------------------|--------------------|-------------------------|---|------------------|--------|----------|-----------|-----|--|--|---|-------------------------|--|
| key | ompany sheet. | . 0 | | | | | | | | | þ | elec | لمشقع |
| | limensi in metr | | Logged in accordance with BS59 | 30:2015 + A1:202 |) | | | | | | | | |

| key | sheet. |
|-----|--------|
| | |

| Project EQUI | | | | | | Enginee | | J MURPH | Y & SON | IS LIMI | red | | Boreho Project | No P | H9-24 C218256 | |
|---|------------------------------------|---|-----------------|--------|------------------|--------------------|----------|--------------------|----------------|----------|----------------|----------|-------------------|---------|------------------|--|
| Client J MU | RPHY & S | SONS LIN | IITED | | | Nationa Coordir | I Grid | 614213. 319117. | 876 E 145 N | | | | - | | 7.63 M | OD |
| Sampling | | | Prope | | | Strata | | | | | | | oround | 20101 2 | Scale 1 | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 11.00-11.45 11.00 12.00 12.50-12.95 13.00 14.00-14.45 14.00 | - D - D - UTF - 15 - D | (to Water) 10.50 (1.00) 12.70 (1.00) 13.90 (1.00) | kPa | 29 | C13 | | | | | | | | | | | |
| 15.00-15.45 | | 14.90 | | | c12 | | | E | nd of E | korehold | 2 | | | - 15.45 | | 2.18 |
| | - | | | | | | | | | | | | | - | | |
| Boring Depth Hole Dia | | Techniqu | e | Crew | Progree Depth | Depth | Depth to | Date | Time | Depth | Depth Cased | | in | Depth | | rks on |
| Deptri Dia | | . comiqu | <u> </u> | | of Hole | Cased | Water | Date | , inte | Struck | Cased | | Mins | Sealed | Groun | dwater |
| Remarks Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres. | | accordance | | | 1 | <u> </u> | | | <u> </u> | <u> </u> | <u> </u> | <u> </u> | | Figu | ecked by | ECAD/PS DRB 2 of 2 19/11/2021 |

| roject | EQUIN | IOR FEED | PHASE | 1 INVE | STIGATI | IONS | Enginee | er | J MURPHY | & SON | S LIMII | TED | | Boreho Project | | 8 H9-25 c218256 | |
|-----------------------------------|--------------------------|---------------------------|--------------------------------|---------------------|-------------------|--|--------------------|-------------------|--|-------------------------|---------|--------------|----------|-------------------|------------|-------------------------------|------------------------------------|
| lient | | PHY & S | ONS LIM | | | | Nationa Coordin | ates | 614226.4 318987.5 | | | | | Ground | Level 1 | | OD |
| Sampli | ing | Samplo | Depth | Prope | | ODT N | Strata | | | | | | | | | Scale 1 | |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | ¥ % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Leve m OD |
| 0.00- 0.20 | 0.90 | - B - D - | | | | | with | occasio | rk brown onal root line to c | lets. | Gravel | is ang | jular to |) | G.L. | | 15. |
| 0.90 1.20- | 1.20 1.65 1.65 | - D B | NIL (DRY) | | | C25 | subro | unded : | ery sandy Eine to c , becomin | oarse | flint a | and qua | | | - 0.90 | | 14. |
| 2.00 | 2.45 | - B - D - | 1.90 (0.50) | | | C28 | | | | | | | | | | | |
| 3.00 | 3.45 | - B - D - | 2.90 (0.50) | | | C35 | | | becomin subrounde | | | a medi | ium cobb | ole | | | |
| 4.00 | 4.33 | - B - D - | 3.70 (0.50) | | | C40/ 180 | | | | | | | | | | | |
| 5.00 | 5.45 | - - B - D - - | 4.50 (0.50) | | | C38 | | V | | | | | | | | | |
| 6.00 | | D | | | | | | | | | | | | | | | |
| 6.50- | 6.95 | в | | | | | | | | | | | | | | | |
| 7.00 | | | | | | | | | | | | | | | | | |
| 8.00- | 8.45 | - - в - | | | | | | | | | | | | | | | |
| 9.20 | | - D | | | | | Verv | soft da | ark brown | silty | fibrou | 15 PEAT | r with | | 9.20 | × | 6. |
| 9.50- | 9.95 | UTF 11 D | 9.30 (1.00) | | 81 | | occas | | up to 30 | | | | | lark | 10.00 | | 5. |
| soring | | | | | 01 | Progre | 255 | | | | Group | idwate | ٩r | | | | |
| Depth | Hole | | Technique | e | Crew | Depth | Depth | Depth to Water | Date | Time | Depth | Depth | Rose to | in Mins | Depth | | arks on |
| 1.20 5.45 | Dia 0.15 | | ion Pit | : | | of Hole G.L. 6.50 6.50 15.00 | 6.50 | Water | 20/09/21 20/09/21 21/09/21 21/09/21 | 08:00 18:00 08:00 | | Cased | | Mins | Sealed | Grour None end during 1 | |
| emar | ks 🗖 | Inspect | ion pit | : hand (| excavat | ed to | 1.20m d | epth a | nd no ser and 15.00 | vices | were fo | ound. | | | | ged by | ECAD |
| mbols a breviatic plained | and ons are on the | Water w Backfil | as adde 1 detai | ed to as ls from | ssist k n base | oring of hol | between e: bent | 1.20 a onite g | and 15.00 grout up | m. to gro | und lev | <i>r</i> el. | | | | ecked by ure | ECAD DRB 1 of 2 19/11/202 |
| y sheet. I dimens e in metr | ions | Logged in a | accordance | with BS59 | 30:2015 + | A1:2020 | | | | | | | | | g | ælæ | |

| | EQUINOR FEED | | | | | Engineer | | J MURPHY | K & SON | S LIMI | IED | | Boreho Project | le B No Po | H9-25 | |
|---|-------------------|--------------------------------|-----------|-------------|------------------|------------------------------------|-----------------|----------------------|---------|-----------------|-------------------|-----------------|--------------------------|-----------------|----------------------|----------------------------|
| Client Sampli | J MURPHY & : | SONS LIN | ITED | ties | | National G Coordinate Strata | Grid e es s | 514226.4 318987.5 | | | | | Ground | | 5.53 m (Scale 1: | |
| Depth | Sample Type | Depth Cased & (to Water) | | | SPT N | Description | n | | | | | | | Depth | Legend | Level m OD |
| | - | | Ki u | <i>,</i> ,, | | Soft gro occasio | eyish nal sh | brown o nell fra | organic | sandy (up to | CLAY w o 5mm i | rith n size) | • | 10.00 | | 5.53 |
| 11.00-1 11.00-1 | | 10.70 (1.00) | | 78 | S8 | Below 1 | 1.00m, | , becomi | ing fir | m. | | | | | | |
| 12.50-3 | 12.95 UT19 | 12.30 (1.00) | 50 | 80 | | | | | | | | | | | | |
| 13.00 | D | | | | | Below 1 | 3.50m, | , shell | fragme | nts be | come ra | re. | | | | |
| 14.00-1 14.00-1 | | 14.90 (1.00) | | 84 | S10 | | | \langle | | | | | | | | |
| 15.00-3 | 15.45 UTF | 14.90 (1.00) | | | | | \geq | | | | | | | 15.45 | | 0.08 |
| | | | | | | | | Er | nd of B | orehol | e | | | | | |
| | | | | | | * | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Boring | | | | | Progre | ess | | | | Grour | ndwate | r | | <u> -</u> | | |
| Depth | Hole Dia | Techniqu | e | Crew | Depth of Hole | Depth De | pth to /ater | Date | Time | Depth Struck | Depth Cased | | in Mins | Depth Sealed | Remar Ground | |
| | | | | | | | | | | | | | | | | |
| Remark | ks Ags | | | | r | <u> </u> | ļ_ | | | | ļ | ļ | | Logo Cheo | cked by I | ICAD DRB |
| Symbols ar abbreviatio explained o accompany key sheet. | ons are on the | | | | | | | | | | | | | Figu | re 2 | ? of 2 9/11/2021 |
| All dimensi | | | with BS50 | 0.001E | 44,2020 | | | | | | | | | | الككىند 7 | |

BUDERUU E DECUDU Cable Percussion

| Project | EQUIN | IOR FEEI | D PHASE | 1 INVES | STIGAT | IONS | Engine | er | J MURPHY | Y & SON | S LIMI | red | | Boreho Project | ole No | BH PC2 | 9-26 18256 | |
|--|-----------------------------------|---------------------------------|-----------------------------------|----------------------------------|------------------------------|----------------------------|-------------------------------|-----------------------------|--|------------------------------|----------------|--------------------|------------------|-------------------|--------------|-----------|---------------------------------------|-------------------------------------|
| lient | | RPHY & S | SONS LIN | | dia a | | Nationa Coordir | nates | 614091.3 318975.8 | | | | | Ground | Level | | 35 m | |
| Sampl | ing | Sample | Depth Cased & | Prope Strength | | SPT N | Strata | - | | | | | | | | | cale 1 | :50 Leve |
| Depth | | Туре | (to Water) | kPa | % | 0 | Descrip | tion | | | | | | | Depth | | Legend | m OD |
| 0.10 0.30- | • 0.30 • 1.20 | B D B | | | | | claye | ey sand | rk brown with man ed fine (| ny root | lets. (| Gravel | is angu | lar | - G.: | | | 16. |
| 0.30 | | _ D - - - | | | | | grave | ally sa | ff light ndy CLAY fine to o | . Grave | l is an | | | ·Y | | | · · · · · · · · · · · · · · · · · · · | |
| 1.20 | 1.65 1.65 | B D | NIL (DRY) | | | C14 | GRAVE | EL. Gra | e dark g vel is a tzite and | ngular | to rou | ghtly c nded fi | layey ne to c | oarse | - - - | 20 | | 15. |
| 2.00 | 2.45 2.45 | - B - D - | 1.90 (0.50) | | | C30 | | | , becomin subangula | | | a medi | um cobh | ole | | | | |
| 3.00 | · 3.45 · 3.45 | - - - - - - - | 2.90 (0.50) | | | C35 | | | | | | | | | | | | |
| 4.00 | • 4.45 • 4.45 | - B - D - | 3.90 (1.00) | | | С38 | | | | | | | | | | | | |
| 5.00 | - 5.45 - 5.45 | - B - D - D - D | 4.70 (1.00) | | | C24 | pocke Stiff CLAY | ets (up E dark with o | , becomin to 50mm grey slig ccasiona el is ang | in siz ghtly s l shell | andy since | lightly | gravel | .ly m in | 5.: | 30 | | 11. |
| 6.00 | | - D | | | 13 | | coars | e flin | t, quart | zite an | d chall | ζ | | | | | · · · · · · · · · · · · · · · · · · · | |
| 6.50- | 6.95 | UTF 24 | 6.30 (1.00) | | | | | | | | | | | | | | ····· | |
| 7.00 | | D | | | | | grave densi | elly SI ity, wh | ered as v LT. Grave ite with subangula | el is v occasi | ery weatonal b | ak to w lack sp | eak, lo | w | 7.0 | 00 | | 9. |
| | 8.45 8.45 | - - - D - - | 7.70 (1.00) | | 27 | S7 | | | | | | | | | | | | |
| 9.00 | | - - - - | | | | | | | | | | | | | | | | |
| | 9.95 9.95 | В D | 9.20 (1.00) | | | S6 | | | | | | | | | | | | |
| .0.00 | | - D | | | | | | | | | | | | | † | | | |
| Boring | Hole | | | | | Progre | | Depth to | | | Grour Depth | ndwate Depth | 1 | in | Depth | | Rema | rks on |
| Depth 1.20 .5.45 | Dia | Inspect | Technique tion Pit Percussi | : | Crew CD CD | of Hole G.L. | Cased | Water | Date 16/09/2: 16/09/2: | | Struck | Cased | Rose to | Mins | Sealed | N | | dwater |
| Remar ymbols a bbreviatio xplained ccompan ey sheet. Il dimens | and ons are on the nying | Inspect Water v Backfi | tion pit was adde 11 detai | t hand e ed to as lls from | excavat ssist l n base | ted to boring of hol | 1.20m d betweer e: bent | lepth a 1.20 conite | nd no sem and 15.00 grout up | rvices Dm. to gro | were fo | ound. vel. | <u> </u> | | C Fi | | ed by | ECAD DRB 1 of 2 19/11/2021 |

| BORE | EHQ | OLE | REC | ORD |) – | Cab | ole Pe | ercus | sion | | | | | | | | |
|---|-------|--|--|-----------------|-----------|------------------|--------------------|----------|--------------------|----------------|-----------------|----------|---------|--------------------------|----------------------|-------------------|-------------------------------------|
| Project Eg | QUINC | OR FEED |) PHASE | 1 INVES | TIGAT | IONS | Enginee | er | J MURPH | K & SON | S LIMI | TED | | Boreho Project | le B No po | H9-26 | |
| | | PHY & S | SONS LIM | | | | Nationa Coordir | nates | 614091. 318975. | 273 E 367 N | | | | Ground | | 5.35 m | |
| Sampling | | Comula | Depth | Proper | | | Strata | 1 | | | | | | | 1 | Scale 1 | ñ |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 11.00-11. 11.00-11. 12.00 12.50-12. 12.50-12. 13.00 14.00-14. 14.00-14. 15.00-15. | . 38 | - BD - D - D - D - D - D - D - D - | 10.80 (1.00) 12.20 (1.00) 13.90 (1.00) 14.90 (1.00) | | 32 | s5 s5 s7 | | 7 12.00 | h, flint | gravel | orehold | | | | | | 0.90 |
| Boring Depth F | ole | - | Technique | e | Crew | Depth of Hole | | Depth to | Date | Time | Depth Struck | | Rose to | in | Depth | | rks on |
| | Dia | | | | | of Hole | Cased | Water | Duto | | Struck | Cased | | Mins | Sealed | Groun | dwater |
| Remarks Symbols and abbreviations a | are | | | ļ | | 1 | <u> </u> | | | <u> </u> | | <u> </u> | ļ | | Logo Cheo Figu | cked by 1 re 2 | ECAD DRB 2 of 2 19/11/2021 |
| explained on the accompanying key sheet. All dimensions are in metres. | | .oaaed in a | accordance | e with BS593 | 30:2015 + | + A1:2020 | | | | | | | | | ļ | | |

| roject | EQUIN | IOR FEEI | PHASE | 1 INVES | STIGAT: | IONS | Enginee | er | J MURPHY | & SON | S LIMI | ED | | Boreh Projec | | | 19-27 218256 | |
|--|-----------------------------------|--------------------------------------|----------------------------------|--------------------------------|----------------------------|----------------|--|--------------------------|--|------------------|------------------|--------------------|-----------------|-----------------|---------|-------------------------|--|-----------------------------------|
| lient | | PHY & S | SONS LIM | | | | Nationa Coordin | ates | 614128.5 318878.1 | | | | | Groun | d Leve | | .93 m | |
| Sampli | ing | | Depth | Proper | | 1 | Strata | | | | | | | | | | Scale 1 | 1 |
| Depth | | Sample Type | Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | | pth | Legend | Level m OD |
| 0.10 | 0.30 | - B - D - B - D | | | | | claye angul quart | y sand ar to zite. | rk brown with occ subrounde | asiona d fine | l root to coa | lets. G arse fl | ravel int an | is d | ŧ | Э.L.).30 | | 18.9 |
| | 1.20 | _ в | | | | | subro | unded | tly grave fine to c | | | avel is | angul | ar to | | L.00 | | 17. |
| | 1.65 1.65 | - D - В - D | NIL (DRY) | | 25 | S9 | Soft | | m dark gr onal pock | | | | | | | L.30 | | 17. |
| 2.00- | 2.45 | UTF 14 | 1.50 (DRY) | | | | sand. flint | Grave and q | uartzite. , becomin | lar to | rounde | | | | | | | |
| | | | (DRY) | | | | | | | | | | | | | | $\begin{array}{c} & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & &$ | |
| | 3.45 3.45 | B | 2.90 (0.50) | | | S6 | | | | | | | | | | | | |
| 3.60 | | - D | | | 25 | | SILT. | Grave | ered as w l is very | weak | to weal | , low | grave densit | 11y y, | | 3.60 | | 15. |
| | 4.45 | | 3.90 (0.50) | 442 | 21 | | white | with | occasiona | l blac | k spec] | cs. | | | | | | |
| 4.50 | | _ D _ _ | | | | | | | ered as l tly grave | | | white | slight | ly | | 1.50 | | 14. |
| | 5.45 5.45 | B D | 4.80 (0.50) | | | s13 | | Y | | | | | | | | | | |
| 6.00 | | D | | | | | | 5.90m grave | , with oc 1. | casion | al angu | ılar to | suban | gular | | | | |
| 6.50- | 6.95 | UTF 22 | 6.20 (1.00) | | | | | | | | | | | | | | | |
| 7.00 | | D | | | | | | | | | | | | | | | | |
| | 8.45 8.45 | - - - - - - - - | 7.70 (1.00) | | | S13 | | | | | | | | | | | | |
| 9.00 | | | | | | | | | | | | | | | | | | |
| L0.00 | | D | | | 27 | | | | | | | | | | - | | | |
| Boring | Hole | | | | | Progr Depth | | Depth to | | | Grour Depth | ndwate Depth | 1 | in | Dep | th | Rema | rks on |
| Depth 1.20 .5.45 | Dia 0.15 | Inspect | Technique | : | Crew CR CR | 12.50 | 12.50 12.50 | Water | Date 22/09/21 22/09/21 27/09/21 | 18:00 08:00 | Struck | Cased | Rose to | ' Mins | s Seale | : | Groun None enc during b | |
| Remar ymbols a obreviatio compan ey sheet. | and ons are on the lying | Inspect Water v Backfil | tion pit vas adde 11 detai | : hand e d to as ls from | excava sist] a base | ted to | 15.00 1.20m d between e: bent | epth a 1.20 onite | 27/09/21 nd no ser and 15.00 grout up | vices | were fo | ound. rel. | | | | Logge Chec Figure | ked by | AM DRB 1 of 2 19/11/2021 |

| BORI | EH | OLE | REC | ORD |) – | Cab | ole Pe | ercus | sion | | | | | | | | |
|--|-----------------|---------------------------------|--------------------------------|-----------------|-----------|------------------|--------------------|-------------------|--------------------|---------------|-----------------|----------------|--|--------------------------|-----------------|-------------------------|--|
| Project _E | QUIN | OR FEEI | D PHASE | 1 INVES | STIGAT | IONS | Enginee | er | J MURPH | Y & SON | S LIMI | FED | | Borehc Project | No P | H9-27 C218256 | |
| Client , | MITR | рну & 9 | SONS LIN | 1TTED | | | Nationa Coordir | l Grid | 614128. 318878. | 552E 104 N | | | | Ground | level 1 | 8.93 m | OD |
| Sampling | | | | Prope | ties | | Strata | | | | | | | | | Scale 1 | |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 11.00-11 11.00-11 | | B | 11.90 (0.50) | | | s15 | Below | 7 12.00m | 1, flint | gravel | becom | ing rar | e. | | | | |
| 12.50-12 12.50-12 13.00 | | - B - D - D - D | 12.20 (1.00) | | 28 | S10 | | | | | | | | | | | |
| 14.00-14 | .45 | - UTF - 21 | 13.60 (1.00) | | | | | | \langle | | | | | | | | |
| 15.00-15 | 5.45 | - - - - - - - | 14.90 (1.00) | | | 59 | | | | | | | | | 15.45 | | 3.48 |
| Boring | | | | | | Progra | | | E | nd of B | Grour | ndwate | | | | | |
| | Hole Dia | | Techniqu | e | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| | | | | | | | | | | | | | | | | | |
| Remarks Symbols and abbreviations explained on accompanyin key sheet. All dimension are in metres | are the g | | accordance | e with BS59 | 30:2015 + | - A1:2020 | <u>.</u> | | | <u> </u> | 1 | ! | <u>. </u> | | Figu | cked by 1 ure 2 | AM DRB 2 of 2 19/11/2021 DIGGS |

| roject _{EQ} | QUIN | OR FEEI |) PHASE | 1 INVES | STIGAT: | IONS | Enginee | | J MURPHY | | S LIMI | red | | Boreh Projec | | | H10-28 | |
|---|------|--------------------|----------------------|----------------------|-------------------|-----------------|------------------------------|--------------------|-------------------------------------|------------------|------------------|-------------------|-------------------|-----------------|-------|--------------|---------------------------------------|----------------------------|
| | | PHY & S | SONS LIN | | rtico | | Nationa Coordin Strata | ates | 613150.0 316689.1 | | | | | Groun | d Lev | | | OD |
| Sampling | | Sample | Depth Cased & | Prope Strength | | SPT N | | | | | | | | | | | Scale 1 | :50 Leve |
| Depth | | Туре | (to Water) | kPa | % | | Descrip | tion | | | | | | | | epth G.L. | Legend | m OD |
| 0.10- 0. | 50 | в | | | | | TOPSO sand. | IL: Bro | own sligh l is suba | tly gr ngular | avelly to sul | slight | ly sil d fine | ty to | F | G.I. | | 10. |
| 0.30 0.50- 1. | .20 | В | | | | | | | t and qua | | | | | | | 0.50 | | 18. |
| | | - | | | | | | gular | ish brown to subrou | | | | | | Ē | | 0.0 | |
| 1.00 | | _ D | | | | | - | | | | | | | | F | | | |
| 1.20- 2. 1.20- 1. | | B D | 1.20 (DRY) | | | \$50/ 235 | low c suban | obble (gular) | yellowish content o to rounde | f suba | ngular | flint. | . Grav | el is | | 1.20 | | 17. |
| 2.00 | | - - D | | | | | quart | zite. | | | | | | | - | | | |
| | | - | | | | | | | | | | | | | ÷ | | | |
| 2.50- 2. | 95 | - | 2.00 | | | C15 | | | | | | | | | Ę | | | |
| 2.70- 3. | .50 | в | (DRY) | | | | Firm | brown | locally | dark g | rov e | lightly | arave | 11. | | 2.70 | 0.00 | 16. |
| 3.00 | | D | | | 21 | | sandy | CLAY. | Gravel i | s suba | ngular | to sub | rounde | d fine | - | | | |
| | | - | | | | | | - | | | | | | | Ē | | | |
| 3.50- 4. 3.50- 3. | | _ В - D | 3.20 | | | s10 | | | | | | | | | Ē | | ····· | |
| 4.00 | | - р | (3.40) | | | | | | | | | | | | ÷ | | 0.00 | |
| 1000 | | | | | | | | | | | | | | | -F | 4.20 | ····· | 14. |
| 4.50- 4. | 95 | UT17 | 4.50 (DRY) | 69 | 22 | | grave | lly CL | and dark AY. Grave lint and | l is a | ngular | y sandy to sub | r sligh rounde | tly d fine | - | | | |
| 4.95- 5. | 10 | р | | | | | | | | | | | | | Ę | | ····· | |
| 1.95- 5. | . 10 | - | | | | | | | | | | | | | F | | | |
| 5.40- 6. | | в | | | | | | | | | | | | | Ē | | · · · · · | |
| 5.50- 5. | .95 | - D | 4.50 (DRY) | | | S14 | | | | | | | | | Ē | | · · · · · · · · · · · · · · · · · · · | |
| | | - | | | | | | | | | | | | | F | | · · · · · | |
| 6.20 | | D | | | 17 | | | | | | | | | | Ē | | | |
| | | - | | | | | Ť | | | | | | | | F | | ···· | |
| 6.90- 8. | .00 | в | | | | | CHALK | recov | ered as b | rownis | h crea | n sliah | tlv sa | ndv | | 6.80 | | 11. |
| 6.90- 7. | | | 4.50 (DRY) | 172 | 27 | | sligh | tly gra | avelly SI ensity, w | LT. Gr | avel is | s very | weak t | o ⁻ | F | | | |
| 7.35- 7. | .50 | D | | | | | suban | gular : | fine to c | oarse | flint g | gravel. | | | Ē | | | |
| | | - - | | | | | | | | | | | | | Ē | | | |
| 8.00- 9. 8.00- 8. | | В D | 4.50 | | | S 3 | | | | | | | | | F | | | |
| | | - | (DRY) | | | | | | | | | | | | Ē | | | |
| 8.50 | | _ D | | | 25 | | | | | | | | | | F | | | |
| 9.00- 9. | 45 | UT16 | 9.00 | | | | | | | | | | | | F | | | |
| | - | - | (DRY) | | | | | | | | | | | | F | | | |
| 9.45- 9. | 60 | D | | | | | | | | | | | | | Ę | | | |
| | | - | | | | | | | | | | | | | Ę | | | |
| .0.00-11. | .00 | В | | | | | | 10.00 | m, matrix | becom | _ | | | | F | | | _ |
| | ole | | Techniqu | 0 | Crew | | Depth | | Date | Time | Depth | | Rose to | in | Dep | | | rks on |
| 1.20 | Dia | | ion Pit | | MR/SS | of Hole G.L. | Cased | Water | 16/09/21 | | Struck | Cased | Nose n | ' Mins | s Sea | led | Groun | dwater |
| | | | Percussi | | MR/SS | 12.50 | 9.00 | DRY | 16/09/21 | | | | | | | | during h possibly obscured | oring, , l by |
| emarks | | Inspect | ion pit | t hand e | excava | ted to | 1.20m d | epth a | nd no ser and 2.70m | vices | were fo | ound. | <u> </u> | <u> </u> | | Logo | added wa | ps |
| mbols and breviations a | are | Water v Backfil | vas adde 11 detai | ed to as ils from | ssist l n base | oring of hol | between e: bent | 1.20 a onite g | and 2.70m grout up | to gro | und lev | vel. | | | | | ked by e | DRB 1 of 2 19/11/202 |
| plained on th companying y sheet. | | | | | | | | | | | | | | | | ഫ- | <u>e</u> lee | ഫിഷ |
| dimensions | | | accordance | | | | | | | | | | | | | عرع | ألتحمين | տած |

| | | |) PHASE | | | | DIE Pe Engineer | | J MURPHY | & SON | S LIMIT | ED | | Borehc Project | l e No | BH10-2 PC21825 | 2 8 |
|-------------------------------|-----------|----------|--------------------------------|-------------------|---------|------------------|----------------------|------------------|----------------------|--------------|-----------------|----------------|----------|--------------------------|------------------|-------------------------------|------------------------|
| | MURI | РНУ & 2 | SONS LIN | | | | National Coordina | Grid tes | 613150.0 316689.1 | 80 E 51 N | | | | Ground | Level | 18.73 | |
| ampling | | Sample | Depth | Prope Strength | | SPT N | Strata | | | | | | | | | | 1:50 |
| epth | | Туре | Depth Cased & (to Water) | kPa | % | 51110 | Descripti | on | | | | | | | Depth | Lege | nd Leve m OD |
| 0.00-10. | 45 | D | 9.00 (DRY) | | | S6 | | | | | | | | | Ē | | |
| 0.50 | - | D | | | | | | | | | | | | | | | |
| 1.00-11. | 45 | _UT26 | 9.00 (DRY) | | | | | | | | | | | | | | |
| L.45-11. | 60 | D | | | 27 | | | | | | | | | | | | |
| | | - | | | | | | | | | | | | | - - - | | ЦЦЦ /// |
| 2.50-12. | 95 | D | 9.00 (DRY) | | | S14 | | | | | | | | | + - - | | |
| | | _ | | | | | | | En | d of B | orehole | 1 | | | 12.9 | 95 | 5. |
| | - | | | | | | | | | | \searrow | | | | - - - - | | |
| | | _ | | | | | | | | | | | | | | | |
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| | - | _ | | | | | | | | | | | | | | | |
| | - | <u>.</u> | | | | | | X | | | | | | | | | |
| | | _ | | | | | | | | | | | | | | | |
| | - | <u>.</u> | | | | | | | | | | | | | - | | |
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| | | _ | | | | | | | | | | | | | È. | | |
| | | <u>-</u> | | | | | | | | | | | | | t t | | |
| | F | | | | | | | | | | | | | | E | | |
| oring | [| · | | | | Progre | | | | | | dwate | | | <u> </u> | | |
| epth Di | ole ia | | Technique | 9 | Crew | Depth of Hole | Depth D Cased | epth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | emarks on oundwater |
| | | | | | | | | | | | | | | | | | |
| marks | AGS | | | | | | ,l | | | | Į | | <u> </u> | | Lo Cl Fi | ogged by hecked by gure | PS DRB 2 of 2 |
| reviations a lained on the | | | | | | | | | | | | | | | Г | | 19/11/202 |
| sheet. imensions | | | accordance | | 20.0015 | 44-0000 | | | | | | | | | e | | न्रीणीव्य |

Project EQUINOR FEED PHASE 1 INVESTIGATIONS Engineer

J MURPHY & SONS LIMITED

Borehole Project No

BH10-29 PC218256

| ampli | | | SONS LIN | Proper | ties | | Coordin Strata | | 316584.6 | | | | | | | 3.84 m Scale 1 | |
|------------------------------|---------------|--------------------|--------------------------------|-----------------|-------------------|------------------|--------------------|-------------------|-------------------------------------|---------------------|--------------------------|----------------|----------|------------|-----------------|---|----------------------------|
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 0.10- 0.20 0.50- | | - B - D - B | | | | | claye angul | y sand | rk brown with occ subrounde | asional | l root | lets. G | ravel i | s | G.L. | | 13.8 |
| 0.80 | | D | | | | | | | slightly | | | | | / | + | 0.4.4 | |
| 1.20- | | в | | | | | | | , medium clay poc | | and ** | drille | er notes | the | <u> </u> | 0.00 | |
| 1.20- | 1.65 | D | 1.20 (DRY) | | | s10 | | | | | | | | | - | | |
| 1.80 | | D | | | | | | | | | | | | | + - - | | |
| 2.20- 2.20- | | - В - D - | 1.50 (DRY) | | | S14 | | | | | | | | | | | |
| 3.00 | | D | | | | | | | | | | | | | | 0.00 | |
| 3.50- | 3.95 | - - D | 1.50 (DRY) | | | s11 | | | | | | | | | | | |
| 3.80- 4.00 | 4.50 | В D | | | | | silty | SAND. | e light h Gravel i t and qua | s angu | lar to | | | | 3.80 | | 10. |
| 4.50- 4.50- | 5.50 4.95 | - - B - | 4.50 (4.20) | | | C29 | 6 | | | | | | | | | • × • • • • • • • • • • • • • • • • • • | |
| 5.00 | | D | | | | | | V | | | | | | | + | ו••• | |
| | 5.95 6.50 | - - B - | 5.50 (5.10) | | | C1 | | | ered as h avelly SI | | | | | | 5.60 | | 8. |
| 5.00 | | D | | | | | weak, speck | low do | ensity, w asional s t gravel. | white wa subangu | ith oco | casiona | l black | 2 | <u> </u> | | |
| | 7.50 6.95 | В D | 6.20 (6.40) | | | S2 | | | | | | | | | | | |
| .00 | | D | | | 29 | | | | | | | | | | + | | |
| 7.50- | 7.95 | _UT26 | 7.50 (DRY) | | • | | | | | | | | | | | | |
| 7.95- | 8.10 | - D - | | | | | | | | | | | | | + | | |
| | | - - - | | | | | | | | | | | | | ‡ - - | | |
| 3.90- | 9.35 | - - _ D | 8.50 | | | S 1 | Below | 9.00m | , becomir | ng crea | n. | | | | F F | | |
| 9.00-: | 10.00 | - В | (DRY) | | | | | | | | | | | | + | | |
| 9.50 | | D | | | | | | | | | | | | | + F | | |
| | 10.45 | <u>U</u> T18 | 9.00 (8.10) | 179 | 29 | | | | | | <u> </u> | | | | <u> </u> | | - |
| oring epth | Hole Dia | | Techniqu | e | Crew | Depth of Hole | Depth | Depth to Water | Date | Time | Grour Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| L.20 D.45 | | Inspect | ion Pit Percussi | : | MR/SS MR/SS | G.L. 9.35 | 9.00 | DRY | 14/09/21 14/09/21 | 18:00 | JUNCK | Cased | | CI III VI | Jealeu | None end during b | ounter oring, |
| | | | | | | 9.35 20.45 | 9.00 20.00 | | 15/09/21 15/09/21 | | | | | | | possibly obscured added wa | by |
| emarl | KS AGS | Inspect Water w | ion pit vas adde | hand e | excavat sist b | ted to poring | 1.20m d between | epth an 3.80 | nd no ser to 9.00m. | vices v | were fo | ound. | ļ | <u> </u> | | | PS |
| nbols ar previatio | nd ons are | ** Dri] | lers de | escripti | .on. | | | | grout up | | | | | | Figu | re | DRB 1 of 3 19/11/202 |
| lained o ompany sheet. | ying | | | | | | | | | | | | | | | | کار |
| dimensi in metr | | Logged in | accordance | with BS59 | 30:2015 + | A1:2020 | | | | | | | | | 5 | | |

| BOR | REH | OLE | REC | ORL |) - | Cab | | | ssion | | | | | | | | |
|--|--------------|---------------------------|--------------------------------|-----------------|---------|-----------|--------------------|----------|----------------------|-----------------------|--------|-------|---------|-------------------|---------------------------------|--------------------|-----------------------------------|
| Project | EQUIN | IOR FEEI | D PHASE | 1 INVES | STIGAT | IONS | Enginee | er | J MURPHY | & SON | S LIMI | TED | | Boreho Project | le E No I | 8H10-29 C218256 | |
| Client | л мия | PHY & S | SONS LIN | IITED | | | Nationa Coordin | l Grid | 613118.8 316584.6 | | | | | Ground | Level 1 | .3.84 m | OD |
| Sampli | | | | Prope | rties | | Strata | | | | | | | | | Scale | 1:50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 10.45-1 | L0.60 | | | | | | | | | | | | | | | | |
| 11.00-1 11.00-1 | | - - - В - D | 9.50 | | | s7 | Below | , 11.00r | n, black | specks | absent | z. | | | + + + + + + | | |
| 11.50 | | D | (8.20) | | | | | | | | | | | | + + + + + + | | |
| 12.00-1 | L2.45 | UT21 | 12.00 (8.00) | 271 | 29 | | | | | | | | | | + + | | |
| 12.45-1 | | | | | | | | | | | | | | | + + + + + + | | |
| 13.00-1 13.00-1 | | _ В - D | 12.00 (7.90) | | | s10 | | | | $\boldsymbol{\wedge}$ | | | | | | | |
| 13.50 | | | | | | | | | Ć | | | | | | | | |
| 14.50-1 | L4.95 | _UT27 | 13.00 (7.90) | | | | | | | | | | | | + + - - - | | |
| 14.95-1 | | D | | | 31 | | | | | | | | | | + | | |
| 15.50-1 15.50-1 16.00 | | - B - D - - - | 13.00 (7.90) | | | S16 | | | | | | | | | | | |
| 16.50-1 | L6.95 | UT28 | 15.50 (7.90) | | | | | | | | | | | | + + - - - | | |
| 16.95-1 | L7.10 | - - - | | | | | | | | | | | | | + + + | | |
| 17.50-1 17.50-1 | | В D | 15.50 (7.90) | | • | S12 | | | | | | | | | | | |
| 18.00 | | D | | | | | | | | | | | | | | | |
| 18.80-1 | L9.25 | UT47 | 18.50 (7.90) | | | | | | | | | | | | + + + + + + | | |
| 19.25-1 | L9.40 | - D - - | | | 52 | | | | | | | | | | + + + + + + + | | |
| 20.00-2 | 20.45 | D | 18.50 (7.90) | | | s16 | | | | | Grou | | r | | + - | | |
| Boring Depth | Hole | | Techniqu | e | Crew | Depth | Depth | Depth to | Date | Time | Depth | Depth | Rose to | in Minc | Depth | | arks on |
| | Dia | | | | | of Hole | Cased | Water | | | Struck | Cased | | Mins | Sealed | Groui | ndwater |
| Remark Symbols an abbreviation | nd ns are | | | | | | | | | | | | | | Log Che Figi | | PS DRB 2 of 3 19/11/2021 |
| explained o accompany key sheet. All dimensio are in metro | ving | Logandia | accordance | with PSEO | 20-2045 | . 44:2020 | | | | | | | | | g | <u>aolad</u> | Miss |

| | | NOR FEED | | | | | DIE PE | | J MURPHY | & SON | S LIMI | TED | | Boreho Project | le B No ™ | H10-29 | |
|--|--|----------|--------------------------------|----------------|-----------|------------------|----------------------|----------|----------------------|-------------|-----------------|----------|---------|-------------------|-----------------|-------------------|-----------------------------------|
| Client | | | | | | | National Coordina | Grid | 613118.8 316584.6 | 37 <u>E</u> | | | | | | | |
| Client Sampl | | RPHY & S | SONS LIN | ITED Proper | ties | | Coordina Strata | ates | 316584.6 | 522 N | | | | Ground | Level 1 | 3.84 m Scale 1 | |
| Depth | | Sample | Depth Cased & (to Water) | | | SPT N | Descripti | ion | | | | | | | Depth | Legend | Level m OD |
| | | Type | | | % | | | | Er | d of B | orehold | | | | 20.45 | | -6.6 |
| Boring | | <u> </u> | | | | Progre | ess | | | | Grour | ndwate | r | | <u> </u> | | |
| Depth | Hole Dia | - | Techniqu | e | Crew | Depth of Hole | | Depth to | Date | Time | Depth Struck | | Rose to | in Mins | Depth Sealed | | rks on dwater |
| | | | | | | | Caseu | vvalei | | | STUCK | Caseu | | IVII(15 | JEAIEU | Groun | עיימולו |
| Remar Symbols a abbreviati explained accompar key sheet All dimens are in met | and ons are on the nying sions | - | accordance | e with BS59 | 30.2015 + | . 41-2020 | <u>↓</u> | | ł | | | <u> </u> | | ļ | | cked by | PS DRB 3 of 3 19/11/2021 |

BUDERUU E DECUDU Cable Percussion

| oject | EQUIN | OR FEEI | D PHASE | 1 INVE | STIGATI | ONS | Enginee | er | J MURPHY | & SON | S LIMI | TED | | Boreho Project | | H10-30 | |
|---|--------|---------------------------------|----------------------------------|--|-------------------------|--|--------------------|--------------------|--|-------------------------|--------------------|--------------------|-----------------|-------------------|----------------------------|-------------------|----------------|
| lient | JMUR | PHY & S | SONS LIM | IITED | | | Nationa Coordin | | 612960.0 | | | | | Ground | Level 10 | 0.39 m | OD |
| amplii | | | | Prope | rties | l | Strata | 1 | | | | | | | | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Lev m OD |
| 0.00- 0.10 0.20- 0.30 0.40- | 0.40 | - B - D - B - D - B | | | | | silty suban | ' sand w | rk brown vith occa o subrou | sional | rootl | ets. Gr | avel is | | G.L. 0.17 0.40 | | 10 10 9 |
| 0.40- 0.50 1.00 | 0.85 | D | | | | | rootl | ets. Gi | ly grave avel is artzite | subang | ular to | ND with o subro | rare unded f | ine | 0.85 | ∇ | 9 |
| 1.20- 1.20- | | - B - | NIL | | | C7 | occas mater | ional p ial. Gu | m slight ockets (avel is lint and | up to subang | 50mm in ular to | n size) | of org | | - | | |
| 2.00 2.20- | 2.50 | - D | | | | | pocke is su | ts (up | andy clay to 50mm ar to sub | in siz | e) of a | sandy c | lay. Gr | avel nt | 1.80 | | 8 |
| 2.20- | | | 2.10 (1.10) | | | S7 | At 1. CHALK | 20m, lo | | | | | | | 2.50 | | 7 |
| 3.00 | | - D | | | 24 | | | black s | | ik, iow | densi | cy, sub | angutar | with | - | | |
| 3.20- | 3.65 | UT13 | 3.00 (0.00) | | | | grave | lly SII | ered as w T. Grave te with | l is v | ery wea | ak to w | eak, lo | | - | | |
| 3.65- | 3.80 | - D - | | | | | | • | | | | | | | - - - - | | , , , |
| 4.30- 4.30- | | - В Д | 3.00 (DRY) | | | s9 | | | X | | | | | | - - - - - | | 1 |
| 5.00 | | - - D - | | | | | | | | ▼ | | | | | - - | | |
| 5.30- 5.30- | | в D | 5.20 (2.40) | | | S 8 | | | | | | | | | - | | , |
| 6.00 | | D | | | | X | | | | | | | | | | | |
| 6.30- | 6.75 | UT8 | 6.20 (1.50) | \langle | | | | | | | | | | | - | | 1 |
| 7.00 | | D | | | 28 | | | | | | | | | | - - - | | |
| 7.35- 7.35- | | в | 7.20 (2.00) | | • | 53 | | | | | | | | | - - - - - - | | |
| 8.30- | 8.75 | UT9 | 8.25 (1.80) | 168 | 28 | | | | | | | | | | | | |
| 8.75- | 8.90 | - D | | | | | | | | | | | | | - - - - | | |
| 9.35- 9.35- | | - - B - D - | 9.30 (2.00) | | | 53 | | | | | | | | | - | | , , , |
| 0.00 | | D | | | | Progre | | | | | Grour | ndwate | r | | 10.00 | | 0 |
| oring | Hole | | Technique | e | Crew | Depth | Depth | Depth to | Date | Time | Depth | Depth | Rose to | in Mins | Depth | | rks on |
| 1.20 6.00 0.00 | 0.20 | Inspect Cable I | cion Pit Percussi Percussi | : .on | CR/BB CR/BB CR/BB | of Hole G.L. 5.00 5.00 20.00 | | 2.40 | 14/09/21 14/09/21 15/09/21 15/09/21 | 08:00 18:00 08:00 | Struck 1.10 | Cased | | Mins 20 | Sealed 0.70 | Groun Slow inf | dwater 1ow. |
| emark | (S AGS | Inspect Water Water | cion pit was adde lers des | thand of the associated to associate the second sec | excavat | ed to a poring b | 1.20m d between | epth ar 2.40 a | nd no ser and 10.00 | vices m. | were fo | ound. | | | Cheo | cked by 1 | PS DRB |
| mbols ar breviation plained o | ns are | At 12.3 At 15.1 | 35m, UT LOm, UT | shoe da shoe da | amaged | during | | | | | | | | | Figu | re i | 1 of 2 |

BOREHOLE RECORD - Cable Percussion Project EQUINOR FEED PHASE 1 INVESTIGATIONS Borehole Project No Engineer J MURPHY & SONS LIMITED

| Project _{EQUIN} | OR FEEI | D PHASE | 1 INVES | STIGATI | IONS | Enginee | er | J MURPHY | (& SON | S LIMI | FED | | Boreho Project | No PO | H10-30 | |
|---|-------------------------------|--------------------------------|-----------------|-----------|------------------|------------------------------|------------------------------|--|------------------------------|-------------------|-------------------|---------------------|-------------------|-----------------|-------------------|-----------------------------------|
| Client _{ர MUF} Sampling | PHY & S | SONS LIN | ITED Propei | rties | | Nationa Coordin Strata | ates | 612960.0 316621.9 | 01 E 52 N | | | | Ground | Level 10 | 5.39 m Scale 1 | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 10.30-10.75 10.75-10.90 | | 10.25 (3.60) | 283 | 27 30 | | sligh weak, speck | tly gra low de s. Occa | ered as l avelly S ensity, v asional s t gravel. | LT. Gr white w subangu | avel is ith oc | s very casiona | weak to al black | 2 | 10.00 | | 0.39 |
| 11.30-12.00 11.30-11.75 11.50-12.00 | - B - D - B - | 11.25 (3.60) | | | S4 | | | | | | | | | | | |
| 12.35-12.80 | UT24 | 12.70 (3.60) | | | | damag | ed by : .50m, d | .80m, dr: flint. driller 1 | | | | _ | | | | |
| 13.40-14.00 13.40-13.85 | - B - D - D | 13.35 (3.60) | | | S 3 | | | | | | | | | | | |
| 14.20 | - D | | | | | At 14 | .40-14 | .85m, dr: | iller n | otes U | I pushi | ng flin | it | - - | | |
| 14.40-15.00 14.40-14.85 | В - UTF - 18 | 14.30 (3.60) | | | | cobbl | e**. .50m, d | driller u | | | | | | | | |
| 15.10-15.70 15.10-15.55 | - B - UTF - 17 | 15.00 (3.60) | | | | | V | | | | | | | | | |
| 16.00 16.20-16.70 16.20-16.65 | - D - B - D - D - | 16.10 (3.60) | | 28 | 59 | | | | | | | | | | | |
| 17.00 17.30-17.75 | D | 17.00 | | | | | | | | | | | | | | |
| 17.75-17.90 | - - - - - | (3.60) | | | | | | | | | | | | | | |
| 18.35-18.80 18.35-18.80 | | 17.00 (3.60) | | | S18 | | | | | | | | | | | |
| 19.20 19.40-19.85 | D | 17.00 | | | | | | | | | | | | | | |
| 19.85-20.00 | - D | (3.60) | | | | | | | | | | | | 20.00 | | -9.6 |
| Boring | | | | | Progre | | | | nd of B | | e ndwate | er | | | | 5.0 |
| Depth Hole Dia | | Technique | e | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| | | | | | | | | | | | | | | | | |
| Remarks Symbols and abbreviations are explained on the accompanying | | | | | | | | | | | | | | Cheo Figu | cked by 1 re | PS ORB 2 of 2 19/11/2021 |
| All dimensions are in metres. | Logged in | accordance | with BS59 | 30:2015 + | - A1:2020 | | | | | | | | | e | aged ² | |

| roject | EQUIN | IOR FEEI | PHASE | 1 INVE: | STIGAT: | IONS | | orehole oject No | | 10-31 218256 | |
|-----------------------|----------------------|--|--------------------------------|-----------------|---------|---------|--|---------------------|----------|-----------------|---------------|
| ient | J MUR | RPHY & S | SONS LIN | 1ITED | | | National Grid 612919.848E Coordinates 316517.318N G | round Level | l 10. | .15 m (| DD |
| Sampl | ing | | | Prope | rties | | Strata | | S | Scale 1: | 50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Description | Dep | oth | Legend | Level m OD |
| 0.10- | 0.50 | В | | | | | TOPSOIL: Dark brown slightly sandy slightly gravelly clay. Gravel is subangular to subrounde fine to coarse flint and quartzite. | + | ·L. | | 10.1 |
| 0.50- | 1.20 | B | | | | | Very soft black slightly sandy organic CLAY. | 0 | .50 | | 9.0 |
| 1.00 1.00 1.20- | 1.65 | D ES | NIL (0.90) | | | S0/450 | All SPTs between 1.20 and 4.50m, sunk under the own weight. | | Z | | |
| 2.20- | 2.65 | - - - - - - | 1.20 (1.80) | | 170 | S0/450 | | | | | |
| 3.50- | 3.95 | - - - - - - - - - - - - | 3.00 (3.30) | | 177 | S0/450 | | | 3 | | |
| 4.50- | 4.95 | | 4.50 (4.10) | | | s0/450 | | | | | |
| 5.30 5.50- | 5.50 6.50 5.95 | - B - D - B | 5.50 (3.20) | | | C35 | Dense greyish brown very sandy GRAVEL. Gravel is subangular to subrounded fine to coarse quartzit and flint. Below 5.50m, with a medium cobble content of subangular flint. | 3 - | .10 | | 5. |
| | 7.50 6.95 | - - - - - - - - | 6.50 (5.10) | | | сэ | At 6.50m, loose. | | | | |
| 7.50- | 7.95 | - - - - - | 7.50 (6.70) | | | s2 | At 7.50m, very loose. | | | | |
| 7.90- | 9.00 | - В - | | | | | CHALK recovered as white slightly sandy slightly gravelly SILT. Gravel is very weak to weak, low density, white with rare black specks. Occasiona subangular to subrounded fine to coarse flint | r | .90 2 | | 2. |
| 8.50 | | - D - | | | | | gravel. | F F | | | |
| | 9.45 | | 9.00 (3.70) | 250 | 32 | | | | | | |
| 9.45- | 9.60 | | | | 37 | | | | | | |
| oring | | <u> </u> | | | | Progre | ss Groundwater | | | | |
| | Hole | | Took | | Crow | Depth | Denth Denth to Denth Denth - | in Dept | h | Remar | ks on |
| epth | Dia | | Techniqu | | Crew | of Hole | Cased Water Date Time Struck Cased Rose to | Mins Seale | | Ground | |
| 1 20 | | Ingpact | | | MD/CC | GT. | 16/09/21 08·00 1 20 NTL 0 75 | 20 | | Inderate | |

G.L. 5.95 5.50 5.95 5.50 12.50 11.50 12.50 11.50 20.45 20.00 16/09/21 08:00 3.20 16/09/21 18:00 4.60 17/09/21 08:00 2.60 17/09/21 18:00 6.20 20/09/21 08:00 Inspection Pit 0.15 Cable Percussion Moderate inflow. Fast inflow. 1.20 20.45 1.20 8.10 NIL 8.10 0.75 3.70 20 20 MR/SS MR/SS Remarks Inspection pit hand excavated to 1.20m depth and no services were found. Between 1.20 and 5.10m, driller reports no recovery during drilling. Backfill details from base of hole: bentonite grout up to ground level. Logged by Checked by Figure PS/CR DRB 1 of 3 19/11/2021 Symbols and abbreviations are explained on the Esimbeloco

| accompanying key sheet. |
|----------------------------|
| Key Sheet. |

| Project _{EQUI} | NOR FEE | D PHASE | 1 INVE | STIGAT | IONS | Enginee | r | J MURPH | (& SON | S LIMI | red | | Boreho Project | No F | BH10-31 C218256 | |
|--|----------------|--------------------------------|-----------------|---------|------------------|--------------------|-------------------|--------------------|----------------|-----------------|----------|---|-------------------|-----------------|--------------------|-----------------------------|
| Client _{ச M} ய | RРНУ ₽ | SONS LII | MITED | | | Nationa Coordin | l Grid ates | 612919. 316517. | 348 E 318 N | | | | - | | L0.15 m | OD |
| Sampling | | | Prope | | | Strata | | 2-001/0 | | | | | 2.0414 | | Scale 1 | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descript | tion | | | | | | | Depth | Legend | Leve m OD |
| | - | | | | | | | | | | | | | - | | 4 |
| 10 50 11 50 | - | | | | | | | | | | | | | - - - | | |
| 10.50-11.50 10.50-10.95 | _ B - | 9.50 (3.80) | | | S4 | | | | | | | | | | | |
| 11.00 | - - D | | | | | | | | | | | | | - | | |
| | E | | | | | | | | | | | | | E | | |
| 11.50-11.95 | _UT13 | 11.50 (3.00) | | | | | | | | | | | | Ē | | |
| 11.95-12.10 | - - D | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | + | | |
| 12.50-14.00 12.50-12.95 | - В - D | 11.50 | | 31 | S9 | | | | | | | | | - | | |
| | | (2.60) | | | | | | | | | | | | Ē | | |
| | F | | | | | | | | | | | | | - | | |
| 13.50 | D | | | | | | | | | | | | | Ę | | |
| | E | | | | | | | | | | | | | - | | |
| 14.00-14.45 | _UT18 | | | | | | • | | | | | | | - | | |
| 14.45-14.60 | - D | | | | | | | X | | | | | | - | | |
| | Ę | | | | | | | | | | | | | - | | |
| | - | | | | | | | | | | | | | + | | |
| 15.20-15.65 15.50-16.50 | - D _ в | 15.00 (6.20) | | | S15 | | X | | | | | | | | | |
| | E | | | | | | | | | | | | | E | | |
| 16.00 | D | | | 37 | | | | | | | | | | - | | |
| 16 50 16 05 | - | 16 50 | | | | | | | | | | | | - | | |
| 16.50-16.95 | | 16.50 (6.20) | | | | | | | | | | | | Ę | | |
| 16.95-17.10 | _ D | | | | | | | | | | | | | + - | | |
| | F | | | | - | | | | | | | | | Ę | | |
| 17.70-18.15 | - - D | 17.50 | | | s14 | | | | | | | | | Ē | | |
| 18.00-19.00 | в | (6.20) | | | 514 | | | | | | | | | - | | |
| | | | | | | | | | | | | | | Ļ | | |
| 18.50 | D | | | 36 | | | | | | | | | | | | |
| 19.00-19.45 | - - | 19.00 | | | | | | | | | | | | | | |
| | - | (6.20) | | | | | | | | | | | | - | | |
| 19.45-19.60 | D | | | | | | | | | | | | | F | | |
| | F | | | | | | | | | | | | | + | | |
| 20.00-20.45 Boring | D | 20.00 (6.30) | | | s9 Progr | éss | | | | Grou | ndwate | r | | - | | - |
| Depth Hole Dia | | Techniqu | e | Crew | Depth of Hole | Depth | Depth to Water | Date | Time | Depth Struck | | | in Mins | Depth Sealed | | rks on dwater |
| | | | | | | Caseu | vvatel | | | JULK | Cased | | 111115 | Jealeu | Groun | awatel |
| | | | | | | | | | | | | | | | | |
| Remarks |] | | | ļ | 1 | ļļ | | ļ | ļ | | <u> </u> | | ļ | Log | | PS/CR |
| Symbols and abbreviations are | | | | | | | | | | | | | | Figi | ure | DRB 2 of 3 19/11/2021 |
| explained on the accompanying | | | | | | | | | | | | | | | _ | |
| key sheet. All dimensions are in metres. | Loggod in | accordance | with BS50 | 20.2015 | ⊾ ≬1·2020 | | | | | | | | | ۳ | <u>aojad</u> | <u>wwee</u> |

| | | NOR FEEL | | | | | Engineer | | J MURPHY | & SON | S LIMI | FED | | Boreho Project | le B No P | H10-31 | |
|--|--|----------------|--------------------------------|-----------------|---------|---------|----------------------|----------|----------------------|--------------|-----------------|----------|---|-------------------|--------------|---------|--------------------------------------|
| Client | л мп | RPHY & S | ONS LIN | MITED | | | National Coordina | Grid | 612919.8 316517.3 | 848E 818N | | | | Ground | Level 1 | 0.15 m | OD |
| Sampl | | | | Proper | | | Strata | | | | | | | | | Scale 1 | |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descripti | ion | | | | | | | Depth | Legend | Level m OD |
| | | | | | | | | | Er | d of B | orehole | | | | | | -10.3 |
| Boring | | _ | | | | Progre | | | | | Grour | ndwate | r | | <u> </u> | | |
| Depth | Hole | | Techniqu | e | Crew | Depth | Depth D | Depth to | Date | Time | Depth Struck | | | in Mins | Depth | | rks on |
| | Dia | | | | | of Hole | Caseo | vvater | | | STRUCK | Cased | | Mins | Sealed | Groun | dwater |
| Remar Symbols a abbreviati explained accompar key sheet All dimens are in met | and ons are on the nying sions | _ | accordance | e with BS59 | 20.2015 | 1 | <u>.</u> | | + | <u> </u> | I | <u> </u> | + | <u> </u> | | cked by | PS/CR DRB 3 of 3 19/11/2021 |

| oject E | EQUIN | IOR FEEI | D PHASE | 1 INVE | STIGATI | LONS | Enginee | ſ | J MURPHY | & SON | S LIMI | TED | | Boreho Project | | 3H10-32 2218256 | |
|---|-----------------|-------------------------------|----------------------------------|--------------------------------|------------------------------|------------------------------|---------------------------------|------------------------------|---|------------------|-------------------|--------------------|----------|-------------------|-----------------------|--|--|
| lient J ampling | | PHY & S | SONS LIN | | rtica | | National Coordina Strata | ates | 612731.1 316537.1 | | | | | Ground | Level 1 | Lo.89 m Scale 1 | OD |
| | y | Sample | Depth Cased & | Prope Strength | | SPT N | | | | | | | | | D | | :50 Lev |
| epth | | Туре | (to Water) | 0 | % | | Descript | lion | | | | | | | Depth | Legend | m OE |
| 0.00- 0 0.20 0.30- 0 | | B D B | | | | | occas | ional r | own sligh cootlets. Eine to c | Grave | liss | ubangul | lar to | . , | 0.30 | | 10 |
|).40).70- 1 | L.20 | _ D В | | | | | of sul | bangula | gravelly ar of fli fine to c | nt. Gr | avel i | s subar | ngular t | :0 | 0.70 |) | 10 |
| 00 20- 1 20- 1 | | D | 1.20 (DRY) | | | C18 | to sul Below | brounde 1.20m, | very san ed fine t , medium avelly. | o coar | se fli | nt and | quartzi | | | | |
| .00 | | D | | | | | | | | | | | | | | | |
| 2.30- 2 2.30- 2 | | В | 2.25 (1.00) | | | C15 | | gular t | e brown v co subrou | | | | | | 2.30 | | 8 |
| .00 | | D В | 2.05 | | | C18 | Grave | l is su | e greyish ıbangular ıartzite. | to su | | | | arse | - 3.00 | | 7 |
| .30- 3 | 5.75 | - - - - D | 3.25 (1.50) | | | CT8 | Below | 4.00m | , becomin | g yell | owish 1 | brown. | | | | · · · · · · · · · · · · · · · · · · · | |
| .35- 4 .35- 4 | | - - - - | 4.30 (2.00) | | | C23 | | | X | | | | | | | | |
| .00 | | D | | | | | | | | • | | | | | É E | | |
| .30- 5 .30- 5 | | _ В | 5.25 (2.00) | | | C32 | | | | | | | | | | | |
| .00 | | D | | | | | | | | | | | | | | × 0 · · · · | |
| .30- 6 .30- 6 | | В | 6.25 (2.00) | K | | C23 | sandy subang | GRAVEI gular f | e brown a L with a Elint. Gr Eine to c | high c avel i | obble s suba: | content ngular | to to | | 6.30 | | 4 |
| .00 | | D | | | 27 | | CHALK | recove lly SII | ered as c LT. Grave | ream s l is v | lightl; ery we | y sandy ak to v | / slight | / | | | |
| .40- 7 .40- 7 | | B D D | 7.35 (3.60) | | | S5 | | | | | | | | | + - - - | | |
| .45- 8 | 3.90 | - | 8.40 (2.50) | 34 | 27 | | | | | | | | | | + + + + + | | |
| .90- 9 | 9.05 | D | | | | | | | | | | | | | | | |
| .45-10 .45- 9 | | - B - D - | 9.40 (3.50) | | | S6 | | | | | | | | | | | |
| oring | | | | | [| Progre | | | | | Groui | ndwate | er | | | | |
| | Hole Dia | | Technique | 9 | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | | | in Mins | Depth Sealed | | irks on idwater |
| 20 00 0 | | | tion Pit Percussi | | CR/BB CR/BB | G.L. 12.00 | 11.50 | 1.60 | 16/09/21 16/09/21 | | | | | | | None end during h possibly obscured added wa | ooring 7 1 by |
| marks | l s are | Inspect Water v Backfil | tion pit was adde ll detai | t hand o d to as ls from | excavat ssist 1 m base | ced to poring i of hol | 1.20m de between e: bento | epth ar 1.20 a onite g | nd no ser and 4.00m grout up | vices to gro | were fo | ound. vel. | | <u> </u> | Log Cho Fig | ecked by ure | PS DRB 1 of 1 19/11/20 |
| reviations lained on ompanyin sheet. dimension in metres | the ng ns | | accordance | | | | | | | | | | | | ſ | elet | |

| BOI | REH | OLE | REC | ORE |) – | Cab | le Pe | ercus | sion | | | | | | | | |
|--|--------------------|----------------|---|-----------------|----------------------------|------------------|--------------------|-------------------|----------------------|--------------|-----------------|----------------|---------|--------------------------|-----------------|---------|-----------------------------|
| Project | | | D PHASE | | | | Enginee | | J MURPHY | & SON | S LIMII | ED | | Boreho Project | le B No po | H10-32 | |
| Client | .т мпт | RDHY & S | SONS LIM | 17780 | | | Nationa Coordin | l Grid | 612731.1 316537.1 | 09 E 55 N | | | | | | 0.89 m | OD |
| Samp | | | | Proper | | | Strata | | 02000712 | | | | | oround | | Scale 1 | |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| Depth 10.20 10.50- 11.55- | -11.10 | D | Casèd & (to Water) 10.45 (2.00) 11.50 (1.60) | 181 | ^w % 29 33 | SPIN S3 | Descrip | | En | d of B | orehole | 2 | | | Depth | | -1.11 |
| | | - - - | | | | | | | | | | | | | ₽ ₽ ₽ | | |
| Boring | | ļ | <u> </u> | | | Progre | | | | | | dwate | r | 2 | De='' | | |
| Depth | Hole Dia | | Technique | e | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| | | | | | | | | | | | | | | | | | |
| Remai | ks 🚜 | | | | | 1 | <u> </u> | | | | | | ļ | | Logo | | PS |
| Symbols abbreviati explained | ions are | | | | | | | | | | | | | | Cheo Figu | re | DRB 2 of 2 19/11/2021 |
| accompar key sheet All diment are in me | nying sions | Logged in | accordance | with BS59 | 30:2015 + | - A1:2020 | | | | | | | | | ſ | aoleef | |

Engineer

Project EQUINOR FEED PHASE 1 INVESTIGATIONS

J MURPHY & SONS LIMITED

Borehole Project No BH11-33 PC218256

| Client | J MUR | PHY & S | SONS LIN | IITED | | | Nationa Coordir | | 611860.7 315954.2 | | | | | Ground | Level 41 | 66 m | OD |
|--|----------------|---------------------------|--------------------------------|--------------------|-----------------|-------------------------------|--------------------|-------------------------------|--|--------------------|------------------|--------------------|-------------------|------------|------------------|---|-----------------------------|
| Sampl | ing | | Looth | Prope | | | Strata | 3 | | | | | | | | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 0.20 | 0.40 | - B D | | | | | subar | DIL: Bro ngular (zite. | own sligh to subrou | ntly gr unded f | avelly ine to | sand. coarse | Gravel flint | is and | G.L. | | 41.66 41.26 |
| 0.50 | 1.00 | - B - D - | | | | | Grave | el is su | orangish ubangulan uartzite. | to su | | | | | - - - - | D | |
| 1.10 | 1.65 | — D В | | | | | Below | v 1.20, | medium d | lense. | | | | | <u> </u> | | |
| | 1.65 | | NIL (DRY) | | | C15 | | | | | | | | | + - - - | 0 | |
| 2.00 | | D | | | | | | | e dark or | | | | | | 1.80 | · · · · · | 39.86 |
| | 2.50 2.65 | в | 2.15 (1.00) | | | C37 | flint coars | Grave se flint | | gular t | o subai | ngular | fine to | | 2.50 | | 39.16 |
| 2.80 | | D | | | | | | | sh brown . Gravel | | | | | | Ę | 0.0 | |
| | | F | | | | | | | | | | | | | - | 0 | |
| | 3.65 3.65 | - В | 3.15 (2.50) | | | s25 | | | | | | | | | - | | |
| 4.00 | | - - D | | | | | | | | | | | | | | | |
| | 4.75 | в | 4.25 | | | S31 | | | X | - | | | | | 4.50 | 0 | 37.16 |
| 4.30- | 4.75 | | 4.25 | | | 531 | Dense SAND. | a light Grave | brown sl is angu | ightly lar to | grave subro | lly sli unded f | ghtly s ine to | ilty | 4.50 | • × • • • | 37.16 |
| 5.00 | | D | | | | | | se flint | | • | | | | | | □ × · · · · · · · · · · · · · · · · · · | |
| | 5.85 5.85 | B D | 5.35 (4.00) | | | 527 | | | | | | | | | - | ° × · · · | |
| 6.00 | | D | | | | \mathbf{N} | | | | | | | | | <u>+</u> | • X | |
| | 6.85 6.85 | - - - B - D - | 6.20 (5.00) | \langle | | s32 | | | | | | | | | | × × × | |
| 7.10 | | D | | | | | | | | | | | | | | × | |
| | 8.00 7.85 | - B - D - | 7.40 (6.00) | | | S37/ 245 | | | | | | | | | | × · · · · | |
| 8.20 | | - D | | | | | | | | | | | | | F | 0 · × | |
| 8.55- | 9.00 | - | | | | | | | | | | | | | E | × • • • • • | |
| | 9.00 | - D | 8.50 (7.50) | | | S49 | | | | | | | | | E | | |
| 9.20 | | - - - D | | | | | | | | | | | | | | × • • • | |
| | | E | | | | | | | | | | | | | ŧ | 0 | |
| | 10.00 | - B - D | 9.30 (8.60) | | | s30 | | | | | | | | | | × •• | |
| Boring | | | | | | Progre | ess | | | | Grour | ndwate | r | | _ | | |
| Depth | Hole Dia | | Technique | 9 | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | | Rose to | in Mins | Depth Sealed | | rks on dwater |
| 1.20 12.00 | 0.15 | | cion Pit Percussi | | CR/BB | G.L. 1.20 1.20 12.00 | | | 17/09/21 17/09/21 20/09/21 20/09/21 | 18:00 08:00 | | | | | | None end during h | countered |
| Der | | Increation | 100 | han- | waa | | | lonth - | | | | Jund | | | | | |
| Remar | | Mater w Backfil | vas adde ll detai | d to as ls from | ssist h base | of hold | betweer : bent | conite | nd no ser and 12.00 grout up |)m. to gro | were fo | vel. | | | Chec | ked by | PS/CR DRB |
| Symbols a abbreviation explained | and ons are | | | | | | | | - | | | | | | Figur | | 1 of 2 19/11/2021 |
| accompan key sheet. | iying | | | | | | | | | | | | | | ے ا | <u>p</u> Def | miss |
| All dimens are in met | | Logged in | accordance | with BS59 | 30:2015 + | - A1:2020 | | | | | | | | | U- | - - | |

| BOREH | OLE | REC | ORL |) – | Cab | ole Pe | ercus | sion | | | | | | | | |
|--|----------------|--------------------------------|-----------------|-----------|------------------|--------------------|-------------------|-------------------|--------------|-----------------|----------------|--------------|--------------------------|--------------------|---------------------------------------|-----------------------------|
| Project EQUI | | | | | | Enginee | | J MURPHY | & SON | S LIMI | ED | | Boreho Project | le B No Po | H11-33 | |
| Client _{ச M} ர | RPHY & S | SONS LIM | AITED | | | Nationa Coordin | l Grid ates | 611860.7 | 44 E 91 N | | | | Ground | Level 4: | L.66 M | OD |
| Sampling | | | Prope | | | Strata | | | | | | | | | Scale 1 | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 10.20 | - - - D | | | | | | | | | | | | | <u>↓</u> - - | • × • • • • | |
| 10.55-11.00 10.55-11.00 | - B - D | 10.50 (10.00) | | | S41 | | | | | | | | | | × | |
| 11.20 | - - - D | | | | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| 11.55-12.00 | - D | 11.50 (11.00) | | | S46 | | | | | | | | | | 0 × 4 | |
| | | | | | | | | En | d of B | orehole | 9 | | | _ 12.00 | <u></u> | 29.66 |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | <u>-</u> - | | |
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| | | | | \bigvee | | | | | | | | | | <u>-</u> - | | |
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| | | | | | | | | | | | | | | F F | | |
| | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |
| Boring | F | | | | Droor | 255 | | | | Group | dwate | r | | F | | |
| Boring Depth Hole Dia | | Technique | e | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | Depth Cased | r Rose to | in Mins | Depth Sealed | Rema Groun | rks on dwater |
| | | | | | | | | | | | | | | | | |
| Remarks | | | | | | | | | | | | | | Logo | | PS/CR |
| Symbols and abbreviations are explained on the | | | | | | | | | | | | | | Figu | re : | DRB 2 of 2 19/11/2021 |
| accompanying key sheet. All dimensions are in metres. | Logged in | accordance | with BS59 | 30:2015 + | - A1:2020 | | | | | | | | | 0 | Decen | |

Project EQUINOR FEED PHASE 1 INVESTIGATIONS

Engineer J MURPHY & SONS LIMITED Borehole Project No

BH11-34 PC218256

| Client | | PHY & S | SONS LIM | IITED | | | Nationa Coordir | nates | 611818.2 315804.1 | | | | | Ground | Level 41 | | OD |
|--|--------------------------|-------------------|-----------------------|-----------------|----------------|-------------------------------|--------------------|------------------------------|--|------------------|-------------------|--------------------|------------------|------------|------------------|---------------------------------------|-----------------------------|
| Sampl | ing | | | Prope | | | Strata | 3 | | | | | | | | Scale 1 | :50 |
| Depth | | Sample Type | Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 0.20 | - 0.40 - 1.00 | - B - D - B | | | | | sand | with a | rk brown medium o ngular fi | obble | content | t of an | gular f | | G.L. | 5 | 41.08 40.68 |
| 0.80 | 1.00 | | | | | | Dark angul | orangis Lar to s | sh brown subrounde | gravel d fine | ly SANI to coa | D. Grav arse fl | el is int. | | F F | 0 | |
| 1 00 | | | | | | | At 1. | .20m, de | ense. | | | | | | | ····· | |
| | - 2.20 - 1.65 | | 1.20 (DRY) | | | S36 | | | | | | | | | - - - - | | |
| 2.00 | | D | | | | | Mediu | um dense | e dark or | angish | brown | sandy | GRAVEL | with | 2.00 | | 39.08 |
| 2.20- | - 2.65 | - - - - | 1.80 (2.00) | | | C16 | a hig flint | gh cobbl | le conter el is ang | nt of a | ngular | to sub | angular | : | | | |
| 3.00- | - 3.50 | в | | | | | | | | | | | | | 3.00 | · · · · · · · · · · · · · · · · · · · | 38.08 |
| 3.00 | | - D | | | | | with | a low o | sh brown | ntent | of suba | angular | flint | and | | | |
| 3.50- | 3.95 | D | 3.20 (DRY) | | | S36 | clay. | Gravel Gravel Se flint | ockets (is angu | up to lar to | subang | n size) gular f | of sar ine to | ay | | | |
| | 4.50 | в | ,, | | | | | | | | | | | | 3.80 | · · · · · · · · · · · · · · · · · · · | 37.28 |
| 4.00 | - 5.50 | D | | | | | SAND | with ra | brown sl are shell ngular to | . fragm | ents (1 | up to 2 | mm in s | size). | | 0 · × | |
| | - 4.95 | - D | 4.50 (4.20) | | | S41 | | | | | | | | | - - - | • × • • • | |
| 5.00 | | D | | | | | | V | | • | | | | | | × * | |
| | 6.50 5.95 | - B - D | 5.50 (5.20) | | | S38 | | | | | | | | | - | × * | |
| 6.00 | | _ D | | | | X | | | | | | | | | | ° .* | |
| 6 50 | | - | | | | | | | | | | | | | - | × | |
| | 7.50 6.95 | B D | 6.20 (6.30) | | | S26 | | | | | | | | | - | °.× ° | |
| 7.00 | | - - - | | | | | | | | | | | | | - | × • • | |
| | 8.50 7.95 | B D | 7.50 (7.10) | | Ť | s34 | | | | | | | | | | | |
| 8.00 | | D | | | | | | | | | | | | | | 0 .× | |
| 8 50 | 9.50 | в | | | | | | | | | | | | | Ę | × | |
| | 8.95 | B D | 8.50 (DRY) | | | s33 | | | | | | | | | Ę | 0 .× | |
| 9.00 | | D | | | | | | | | | | | | | | × | |
| | | F | | | | | | | | | | | | | Ę | ° | |
| | 10.50 9.95 | B D | 9.50 | | | s38 | | | | | | | | | Ę | × | |
| 10.00 | | - - _ D | (DRY) | | | | | | | | | | | | E | • × • | |
| Boring | | | | | | Progre | ess | | | | Grour | ndwate | r | | – | |] |
| Depth | Hole Dia | | Technique | е | Crew | Depth of Hole | Depth | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| 1.20 18.45 | 0.15 | | tion Pit Percussi | | MR/SS MR/SS | G.L. 1.20 1.20 18.45 | | DRY | 20/09/21 20/09/21 21/09/21 21/09/21 | 18:00 08:00 | | 12.00 | 11.00 | 20 | 15.00 | Slow inf | low. |
| Remai | ks 🗛 | Water w | was adde | d to a | ssist h | ooring | betweer | 1 1.20 a | and 15.00 nd no ser |)m. | were f | bund | ļ | ļ | | | PS |
| Symbols a abbreviati explained accompar | and ons are on the | Backfil | ll detai | ls fro | m base | of hol | e: bent | conite g | grout up | to gro | und lev | vel. | | | Figur | re | DRB 1 of 2 19/11/2021 |
| key sheet All dimens | sions | | | | | | | | | | | | | | e | oleeļ | |
| are in me | | Logged in | accordance | with BS59 | 930:2015 + | A1:2020 | | | | | | | | | | | |

| Project _{EQU} | INOR FEE | D PHASE | 1 INVE | STIGAT | IONS | Engine | er | J MURPHY | & SON | IS LIMI | FED | | Boreho Project | No I | BH11-34 PC218256 | |
|--|----------------------|--------------------------------|-----------------|----------|------------------|-------------------------|-------------------|-------------------------------|-----------------|-------------------|--------------------|--------------------|-------------------|-----------------|---|-----------------------------|
| Client , , , , | URPHY & | SONG TTN | רשידי | | | Nationa Coordir | | 611818.2 315804.1 | | | | | - | | | OD |
| Sampling | ORPHI & | SONS TIL | Prope | rties | | Strata | | 313004.1 | 2211 | | | | Ground | Level | Scale | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 10.50-11.5 10.50-10.9 11.00 | | 10.50 (10.10) | | | s13 | Below | v 10.50m | 1, medium | dense | 2. | | | | | • × • • • • • • • • • • • • • • • • • • | V / / / / / / / |
| 11.50-12.5 11.50-11.9 12.00 12.00-12.1 | 5 - D - - D | 11.50 (11.10) | | | S18 | | | | | | | | | | × | |
| 12.50-13.5 12.50-12.9 13.00 | | 12.50 (11.10) | | | S2 | At 12 | 2.50m, v | very loos | e. | | | | | | | |
| 13.50-14.5 13.50-13.9 14.00 | | 13.50 (11.20) | | | 58 | At 13 | 3.50m, 1 | .005e. | | | | | | | | |
| 14.50-14.9 | 5 D | 14.50 (11.20) | | | S16 | | | | | | | | | 14.9 | • × • • | 26.18 |
| 15.00-16.0 | 0 _ в | | | | | Stiff Grave flint | el is ar | brown sl ngular to | ightly suban | grave: gular i | lly san Eine to | ndy CLAN coarse | 7. e | | | 20.10 |
| 15.50 16.00 | D | 15.00 (DRY) | 158 | 14 15 | | 2 | | | | | | | | | | |
| 16.45-16.6 | - | | \langle | | | CLAY. | . Gravel | greyish is suba and cha | ngular | | | | | 16.4 | | 24.68 |
| 17.00-17.4 17.50 | | 15.00 (DRY) | | 18 | S29 | | | | | | | | | | | |
| 18.00-18.4 | 5 D | 15.00 (DRY) | | | S35 | Below | v 18.00m | n, become | s very | stiff | • | | | | 5 | |
| | | | | | | | | En | d of E | Sorehol | 2 | | | - 18.4 | 5 | - 22.63 |
| Boring | | | | | Progre | ess | | | | Grour | ndwate | ۶r | | - | | |
| Depth Dia | | Technique | 5 | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | arks on ndwater |
| Remarks | GS | | | | | | | | | | | | | | gged by | PS |
| Symbols and abbreviations are explained on the accompanying key sheet. All dimensions | | | | | | | | | | | | | | Fig | | DRB 2 of 2 19/11/2021 |

| roject | EQUIN | IOR FEED | PHASE | 1 INVE | STIGATI | IONS | Engine | | J MURPHY | & SON | S LIMIT | ED | | Boreho Project | | H11-35 | |
|---|---------------------------------|------------------------|------------------|-------------------|--------------------|-------------------|--|--------------------------------|---|-----------------|--------------------|------------------|-------------------|--------------------------------|---------------|---------------------------------------|-----------|
| lient Sampli | | PHY & S | ONS LIN | ITED Prope | rtios | | Nationa Coordin | nates | 611595.2 315668.5 | | | | | Ground | Level 4 | 5.46 m Scale 1 | |
| Depth | iig | Sample Type | Depth Cased & | Strength | | SPT N | Descrip | | | | | | | | Depth | Legend | Leve |
| | | _ | (to Water) | кга | 76 | | | | | | | | | | G.L. | | 45.4 |
| 0.10- | | - B - - D - B | | | | | with | a low o el is su | rk brown cobble co ubangular | ntent | of suba | ngular | flint. | | - 0.60 | | |
| 0.60- | 1.20 | р | | | | | low c | obble o | own grave content o e to coar | f angu | lar fli | clayey nt. Gr | SAND wavel is | vith a | | 0 | 44.8 |
| 1.20- 1.20- | | В | 1.20 (DRY) | | | S17 | Grave | um dense el is su and cl | e orangis ubangular nalk. | h brow to su | n grave brounde | lly cl d fine | ayey SA to med | ND. lium | 1.20 | | 44. |
| 1.80 | | D | | | | | | | | | | | | | | 0.00.00 | • |
| 2.50- 2.50- | | - B - D | 1.80 (DRY) | | | S4 | Very | loose t | to loose | light | orangis | h brow | m sligh | tly | 2.60 | • • • • • • • • | 42. |
| 3.00 | | D | | | | | | | ightly si Eine to c | | | vel is | angula | r to | | 0 × * | 4 4 |
| 3.50- | 3.95 | D | 3.50 (DRY) | | | s3 | | | | | | | | | | | • |
| 4.00 | | D | | | | | Betwe | en 4.0 | 0-4.50m, | becomi | ng grav | elly. | | | <u>+</u> - | • × • | |
| 4.50- 4.50- | | B D | 1.80 (DRY) | | | S3 | | | | | | | | | ‡ - - | • × • • | |
| 5.00 | | D | | | | | | | | | | | | | - - - | × * | • |
| 5.50- | 5.95 | D | 3.00 (DRY) | | | S4 | | | | | | | | | | ° × * | |
| 6.00 | | | | | | X | | | | | | | | | | 0 × 0 0 × 4 • × • | • |
| 6.50- | | D | 3.00 (DRY) | \mathbb{N} | | S8 | | | , loose. | | | | | | 6.80 | 0 × 0 | 38. |
| 7.00 | | D | | | | -10 | fine chalk | to coan | brown sl rse suban | gular | to subr | | | | | 0 4 . | • |
| 7.50- | | D B | 7.50 (DRY) | | | S10 | | | , medium | | | 11 | icht l | ailt | 7.80 | | 37. |
| 8.50 | | - - - - - | | | | | SAND Grave | with a | e orangis low cobb ngular to nalk. | le con | tent of | suban | gular f | lint. | | 0 × 0 | • |
| 9.00- | 9.45 | - - - D | 9.00 | | | S15 | | | | | | | | | | | • |
| 9.40-2 | 10.30 | - - | (DRY) | | | | | | e orangis | | | | | | 9.40 | | 36. |
| 10.00 | | - - - - D | | | | | | | content subrounde | | | | | .8 | <u>_</u> | · · · · · · · · · · · · · · · · · · · | - - |
| Boring | | | | | | Progre | | | | | Groun | | r | | | | |
| Depth | Hole Dia | Technique Crew | | | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | Remai | dwater | | |
| 1.20 2.25 | 0.15 | | | | | G.L. 12.25 | 5 11.80 DRY 22/09/21 08:00 22/09/21 18:00 | | | | | | | None encounte during boring | | | |
| emarl | ks Ags | Water w Inspect | as adde | ed to a hand o | ssist k excavat | ooring ted to | betweer 1.20m c | 1.20 a lepth a | and 11.80 nd no ser | m. vices | were fo | und. | | | | | CR DRB |
| mbols ar breviatio plained o company | nd ons are on the ying | Backfil | .ı detai | .15 fro | m base | or hol | e: bent | onite o | grout up | to gro | ound lev | eı. | | | Figu | | 9/11/202 |
| / sheet. dimensi e in metr | ions | Logged in a | accordance | with BS59 | 30:2015 + | A1:2020 | | | | | | | | | e | aladi | MIG V |

| Project | EQUIN | IOR FEEI | D PHASE | 1 INVE | STIGAT | IONS | Enginee | r | J MURPHY | & SON | S LIMI | red | | Boreho Project | No ₽ | H11-35 | |
|--|--------------------------|------------------|--------------------------------|-----------------|-----------|-----------------|----------------------|------------------|-----------------------|------------------|-------------------|-------------------|--------------------|-------------------|------------|---|-----------------------------|
| Client | J MUF | PHY & S | SONS LIN | 1ITED | | | National Coordina | l Grid ates | 611595.2 315668.5 | 15 E 39 N | | | | | Level 4 | | OD |
| Sampl | ing | | | Prope | | | Strata | | | | | | | | | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descript | tion | | | | | | | Depth | Legend | Level m OD |
| 10.30- | 10.75 | | 10.00 (9.00) | | | C10 | | | | | | | | | | | |
| 11.10- | 11.80 | В | | | | | Mediu | m dense SAND. | e dark br Gravel i | own sl s angu | ightly lar fir | gravel ne to c | ly slig oarse f | htly lint. | - 11.10 | • • • • • • • • • • • • • • • • • • • | 34.36 |
| 11.50 11.80- | 12.25 | _ D | 11.80 | | | s12 | | | | | | | | | | × · · · · · · · · · · · · · · · · · · · | |
| | | | (DRY) | | | | | | En | d of B | orehole | 3 | | | 12.25 | 0 | 33.21 |
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| | | <u>-</u> | | | | | | | | | | | | | F | | |
| Boring | Hole | : | Tocheler | • | Crow | Progre Depth | Depth I | Depth to | Data | Time | Depth | Depth Cased | r Rose to | in | Depth | Rema | |
| Depth | Dia | | Techniqu | 6 | Crew | of Hole | Cased | Water | Date | Time | Struck | Cased | 1030 10 | Mins | Sealed | Ground | dwater |
| Remar | ks 🔜 | | | | | | | | | | | | | | Loa | | CR |
| Symbols a abbreviati explained accompar | and ons are on the | | | | | | | | | | | | | | Figu | ire : | DRB 2 of 2 19/11/2021 |
| All dimens are in met | sions | Logged in | accordance | with BS59 | 30:2015 + | + A1:2020 | | | | | | | | | Ø | | |

Engineer

Project EQUINOR FEED PHASE 1 INVESTIGATIONS

J MURPHY & SONS LIMITED

II & SONS LIMITED

Borehole Project No BH12-36 PC218256

Client J MURPHY & SONS LIMITED

| Image: Toppe (to Water) KPa 70 Image: Toppe (to Water) KPa 70 Image: Toppe (to Water) Image: Toppe (to Water)< | epth G.L. | Legend | | | | | | | | |
|--|--------------|---------------------------------------|--|--|--|--|--|--|--|--|
| 0.00-0.30 B TOPSOIL: Brown slightly gravelly slightly silty 0.20 D SAND with a low cobble content of angular flint and 0.30-0.80 B many rootlets. Gravel is fine to coarse subangular / 0 | | 1728772 | | | | | | | | |
| | 0.30 0.60 | | | | | | | | | |
| 1.00 D Gravel is fine to coarse angular to subangular flint. | 0.80 | | | | | | | | | |
| 1.20- 2.00 B 1.20- 1.65 UT15 NIL 96 15 UT15 URY 15 Light brown mottled orangish brown slightly gravelly very clayey SAND. Gravel is fine to coarse angular flint. | | | | | | | | | | |
| Firm orangish brown slightly gravelly sandy CLAY with a high cobble content of angular flint. Gravel is fine to coarse subangular to subrounded flint. | 2.20 | | | | | | | | | |
| | 2.40 | | | | | | | | | |
| 3.10 D 3.20-4.00 B 3.20-3.62 3.15 (2.00) C50/265 | 3.30 | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| Very dense light brown very gravelly silty SAND with a low cobble content of subrounded flint. Gravel is fine to medium subangular to subrounded flint. | | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| 4.40-5.00 B 4.40-4.85 4.35 C50/ C50/ cobble content of angular flint. Gravel is fine to (3.50) 296 coarse angular to subangular flint. | 4.40 | | | | | | | | | |
| 5.20 D | | | | | | | | | | |
| 5.30-5.80 5.30-5.75 (3.40) | | | | | | | | | | |
| 6.00 D 6.20 D Medium dense orangish brown gravelly slightly silty 6 | 6.20 | • • • • • • • • • • • • • • • • • • • | | | | | | | | |
| 6.40- 7.00 B 6.40- 6.85 D 6.20 SI7 SAND. Gravel is angular to subangular fine to coarse flint. **Between 6.20-6.40m, driller notes clay band. Below 6.40m, becoming slightly gravelly. | | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| 7.20 D B B B 7.50-7.95 B C44 Below 7.50m, dense. | | | | | | | | | | |
| 8.20 D | | × · · · · | | | | | | | | |
| 8.55-9.00 8.55-9.00 (6.50) B C46 | | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| 9.20 D Between 9.20-10.20m, with a low cobble content of angular flint. | | | | | | | | | | |
| 9.55-10.00 9.55-10.00 (8.00) B (8.00) C49 | | | | | | | | | | |
| Boring Progress Groundwater | | | | | | | | | | |
| Depth Hole Technique Crew Depth Depth Depth Depth Depth Depth Depth Cased Water Date Time Depth Depth Depth Depth Depth Depth Struck Cased Mins Seale | | Remarks on Groundwater | | | | | | | | |
| 1.20 Inspection Pit CR/BB G.L. 21/09/21 08:00 2.00 0.20 Cable Percussion CR/BB 9.00 8.00 6.55 21/09/21 18:00 11.50 0.15 Cable Percussion CR/BB 9.00 8.00 22/09/21 18:00 11.50 0.15 Cable Percussion CR/BB 9.00 11.50 22/09/21 18:00 | | None encountered during boring. | | | | | | | | |
| Remarks Water was added to assist boring between 2.40 and 12.00m ** Drillers description. Inspection pit hand excavated to 1.20m depth and no services were found. Logged by CR Checked by DRB | | | | | | | | | | |
| Symbols and abbreviations are explained on the accompanying | Figur | 19/11/2021 | | | | | | | | |
| key sheet. All dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020 | تلع | | | | | | | | | |

Engineer

Project EQUINOR FEED PHASE 1 INVESTIGATIONS

J MURPHY & SONS LIMITED

SONS LIMITED

Borehole Project No BH12-36 PC218256

Client J MURPHY & SONS LIMITED

| Sampling | | | Prope | | | Strata | | | | | | | | | Scale 1:50 |
|--|------------------|--------------------------------|-----------------|-----------|------------------|----------------|-------------------|--------------|--------|-----------------|----------------|---------|------------|-----------------|--------------------------------|
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend |
| 10.20 | - - - - | | | | | | | | | | | | | | |
| 10.55-11.00 10.55-11.00 | | 10.50 (9.00) | | | C36 | | | | | | | | | - - | р. ж. |
| 11.20 | D | | | | | | | | | | | | | F | × |
| 11.50-11.95 | - | 11.50 (10.00) | | | C48 | | | | | | | | | - | |
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| | - | | | | | | | En | d of B | orehole | • | | | 12.00 | <u></u> |
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| Boring | ļ | | | | Progre | ess | | | | Groun | dwate | r | | [| |
| Depth Hole Dia | | Technique | Э | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | Remarks on Groundwater |
| | | | | | | | | | | | | | - | | |
| | | | | | | | | | | | | | | | |
| Dom | | | | | | | | | | | | | | | |
| Remarks 🔜 | | | | | | | | | | | | | | Logg | Jed by CR Cked by DRB |
| Symbols and abbreviations are | | | | | | | | | | | | | | Figu | re 2 of 2 19/11/2021 |
| explained on the accompanying key sheet. | | | | | | | | | | | | | | | |
| All dimensions | Lagrant | | with DOFT | 20.001- | 44.0000 | | | | | | | | | ٤ | |
| are in metres. | Logged in | accordance | with BS59 | JU:2015 + | A1:2020 | | | | | | | | | | |

| lient | _ | | | | | | Nationa | | | | | | | . | 1 | | |
|--|-------|--------------------|---------------------------------|----------|-------------------------|------------------------|-------------------|--------------------|------------------------------------|--------|--------------------|-----------------|---------|------------|-------------|---------------------------------------|-------------|
| Samplin | | PHY & S | SONS LIM | ITED | rties | | Coordin Strata | | 314416.9 | N | | | | Found | Level 4 | 4.45 m Scale 1: | |
| Depth | .9 | Sample | Caseu a | Strength | W | SPT N | Descrip | | | | | | | | Depth | Legend | Leve |
| | | Туре | (to Water) | kPa | % | | | | | | | | | | G.L. | | m OD |
| 0.00- (0.20 0.35- (| | - B - D - B | | | | | silty | ' sand w | rk brown with a lo any rootl | w cobb | le cont | tent of | angula | r | 0.35 | | 44. |
| 0.50- 1 | | | | | | | subro | unded i | Eine to c | oarse | flint a | and qua | rtzite. | / | 0.50 | • × · · · · · | 43. |
| | - | | | | | | high | cobble | own grave content rounded f | of ang | ular fi | lint. G | ravel i | | Ę | × | • |
| 1.20 | - | - - D | | | | | | unded i | | ine co | coarse | e angui | ai | | F | | |
| 1.25- 1 1.25- 1 | | В | 1.20 | | | C31 | with | a high | own very cobble c | ontent | of any | gular f | lint. G | L ravel | Ę | × · · · | |
| | - | - | (DRY) | | | | | gular t 20m, de | to subang ense. | ular f | ine to | coarse | flint. | | Ē | · · · · × . | |
| 2.00 | - | D | | | | | | | | | | | | | F | × | |
| 2.25- 2 | | в | 2.20 | | | C23 | Below | 2.25m | , medium | dense. | | | | | F | , , , , , , , , , , , , , , , , , , , | |
| | - | - | (1.50) | | | | | | | | | | | | F | × · · · | |
| 3 00 | - | | | | | | | | | | | | | | Ę | | 1 |
| 3.00 | | D | | | | | | | | | | | | | Ē | | 1 |
| 3.30- 3 3.30- 3 | | В | 3.25 | | | C23 | | | | | | | | | ŧ | × · · · | J |
| | - | - | (2.50) | | | | | | | | | | | | ŧ | ×. | |
| 4.00 | - | D | | | | | | | | | | ▼ | | | <u>F</u> | × . | 1 |
| 4.35- 4 | | - | 4.30 | | | C33 | | | V | - | | | | | ŧ | × | |
| 4.50- 9 | 5.00 | В | (3.50) | | | | | | e light b | | | | | | 4.50 | · · · · · · · · · · · · · · · · · · · | 39 |
| - 00 | - | | | | | | Grave | l is an | hell frag ngular to | | | | | | Ę | 0 | |
| 5.00 | • | D | | | | | flint At 4. | 50m, de | ense. | | | | | | Ē | | |
| 5.40- ! | | в | | | | | | X | | | | | | | ŧ | | |
| 5.40- 9 | | - D | 5.35 (4.00) | | | s29 | | | | | | | | | ŧ | | 1 |
| 6.00 | - | D | | | | | | | | | | | | | <u>+</u> | 0.00 | ļ |
| | | - | | | | | At 6. | 45m, de | ense. | | | | | | F | |] |
| 6.45- 0 | 6.90 | D | 6.40 (5.00) | | | S32 | • | | | | | | | | F | o | ļ |
| 7.00 | - | | | | | | | | | | | | | | Ę | 0.000 | ļ |
| /.00 | - | D | | | \checkmark | | | | | | | | | | Ē | | |
| 7.45- 8 | 8.00 | В | | | | | | | | | | | | | E | 0.0 | |
| 7.45- | 7.90 | _ D | 7.40 (6.50) | | | S28 | | | | | | | | | - | | |
| | | | | | | | Vorre | dona- ' | light bar- | | ap+1 | ail+ 7 | AND | | 8.00 | × · · · × | 36 |
| 8.20 | | D | | | | | | | light bro Eragments | | | | | • | Ę | · · × · | ļ |
| 8.50- 8 8.50- 8 | | В D | 8.45 | | | s50/ | | | | | | | | | F | × | |
| | - | - | (7.50) | | | 298 | | | | | | | | | Ę | | ļ |
| 9.20 | - | _ - - D | | | | | | | | | | | | | Ē | × | |
| | | - | | | | | | | | | | | | | ŧ | × ··· × | 1 |
| 9.55-10 9.55- 9 | | - B - D | 9.50 | | | S50/ 279 | | | | | | | | | ŧ | | |
| | - | | (8.00) | | | 219 | | | | | | | | | <u>+</u> | | 1 |
| oring | Hole | | + | • | | Progre Depth | | Depth to | | | Grour Depth | ndwate Depth | | in | Depth | Remar | rks on |
| eptn | Dia | | Technique | | Crew | of Hole | | Water | Date | Time | Struck | Cased | Rose to | Mins | Sealed | Ground | dwate |
| | 0.20 | Cable F | ion Pit Percussi Percussi | on | CR/BB CR/BB CR/BB | G.L. 10.00 10.00 | | | 22/09/21 22/09/21 23/09/21 | 18:00 | | | | | | None enc during b | |
| | | | | | | | 15.00 | | 23/09/21 | | | | | | | | |
| emarks | S 🕂 | Water w | vas adde | d to a | ssist k | oring | between | 1.20 a | and 15.00 nd no ser | m. | | | | | Load | | CR |
| mbols and | d | Inspect Backfil | l detai | ls from | sxcavat n base | of hol | e: bent | onite g | nd no ser grout up | to gro | were fo und lev | vel. | | | Che Figu | cked by I re 1 | DRB 1 of |
| breviations plained on companyir | n the | | | | | | | | | | | | | | | | 19/11/20 |
| y sheet. | | | | | | | | | | | | | | | | | Mie |

| Project _E | QUIN | OR FEEL |) PHASE | 1 INVE | STIGAT | IONS | Engine | er | J MURPH | Y & SON | S LIMI | TED | | Boreho | le B | H12-37 | |
|--|------|-------------------|--------------------------------|---------------|-----------|--------------|-------------------|--------------------|------------------------------|---------|----------|-----------------|----------|-----------|--------------|---------------------------------------|---------------------|
| Olivert | | | | | | | Nationa | l Grid | 611783. | | | | | Project | | C218256 | |
| Client _J Sampling | | PHY & S | SONS LIN | ITED Prope | rties | | Coordir Strata | nates | 314416. | 9 N | | | | Ground | Level 4 | 4.45 m Scale 1 | |
| Depth | 5 | Sample Type | Depth Cased & (to Water) | Strength | | SPT N | Descrip | | | | | | | | Depth | Legend | Level m OD |
| | | - | (to water) | Kia | 70 | | | | | | | | | | | × | |
| 10.20 | | D | | | | | | | | | | | | | - L | × | |
| 10.55-11 | | - - В - D | 10.50 | | | s50/ | | | | | | | | | - | | |
| | | - | (5.00) | | | 256 | | | | | | | | | Ē_ | | 4 |
| 11.20 | | D | | | | | | | | | | | | | Į Į | | 4 |
| 11.55-12 11.55-11 | | - B - D | 11.50 | | | s50/ | | | | | | | | | F | × | |
| | | - | (5.50) | | | 245 | | | | | | | | | E | ×····× | |
| 12.20 | | D | | | | | | | | | | | | | F | × | |
| 12.55-13 12.55-12 | | - B - D | 12.50 | | | s50/ | | | | | | | | | F | | |
| | | - | (5.50) | | | 269 | | | | | | | | | Ē_ | × | |
| 13.20 | | D | | | | | | | | | | | | | Ę | | |
| 13.55-14 13.55-13 | | - B - D | 13.50 | | | s50/ | | | | • | | | | | F | × | 4 |
| | | - | (3.20) | | | 285 | | • | | | | | | | Ē | × ···× | |
| 14.30 | | D | | | | | | | X | | | | | | ÷ | | |
| 14.75-15 | 5.20 | - в | | | | | | | | | | | | | | × · · · × | |
| 14.75-15 | 5.16 | D | 14.50 (3.80) | | | s50/ 257 | | | | • | | | | | E | | |
| 15.30 | | D | 15 10 | | | | | Y | | | | | | | + | | |
| 15.50-15 | .90 | _ D - - | 15.40 (4.00) | | | \$50/ 248 | | | | | | | | | +- - - | | |
| | | - | | | | | Verv | dense | light br | own sli | ahtly | gravell | v silty | 7 SAND | 16.00 | × · · · · × | 28.45 |
| 16.20 | | - D | | | | | with Grave | rare sl el is a | hell fra ngular t | gments | (up to | 2mm in | size). | | 16.40 | · · · · · · · · · · · · · · · · · · · | 28.05 |
| 16.40 16.55-17 16.55-17 | | _ D - B - D | 16.50 | | | s21 | Stiff | and cl | brown s | lightly | grave | lly san | dy CLAY | / with | 4_ + + | · · · · · · · · · · · · · · · · · · · | |
| | | - | (15.00) | | | | Grave | | pockets ngular t halk. | | | | | | F | | |
| 17.20 | | D | | | | | | | | | | | | | + | | |
| 17.60-18 | 8.05 | UT30 | 17.50 (DRY) | 56 | 15 | | | | | | | | | | Ē | ······ | • |
| 18.05-18 | 3.20 | - - - D | | | | | | | | | | | | | F | | • |
| | | - | | | | | | | | | | | | | + F | ····· | |
| 18.60-19 | .05 | D | 17.50 (DRY) | | | s23 | | | | | | | | | Ē | · · · · · · · · · · · · · · · · · · · | • |
| | | - | | | | | | | | | | | | | <u>+</u> | | • |
| 19.30 | | D | | | 16 | | | | | | | | | | t F | ····· | 4 |
| 19.70-20 | .15 | UT26 | 17.50 | | | | | | | | | | | | Ē | | |
| | | | (DRY) | | | | | | | | | | | | <u>-</u> | ····· | |
| | Hole | | Toobaigu | • | Crow | Progre | Depth | Depth to | Data | Time | Depth | ndwate Depth | | in | Depth | Remai | |
| Depth | Dia | | Techniqu | C | Crew | of Hole | Cased | Water | Date | Time | Struck | Depth Cased | 1050 10 | Mins | Sealed | Ground | dwater |
| | | | | | | | | | | | | | | | | | |
| Remarks | AGS | | | | <u> </u> | 1 | | <u> </u> | <u> </u> | _ | <u> </u> | <u> </u> | <u> </u> | | Log | | CR DRB |
| Symbols and abbreviations | are | | | | | | | | | | | | | | Figu | re | 2 of 3 9/11/2021 |
| explained on accompanying key sheet. | | | | | | | | | | | | | | | ് | | त्भिद्ध |
| All dimension | IS | l ogged in : | accordance | with BS59 | 30.2015 + | - A1·2020 | | | | | | | | | | 7 | <u>~~~</u> |

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|--------------------------|-------------------|----------------|-------------------------------|-------------------|-------------------|-----------|----------------------|----------|----------------------|---------|-----------------|----------------|---------|-------------------|--------------|-----------|---------------|
| Project | EQUI | NOR FEEI | D PHASE | 1 INVES | STIGAT | IONS | Engineer | • | J MURPHY | & SON | S LIMI | ED | | Boreho Project | No Po | H12-37 | |
| Client | ,т мтт | RPHY & S | SONGIT | MTTF | | | National Coordina | Grid | 611783.6 314416.9 | 06E | | | | Ground | level 4 | 4.45 m | OD |
| Sampl | | KFNI & | | Proper | rties | | Strata | nes | 514410.5 | | | | | oround | | Scale 1 | |
| Depth | | Sample Type | Depth Cased & (to Water | Strength) kPa | w % | SPT N | Descripti | ion | | | | | | | Depth | Legend | Level m OD |
| | | _ | | | 70 | | | | | | | | | | | .0 0 | |
| 20.15- | -20.30 | D | | | | | | | | | | | | | 20.30 | ······ | 24.15 |
| | | F | | | | | | | Er | nd of B | orehole | 9 | | | - 20.30 | | 21.13 |
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| Boring |) Hole | + | <u>+</u> | ! | | Progre | |)enth to | | | | dwate Depth | 1 | in | Depth | Rema | rks on |
| Depth | Dia | | Techniqu | ie | Crew | of Hole | Depth D Cased | Water | Date | Time | Depth Struck | Depth Cased | Rose to | Mins | Sealed | | dwater |
| | | | | | | | | | | | | | | | | | |
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| Remar | rks 🗳 | | | | | 1 | | | | | | | ļ | | Logr | red by | CR |
| Symbols a | | 1 | | | | | | | | | | | | | Cheo Figu | cked by 1 | DRB 3 of 3 |
| abbreviati explained | ons are on the | | | | | | | | | | | | | | , igu | | 19/11/2021 |
| accompar key sheet | nying | | | | | | | | | | | | | | Ē | | miss |
| All dimens are in met | | Logged in | accordance | e with BS59 | 30:2015 + | - A1:2020 | | | | | | | | | 2- | ~ | |

Project EQUINOR FEED PHASE 1 INVESTIGATIONS Engineer Borehole BH12-38 J MURPHY & SONS LIMITED Project No PC218256 National Grid 611850.708E Client 314366.945N Ground Level 41.10 m OD J MURPHY & SONS LIMITED Coordinates Strata Sampling Properties Scale 1:50 Depth Cased & Sample Strength w SPT N Level Depth Description Depth Leaend Туре (to Water) kPa % m OD 41.10 G.L. 0.10- 0.40 B D TOPSOIL: Soft to firm dark brown slightly gravelly angular and subrounded fine to coarse flint and 0.20 0.40 40.70 quartzite. 0.50- 1.00 в Light brown slightly gravelly SAND. Below 0.60m, with a low cobble content of 0.80 D subangular flint. 1.20- 2.20 1.20- 1.65 в 1.20 39.90 ×. C5 1.20 Loose light brown slightly gravelly silty SAND. (DRY) 2.00 D 2.20- 3.50 в 2.20- 3.50 2.20- 3.50 2.20- 2.45 в D 2.20- 2.65 1.80 s4 (DRY) 3.00 D 3.00 38.10 Very loose to loose very sandy GRAVEL with occasional pockets (up to 50mm in size) of clay. 3.50- 4.50 3.50- 3.95 в р 3.00 **S**3 (DRY) 4.00 D 4.50- 5.50 At 4.50m, medium dense with a low cobble content. F в 4.50- 5.50 в 4.60 36.50 Dense light brown slightly sandy slightly clayey GRAVEL with occasional pockets (up to 30mm in size) of clay. Gravel is angular to subrounded fine to coarse flint and quartzite. • • • 4.50 S19 D (DRY) · 5.10 D 5.50- 5.95 5.50 C35 At 5.50m, dense. (DRY) , · -5.90 35.20 Dense brown slightly gravelly slightly clayey SAND. Gravel is angular to subangular fine to medium 5.90- 6.50 в 6.20 D flint. 6.50- 8.00 6.50- 6.95 34.60 в 6.50 s43 6.20 Dense light brown SAND. D (DRY) 7.50 D 8.00- 9.30 Below 8.00m, with rare shell fragments (up to 5mm в 8.00- 8.45 L D 7.80 S45 in size). (DRY) 8.70 D 9.30-10.50 E 9.30- 9.75 D 9.00 S32 (DRY) 10.00 D At 10.50m, very dense. Boring Progress Groundwater Iole Denth Depth Denth to Depth Depth Denth Remarks on Depth Crew Date Time Rose to Technique Water Cased Mins Sealed Dia of Hole Cased Struck Groundwater Inspection Pit G.L. 23/09/21 08:00 None encountered 1.20 MR/SS 23/09/21 18:00 24/09/21 08:00 24/09/21 18:00 12.15 0.15 Cable Percussion MR/SS 10.95 10.50 DRY during boring. 10.95 10.50 10.95 10.50 12.15 11.00 DRY DRY Nater was added to assist boring between 1.20 and 11.70m. Inspection pit hand excavated to 1.20m depth and no services were found. Backfill details from base of hole: bentonite grout up to ground level. Remarks Logged by Checked by ECAD DRB 1 of 2 Symbols and Figure abbreviations are 19/11/2021 explained on the accompanying ezimbelogo key sheet.

| BOF | REH | OLE | REC | ORD |) – | Cab | ole Pe | ercus | ssion | | | | | | | | |
|--|--|---------------------------------|--------------------------------|-----------------|-----------|------------------|----------------------|-------------------|---------------------|---------------------------------------|-----------------|----------------|---|--------------------------|-----------------|---------------------|-------------------------------------|
| Project | EQUIN | IOR FEED | PHASE | 1 INVES | STIGAT: | IONS | Enginee | r | J MURPHY | ∕& SON | S LIMI | red | | Borehc Project | No P | H12-38 | |
| Client | 7 101 | PHY & S | 010 1 1 | | | | National Coordina | Grid | 611850. 314366.9 | 708E | | | | | | 1.10 m | |
| Sampl | | | | Proper | rties | | Strata | | 314300.3 | 4511 | | | | Giouria | Level 4 | Scale 1 | |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descript | ion | | | | | | | Depth | Legend | Level m OD |
| 10.50- 10.50- 11.00 | 11.70 10.89 | - B - D - D - D | 10.50 (DRY) | | | \$50/ 240 | | | | | | | | | | | |
| 11.70- | 12.15 | | 11.00 (DRY) | | | 531 | | | Er | nd of B | orehole | 2 | | | | | 28.95 |
| | | | | | | | | | | | | | | | | | |
| Boring | | - - - - - - - | | | | Progre | 255 | | | | Grour | ndwate | r | | | | |
| Depth | Hole Dia | | Techniqu | e | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | Depth Cased | | in Mins | Depth Sealed | | rks on dwater |
| | Dia | | | | | | Cuscu | valo | | | | Jased | | CTIIIVI | | Groun | |
| Remar Symbols a abbreviatio explained accompan key sheet. All dimens are in met | and ons are on the lying sions | | accordance | e with BS59 | 30:2015 + | - A1:2020 | · · · · · · | | <u> </u> | · · · · · · · · · · · · · · · · · · · | | | , | | Figu | ecked by 1 ure 2 | ECAD DRB 2 of 2 19/11/2021 |

Project EQUINOR FEED PHASE 1 INVESTIGATIONS

Engineer

J MURPHY & SONS LIMITED

Borehole Project No

BH13-39 PC218256

| Client Sampl | | PHY & S | SONS LIN | Prope | | | Coordinates Strata | 313171.6 | 514N | | | | Ground | Level 57 | v.43 m Scale 1 | OD :50 |
|-----------------------------------|------------------------------|--------------------------|--------------------------------|-----------------|--------------------|---------------------|--|--------------------------|---------------------|--------------------------|-------------------------|--------------|------------|---------------------------------|---|-----------------------------|
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | N W % | SPT N | Description | | | | | | | Depth | Legend | Level m OD |
| 0.10- 0.30- | 0.30 0.20 0.70 0.40 | - B - D - B - D | | | | | TOPSOIL: Da low cobble angular to | content c subangula | of subar ar fine | ngular to coa | flint. rse fl | Gravel | . is/ | G.L. | · × · · · · | 57.4 57.1 |
| | | - | | | | | Light orang silty SAND flint. Gray | with a lo | w cobbl | Le cont | ent of | subang | ular | + - - - | × · · · | |
| | 2.20 1.65 | - B - D - | 1.20 (DRY) | | | S10 | Below 1.20 | n, medium | dense. | | | | | | × ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | |
| 1.90- | 2.00 | - - D | | | | | | | | | | | | - - | 0 × | |
| 2.20- | 2.65 | D | 2.20 (DRY) | | | S20 | | | | | | | | - - - | • × • • • | |
| 2.70- | 3.20 | в | | | | | | | | | | | | +- - - - | 0 X 4 | |
| | 3.00 | D | | | | | | | | | | | | + | •ו•• | |
| 3.20- | 3.65 | - D | 3.20 (DRY) | | | S16 | | | | | | | | | × . | |
| 4.00- | 4.10 | - D | | | | | | | | | | | | + - - | 0 X | |
| | 4.50 | в | | | | | | | | | | | | - | • × • | |
| 4.50- | 4.95 | _ D | 4.50 (DRY) | | | S18 | | | | | | | | | 0 × 4 | |
| 5.00- | 5.10 | D | | | | | | | | | | | | | • × • • • | |
| | 6.00 5.95 | - B - D - | 5.50 (DRY) | | | S13 | Below 5.50 | m, silty s | sand. | | | | | | × · · · · · · · · · · · · · · · · · · · | |
| 6.20- | 6.30 | D | | | | | | | | | | | | + - - - | × | |
| 6.60- | 7.05 | - - D | 6.60 (DRY) | | | s19 | | | | | | | | + - - | | |
| 7.00- | 7.50 | _ в | | | | | | | | | | | | - | • × • • • | |
| | 7.30 | D | | | | | | | | | | | | | × | |
| 7.50- | 7.95 | D | 7.50 (DRY) | | | S20 | | | | | | | | - - - - | | |
| 8.20- | 8.30 | | | | | | | | | | | | | | | |
| | 9.00 9.05 | - B - D | 8.60 (DRY) | | | s20 | | | | | | | | + + + + + + + | Х | |
| | 9.40 | - - - D | | | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| -50 - | 9.95 | D | 9.50 (DRY) | | | S21 | | | | | | | | +- - - - | × . | |
| | 10.10 | _ D | | | | Uross | | | <u> </u> | <u>C-ro</u> | ducto | c | | _ 10.00 | × | 47.4 |
| Soring Depth | Hole Dia | | Technique | 9 | Crew | Depth of Hole | Depth Depth | | Time | Groun Depth Struck | dwate Depth Cased | r Rose to | in Mins | Depth Sealed | | rks on dwater |
| 1.20 | | Inspect | cion Pit Percussi | : | DC/LC DC/LC | G.L. 5.00 | 4.50 DR | 10/09/21 Y 10/09/21 | 08:00 18:00 | STUCK | Caseu | | IVIII/15 | JEdleu | None end during b | ountere |
| | | | | | | 5.00 15.00 | | Y 13/09/21 Y 13/09/21 | | | | | | | | |
| Remar | ks 🗛 | Water w Inspect | vas adde ion pit | d to a | ssist h excavat | oring 1 ced to 1 | between 1.20 1.20m depth | and 15.00 and no ser |)m. rvices v | vere fo | ound. | | | Logg | | CR DRB |
| ymbols a bbreviati xplained | and ons are | Backfil | L⊥ detai | .15 fro | m base | or hold | e: bentonite | grout up | to grou | ına lev | re⊥. | | | Figu | e | 1 of 2 19/11/2021 |
| compar ey sheet | iying | | | | | | | | | | | | | ļ | <u>oled</u> | miæ |
| dimens e in met | sions res. | Logged in | accordance | with BS59 | 30:2015 + | A1:2020 | | | | | | | | | 7 | \ |

BUDERUU E DECUDU Cable Percussion

| - | | OLE | | | | | | | 551011 | | | | | | | | |
|--|-----------------------|-------------------------|--------------------------------|-----------------|---------|------------------|--------------------|-------------------|---|--------------|-----------------|----------------|---------|--------------------------|------------------|---------------------------------------|----------------|
| Project | EQUIN | IOR FEEI | D PHASE | 1 INVES | STIGAT | IONS | Engine | er | J MURPHY | K& SON | S LIMI | FED | | Borehc Project | NO PC | H13-39 | |
| Client | | RPHY & S | SONS LIN | | | | Nationa Coordir | nates | 611816.0 313171.0 | 077E 514N | | | | Ground | Level 57 | | |
| Samp | oling | | | Prope | rties | | Strata | 3 | | | | | | | | Scale 1: | 50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| | -10.20 | - D | | | | | Grave flint | el is a: | sh brown ngular to | o subro | unded i | Eine to | coarse | ·] | 10.00 10.10 | | 47.43 47.33 |
| | -11.10 -11.05 | - B - - - - | 10.60 (DRY) | | | C12 | a med flint | lium co | e orangis bble cont el is sul t. | cent of | subang | gular t | o subro | unded | | | |
| | -11.40 | | | | | | | | | | | | | | - | | |
| | -12.15 -12.40 | в | 11.70 (DRY) | | | C21 | | | | | | | | | | | |
| 12.40 | -12.50 | D | | | | | | | | | | | | | | 0.000 | |
| 12.80 | -13.25 | | 12.80 (DRY) | | | C17 | | | | | | | | | | | |
| | -13.50 -14.00 | В | | | | | | | | | | | | | | 0.00 | |
| 13.90 | -14.35 | E E | 13.90 (DRY) | | | C17 | | • | | | | | | | | 0 0 0 | |
| 14.40 | -14.50 | D | | | | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| 14.90 | -15.00 | _ р - | | | | | | | E | nd of B | orehole | 9 | | | 15.00 | 0 | 42.43 |
| | | | | | | | | | | | | | | | | | |
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| | | | | \mathbf{K} | | | | | | | | | | | | | |
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| Borin | - | - - | ÷ | • | | Progr | | Dorth | | | | ndwate | 1 | | Dorth | | ko o:- |
| Depth | Hole Dia | | Techniqu | e | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | Remar Ground | |
| | | | | | | | | | | | | | | | | | |
| | irks д | | | | <u></u> | 1 | ļ | <u> </u> | | ļ | | <u> </u> | 1 | <u> </u> | Chec | ked by I | IR DRB |
| Symbols abbrevia explaine accompa | tions are d on the | | | | | | | | | | | | | | Figur | | 9/11/2021 |
| key shee | et. | | | | | | | | | | | | | | e | plag | MES |

| Project | EQUII | IOR FEEI | D PHASE | 1 INVE | STIGAT | IONS | Engine | er | J MURPHY | & SON | S LIMI | TED | | Boreho Project | | BH1 PC218 | 3-40 | |
|------------------------|-------------------|--------------------|----------------------|----------------|-------------------|------------------|-----------------------|----------------------|--|----------------|--------------------|--------------------|-------------------|-------------------|------------|----------------|---------------------------------------|--------------------|
| Client | | | | | | | Nationa | | 611908.3 | | | | | | | | | |
| Sampl | | RPHY & S | SONS LIN | ITED Prope | rties | | Coordir Strata | | 312914.5 | 586 N | | | | Ground | l Level | | ale 1: | |
| Depth | | Sample | Depth Cased & | Strength | w | SPT N | Descrip | - | | | | | | | Depth | | egend | Level |
| Doptil | | Туре | (to Water) | kPa | % | | Deserie | | | | | | | | G.1 | | egena | m OD |
| 0.10- | 0.30 | - B - D - B | | | | | claye angul | ey sand | rk brown with occ subrounde | casiona | l root] | lets. G | ravel i | s | 0.5 | | | 56.0 |
| | 0.60 | Ð | | | | | <u> </u> | | own sligh | ntlv gr | avellv | clavev | SAND. | with | Ŧ | | | 50.0 |
| 0.80- | 1.20 | D | | | | | rare angul | roots | (up to 5m subrounde | am in d | iameter | r). Gra | vel is | | τ ο.ε - | 30 | | 55.7 |
| | 2.20 1.65 | В Д | 1.50 (DRY) | | | s15 | SAND | with ra | e dark or are rootl fine to c | lets. G | ravel i | is angu | lar to | | | 0 | | |
| 1.80- | 1.90 | _ D | | | | | Below | v 2.00m | , rootlet | s abse | nt. | | | | ļ. | | | |
| | 3.20 2.65 | - в _ D | 2.20 (DRY) | | | S10 | | | | | | | | | | 0 | | |
| 2.80- | 2.90 | - - D | | | | | | | | | | | | | | e p | | |
| 3.20- | 3.65 | Ð | 3.00 (DRY) | | | s15 | | | | | | | | | | a | | |
| 3.80- | 3.90 | - - р | | | | | Below | w 3.80m | , becomir | ng very | gravel | lly. | | | | 0 | · · · · · · | |
| 4 30- | 5.00 | - в | | | | | | | | | | | | | 4.3 | 20 | | 52.2 |
| | 4.75 | | 4.30 (DRY) | | | S43 | SAND. | Grave | ish brown l is angu t and cha | ilar to | gravel] subrou | ly slig unded f | htly si ine to | lty | - | | × | 52.2 |
| | 5.90 | - в - D | | | | | Mediu | um dense | e orangis | sh brow | n very | gravel | ly clay | ey | 5.0 | 00 : | | 51.5 |
| 5.30- | 5.75 | | 5.30 (DRY) | | | C22 | SAND | . Gravel | l is angu t and qua | ılar to | subrou | inded f | ine to | | | e p | | |
| 5.80- | 5.90 | - - D | | | | | | | sh brown ngular to | | | | | | 5.8 | | | 50.7 50.5 |
| 6.50- | 7.00 | Б | | | | | flint | t and sa | andstone. | • | | | | | Æ | a | 0.00 | |
| 6.50- | 6.60 6.95 | - D | 6.50 (DRY) | | | C14 | claye | ey SAND | . Gravel lint and | is ang | ular to | | | ine | Ē | 0 | | |
| | | [[- | | | | | | | | | | | | | F | e | | |
| | 7.40 | D | | | • | | | | | | | | | | Ē | | | |
| 7.60- | 8.05 | - | 7.60 (DRY) | | | C13 | | | | | | | | | - | a | | |
| 8.00- | 8.50 | в | | | | | | | | | | | | | - | 0 | | |
| 8.20- | 8.30 | Ð | | | | | | | | | | | | | Ē | a | · · · · · · | |
| 8.50- | 8.95 | - | 8.50 (DRY) | | | C13 | | | | | | | | | Ē | | | |
| | | | | | | | | | | | | | | | | a | · · · · · · · · · · · · · · · · · · · | |
| 9.30- | 9.40 | - - - D | | | | | | | | | | | | | Ę | 0 | | |
| 9.50- | 10.00 9.95 | _ В - | 9.50 (DRY) | | | C19 | | | | | | | | | | 0 | | |
| | | - | | | | | | | | | | | | | - | é | | |
| Boring | Hole | | | • | | Depth | | Depth to | | 1 | Grour Depth | Depth | | in | Depth | | Remar | ks on |
| Depth | Dia | | Technique | | Crew | of Hole | | Water | Date | Time | Struck | Cased | Rose to | Mins | Sealed | 3* - | Ground | lwater |
| 1.20 15.00 | 0.15 | | tion Pit Percussi | | DC/LC DC/LC | | 6.50 6.50 15.00 | DRY | 08/09/21 08/09/21 09/09/21 09/09/21 | 18:00 08:00 | | | | | | | ne enco cing bo | ountered oring. |
| Remar | ks 🛄 | Water v | was adde | d to a | ssist 1 | ooring | betweer | n 1.20 a | and 15.00 nd no ser |)m. | <u> </u> | | ļ | | (| ogged I | 2V 2 | S |
| Symbols a | | Inspect Backfil | tion pit 11 detai | hand ls fro | excavat m base | ted to of hol | 1.20m d e: bent | tepth an tonite g | nd no ser grout up | to gro | were fo und lev | ound. vel. | | | CI | hecked gure | by D | RB of 2 |
| abbreviation explained | ons are on the | | | | | | | | | | | | | | Γ | | | 9/11/2021 |
| accompan key sheet. | | | | | | | | | | | | | | | ļ | jæ | jeef | ന്ദ് |

| Project | EQUIN | IOR FEEI | D PHASE | 1 INVE | STIGAT | IONS | Engine | er | J MURPHY | & SON | S LIMII | ED | | Boreho Project | ole No | BH1: PC218 | 3-40 | |
|--|--|----------------|--|-----------------|--------|---------------------------------|--------------------|---------------------|--|---------------|--------------------|-------------------|------------------------|-------------------|---------------|----------------------------|---|---------------------|
| Client | ј миј | PHY & S | SONS LIN | AITED | | | Nationa Coordir | al Grid | 611908.3 312914.9 | 878 E 86 N | | | | Ground | l Level | 56.52 | 2 m | OD |
| Sampl | | | | Prope | rties | | Strata | | | | | | | | | | ale 1 | |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Dept | n Le | egend | Level m OD |
| 10.60- 11.20- 11.20- 11.50- 12.30- 12.50- 13.30- 13.50- 14.00- 14.30- | -10.40 -11.05 -11.50 -11.30 -11.95 -12.40 -13.00 -12.95 -13.40 -13.95 -14.50 -14.40 -14.95 | | 10.60 (DRY) 11.50 (DRY) 12.50 (DRY) 13.50 (DRY) | | | C22 S11 S37 S39 S40 | sligh subro | ntly si ounded i | e orangis lty SAND fine to o n, becom | Ing den | l is ar flint a | ngular and san | avelly to dstone | | | | × ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | 45.4 |
| Boring | 1 | ļ | ļ | | | Progre | ess | | | | Groun | dwate | r | | | | | |
| Depth | Hole | | Techniqu | e | Crew | Depth | Depth | Depth to | Date | Time | Depth | Depth Cased | Rose to |) in | Depth | | | rks on |
| | Dia | | . comiqu | - | | of Hole | Cased | Water | | | Struck | Cased | | ' Mins | Sealed | | Groun | dwater |
| | rks 📕 | | | | | ļ | | | | | | | | | Lo C Fi | ogged b hecked igure | by 1 | AS DRB 2 of 2 |
| bbreviati xplained ccompar ey sheet .ll dimens | ons are on the nying | | | | | | | | | | | | | | Г | | | 19/11/2021 |

Project EQUINOR FEED PHASE 1 INVESTIGATIONS

ATIONS Engineer

J MURPHY & SONS LIMITED

Borehole BH Project No PC

BH14-41 PC218256

| lient Sampli | | PHY & S | ONS LIN | ITED | rties | | National Grid 612229.399E Coordinates 311581.193N Ground Strata | Level 19 | 9.63 m (Scale 1: | |
|---|-------------------------|--------------------|--------------------------------|----------------|-----------------|--|--|-----------------|---------------------------------------|----------------------------|
| Depth | 3 | Sample Type | Depth Cased & (to Water) | Strength | | SPT N | Description | Depth | Legend | Level m OD |
| 0.00- 0.00- 0.30- | 0.10 0.60 | B D B | | | | | TOPSOIL: Dark brown slightly gravelly silty sand with occasional rootlets. Gravel is subrounded fine to coarse flint. | G.L. | | 19.6 19.3 |
| 0.30- 0.70- 0.70- | | D B D | | | | | Dark brown slightly gravelly silty SAND with a low cobble content of subangular flint. Gravel is subangular fine to coarse flint. | 0.70 | · · · · · · | 18.9 |
| 1.20- | 2.00 | в | | | | | Dark brown clayey SAND. | 1.20 | | 18.4 |
| 1.20- 1.20- | 1.30 1.65 | | 1.20 (DRY) | | | S6 | Soft light orangish brown slightly gravelly sandy CLAY with a medium cobble content of subangular flint. Gravel is subangular to subrounded fine to coarse flint. | | | |
| 1.90- | | _ D | | | 9.9 | | | - | · · · · · · · · · · · · · · · · · · · | |
| | 2.65 | - | 2.20 (DRY) | | | | Orangish brown mottled grey slightly gravelly sandy CLAY with a medium cobble content of subrounded flint and occasional pockets (up to 50mm in size) | 2.20 | 0 × 0 0 | 17.4 |
| 2.65- 2.70- | | D B | | | | | of sand. Gravel is subangular to subrounded fine to coarse flint and chalk. | - | × | |
| 3.10- | 3.20 | D | | | | | | F | ° × | |
| 3.40- | 3.85 | D | 3.00 (DRY) | | | S4 | At 3.40m, loose. | 3.80 | | 15.8 |
| | 4.40 4.20 | B D | | | 23 | | CHALK, recovered as brownish cream slightly gravelly sandy SILT and SAND. Gravel is very weak, low density, brownish cream and subrounded. | | | 13. |
| | 4.85 4.90 | UT18 D | 4.40 (DRY) | 76 | 26 | | | | | |
| | | - | | | | | | + + | | |
| 5.50- | 5.40 6.00 5.95 | B D | 5.50 (DRY) | | | s5 | | | | |
| | 6.40 6.95 | | 6.00 (DRY) | | 23 | | | | | |
| 6.95- 7.00- | 7.00 7.50 | D B | | | | | | | | |
| 7.30- 7.50- | 7.40 7.95 | | 7.50 (DRY) | | | S4 | | | | |
| | | - | | | | | | | | |
| 8.30- 8.50- 8.50- | 9.00 | D B UT15 | 8.50 (8.30) | 203 | 25 | | | | | |
| 8.95- | 9.00 | _ D | | | | | Below 8.95m, becoming cream. | + - | | |
| 9.30- 9.50- 9.50- | 9.60 | - D D | 9.00 (8.40) | | | S6 | | | | |
| 0.00- | 12.00 | в | (, | | | | | - | | |
| oring | | | | <u> </u> | | Progre | | | | |
| epth | Hole Dia | | Techniqu | | Crew | Depth of Hole | Depth Depth to Cased Water Date Time Depth Depth Cased Rose to Mins | Depth Sealed | Remar Ground | lwater |
| 1.20 8.00 | 0.15 | Inspect Cable F | | | DC/LC DC/LC | G.L. 2.00 2.00 15.20 15.20 | 12.00 4.50 08/09/21 08:00 | | Slow inf: | low. |
| emar | ks 🖁 | Inspect ** Dril | ion pit lers de | t hand escript | excavat ion. | 18.00 ted to | 18.00 6.00 08/09/21 18:00 . .20m depth and no services were found. | | | R/PS |
| mbols a breviatio plained compan | nd ons are on the | Backfil | l detai | ils from | n base | of hol | : bentonite grout up to ground level. | Figur | re 1 | 0RB . of 2 9/11/2021 |
| | | | | | | | | \sim | | |

| roject _E | EQUIN | OR FEED | PHASE | 1 INVES | STIGAT: | IONS | Engine | er | J MURPHY | & SON | S LIMI | ſED | | Boreho Project | ole No | BH14-4 PC218256 | |
|--|--|---------------------------------|--|--------------|--------------------|------------------|----------------------------------|--|--|--------|-----------------|----------------|---------|--------------------------|-----------------|-----------------------|----------------------|
| lient J | j mur | PHY & S | SONS LIM | 1ITED | | | Nationa Coordir | al Grid nates | 612229.3 311581.1 | | | | | Ground | l Level | 19.63 | m OD |
| amplin | g | | | Prope | ties | | Strata | 3 | | | | | | | | Scale | 1:50 |
| Depth | | Sample | Depth Cased & (to Water) | Strength | W % | SPT N | Descrip | otion | | | | | | | Dept | h Legen | d Lev |
| 0.50-10 0.95-11 1.60-11 2.00-13 2.00-12 2.60-12 3.00-13 3.00-13 3.70-15 3.70-14 4.20-14 4.20-14 4.20-15 5.20-15 5.50-15 5.70-16 | 1.00 1.70 3.00 2.45 2.70 3.70 3.45 5.20 4.15 4.30 5.15 5.70 5.60 | - | Cased & (to Water) 10.50 (8.60) 12.00 (5.80) 12.00 (5.80) 12.00 (5.80) 12.00 (5.30) 12.00 (5.30) 12.00 (5.30) | kPa | w % 33 27 | S5 S5 S14 S12 S9 | Below to co At 13 flint | x 12.00r barse f: 3.00-13. boulde | n, with r lint grav .45 drill ar**. | er not | es pres | sence o | | | Deptil | h Legen | |
| 6.70-16 7.00-17 7.90-18 | 7.45 | - D - D - D - D - D | 17.00 (6.00) | | | 514 | | | Er | d of B | orehole | 3 | | | 18. | | 1 |
| 3oring | Holo | - | | | | Progre | |]enth to | | | Groun | dwate | | in | | | |
| | Hole Dia | | Technique | e | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | Rei Gro | narks on undwater |
| emarks | | | | | | | | | | | | | | | C | ogged by hecked by | CR/PS DRB |
| mbols and breviations plained on companyin y sheet. | s are the | | | | | | | | | | | | | | | | 2 of 2 19/11/202 |

Project EQUINOR FEED PHASE 1 INVESTIGATIONS

TIGATIONS Engineer

National Grid

J MURPHY & SONS LIMITED

612224.197

Borehole BH14-42 Project No PC218256

Client 311387.917N Ground Level 21.13 m OD J MURPHY & SONS LIMITED Coordinates Sampling Properties Strata Scale 1:50 Depth Cased & Sample Strength w SPT N Level Description Depth Depth Leaend Туре (to Water) kPa % m OD 21.13 G.L. 0.00-TOPSOIL: Dark brown slightly gravelly clayey sand with a medium cobble content of subangular to subrounded flint and chalk. Gravel is subangular to 0.20 B D 0.00- 0.10 0.30- 0.60 в 0.30 20.83 0.30- 0.40 D subrounded fine to coarse flint and chalk 0.60-0.90 в Dark brown gravelly slightly clayey SAND with a low cobble content of angular flint. Gravel is angular 0.60- 0.70 D to subangular fine to coarse flint and chalk. Below 0.60m, becoming light brown. 1.20- 1.70 1.20- 1.65 19.93 E 1.20 Loose light brown gravelly clayey SAND with a low cobble content of angular flint. Gravel is angular to subangular fine to coarse chalk and flint. 1.20 **S6** D (DRY) 1.80- 1.90 19.33 D 1.80 Light brown slightly gravelly silty SAND with a low cobble content of angular chalk. Gravel is subangular fine to coarse flint and chalk. 2.10 - 2.55S11 D 2.10 (DRY) 2.30- 3.00 в 2.30 18.83 Soft light brown slightly gravelly sandy CLAY with a medium cobble content of subrounded chalk. Gravel is subangular to subrounded fine to coarse flint T and chalk. 3.00 18.13 Loose light greyish brown mottled dark brown very silty SAND. ∇ 3.40- 4.50 3.40- 3.50 3.40- 3.85 в р **S**5 3.40 (2.40) 4.50- 5.00 в 4.50 16.63 Medium dense light brown gravelly SAND with a medium cobble content of subrounded chalk. Gravel is subangular to subrounded fine to coarse chalk 4.50- 4.95 D 4.50 s20 (3.20)and flint. 5.20- 5.30 D 5.60- 6.05 5.60 C12 (3.70)6.10- 6.20 15.03 D 6.10 Light grey gravelly fine to medium SAND with a medium cobble content of subrounded chalk. Gravel is subangular to subrounded fine to coarse flint. 6.30- 6.40 D 6.50- 7.50 6.50- 6.60 в 6.50 14.63 × D Loose grey slightly gravelly silty SAND with occasional pockets (up to 50mm in size) of soft grey clay and a low cobble content. Gravel is fine 6.50- 6.95 6.50 (4.10)6.90- 7.00 D to coarse subangular to subrounded flint and chalk. 7.90 13.23 7.90- 8.70 Loose light grey gravelly silty SAND. Gravel is в F 7.90- 8.35 D 7.90 S9 angular to subrounded fine to coarse flint. (4.30) 8.40- 8.50 D 8.90- 9.40 в 8.90- 9.00 D 8.90- 9.35 8.90 S6 (5.00) 11.73 9.40 Soft grey slightly gravelly sandy CLAY. Gravel is subrounded fine to coarse flint and chalk. 9.40- 9.50 D 9.70- 9.80 9.70 11.43 D 13 .80-10.00 в 9.80- 9.90 D Boring Progress Groundwater Iole Denth Depth)enth to Depth Depth Denth Remarks on Depth Crew Date Time Rose to Technique of Hole Water Mins Sealed Dia Cased Struck Cased Groundwater Inspection Pit 13/09/21 Slow inflow. 1.20 DC/LC G.L 08:00 3.40 3.00 2.70 20 13/09/21 14/09/21 14/09/21 18.00 0.15 Cable Percussion DC/LC 3.40 3.00 2.70 18:00 2.40 3.40 3.00 08:00 16.00 16.00 4.00 18:00 16.00 16.00 3.00 15/09/21 08:00 00 00 5/09/21 Water was added to assist boring between 10.00-16.00m. Inspection pit hand excavated to 1.20m depth and no services were found. Backfill details from base of hole: bentonite grout up to ground level. Remarks Logged by Checked by CR DRB 1 of 2 Symbols and Figure abbreviations are 19/11/2021 explained on the accompanying ezimbelogo key sheet. All dimensions Logged in accordance with BS5930:2015 + A1:2020 are in metres.

Project EQUINOR FEED PHASE 1 INVESTIGATIONS Engineer

Client

J MURPHY & SONS LIMITED

Borehole BH14-42 Project No PC218256

Logged by Checked by

Figure

CR DRB 2 of 2

ezimbelogo

19/11/2021

612224.197E 311387.917N National Grid Ground Level 21.13 m OD J MURPHY & SONS LIMITED Coordinates Strata Sampling Properties Scale 1:50 Depth Cased & Sample Strength w SPT N Level Depth Description Depth Leaend Туре (to Water) kPa % m OD Medium dense light grey gravelly slightly clayey SAND with a medium cobble content of subangular to subrounded flint. Gravel is subangular to 10.00-10.10 D 10.00-10.45 10.00 S15 (0.00) 10.50-11.00 B D subrounded fine to coarse chalk. 10.50 10.63 10.50-10.60 × Light grey very gravelly silty SAND with a medium cobble content of angular flint and chalk. Gravel is angular to subrounded fine to coarse flint and chalk. 11.20-11.30 D 11.50-12.00 в At 11.50m, loose. C9 11.50 11.50-11.95 (0.00) ÷ Between 12.60-12.70m, layer of soft slightly sandy ۰ב 12.60-12.70 clay. At 12.60m, medium dense. D 12.60-13.05 12.60 C11 × (0.00)13.00-13.50 в 13.50-13.60 D 13.50-13.95 13.70-14.00 13.50 C13 в 13.70 7.43 (0.00)Stiff grey slightly sandy slightly gravelly CLAY with a medium cobble content of subrounded chalk. Gravel is angular to subrounded fine to coarse ; -13.70-13.80 18 D 14.00 7.13 14.00-14.10 D flint and chalk. Medium dense light grey gravelly SAND with a high cobble content of angular flint and subangular chalk. Gravel is angular to subrounded fine to coarse flint and chalk. 14.50-14.95 C18 14.50 (0.00) 15.50-16.00 в 15.50 5.63 15.50-15.60 D Medium dense dark grey sandy slightly silty GRAVEL °.× with a high cobble content of subangular flint. Gravel is angular to subangular fine to coarse 15.50-15.95 15.50 C31 (4.00) flint Å. 16.50-16.95 16.50 C26 D 16.50-16.60 D (3.50)γ. 17.00-17.10 17.00 4.13 D CHALK recovered as brownish cream slightly gravelly sandy SILT. Gravel is very weak, low density, brownish cream with many black specks and 17.50-18.00 D 22 subrounded. S13 17.50-17.95 16.50 (4.00) T 18.00 3.13 End of Borehole Boring Progress Groundwater IOL Denth Depth)enth to Depth Depth Denth Remarks on Depth Crew Date Time Rose to Technique Water of Hole Cased Cased Mins Sealed Groundwater Dia Struck

Remarks Remarks

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions Logged in accordance with BS5930:2015 + A1:2020 are in metres.

Cable Derevenion

| oject | EQUIN | OR FEE | D PHASE | 1 INVE | STIGATI | IONS | Enginee | er | J MURPHY | & SON | S LIMI | TED | | Boreho Project | | BH15-43 PC218256 | |
|--|------------------------------|----------------|--------------------------------|-----------------|----------------|-------------------------------|--------------------|-------------------|---|-------------------------|------------------|---------|----------|-------------------|-------------------|--|-----------------------|
| lient | J MUR | PHY & | SONS LIM | IITED | | | Nationa Coordir | | 612440.2 311082.6 | | | | | Ground | Level 2 | 28.34 m | OD |
| iampli | ing | | | Prope | rties | | Strata | 1 | | | | | | | | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Lev m OD |
| 0.30- | 0.30 0.10 0.60 0.40 | в | | | | | sand | with a | rk brown medium c to subang | obble | conten | t of fl | int. G | ravel | G.L. | | 28 28 |
| 0.80- | | В | | | | | cobbl | e conte | own very ent of su subrounde | bround | ed fli | nt. Gra | vel is | | 0.80 | | 27 |
| 1.20- | 1.70 1.65 | - В - Д | 1.20 (DRY) | | | S6 | sandy conte | slight nt of a | sh brown tly grave subangula fine to c | lly CL r flin | AY wit t. Gra | h a med | lium col | bble | + - - - | | |
| 1.70- | 1.80 | - D | | | | | Firm | light 1 | brown sli | aptiv | gandu | aliabti | v grav | | 1.70 |) | 26 |
| 2.00- | 2.10 | _ D | | | 16 | | CLAY | with a | medium c flint. Gr | obble | conten | t of su | ibangula | ar to | 2.00 | | 26 |
| | 2.70 2.65 | В UTF 55 | 1.50 (DRY) | | | | | | fine to c brown mot | | - | | | CLAY. | + - - | | |
| 2.70- | 3.15 | UT50 | 1.50 (DRY) | 187 | 17 | | | | | | | | | | | ×. · · | |
| 3.15- | 3.20 | D | | | | | | | | | | | | | t F | × | |
| | 3.90 3.60 | В D | | | | | | | brown mot | | ark or | angish | brown | | 3.50 | | 24 |
| 3.90- | 4.35 | - D | 3.90 (DRY) | | | S14 | Firm | light 1 | brown mot | tled o | rangis | h brown | n sandy | CLAY. | 4.00 | | 24 |
| | 4.80 4.50 | - В - D | | | | | sandy | CLAY T | brown mot | dium c | obble | content | : of | | 4.40 | | 2 |
| | 4.90 5.35 | | 4.50 (DRY) | | 16 | | coars | e chall | chalk. Gr k. notes pre | * | | | | 5 | | | |
| 5.35- | 5.40 | - - D | | | | | Stiff | light | orangish | grey | slight | ly sand | ly grave | elly | 5.40 | D | 2 |
| 5.70- | 5.80 | D | | | | | subro | unded i | medium c flint and fine to c | chalk | . Grav | el is s | ubangu | | F | 000 | |
| | 6.50 6.45 | В D | 6.00 (DRY) | | 19 | S16 | | | | | | | | | F F | | |
| | | - | | | | | | | | | | | | | | | |
| | 6.90 7.45 | тб0 | 6.00 (DRY) | | | | | | | | | | | | | | |
| | 7.50 8.00 | D B | | | | | mediu | m cobb | slightly le conter el is sub | tofs | ubroun | ded cha | alk and | | 7.40 | | 2 |
| B.00- | 8.10 | - D | | | 16 | | LIIII | . Grave | er is sur | rounde | a me | 10 000 | use cha | aik. | ł. | 0000 | |
| 8.20- | 8.65 | - D | 6.00 (DRY) | | | S22 | | | | | | | | | + + + | | |
| | | | | | | | | | | | | | | | +- - - - | 0 0 0 | |
| | 9.00 9.30 | D B | | | | | | | | | | | | | L- L | 0 0 0 0 0 0 0 | |
| 9.30- | 9.75 | UT65 | 6.00 (DRY) | 118 | 15 | | | | | | | | | | + F | 0000 | |
| 9.75- | 9.80 | - D | | | | | | | | | | | | | | | |
| oring | | ļ | ļ | ļ | | Progre | | Dorth | 1 | | | ndwate | | | Denti | | |
| epth | Hole Dia | | Technique | | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | | Rose to | in Mins | Depth Sealed | Groun | rks on dwate |
| 1.20 | | Cable 1 | tion Pit Percussi | lon | DC/LC DC/LC | G.L. 5.40 5.40 15.00 | 4.50 6.00 | 4.70 DRY | 03/09/21 03/09/21 06/09/21 06/09/21 | 18:00 08:00 18:00 | | | | | | None end during h Water en borehole weekend. | oring tere ove: |
| emarl | | | | | | | | | nd no ser grout up | | | | <u> </u> | ļ | Che | ecked by | CR DRB |
| mbols a previatio plained o company | ons are on the | | | 0 | | | | | up | | | | | | Fig | | 1 of 19/11/2 |

| Project EQUI | | | | | | Enginee | | J MURPH | Y & SON | S LIMI | TED | | Boreho | le B | H15-43 | |
|--|------------|---------------|-------------|-----------|------------------|-------------------|-------------------|---------|---------|-----------------|--------|---|------------|-----------------|-------------------|-----------------------------|
| | | | | | | National | | 612440. | | | | | Project | No p | C218256 | |
| Client _{J мण} Sampling | RPHY & S | SONS LI | ITED | ties | | Coordin Strata | ates | 311082. | 674 N | | | | Ground | Level 2 | 8.34 m Scale 1 | |
| Depth | Sample | Caseu a | Strength | w | SPT N | Descript | | | | | | | | Depth | Legend | Level |
| | Туре | (to Water) | kPa | % | | | | | | | | | | | | m OD |
| 10.20-10.30 | D | | | | | | | | | | | | | t F | 0 0 0 | |
| 10.50-11.00 10.50-10.95 | | 6.00 | | 15 | S19 | | | | | | | | | Ę. | 0000 | |
| | F | (DRY) | | | | | | | | | | | | F F | 000 | |
| | F | | | | | | | | | | | | | F | 0 0 0 | |
| 11.30-11.40 | | | | | | | | | | | | | | E | 0000 | |
| 11.70-12.15 | UT60 | 6.00 (DRY) | 226 | 15 | | | | | | | | | | Ē | 0000 | |
| 12.15-12.20 | - - D | | | | | | | | | | | | | | | |
| 12.20-12.50 | в | | | | | | | | | | | | | E E | 000 | |
| 12.60-12.70 12.80-13.25 | - D - D | 6.00 | | | s33 | Below | 12.80m | , becom | ing ver | y stif: | Ε. | | | + | | |
| 12.00 13.13 | - | (DRY) | | | 555 | | | | | | | | | F | 0 0 0 0 0 0 | |
| 13.40-13.50 | - L D | | | | | | | 4 | | | | | | - | 000 | |
| 13.70-14.00 | в | | | | | | | | | | | | | E | 0000 | |
| 14.00-14.45 | UT70 | 6.00 (DRY) | | | | | | | | | • | | | - | 000 | |
| 14 45 14 50 | - | (, | | 1.6 | | | | X | | | | | | - | 0000 | |
| 14.45-14.50 14.50-14.90 | _ D - B | | | 16 | | | | | | | | | | F F | 0000 | |
| 14.90-15.00 | D | | | | | | | | | | | | | 15.00 | 000 | 13.34 |
| | - | | | | | | V | E | nd of B | orenole | 9 | | | F F | | |
| | | | | | | | | | | | | | | Ē | | |
| | Ē | | | | | | | | | | | | | E | | |
| | - | | | | | | | | | | | | | - E | | |
| | - | | | | | | | | | | | | | F. | | |
| | - | | | | | | | | | | | | | + | | |
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| | - | | | | | | | | | | | | | t F | | |
| | F | | | | | | | | | | | | | <u>+</u> | | |
| | E | | | | | | | | | | | | | <u>+</u> | | |
| | | | | | | | | | | | | | | t L | | |
| | | | | | | | | | | | | | | t T | | |
| | E | | | | | | | | | | | | | ÷ L | | |
| Boring | <u> </u> | | | | Progr | ess | | | | Grour | ndwate | r | | <u> </u> | | |
| Depth Hole Dia | | Techniqu | e | Crew | Depth of Hole | Depth I | Depth to Water | Date | Time | Depth Struck | | | in Mins | Depth Sealed | | rks on dwater |
| | | | | | | | | | | | | | | | 2.04 | |
| | | | | | | | | | | | | | | | | |
| Remarks | | | | | | | | | | | | | | Log Che | cked by | CR DRB |
| Symbols and abbreviations are explained on the | | | | | | | | | | | | | | Figu | ire | 2 of 2 19/11/2021 |
| accompanying key sheet. | | | | | | | | | | | | | | ட | काविद | നിദ്ദ |
| All dimensions are in metres. | Logged in | accordance | e with BS59 | 30:2015 - | + A1:2020 | | | | | | | | | 2 | | |

| oloor Fi | QUIN | OR FEEI | D PHASE | 1 INVE | STIGATI | LONS | Engine | er | J MURPHY | & SON | S LIMI | IED | | Boreho Project I | | H15-44 | |
|--|------|-------------------------------|-----------------------|-------------------|----------------------------|----------------------|--------------------|---------------------|--|------------------|------------------|----------------------|---------------------|-----------------------|-----------------------|---------------------------------------|---------------|
| | | PHY & S | SONS LIM | | | | Nationa Coordir | nates | 612611.3 311016.1 | | | | | Ground | Level 30 | | |
| Sampling |] | Sample | Depth Cased & | Prope Strength | | SPT N | Strata | | | | | | | | | Scale 1: | 50 Lev |
| Depth | | Туре | Cased & (to Water) | kPa | % | SPIN | Descrip | otion | | | | | | | Depth | Legend | m Öl |
| 0.00- 0 0.10- 0 0.30- 0 0.30- 0 | .30 | B | | | | | with | a low o | rk brown cobble co to subang | ntent o | of angu | ular ⁻ fl | int. Gr | avel | G.L. | | 30 30 |
| 0.90- 1 | | В | | | | | low o angul | lar to a | own sligh content o subangula | f suba r fine | ngular to coa | flint. arse fl | Gravel | is | 0.90 | | 29 |
| 0.90- 1 L.20- 1 L.20- 1 | .70 | | 1.20 (DRY) | | | S24 | with and c | a mediu chalk. (| sh brown um cobble Gravel is lint and | conter | nt of a | subroun | ded fli | nt | - - - - - | | |
| L.90- 2 | .00 | - - D | | | | | | | | | | | | | - | · · · · · · · · · · · · · · · · · · · | |
| 2.20- 2 | .65 | UT70 | 1.50 (DRY) | 176 | 16 | | | | | | | | | | - - - - | · · · · · · · · · · · · · · · · · · · | |
| 2.65- 2 2.70- 3 3.00- 3 | .00 | | | | 17 | | | | | | | | | | - | | |
| 3.20- 3 | .65 | D | 1.50 (DRY) | | | S15 | | | | | | | | - - - - - | - | | |
| 4.00- 4 | .10 | - - D | | | | | | | | <u> </u> | | | | | 4.00 | ····· | 2 |
| 4.20- 4 | - | - | 1.50 (DRY) | | | | grave | elly sam | orown mot ndy CLAY chalk and | with a | low co | obble c | ontent | | - | | |
| 65 7 | 70 | - | (DRI) | | | | subro | ounded a | fine to c | oarse | flint a | and cha | lk. | | - | | |
| 4.65- 4 4.70- 5 5.00- 5 | .00 | - D B D | | | 15 | | Below | v 5.00m | , driller | notes | freque | ent ver | y sandv | . : | - - - | · · · · · · · · · · · · · · · · · · · | |
| | | - | | | | | bands | | | | - 1 | | | | - | · · · · · · · · · · · · · · · · · · · | |
| | - | - | | | | | | | | | | | | • | - | | |
| 5.80- 6 | .25 | D | 1.50 (DRY) | | | 512 | | | | | | | | • | - - | · · · · · · · · · · · · · · · · · · · | |
| 5.20- 6 | .70 | В | | | | | | | | | | | | • | - | | |
| 5.70- 6 | .80 | - - - D | | | | | Ŧ | | | | | | | | - | | |
| .80- 7 | | | 1.50 (DRY) | 136 | 11 | | | | | | | | | • | - | · · · · · · · · · · · · · · · · · · · | |
| 7.25- 7 | | D | | | V | | | | brownish | | | | | | 7.20 | | 2 |
| .50- 8 .50- 7 .50- 7 | .60 | B D D | 7.50 | | | S36 | and f | Elint. (| low cobb Gravel is lint and | suban | | | | | 7.50 | **** | 2 |
| | - | - | (DRY) | | | | GRAVE | L with | ish brown a high c | obble (| content | t of su | bangula | r | - | ° ° × ° | |
| 8.20- 8 8.50- 9 | | - D - - В | | | | | flint | | el is sub | | | | | | 8.20 | · · · · · · · | 2: |
| .50- 8 | | D | 8.50 (DRY) | | | S29 | CLAY | with a | brown sli low cobb ubangular | le cont | tent of | f suban | gular f | | - | | <u> </u> |
| .20- 9 | .30 | - - - D | | | | | | | e brownis . Gravel | | | | |] | | | |
| 9.50-10 9.50- 9 | | B | 9.50 | | | s50/ | Verv | dense 1 | orown and | orang | ish br | OWD gan | dv GRAU | EL | 9.50 | | 2 |
| | | - | (DRY) | | | 150 | with | a high | cobble c ubangular | ontent | of sul | bangula | r ^f lint | | - - - - | · · · · · · · · · · · · · · · · · · · | |
| oring | lole | | + | ļ | | Progre | | Depth to | P . | - T · | Grour Depth | ndwate Depth | 1 | in | Depth | Remar | ks on |
| | Dia | | Technique | | Crew DC/LC | of Hole G.L. | | Water | Date 02/09/21 | Time 08:00 | Struck | Cased | Rose to 12.00 | Mins 20 | Sealed | Ground Slow inf: | lwate |
| 5.00 0 | | | Percussi | | DC/LC | 15.00 | 13.50 | 13.50 | 02/09/21 | | | | | | | | |
| | AGS | Water w Inspect ** Dril | was adde tion pit | ed to a hand o | ssist k excavat ion. | poring 1 ted to 1 | betweer 1.20m d | n 7.50 lepth an | and 13.0 nd no ser | Om. vices v | were fo | ound. | ļ | | Chec | ked by I | R |
| nbols and previations | are | | | | | of hole | e: bent | conite g | grout up | to gro | und le | vel. | | | Figur | | of 9/11/20 |
| lained on t ompanying | | | | | | | | | | | | | | | | \ | |

| BOREH | IOLE | REC | ORD |) – | Cab | ole Pe | ercus | ssion | | | | | | | | |
|--|--------------------------------------|-----------------------|-----------------|-----------|------------------|----------------------------------|-------------------------------|---|-------------------------------|------------------------------|-----------------------------|---------------------------------------|-------------------|-----------------|---------|-----------------------------------|
| Project EQUI | NOR FEED | PHASE | 1 INVES | STIGAT: | IONS | Enginee | er | J MURPHY | & SON | S LIMI | ſED | | Boreho Project | NO PC | H15-44 | |
| Client J MU | RPHY & S | SONS LIN | AITED | | | Nationa Coordir | | 612611.3 311016.1 | | | | | Ground | Level 30 | 0.86 m | OD |
| Sampling | | _ | Prope | | | Strata | | | | | | | | | Scale 1 | :50 |
| Depth | Sample Type | Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 10.20-10.30 10.50-10.95 11.00-11.30 11.30-12.80 | - - - - - - - - | 10.50 (DRY) | | | C50 | | | | | | | | | 11.30 | | 19.56 |
| 11.30-11.40 11.50-11.88 | _ D | 11.50 (DRY) | | 14 | \$50/ 225 | with subro | a high unded f | Light cre cobble o flint. Gu fine to o | content cavel i | of sul s subai | bangula ngular | r to to | AVEL | | ▼ | |
| 12.80-15.00 12.80-12.90 13.00-13.20 13.40-13.60 | E | 13.00 (12.00) | | 12 | | sligh densi Occas flint | tly gra ty, bro ional s | ered as h avelly SI ownish cr subrounde and med Elint. | LLT. Gr ceam wi ed to r | avel is th free ounded | s very quent b fine t | weak,] lack s <u>p</u> o coars | low becks. | | | 18.06 |
| 14.50-14.95 | | 13.50 (13.50) | | | \$15 | 2 | V | Ē | nd of B | orehold | 3 | | | 15.00 | | 15.86 |
| | | | | | | | | | | | | | | | | |
| Boring | <u> </u> | | | | Progre | ess | | | | Grour | ndwate | r | | <u> </u> | | |
| Depth Hole Dia | | Techniqu | е | Crew | Depth of Hole | Depth | Depth to Water | Date | Time | Depth Struck | | Rose to | in Mins | Depth Sealed | | rks on dwater |
| | | | | | | | | | | | | | | | | |
| Remarks Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres. | - | accordance | with BS59 | 30:2015 + | • • A1:2020 | | | | | | | | | Cheo Figu | cked by | CR DRB 2 of 2 19/11/2021 |

Cahla Parcussion

| roject | EQUIN | IOR FEED | PHASE | 1 INVES | TIGAT | IONS | Enginee | er | J MURPHY | & SON | S LIMI | red | | Boreho Project | | H15-45 | |
|--|-----------------------------------|----------------------------|--------------------------------|-----------------|----------------|-------------------------------|--------------------|-------------------|---|-----------------|-------------------|----------------|----------|-------------------|-----------------------|----------------------|----------------------------------|
| lient | | RPHY & S | ONS LIN | | | | Nationa Coordir | ates | 612535.6 310974.5 | 63 E 08 N | | | | Ground | Level 32 | | |
| Sampl | ing | | Liopth | Proper | | | Strata | 1 | | | | | | | | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Leve m OD |
| 0.20 | 0.25 | - B - D - B - D | | | | | with angul | many ro | rk brown ootlets a nt. Grave lint. | nd a l | ow cobl | ole con | tent of | | G.L. | | 32. 31. |
| 0.70- | 1.10 | в | | | | | and a | medium lisan | gravelly m cobble ngular to | conten | t of an | ngular | flint. | | 0.75 | | 31. |
| 1.20- | 1.65 | UT24 D | NIL (DRY) | | 16 | | CLAY flint | with a a and cl | brown sli medium c halk. Gra ium flint | obble vel is | content angula | c of su | ıbangula | r | + - - - - | | |
| | 2.70 2.65 | - B - D - D | 1.50 (DRY) | | | S22 | Below | 7 2.20m | , becomin | g stif | f. | | | | | | |
| 3.00 3.20- | 3.65 | D | 3.00 | 129 | 18 | | | | | | | | | | | | , , , |
| 3.65- | 3.80 | - - - D | (DRY) | | | | Below | 7 3.50m | , becomin | g mott | led ora | angish | brown. | | - - - - | | |
| | 4.70 4.65 | - B - D - | 3.00 (DRY) | | | S18 | | | | | | | | | | | |
| 5.00 | | - - - - | | | | | | | | • | | | | | + - - - - | | , , |
| | 5.75 | UT18 - D | 3.00 (DRY) | | | | with | a medi | bluish gr um cobble ubrounded | conte | nt of a | subrour | ded cha | CLAY | 5.50 | | 26. |
| | 6.75 6.75 | - - - - - - | 3.00 (DRY) | \langle | | \$30 | | | | | | | | | | | |
| 7.00 7.35- | 7.80 | D | 3.00 (DRY) | | 16 | | | | | | | | | | - - - - - | | |
| 7.80- | 7.90 | - - D - | | | | | | | | | | | | | | | |
| | 8.80 8.80 | | 3.00 (DRY) | | | S29 | grave | lly CL | bluish gr AY with a chalk and | mediu | m cobb | Le cont | ent of | | 8.50 | | 23. |
| 9.10 9.35- | 9.80 | D UT46 | 3.00 (DRY) | 221 | 11 | | 2mm i chalk | |). Gravel | is su | brounde | ed fine | e to med | lium | - - - - | | , |
| L0.00 | | - - - - D | (2) | | 16 | | | | | | | | | | - - - - - | | \ \ - |
| Boring | | · | ļ | | | Progre | | | | | | ndwate | r | | ļ | | ļ |
| Depth | Hole Dia | | Techniqu | е | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | Remai Ground | rks on dwater |
| 1.20 5.00 | 0.15 | Inspect Cable F | | | CR/BB CR/BB | G.L. 1.20 1.20 15.00 | | | 24/09/21 24/09/21 27/09/21 27/09/21 | 18:00 08:00 | | | | | | None enc during b | |
| Cemar wmbols a obreviation compan ccompan by sheet. | and ons are on the lying | At 9.35 | im, UT s | shoe dar | naged d | luring | samplin | g. | nd no ser ampling. grout up | | | | <u> </u> | <u> </u> | Cheo Figu | ked by I | CR DRB 1 of 2 19/11/202 |

| BOREH | | | | | | | | ssion | | | | | | | | |
|--|-------------------|--------------------------------|-----------------|--------|------------------|--------------------|--------------------|---|---------------------|--------------------|--------------------|--------------|-------------------|-----------------|---------------------------------------|-----------------------------|
| Project _{EQUIN} | IOR FEEI | D PHASE | 1 INVES | STIGAT | IONS | Enginee | er | J MURPHY | K & SON | S LIMI | TED | | Boreho Project | No P | H15-45 | |
| Client _{ச MUI} | RPHY & S | SONS LIN | IITED | | | Nationa Coordin | | 612535.0 | 563E 508 N | | | | Ground | Level 3 | 2.08 m | OD |
| Sampling | | | Prope | | | Strata | | | | | | | | | Scale 1 | :50 |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 10.40-10.85 10.40-10.85 | - B - D - D | 3.00 (DRY) | | | s38 | | | | | | | | | | | |
| 11.20 11.45-11.90 | D UT35 | 3.00 (DRY) | 173 | 17 | | | | | | | | | | | | |
| 11.90-12.00 | D | | | | | Very Grave | stiff] l is su | light gre ubrounded | ey slig 1 fine - | htly gi to medi | ravelly ium cha | sandy lk. | CLAY. | 12.00 | · · · · · · · · · · · · · · · · · · · | 20.08 |
| 12.45-13.00 12.45-12.90 | - B - D - | 3.00 (DRY) | | | s30 | sligh of su | tly gra brounde | f dark h avelly C ed chalk and fl: | LAY wit | h a med | lium co | bble co | ontent | - 12.50 | | 19.58 |
| 13.20 13.55-14.00 | D | 3.00 | | 11 | | | | | | | | | | | | |
| 14.00-14.10 | D | (DRY) | | | | | • | | | | | | | | | |
| 14.55-15.00 | - - D | 3.00 (DRY) | | | S32 | | | | | | | | | | | |
| Boring Depth Hole | | Technique | | Crew | Progre | Depth | Depth to | | Ind of B | Grour | idwate Depth | 1 | in | | | rks on |
| Depth Hole Dia | | Technique | 9 | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| Remarks Remarks | | | | | | | | | | | | | | Log | qed bv | CR |
| Symbols and abbreviations are explained on the accompanying key sheet. All dimensions | | accordance | | | | | | | | | | | | Figu | ecked by ure | DRB 2 of 2 19/11/2021 |

| ient _{ச M} ம ampling Depth | | SONS LIN | | | | | |
|--|------------------------|-----------------------------------|-----------------|------------------------|--|---|-------------------------------|
| 1 3 | | | | | | National Grid 611904.868E Coordinates 308573.31 N Ground Level 19.78 m | |
| Depth | | Depth | Prope | | 007.11 | Strata Scale | 1 |
| | Sample Type | Cased & (to Water) | Strength kPa | w % | SPT N | Description Depth Legend | Lev m OD |
| 0.10- 0.30 0.10- 0.20 0.30- 0.60 0.30- 0.40 | D B | | | | | TOPSOIL: Dark brown gravelly slightly silty sand with a medium cobble content of subangular flint and occasional rootlets. Gravel is fine to coarse subangular to subrounded flint. | 19 19 |
| 0.80- 1.20 0.80- 0.90 1.20- 1.65 | _ D | 1.20 | | | S20 | Light brown gravelly slightly silty SAND with a medium cobble content of subangular flint and rare rootlets. Gravel is subangular to subrounded fine to coarse flint | 18 |
| 1.70- 2.00 1.70- 1.80 | - - - - в | (DRY) | | | 520 | Medium dense light orangish brown gravelly slightly silty SAND with a low cobble content of angular flint. Gravel is angular to subrounded fine to coarse flint. | 18 |
| 2.30- 2.75 2.30- 2.75 | - - - - в | 2.30 (DRY) | | | C19 | Medium dense brown and orangish brown subangular GRAVEL with a high cobble content of angular to subangular flint. Gravel is angular to subangular fine to coarse flint. | |
| 3.20- 3.65 | | (DRI) | | | | 3.20 | 16 |
| 3.20- 4.00 3.20- 3.30 3.20- 3.65 | D | 3.20 (DRY) | | | C4 | Loose light orangish brown silty SAND & GRAVEL with a medium cobble content of subangular flint. Gravel is angular to subangular flint. | |
| 4.10- 4.20 4.30- 4.80 4.30- 4.75 | | 4.30 (DRY) | | 17 | S9 | Firm dark grey slightly sandy slightly gravelly CLAY with a low cobble content of subrounded chalk. Gravel is subangular to subrounded chalk and flint. | 1! |
| 5.10- 5.20 5.30- 5.75 | - | 5.30 | 90 | 17 | | Below 5.10m, becoming gravelly. $\frac{e}{1} \cdot \frac{1}{e} \cdot \frac{1}{e} \cdot \frac{1}{e}$ | |
| 5.75- 5.80 5.80- 6.10 6.10- 6.20 | - - D - B - D | (DRY) | | | | | |
| 6.30- 7.50 6.30- 6.75 | | 5.30 (3.50) | | | 5 20 | Medium dense light grey slightly gravelly clayey SAND with a medium cobble content of angular flint. Gravel is subangular to subrounded fine to coarse flint and chalk. | 13 |
| 7.10- 7.20 7.50- 7.95 | F | 7.50 (4.50) | | | S28 | | |
| 8.00- 8.50 8.00- 8.10 | - - в - D | (1.50) | | | | Medium dense grey slightly sandy GRAVEL with a high cobble content of subangular flint. Gravel is subangular to subrounded fine to coarse flint and | 11 |
| 8.40- 8.50 8.50- 8.95 | | 8.50 (5.00) | | | C21 | chalk. | |
| 9.10- 9.20 9.20- 9.30 9.50- 9.95 | - | 9.30 | 177 | 15 | | Firm grey silty SAND. Gravel is subangular to subrounded fine to coarse flint and chalk. | 10 |
| 9.95-10.00 | - - - D | (DRY) | | 14 | | Stiff dark grey slightly sandy gravelly CLAY with a low cobble content of subangular flint and chalk. Gravel is subangular to subrounded fine to coarse flint and chalk. **Driller notes occasional sand bands. | |
| oring Hole | | T- 1 / | | 6 | Progré Depth | Depth Depth to Depth Depth Depth Depth in Depth Rem | arks on |
| Dia Dia | Inspect | Technique tion Pit Percussi | : | Crew DC/LC DC/LC | of Hole G.L. 4.10 4.10 16.00 | Cased Water Date Time Struck Cased Rose to Mins Sealed Grou 4.00 1.90 15/09/21 08:00 6.30 4.50 3.50 20 9.30 Fast in 4.00 1.90 15/09/21 18:00 15.20 9.30 7.50 20 Fast in | ndwate |
| emarks mbols and breviations are plained on the | ** Dril | llers de | escript | ion. | 18.00 oring 1 ed to 1 | 18.00 9.00 17/09/21 18:00 poetween 1.20 and 4.00m. Logged by 1.20m depth and no services were found. Checked by e: bentonite grout up to ground level. Figure | CR DRB 1 of 19/11/20 |

| Project EQUI | NOR FEEI | D PHASE | 1 INVE | STIGAT: | IONS | Engine | er | J MURPH | Y & SON | IS LIMI | red | | Boreho Project | ole No | | 16-46 | |
|---|----------------------|--------------------------------|-----------------|-----------|------------------|--------------------|---------------------|-----------------------|-----------------|--------------------------|-------------------|-----------------|-------------------|--------------------|-------------------------|--|---------------------|
| Client .T MIT | RPHY & S | CONS I TH | עדיייביט | | | Nationa Coordir | al Grid | 611904. 308573. | 868E | | | | Ground | | | | חר |
| Sampling | KPNI & 2 | | Prope | rties | | Strata | | 308573. | 31 11 | | | | Ground | Levei | | cale 1 | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | ı | Legend | Level m OD |
| 10.00-10.50 | в | | | | | | | | | | | | | - | | · · · · · · · · · · · · · · · · · · · | |
| 10.50-10.60 | - - D | | | | | | | | | | | | | - | | ········ | |
| 10.70-11.15 | - - - | 9.30 (DRY) | | | S24 | | | | | | | | | | - | | |
| 11.40-11.70 | в | | | | | | | | | | | | | Ę | | ° : • • • • | |
| 11.70-11.80 11.80-12.25 | D UT75 | 9.30 | 197 | 17 | | | | | | | | | | | - | · · · · · · · · · · · · · · · · · · · | |
| 12.25-12.30 | - - - D | (DRY) | | | | | | | | | | | | - - - | - | · · · · · · · · · · · · · · · · · · · | |
| 12.70-12.80 12.80-13.20 | - - - D - B | | | | | | | | | | | | | | | | |
| 13.20-13.65 | - D | 9.30 (DRY) | | | S26 | | | | | | | | | | - | | |
| | | | | | | | | | - | | | | | | - | | |
| 14.00-14.10 | F | | | 16 | | | | | | | | | | | - | ······································ | |
| 14.50-14.95 | | 9.30 (DRY) | | | | | | | | | | | | | - | | |
| 14.95-15.00 15.20-15.30 | - | | | | | | | | * | | | | | - 15.2 | | ······ | 4.58 |
| 15.20-15.30 | - D - | | | | | Grey subro | gravel] ounded f | ly silty fine to : | SAND. medium | Gravel flint a | is sub and cha | angulan 11k. | to | | 20 | • × • • • | 4.50 |
| 16.00-16.10 | - - - D | | | | | | | | | | | | | | | * × • • • | |
| 16 50 17 50 | | | | | | Tala | - 16 50- | | | | | | | | | | |
| 16.50-17.50 16.50-16.95 | B D | 16.50 (7.80) | | | s24 | Retor | V 16.501 | n, mediu | m dense | • | | | | - - - | | | |
| 17.00-17.10 | D | | | | | | | | | | | | | | | × | |
| 17.50-18.00 17.50-17.95 17.50-17.60 | В D | 17.50 (8.20) | | • | s24 | | | | | | | | | | | | |
| 17.90-18.00 | E | (0.20) | | | | | | E | nd of B | orehole | 9 | | | 18.0 | 00 | ••ו••• | 1.78 |
| | | | | | | | | | | | | | | | | | |
| | Ē | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | <u> </u> | | | | | | | | | | | | | <u>+</u> | | | |
| Boring Depth Hole Dia | | Techniqu | е | Crew | Depth of Hole | | Depth to Water | Date | Time | Grour Depth Struck | Depth Cased | r Rose to | in Mins | Depth Sealed | | Remar Ground | |
| | | | | | | Jaseu | VAGICI | | | JUNCK | Cased | | 111113 | Jealed | | Ground | |
| | | | | | | | | | | | | | | | | | |
| Remarks | 5 | | | | | | | | | | | | | С | ogged hecke igure | ed by I | CR DRB 2 of 2 |
| abbreviations are explained on the accompanying key sheet. | | | | | | | | | | | | | | | <u></u> | \sum | 9/11/2021 |
| All dimensions are in metres. | Logged in | accordance | with BS59 | 30:2015 + | + A1·2020 | | | | | | | | | Ę | عحر | geer | <u>Cerma</u> |

| roject | EQUIN | IOR FEEI |) PHASE | 1 INVES | STIGAT | IONS | Engineer | J MURPHY | & SON | S LIMI | red | | Borehol Project N | | H16-47 | |
|--|------------------|----------------------------|-----------------------|--------------------|--------------------|------------------|--|--|-----------------|-----------------|----------------|---------|----------------------|----------------------------|---|-------------------|
| lient | | PHY & S | SONS LIN | | | | National Grid Coordinates | 611854.8 308458.5 | | | | | Ground | Level 21 | | |
| Sampli | ng | Sample | Depth | Prope Strength | | | Strata | | | | | | | | Scale 1: | |
| Depth | | Туре | Cased & (to Water) | kPa | % | SPT N | Description | | | | | | | Depth G.L. | Legend | Lev m OE 21 |
| 0.00- 0.20 | 0.90 | - В - D | | | | | TOPSOIL: Sof gravelly CLA angular to s | Y with o | ccasio | nal roo | otlets. | Gravel | | 0.20 | . <u>.</u> | 21 |
| 0.90- 0.90 | 1.20 | - - - B - D | | | | | Dark brown s occasional p Gravel is ar flint. | ockets (| up to | 25mm in | n size) | of cla | | 0.90 | | 20 |
| 1.20- 1.20- | | В | NIL (DRY) | | | C14 | Medium dense clayey GRAVI subangular f fine to coar | L with a lint. Gr | low c avel i | obble (| content | of | I | - - - - | | |
| 2.00- 2.00- 2.00- | 2.45 | - B - D | 1.90 (0.50) | | | C16 | | | | | | | | - | ¥ | |
| 3.00- | 3.45 | - - - - B | | | | | | | | | | | | - - - - | | |
| 3.00- 3.00- 3.10 | | - D - D | 2.90 (0.50) | | | C20 | Stiff grey m slightly gra subrounded f | velly CL | AY. Gr | avel is | s suban | gular t | dy o | 3.10 | | 18 |
| 3.80- 1.00- | | в | 10.70 (DRY) | 35 | 18 | | • | $\langle \rangle$ | | | | | | | | |
| 4.50 | | D | | | 17 | | | | | | | | | - | | |
| 5.00- 5.00- 5.00- 5.05- | 5.45 5.45 | В | 4.80 (0.50) | | | s20 | \mathbf{Y} | | | | | | | | $\nabla \frac{\overline{\nabla} \cdot \overline{\nabla} \cdot \nabla$ | • • |
| 5.90 | | D | | | | | Dense grey of Gravel is an flint and ch | ngular to | | | | | | 5.90 | | 15 |
| 6.50- 6.50- 6.50- 7.00 | 6.95 | - B - D | 6.30 (0.50) | \langle | | C46 | Below 6.50m, to subrounde | | | | ontent | subangu | lar | - - - - - | | 4 4 |
| | | | | | | | | | | | | | | | | |
| 3.00- 3.00- 3.00- | 8.45 | В D | 7.70 (0.50) | | | C23 | | | | | | | | - | | - - - |
| 9.00 | | - - - - - - | | | | | | | | | | | | - - - - - - | | |
| 9.50- 9.50- 9.50- | 9.95 | - - B - D - | 9.30 (0.50) | | | C30 | Below 9.50m, | becomin | g very | claye | ¥• | | | - - - - - | | 4 4 4 |
| oring | | <u> </u> | | | | Progre | ess | | | Grour | ndwate | r | | _ | | |
| epth | Hole Dia | | Technique | е | Crew | Depth of Hole | Depth Depth to | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | Remar Ground | |
| 1.20 8.45 | 0.15 | | cion Pit Percussi | | | 14.00 | 14.00 14.00 18.00 | 06/10/21 06/10/21 07/10/21 07/10/21 | 18:00 08:00 | | | 2.30 | 20 | | Moderate | infl |
| emark | (S AGS | Water w Inspect | vas adde ion pit | ed to as hand e | ssist 1 excavat | poring ted to | between 5.90 a 1.20m depth ar | nd 10.10 nd no ser | m. vices | were fo | ound. | | | Cher | ked by I | ORB |
| mbols ar previation plained c company | ns are on the | BaCK11 | u detai | LIS ITOI | u Dase | or nol | e: bentonite <u>c</u> | grout up | to gro | una lev | veı. | | | Figur | | 0 of 9/11/20 |
| y sheet. dimensi e in metre | | Logged in | accordance | with BS59 | 30:2015 + | A1:2020 | | | | | | | | Ľ | | |

BOREHOLE RECORD - Cable Percussion Project EQUINOR FEED PHASE 1 INVESTIGATIONS Engineer Borehole BH16-47 J MURPHY & SONS LIMITED Project No PC218256 National Grid Coordinates 611854.837E 308458.587N Client J MURPHY & SONS LIMITED Ground Level 21.79 m OD Sampling Properties Strata Scale 1:50 Depth Cased & (to Water) Sample Strength W SPT N Level Description Depth Depth Legend Туре kPa % m OD Stiff grey slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse 10.10 D 10.10 11.69 chalk. 11.00 D 19 11.00-11.45 UTF 50 12.00 D 12.50-12.95 в F D S21 12.50-12.95 12.30 (DRY) 13.00 D 14.00-14.45 UT31 14.50 E D E Γ 15.50-15.95 15.50-15.95 в F D 15.00 s20 (DRY) 16.00 D 17.00 D F 17.00-17.45 66 UT 17.50 D 16 18.00-18.45 Ľ., в _ 18.00-18.45 D 17.90 s30 (DRY) 18.45 3.34 End of Borehole Boring Progress Groundwater Iole Depth Depth Cased Depth to Depth Depth ir Depth Sealed Remarks on Depth Rose to Technique Crew Date Time Water Mins Dia of Hole Struck Cased Groundwater Remarks 🔐 Checked by DRB Symbols and Figure 2 of 2 abbreviations are 19/11/2021 explained on the accompanying ezimbelogo key sheet. All dimensions

are in metres. Logged in accordance with BS5930:2015 + A1:2020

| Project _{EQT} | INOR FE | ED PHASE | 1 INVE | STIGATI | IONS | Enginee | r | J MURPHY | & SON | S LIMIT | ED | | Boreho l Project I | | H17-48 | |
|-------------------------------------|--------------|-----------------------|-----------------|----------------|-------------------------------|----------------------|-------------------|---|------------------|--------------------|------------------|----------------------|------------------------------|-----------------------|--|-----------------------------|
| lient _{J 1} | URPHY & | SONS LIN | | | | National Coordina | | 612005.8 307700.2 | | | | | Ground | Level 2 | | |
| Sampling | | Depth | Prope | | 1 | Strata | | | | | | | | | Scale 1 | :50 |
| Depth | Samp Type | | Strength kPa | w % | SPT N | Descript | ion | | | | | | | Depth | Legend | Leve m OD |
| 0.10- 0.4 0.10- 0.2 0.40- 0.7 | 0 D 0 В | | | | | silty and o | SAND v ccasion | rk brown with a high hal rootle Eine to co | gh cob ets. G | ble con ravel i | tent o s angu | f a fli lar to | nt | G.L. | · · · · · | 21.0 |
| 0.40- 0.5 | - | | | | | mediu | n cobbl | gravelly a le conten ar fine to | t of a | flint. | Grave | | | - - - - | ▼ × · · · | , , |
| 1.20- 1.3 1.20- 1.3 1.20- 1.6 | 0 В 0 D | 1.20 (1.00) | | | C22 | GRAVE | L with gular i | e orangis a high c flint. Gra rse flint | obble avel i | content | of an | gular t | o | 1.20 | | 19. |
| 2.00- 2.1 | 0 D | | | | | | | | | | | | ļ | - | ▼ | |
| 2.20- 2.6 | 5 | 2.20 (1.60) | | | C21 | | | | | | | | | - - - - | | |
| 2.70- 3.0 | E | | | | | | | | | | | | ļ | - | * | |
| 3.00- 3.1 | - | | | | a 1 0 | | | | | | | | ł | - | | |
| 3.20- 3.6 | 5 | 3.20 (2.00) | | | C18 | | | | | | | | | - - - - | | |
| 4.00- 4.1 | - 0 _ D | | | | | | | | | | | | ţ | - | | |
| 4.20- 4.3 | 0 в | | | | | | | | | | | | | - | | |
| 4.40- 4.8 | 5 | 4.40 | | | C16 | | | | | | | | - | - | | |
| 4.70- 4.8 4.80- 5.4 | | (2.30) | | | | Tim | dawk g | an andu | CT AV | | | | | 4.70 | | 16. 16. |
| 4.80- 5.4 | | | | | | Firm Grave | light g | rey sandy grey slig ubangular | htly g | ravelly | | | rse | 4.80 | | 10. |
| 5.40- 5.8 | 5 D | 4.80 (DRY) | | | S 7 | | | | | | | | | - | | |
| 6.00- 6.3 | 0 В | | | | \mathbf{N} | | | , with means flint. | dium c | obble c | ontent | of ang | ular | - - | | |
| 6.40- 6.5 6.60- 7.0 | | 6.60 (5.60) | \langle | 19 | S9 | | | | | | | | | - - - - - | | |
| 7.30- 7.4 7.50- 7.9 | | 7.10 (DRY) | | | s23 | | | | | | | | | | | |
| 8.00- 8.5 | 0 в | | | | | | | | | | | | | - - - - | | |
| 8.50- 8.9 8.50- 8.6 | | 7.10 (5.30) | | 20 | S11 | | | | | | | | | - | | |
| 9.00- 9.1 | 0 <u> </u> | | | | | | | | | | | | | - - - - | | |
| 9.50- 9.9 | 5 | 9.50 | | | C15 | | | | | | | | ļ | - | ······································ | |
| 9.70-10.2 9.70- 9.8 | | (DRY) | | | | with a | a low o | slightly cobble com ar to sub | ntent | of angu | lar fl | int. Gr | | 9.70 | | 11. |
| Boring | <u>م</u> | - | ! | 1 | Progre | ess | - | | | | dwate | r | in | Depth | Demo | rks on |
| Deptn Dia | 1 | Techniqu | | Crew | of Hole | | Water | Date | Time | Struck | Depth Cased | Rose to | Mins | Sealed | Groun | dwater |
| 1.20 L8.00 0.1 | | ction Pit Percussi | | DC/LC DC/LC | G.L. 8.00 8.00 18.00 | | 1.60 | 04/10/21 06/10/21 05/10/21 05/10/21 | 08:00 | 5.40 14.20 | 4.80 9.50 | 1.00 4.80 2.00 | 20 20 20 | 7.10 | Slow inf Fast inf Fast inf | low. |
| Remarks | U Water | was adde | ed to a | ssist b | poring | between 1.20m de | 1.20-4 | 4.70m. nd no ser | vices | l fo | und | | | Log | ged by (| CR |
| Cernal KS | Tusbe | ceron bro | - mana | excavat | Lea LO | | | | VICED | were ro | unu. | | | Ch- | | ססח |
| ymbols and obreviations ar | Backf | ill detai | ils fro | m base | of hol | e: bento | onite g | grout up | to gro | ound lev | el. | | | Che Figu | cked by 1 ire : | DRB 1 of 2 19/11/2021 |

| Project | EQUIN | IOR FEEI | D PHASE | 1 INVE | STIGAT | IONS | Engine | er | J MURPH | Y & SON | S LIMI | TED | | Borehc Project | No P | H17-48 | |
|-----------------------|-------------------|----------------|-----------------|-----------------|----------|------------------|--------------------|-------------------|---------------------|---------|-----------------|----------------|---------|-------------------|-----------------|--|----------------------|
| Client | тмп | RPHY & S | CONG I T | MTTED | | | Nationa Coordir | | 612005. 307700. | 865E | | | | - | | | OD |
| Samp | | (PHI & 3 | SONS LI | Prope | rties | | Strata | | 307700. | 21311 | | | | Ground | Levei 2 | Scale 1 | |
| Depth | | Sample Type | Caseu a | Strength kPa | ı w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| | | - | (to Water) |) кга | 70 | | | | | | | | | | _ | . · · . • | |
| | | | | | | | | | | | | | | | | · · · · · · · | |
| 10.50 | -10.95 | UT80 | 9.50 (DRY) | 193 | 19 | | | | | | | | | | - | 0.000 | |
| | | - | (2111) | | | | | | | | | | | | | | |
| | -11.00 | - | | | | | | | | | | | | | - | · · · · · · · · · · · · · · · · · · · | |
| | -11.60 -11.40 | в D | | | | | | | | | | | | | F | | |
| 11.60 | -12.05 | - D | 9.50 (DRY) | | | s23 | | | | | | | | | - | 0 0 0 0 0 0 0 | |
| | | - | (2112) | | | | | | | | | | | | | ····· | |
| | | - | | | | | | | | | | | | | - | | |
| | -12.40 -12.95 | D UT95 | 9.50 (DRY) | | | | | | | | | | | | - | ······ | |
| 12.70 | -13.00 | в | (DRI) | | | | | | | | | | | | F | · · · · · · · · · · · · · · · · · · · | |
| 12.95 | -13.00 | - D | | | 17 | | | | | | | | | | - | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 13.20 | -13.30 | D | | | | | | | | | | | | | | · · · · · · | |
| 13.60 | -14.05 | D | 9.50 | | | s30 | Below | v 13.601 | m, becom | ing ver | y stif | f. | | | - | | |
| | | - | (DRY) | | | | | | | | | | | | - | ···· | |
| 14.20 | -14.30 | - - D | | | | | | | | | | | | | 14.20 | ∇ | 6.80 |
| 14.50 | -15.00 | в | | | | | a loy | cobble | grey sa e conten | t of an | gular | flint. | Gravel | is | Ę |)°°°° | |
| 14.50 | -14.95 | - | 14.50 (2.30) | | | C8 | subar flint | | to subro | unded f | ine to | coarse | e chalk | and | + | · · · · | |
| 15 05 | -16.10 | - - D | | | | | | | | r | | | | | - | 0,0 | |
| 15.20 | -15.60 | - B - D | | | | | Stiff | light | grey gr | avelly | sandy | CLAY wi | th a lo | w | 15.20 | | 5.80 |
| | -16.05 | - UT85 | 15.60 | 105 | 16 | | cobbl | le conte | ent of s fine to | ubround | ed cha | lk. Gra | vel is | | - | | |
| | | | (DRY) | | | | | | | | | | | | - | · · · · · · · | |
| 16.05 | -16.10 | - D | | | | | | | | | | | | | | ···· | |
| 16.30 | -16.40 | D | | | | | | | | | | | | | - | | |
| | -17.10 -17.05 | - В - D | 15.60 | | | s27 | | | | | | | | | - | ······································ | |
| | | - | (DRY) | | | | | | | | | | | | - | ····· | |
| 17 20 | -17.40 | - - - D | | | 16 | | | | | | | | | | | 0 0 0 | |
| | | _UT90 | 15.60 (DRY) | | 10 | | | | | | | | | | - | ···· | |
| | | - | (2112) | | | | | | | | | | | | - | | |
| 17.95 | -18.00 | _ D | | | | | | | E | nd of B | orehol | e | | | 18.00 | ° : o : o | 3.00 |
| | | - | | | | | | | | | | | | | | | |
| | | - | | | | | | | | | | | | | - | | |
| | | - | | | | | | | | | | | | | - | | |
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| | | - | | | | | | | | | | | | | | | |
| | | - | | | | | | | | | | | | | - | | |
| Boring | , | | | | | Progre | | | 1 | | | ndwate | | 1 | Dente | | |
| Depth | Hole Dia | | Techniqu | e | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | arks on ndwater |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Rema | rks 🚜 | | | | : | | | • | • | * | | | + | | Log Che | | CR DRB |
| Symbols abbreviat | tions are | | | | | | | | | | | | | | Figu | ire | 2 of 2 19/11/2021 |
| explained accompa | d on the nying | | | | | | | | | | | | | | | | ~~ ^~ ~ |
| key shee All dimen | | | | e with BS50 | | | | | | | | | | | Ľ | e le | maa |

| Project | EQUIN | IOR FEE | D PHASE | 1 INVE | STIGAT | IONS | | J MURPHY | | S LIMII | ED | | Boreho Project | | H17-49 | |
|--|--------------------------------------|--------------------|--------------------------------|----------------------|--------------------|--------------|--|--|-------------------------|---------------------------------|-------------------------------|-------------------|------------------------|--------|--|-----------------------------|
| Client | | RPHY & S | SONS LIN | | | | Coordinates | 611930.8 307446.5 | | | | (| Ground | | 7.54 m | |
| Sampl | ing | | Lenth | Prope | | | Strata | | | | | | | T | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Description | | | | | | | Depth | Legend | Level m OD |
| 0.10- | 0.40 | - B D | | | | | TOPSOIL: Bro SAND. Gravel coarse flint | is suba | | | | | | G.L. | | 17.5 |
| 0.40- | 0.60 | - B - D | | | | | Light greyis gravelly SAN fine to coar | D. Grave | l is s | ly clay ubangul | vey sli Lar to | ghtly subround | ded | 0.90 | | 16.6 |
| 0.90- 1.20- 1.20- | 1.20 1.00 1.70 1.60 1.65 | - D - В | 1.20 (DRY) | | | s5 | Firm light o CLAY. Gravel Below 1.10m, Below 1.20m, | is subr with ch | ounded | fine t | | | | | | |
| 1.80- | 1.90 | а - | | | | | Medium dense subrounded f | grey gr | avelly edium : | clayey flint. | SAND. | Gravel | is | 1.80 | | 15.7 |
| 2.20- | 2.80 2.65 2.40 | В Д Д Д | 2.20 (2.00) | | | s20 | Medium dense to subangula | | | | | is angu | lar | 2.20 | | 15.3 |
| 2.80- | 2.90 | - - D | | | | | | | | | | | | | | |
| 3.20- | 3.65 | | 3.10 (2.60) | | | C25 | | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| | 4.00 3.90 | - в _ D | | | | | | | | | | | | | | |
| 4.40- | 4.85 | | 4.40 (2.70) | | | С8 | At 4.40, loo | se. | | | | | | | 2 0 0 0 | |
| | 5.40 4.80 | в D | (2.70) | | | | Firm grey sl | ightly s | andy s | lightly | v organ | ic CLAY | • | 4.70 | | 12.8 |
| 5.40- | 5.85 | Ð | 5.40 (4.30) | | | S1 3 | $\sum X$ | | | | | | | | | |
| | 6.00 6.50 | D В | | | 53 | \mathbf{X} | | | | | | | | | | |
| | 7.00 6.95 | В - UTF - 40 | 6.00 (DRY) | | | | | | | | | | | | | |
| | 7.00 7.45 | D - UT50 | 6.00 (DRY) | 110 | 71 | | | | | | | | | | | |
| 7.45- | 7.50 | D | | | - | | | | | | | | | F | | |
| | 7.80 | Ð | | | | | | | | | | | | l I | | |
| 8.00- | 8.45 | | 6.00 (DAMP) | | | S18 | Below 8.00m, | becomes | stiff | | | | | | | |
| | 8.90 9.45 | - | 6.00 (DAMP) | | | | | | | | | | | | ▼ | |
| | 9.50 10.00 | - D - B | | | | | | | | | | | | | | |
| Boring | | <u> </u> | | | | Droor | 255 | | , | Group | duate | r | | | | |
| Boring Depth | Hole | | Techniqu | e | Crew | Depth | Depth Depth to | Date | Time | Depth | Depth | Rose to | in Minc | Depth | Remai | |
| 1.20 18.00 | Dia 0.15 | | tion Pit Percussi | t | DC/LC DC/LC | 12.30 | 12.30 9.50 12.30 1.60 | 21/09/21 21/09/21 22/09/21 22/09/21 | 08:00 18:00 08:00 | Struck 2.20 9.00 12.30 | Cased 2.20 6.00 6.00 | 2.00 | Mins 20 20 20 | | Ground Slow inf Seepage. Fast inf | low. |
| Remar | ks 井 | Water v Inspect | was adde tion pit | ed to as t hand o | ssist h excavat | poring to | between 2.20 a 1.20m depth an | nd 4.70m d no ser | vices v | were fo | ound. | | | Logg | | AM |
| Symbols a abbreviati explained accompar | and ons are on the | Backfi: | ll detai | ils from | n base | of hol | e: bentonite g | rout up | to gro | und lev | rel. | | | Figu | | DRB L of 2 19/11/2021 |
| key sheet All dimens | | Loggodin | accordance | | 20-201E - | 41-2020 | | | | | | | | e | agegi | MB |

| Project _E | EQUIN | OR FEEI |) PHASE | 1 INVE | STIGAT | IONS | Engine | er | J MURPH | Y & SON | S LIMI | red | | Boreho Project | ole No | BH17 PC2182 | | |
|---|-------------|----------------|--------------------------------|-------------------|-----------|------------------|--------------------|-------------------|--------------------|--------------|------------------|----------------|----------|-------------------|-----------------|----------------------|---|-------------------------|
| | | PHY & S | SONS LIN | | | | Nationa Coordir | nates | 611930. 307446. | 803E 53 N | | | | Ground | Level | | | |
| Sampling | g | Sample | Depth | Prope Strength | | ODT N | Strata | | | | | | | | | 1 | e 1: | |
| Depth | | Туре | Depth Cased & (to Water) | kPa | % | SPT N | Descrip | otion | | | | | | | Depth | n Leç | end | Level m OD |
| 10.20-10 | 0.30 | | | | | | | | | | | | | | F | • | · · · | |
| 10.50-10 | | D | 6.00 | | | S17 | | | | | | | | | - - | | | |
| | | - | (DAMP) | | | | | | | | | | | | Ę | | | |
| 11.00-11 | 1.50 | _ В | | | | | | | | | | | | | E | | -: | |
| | | - | | | | | | | | | | | | | E E | | | |
| 11.60-11 11.80-12 | ł | - D | 6.00 | 105 | 67 | | | | | | | | | | 11.8 | | | 5.74 |
| | | | (DAMP) | 105 | | | Stiff | grey | slightly | sandy | CLAY. | | | | | | ÷ | 5.74 |
| 12.25-12 | 2.30 | D | | | 30 | | | | | | | | | | Ę | ⊻ | · · · | |
| 12.60-13 12.60-13 | | - В - В | | | | | stiff | grey | slightly | sandy | s li ght] | Ly grav | relly CI | AY. | 12.6 | 50 | | 4.94 |
| 12.60-12 12.90-13 | | D | 12.60 (DRY) | | | S28 | | alis s and c | ubrounde halk. | d to ro | unded i | Eine to | medium | ı | Ē | | | |
| | | - | (DRI) | | | | | | | | | | | | Ē | .0 | | |
| | | - | | | | | | | | • | | | | | E | 0 0 | | |
| 13.80-13 | 3.90 | D | | | | | | | | | | | | | - | | | |
| 14.20-14 14.20-14 | | - B UT70 | 12.60 | | | | | | | | | | | | Ę | 0 | · • • • | |
| | | - | (DRY) | | | | | | | | | | | | + +- + | | | |
| 14.65-14 14.80-14 | | D D | | | 18 | | | | | | | | | | Ę | | · · · | |
| 15.20-15 | 5.65 | - D | 12.60 | | | s29 | | | | | | | | | Ē | • • | | |
| | | - | (DRY) | | | | | | | | | | | | Ē | | | |
| 15.70-16 | 5.20 | в | | | | | | | | | | | | | Ļ | .0 | | |
| 16.20-16 | 5.30 | | | | | | | | | | | | | | | 0 | | |
| 16.50-16 | | - | 12.60 | | | | | | | | | | | | + + + | 0 | 0 0 0 0 0 0 0 0 0 | |
| | | - | (DRY) | | | | | | | | | | | | Ę | ••• | - • • • | |
| 16.95-17 17.10-17 | | D B | | | | | | | | | | | | | E | 0 | | |
| 17.30-17 17.50-17 | | D | 12.60 | | | S27 | | | | | | | | | - | 0 | · · · · | |
| | | - | (DRY) | | | | | | | | | | | | - | | · · · · · · · · · · · · · · · · · · · | |
| | | | | | | | | | E | nd of B | orehole | 9 | | | 18.0 | 00 | , · | -0.46 |
| | | - - - | | | | | | | | | | | | | - | | | |
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| | | - - | | | | | | | | | | | | | - | | | |
| Boring | | | | | | Progr | | | | | | ndwate | | | | | | |
| | Hole Dia | | Techniqu | e | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | Remar | ks on water |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Remarks | S AGS | | | | | I | ļ | <u> </u> | | - | I | <u> </u> | <u> </u> | <u> </u> | Lo | ogged by hecked b | A | M |
| Symbols and abbreviations | s are | | | | | | | | | | | | | | Fi | пескеа с gure | 2 | RB of 2 9/11/2021 |
| explained on accompanyin key sheet. | the | | | | | | | | | | | | | | | ر مات مال | | nies |
| All dimension are in metres | ns | Logged in | accordance | e with BS59 | 30.2015 4 | - A1·2020 | | | | | | | | | Ľ | للتعدر | טוד ר שרוו | <u>ann</u> |

Engineer

Project EQUINOR FEED PHASE 1 INVESTIGATIONS

J MURPHY & SONS LIMITED

Borehole BH Project No PC2

BH17-50 PC218256

| ampling | | | Prope | rties | | Strata | l | | | | | | | | Scale | 1:50 |
|---|----------------------------|----------------------------------|--------------------------|-----------------------------|------------------------------|-------------------------------|------------------------------|--|-----------------|--------------------|-----------------------|-------------------|------------------|------------------|--|---------------------|
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | n w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | m OD |
| 0.00- 0.20 0.10- 0.20 0.40- 0.70 | - B - D - B | | | | | cobbl rootl | e conte | own sligh ent of su ravel is t. | bangul | ar flir | t and i | many | | G.L. | | 21. |
| 0.40- 0.50 0.80- 1.10 0.80- 0.90 | - D - В - D | | | | | mediu rootl | m cobbi | own grave le conten ravel is | t of s | ubangul | ar fli | nt and | rare | | 0 <u>- 0</u> 0 <u>- 0</u> 0 <u>- 0</u> | |
| 1.20- 1.70 1.20- 1.65 | B D | 1.20 (DRY) | | | s12 | Below | 0.80m | , becomin sh brown | | - | elly s | andy CL | / | / 1.20 | · · · · · · · · · · · · · · · · · · · | 20. |
| 2.00- 2.10 | Ē | | | 1.5 | | | | ubrounded | | | | | | E E | | |
| 2.30- 2.75 | D | 1.50 | | 16 | s10 | | | | | | | | | Ē | · · · · · · · · · · · · · · · · · · · | |
| 2.50- 2.75 | | (DRY) | | | 510 | | | | | | | | | | ▼ • • • • • • • • • • • • • • • • • • • | |
| 3.10- 3.20 | - - D | | | | | Firm | light d | orangish | brown | slightl | y grav | elly sa | ndy | 3.10 | 0.0.0 | 18. |
| 3.30- 3.75 | | 3.10 (2.70) | | 20 | S14 | CLAY. | Grave m flin | l is suba | ngular | to sub | rounde | d fine | to | Ē | | |
| 3.80- 4.20 3.80- 3.90 | В D | | | | | Soft SILT. | | m cream s | lightl | y grave | lly sl | ightly | sandy | 3.80 | × * * * * * * * * * * * * * * * * * * * | 17. |
| 4.20- 4.70 4.20- 4.65 | - B D | 4.20 (3.30) | | | S28 | Mediu silty | m dense GRAVE | e orangis L with a ar to sub | medium | cobble | conte | nt. Gra | vel | 4.20 | *. *. | 17. |
| 4.80- 4.90 | | | | | | | | | | | | | | | × * * * | |
| 5.40- 5.85 5.70- 6.10 | - - - - B | 5.40 (4.00) | | | C27 | | | | | | | | | | م بر مر | |
| 6.20- 6.30 | - - - р | | | | \mathbf{N} | | | | | | | | | - - - 6.20 | * * * * | 15. |
| 6.40- 7.30 6.40- 6.85 | в | 6.40 (5.80) | 66 | 13 | | grave | | ish brown AY. Grave lint. | | | | | fine | | | |
| 6.85- 6.90 | - D | (5.00) | | | | | | | | | | | | <u>-</u> | | |
| 7.30- 7.40 7.50- 7.95 | - р - р - | 6.80 (DRY) | | | S19 | Grave | orang: lisan and cl | ish brown ngular to halk. | sligh subro | tly gra unded f | velly a to | sandy C coarse | LAY. | 7.30 | | 14. |
| 8.20- 8.30 | | | | | | | | 1: | | | | | | 8.20 | 0.0 | 13. |
| 8.50- 9.00 8.50- 8.95 | В - UT70 | 6.80 (DRY) | | | | subro | ounded a | lightly s and round | ed fin | e flint | and cl | halk. | 15 | - | | |
| 8.95- 9.00 9.00- 9.10 | - р - р | | | 18 | | | | | | | | | | | $\nabla \xrightarrow{\circ} \vdots \xrightarrow{\circ} :$ | |
| 9.50- 9.95 | D | 6.80 (DAMP) | | | s15 | | | | | | | | | t F | | |
| 0.00-10.50 | в | | | | | | | | | | | | | - | 0.0000 | _ |
| oring Hole Dia | | Technique | 2 | Crew | Progre | Depth | Depth to | Date | Time | Depth | dwate Depth | Rose to | in Mirre | Depth | | arks on |
| 1.20 | Inspect | cion Pit Percussi | | DC/LC DC/LC | of Hole G.L. 1.20 | 1.20 | Water DRY | 17/09/21 17/09/21 | 18:00 | 9.00 | Cased 3.10 6.80 | | Mins 20 20 | Sealed 6.8 | Slow in Seepage | |
| | | | | | 1.20 15.00 | | | 20/09/21 20/09/21 | | | | | | | | |
| mbols and | Inspect Water Backfi | tion pit was adde 11 detai | hand d to a ls fro | excava ssist l m base | ted to poring i of hol | 1.20m d between e: bent | epth an 4.20 a onite g | nd no ser and 6.20m grout up | vices to gro | were fo | ound. rel. | | | | jed by cked by re | AM DRB 1 of 2 |
| breviations are plained on the companying y sheet. | | | | | | | | | | | | | | | | 19/11/202 |

| BO | REH | OLE | REC | ORE |) – | Cab | le Pe | ercus | ssion | | | | | | | | |
|---|-------------------------|------------------|--------------------------------|-----------------|-----------|------------------|--------------------|-------------------|-----------|-------------------|-----------------|----------------|---------|--------------------------|---------------------|---------------------------------------|-----------------------------------|
| Project | EQUIN | IOR FEEI |) PHASE | 1 INVES | STIGAT | IONS | Enginee | er | J MURPHY | & SON | S LIMI | red | | Borehc Project | No P | H17-50 | |
| Client | J MUF | RPHY & S | SONS LIN | 1ITED | | | Nationa Coordin | l Grid ates | 611962.0 |) 85 E 7 8 3 N | | | | Ground | Level 2: | 1.50 m | OD |
| Samp | | | | Prope | rties | | Strata | | | | | | | | | Scale 1 | |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 10.20- | -10.30 | D | | | | | | | | | | | | | | | |
| 10.50- | -10.95 | UT75 | 6.80 (DAMP) | 200 | 17 | | | | | | | | | | | | |
| 10.95- | -11.00 | - D | | | | | | | | | | | | | | | |
| 11.60- 11.60- | -12.10 -12.05 | - B - D - | 6.80 (DAMP) | | 21 | S16 | Below | 11.60r | n, becomi | ng sti | ff. | | | | | | |
| | -12.40 -12.95 | D 0 0 | 6.80 (DAMP) | | | | | | | | | | | | | | |
| | -13.00 -13.30 | D В | | | | | | | | | | | | | | | |
| 13.40- 13.50- | -13.50 -13.95 | - D - D - | 6.80 (13.50) | | | s20 | | | ĺ | | | | | | | | ч ч ч |
| 14.20- | -14.30 | - D | | | | | | | | | | | | | Ē | ······ | |
| 14.50- 14.50- | -15.00 -14.95 | В | 6.80 (14.10) | | | S22 | | | | | | | | | | | |
| | | | | | | | | | Er | nd of B | orehole | 2 | | | _ 15.00 | · · · · · · · · · · · · · · · · · · · | 6.50 |
| | | - - - - | | | | | | | | | | | | | | | |
| | | - | | | | | | | | | | | | | | | |
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| | | - | | | | | | | | | | | | | F | | |
| Boring | - | | | ! | | | | Donth to | | | | ndwate | | in | Denth | Domo | ks on |
| Depth | Hole Dia | | Techniqu | e | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | Remai Ground | rks on dwater |
| | | | | | | | | | | | | | | | | | |
| Remai Symbols | | | | | | | | | | | | | | | Logo Che Figu | cked by I re 2 | AM DRB 2 of 2 19/11/2021 |
| abbreviati explained accompai key sheet All dimensi | l on the nying t. | | | | | | | | | | | | | | l | | |
| are in me | tres. | Logged in | accordance | with BS59 | 30:2015 + | + A1:2020 | | | | | | | | | | ``` | |

B

| roject | EQUIN | OR FEE | D PHASE | 1 INVE | STIGAT: | IONS | Engineer | J MURPHY & SONS LIMITED | Boreho Project | | H18-51 | |
|------------------------|-------|-----------------|--------------------------------|-----------------|---------|-------|------------------------------|---|--------------------------|-------------|---|---------------|
| lient | | PHY & | SONS LIN | | | | National Grid Coordinates | 615393.494E 303265.266N | Ground | Level 4 | 7.83 m | |
| Sampli | ng | <u> </u> | Depth | Prope | | 1 | Strata | | | 1 | Scale 1 | 1 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Description | | | Depth | Legend | Level m OD |
| 0.10- 0.20 0.50- | | - B D - B | | | | | medium cobb flint and c | rown slightly gravelly clayey bled content of angular to sub occasional rootlets. Gravel is fine to coarse flint. | angular | G.L. | | 47.83 |
| 0.80 | 2.20 | D | | | | | cobble cont subrounded | slightly sandy gravelly CLAY tent of a flint. Gravel is sub fine to coarse flint and chal m, becoming greyish brown. | angular | | | |
| | 1.65 | D | 1.20 (DRY) | | | s10 | | | | | | |
| 2.00 | | D | | | 17 | | | | | ŧ- | | |
| 2.20- | 2.65 | UT15 | 1.50 (DRY) | 73 | 17 | | | | | | · · · · · · · · · · · · · · · · · · · | |
| 2.65- | 2.80 | D | | | | | | | | | | |
| 3.50- | 3.95 | D | 1.50 (DRY) | | | s15 | | | | 3.70 | · · · · · · · · · · · · · · · · · · · | 44.1 |
| 4.00- 4.00 | 4.30 | B D | | | | | Stiff brown gravelly CI | ish cream sandy SILT. hish grey slightly sandy sligh LAY with a low cobble content | of angular | 4.00 | ×···×··× | 43.8 |
| 4.50- | 4.95 | UT19 | 1.50 (DRY) | 64 | 13 | | | chalk. Gravel is subangular to arse flint and chalk. | subrounded | | | |
| 4.95- | 5.10 | D | | | | | | | | + + | | |
| 5.50- 5.50- | | B D | 1.50 (DRY) | | | S20 | | | | | | - - - |
| 6.00 | | D | | | 13 | | | | | + + + | | |
| 6.50- | 6.95 | UT15 | 1.50 (DRY) | | | | • | | | | | |
| 6.95- | 7.10 | D | | | | | | | | | •••• •••• ••• •••• •••• ••• •••• •••• ••• •••• •••• ••• | |
| 8.00- | 8.45 | D | 1.50 (DRY) | | | s19 | | | | + + + | | |

Boring Progress Groundwater Hole Depth Depth Depth to Cased Water Depth Depth in Mins Depth Sealed Remarks on Date Rose to Depth Technique Crew Time Dia of Hole Struck Cased Groundwater G.L. 5.50 1.50 5.50 1.50 16.10 16.00 17.00 16.00 Inspection Pit 0.15 Cable Percussion 1.20 20.05 24/09/21 08:00 15.50 20 Slow inflow. MR/SS 1.50 7.70 24/09/21 08:00 DRY 24/09/21 18:00 DRY 27/09/21 08:00 7.70 27/09/21 18:00 13.90 28/09/21 08:00 MR/SS Inspection pit hand excavated to 1.20m depth and no services were found. Backfill details from base of hole: bentonite grout up to ground level. Remarks Logged by Checked by CR DRB

Figure

1 of 3 19/11/2021

geolectnics

Symbols and abbreviations are explained on the accompanying key sheet.

9.00

8.50- 9.50

в

D

9.50- 9.95 UT31

All dimensions Logged in accordance with BS5930:2015 + A1:2020 are in metres.

1.50

(DRY)

111

14

BOREHOLE RECORD - Cable Percussion Project EQUINOR FEED PHASE 1 INVESTIGATIONS Borehole Engineer BH18-51 J MURPHY & SONS LIMITED Project No PC218256 615393.494E 303265.266N National Grid Client Coordinates Ground Level 47.83 m OD J MURPHY & SONS LIMITED Properties Strata Scale 1:50 Sampling Depth Cased & Sample Strength w SPT N Level Depth Description Depth Leaend Туре (to Water) kPa % m OD Below 10.60m, becoming very stiff. Below 10.70m, with occasional pockets (up to 100mm 10.60-11.05 D 1.50 S32 (DRY) in size) of sand. 11.10-12.20 в 11.80 D 12 12.20-12.65 - UT29 1.50 129 11 (DRY) 12.65-12.80 D Below 13.70m, becoming stiff. S26 13.70-14.15 1.50 D (DRY) 14.60-15.30 33.23 в 14.60 Dense light bluish grey gravelly clayey SAND. Gravel is subangular to rounded fine to coarse 14.80 D flint. 15.50-15.95 15.50 D W 1.50 (7.70) 540 Δ 16.10 31.73 Medium dense light bluish grey sandy clayey GRAVEL. Gravel is angular to subrounded fine to coarse flint. 17.00-18.20 Е s15 17.00 17.00-17.45 D (13.90 17.50 D Below 18.00m, with a low cobble content of subrounded flint. 18.20-18.65 18.00 S26 D (14.60 18.70-19.60 18.70 29.13 в Stiff bluish grey slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to medium 19.00 D 14 flint. 19.60-20.05 **S18** D 19.50 (14.20 Boring Progress Groundwater IOL Denth Depth)enth to Depth Depth Depth Remarks on Depth Crew Date Time Rose to Technique Water Mins of Hole Cased Struck Cased Sealed Groundwater Dia Remarks Logged by Checked by CR DRB Symbols and Figure 2 of 3 abbreviations are 19/11/2021 explained on the accompanying eeinteeloep key sheet. All dimensions

are in metres. Logged in accordance with BS5930:2015 + A1:2020

| oject _{EQU} | HOLE | | | | | Engineer | | J MURPHY | & SON | S LIMII | ED | | Borehc Project | No Po | H18-5 | 1 |
|----------------------|----------------|--------------------------------|-----------------|--------|---------|-------------------------|-------------|----------------------|--------------|----------------|----------------|---------|--------------------------|---------|-------|---------------|
| ient _{J M} | URPHY & S | SONS LIM | IITED | | | National (Coordinat | Grid tes | 615393.4 303265.2 | 94 E 66 N | | | | Ground | Level 4 | 7.83 | m OD |
| ampling | | | Prope | | | Strata | | | | | | | | | Scale | 1:50 |
| epth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descriptio | on | | | | | | | Depth | Legen | d Lev m OD |
| | | | | | | | | En | d of B | orehole | | | | | | 27 |
| oring Hole | 2 | | | | Progre | ess Depth De | onth to | | | Groun Depth | dwate Depth | | in | Depth | Rer | narks on |
| pth Dia | | Technique | 9 | Crew | of Hole | Cased \ | Nater | Date | Time | Struck | Depth Cased | Rose to | Mins | Sealed | | undwater |

Project EQUINOR FEED PHASE 1 INVESTIGATIONS Engineer

J MURPHY & SONS LIMITED

Borehole Project No

BH18-52 PC218256

| Sampl | ing | | - Transis | Prope | | | Strata | | | | | | | | | Scale 1 | :50 |
|---|--------------------------|---------------------------------|--------------------------------|-----------------|----------------|--------------|-------------------------|--------------------|---|------------------|----------------------|--------------------|------------------|----------|----------------------|---|----------------------------|
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 0.10 0.15- 0.20 | 0.15 0.35 | - B - D - B - D - B | | | | | mediu flint | m cobbl and ma | own sligh le conten any rootl fine to c | t of a ets. G | ngular ravel i | to sub | angular | ith a | G.L. 0.15 0.35 | | 47.4 47.2 47.0 |
| 0.50 | . 1.70 | - D | | | | | cobbl rootl | e conte | tly grave ant of su ravel is int. | bangul | ar ⁻ flim | nt and | occasio | | 0.80 | | 46. |
| | 1.65 | | NIL (DRY) | | | s15 | with | a low o l is su | sh brown cobble co ıbangular | ntent | of suba | angular | flint. | | 1.80 | | 45. |
| 2.00 2.20- | 2.65 | D | 1.50 (DRY) | | | | sandy subro Below | CLAY. | sh brown : Gravel i Elint and , with oc nd. | s fine chalk | to coa | arse su | bangula | r to | | | |
| 2.90 | | - - D | | | 19 | | CLAY. | Grave | greyish b l is suba c and fli | ngular | lightly to sul | y sandy prounde | gravel d fine | ly to | 2.80 | $\nabla \overline{\nabla \cdot \cdot$ | 44. |
| | 3.90 3.85 | - - D - B - D | 3.20 | | | S12 | Grave | | brown sli ubangular nalk. | | | | | | 3.20 | | 44. |
| 3.50 | 3.05 | EW | (DRY) | | | 512 | sandy subro | Unded i | orown mot with a lo flint and fine to c | w cobb chalk | le cont . Grave | ent of al is a | angula ngular | r to | - - - | | |
| 4.20 | | - D | | | 18 | | | | V | | | | | | - | · · · · · · · · · · · · · · · · · · · | |
| 4.40- | 4.85 | _ UT8 - - - | 3.20 (DRY) | 43 | 14 | | | | | | | | | | | | |
| 5.20 | | - D | | | | | | | oluish gr | | | | | 1 | 5.10 | · · · · · · · · | 42. |
| | 6.00 5.95 | - B - D - | 3.20 (DRY) | | | s12 | | | avelly sa ed fine t | | | | | ular | | | |
| 6.25 | | - D | | | 14 | | | | | | | | | | - | · · · · · · · · · · · · · · · · · · · | |
| | 7.00 7.00 | - B - UTF - 9 | 6.50 (DRY) | | | | | | | | | | | | | | |
| | 7.60 7.65 | - D - B - D | 7.50 (4.50) | | | S12 | | | | | | | | | 7.60 | | 39. |
| 8.00 | | - - - D | | | | | low c | obble o unded t | grey slig content o to rounde | f angu | lar fl: | int. Gr | avel is | | | | |
| 8.30- | 8.75 | UT10 | 7.50 (DRY) | 61 | 11 | | | • | | | | | | | | | |
| 8.75- | 8.85 | - D - | | | 11 | | | | | | | | | | - | | |
| | 9.80 9.80 | - B - D - D | 7.50 (DRY) | | | S14 | | | | | | | | | | | |
| .0.00 | | D | | | | | | | | | | | | | F | · · · · · · · · · · · · · · · · · · · | - |
| oring | Hole | | | • | | Progre | | Depth to | | | Grour Depth | ndwate Depth | | in | Depth | Rema | rks on |
| epth 1.20 | Dia | | Technique | | Crew CR/BB | of Hole | | Water | Date 28/09/21 | Time 08:00 | Struck 3.00 | Cased | Rose to | Mins | Sealed | | dwater |
| 7.50 | | Cable H | Percussi | lon | CR/BB CR/BB | 6.50 6.50 | | 3.50 | 28/09/21 29/09/21 29/09/21 | 18:00 08:00 | 15.30 | 7.50 | 11.90 | 20 | | Fast inf Seepage. | |
| emar | ks 💾 | Inspect Backfil | ion pit | hand e | excavat | ed to | 1.20m d e: ben+ | epth an | nd no ser grout up | vices | were fo | ound. vel. | <u> </u> | | | | CR |
| /mbols a breviation plained compar | and ons are on the | | <u>.</u> e.al | 1101 | | 101 | J. Jent | | ,_cut up | gr0 | | | | | Figur | e | DRB 1 of 3 19/11/202 |
| y sheet. | | | | | | | | | | | | | | | GE | <u>dat</u> | ഫീദ |

| Project EQUIN | | | | | | Engine | | J MURPHY | 7 & SON | IS T.TMT | TED | | Boreho | ole B | H18-52 | |
|---|----------------------------|--------------------------------|-----------------|----------|------------------|------------------------|---------------------------------|-----------------------------------|--------------------|--------------------|--------------------|---------------------|------------|---------------------|---|---------------------|
| EQUI | NOR FEE | D PHASE | TING | SIIGAI | IONS | | | | | IS LIMI | | | Project | NO PO | C218256 | |
| | RPHY & | SONS LIN | | | | Nationa Coordir | nates | 615435.4 303285.6 | | | | | Ground | Level 4 | 7.42 m | |
| Sampling | Comple | Depth | Prope | | | Strata | 9 | | | | | | | | Scale 1 | 1 |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | 1 W % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 10.35-10.80 | UT12 | 7.50 (DRY) | 85 | 12 | | | | | | | | | | | | |
| 11.50-11.95 11.50-11.95 | - B - D | 7.50 (DRY) | | | s25 | Below | v 11.50m | n, becom | ing sti | ff. | | | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 12.15 | Ð | | | 12 | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| 12.55-13.00 13.00-13.10 | - | 7.50 (DRY) | | | | | | | | | | | | | | |
| 13.55-14.00 13.55-14.00 | - B - D | 7.50 (DRY) | | | S26 | | • | | | | | | | | | |
| 14.20 | D - - UT25 | 7.50 | | | | | | X | | | | | | | | |
| 15.00-15.10 | - - р | (DRY) | | | | Groui | | wn clayey | | | | | | 15.00 | | 32.42 |
| 15.55-16.00 | - - - - | 7.50 (11.90) | | | S35 | Dense SAND | e light | bluish g l is suba | grey sl | ightly | gravel unded f | ly clay ine to | /ey | 15.50 | | 31.92 |
| 16.10 | - D | | | | | | 14-14 | | 1.4.1.1 | 11 | · | | | 16.10 | | 31.32 |
| 16.30 16.55-17.00 | D - UT42 | 16.50 (13.70) | | 11 | | sandy mediu Very | y CLAY. um flint | Light gre | is angu | lar to | subang angish | brown | ne to | 16.30 | 0 | 31.12 |
| 17.20 | - - - D | | | 16 | | sligf to si | itly gra ibrounde | avelly sa ad fine t | andy CI to medi | AY. Gra um flin | avel is nt. | subang | gular | | | |
| 17.55-18.00 17.55-18.00 | - B - D | 17.50 (17.00) | 0 | | S40 | Below | v 18.00m | n, with d | occasic | onal poo | ckets (| up to 5 | 50mm | | | |
| 18.20 18.55-19.00 | - D - B | | | | | in si | lze) of | sand. | | | | | | | | |
| 18.55-18.93 | Б Б Г | 17.50 (18.20) | | | S42/ 225 | CUALE | radow | ered as 1 | light o | rov al | ight ly | gravell | | 19.00 | | 28.42 |
| 19.70-20.05 | - - - - - - | 17.50 (18.50) | | 12 | S50/ 200 | sandy mediu | 7 SILT. um densi xs. Rare | Gravel i Gravel i ity, grey | ls very vish cr | weak eam wi | to weak th freq | , low t [uent b] | .o | | | |
| Boring | | | | | Progre | ess | | | | Grour | ndwate | r | | | | |
| Depth Hole Dia | | Techniqu | e | Crew | Depth of Hole | Depth | Depth to Water | Date | Time | Depth Struck | Depth | Poso to | in Mins | Depth Sealed | | irks on idwater |
| | | | | | | | | | | | | | | | | |
| Remarks | <u> </u> | | | ļ | I | <u> </u> | <u> </u> | ! | ļ | 1 | ļ | 1 | <u> </u> | Logo Che Figu | | CR DRB 2 of 3 |
| abbreviations are explained on the accompanying key sheet. | | | | | | | | | | | | | | | | 19/11/2021 |

are in metres. Logged in accordance with BS5930:2015 + A1:2020

| oject _{EQU} | HOLE | | | | | Engineer | | J MURPHY | & SON | S LIMII | red | | Borehc Project | No P | H18-5 | 2 | |
|----------------------|----------------|--------------------------------|-----------------|--------|---------|-------------------------|-------------|----------------------|--------------|----------------|----------------|---------|--------------------------|---------|-------|--------------|----------|
| ent _{J M} | URPHY & | SONS LIN | IITED | | | National (Coordinat | Grid tes | 615435.4 303285.6 | 52 E 37 N | | | | Ground | Level 4 | 7.42 | m OD | |
| ampling | | | Prope | | | Strata | | | | | | | | | Scale | | |
| epth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descriptio | on | | | | | | | Depth | Leger | nd Le m O | vel D |
| | | | | | | | | | d of B | orehole | | | | | | 2 | 7.3 |
| oring Hole | | | 1 | ! | Progre | SS Depth De | onth to | | | Groun Depth | ndwate | | in | Depth | Po | marks on | _ |
| pth Dia | | Technique | e | Crew | of Hole | Cased V | Vater | Date | Time | Struck | Depth Cased | Rose to | Mins | Sealed | | undwate | |

| -) EÕ | UINOR FEEI |) PHASE | 1 INVES | STIGATI | ONS | Engineer | | J MURPHY | & SON | S LIMI | red | | Boreho Project | | BH18-53 PC218256 | |
|---|--------------------------------------|-----------------------|--------------------|-------------------|-------------------------------|----------------------|------------------|---|------------------|--------------------|----------------|-------------------|--------------------|-----------------------|--|-------------------------------|
| | MURPHY & S | SONS LIN | | | | National Coordina | | 615474.9 303304.9 | 35 E 87 N | | | | Ground | Level 4 | 16.95 m | |
| ampling | Sample | Depth Cased & | Prope Strength | | CDT N | Strata | | | | | | | | | Scale 1 | |
| epth | | Cased & (to Water) | kPa | w % | SPT N | Descripti | on | | | | | | | Depth | Legend | Leve m OD |
| 0.00- 0. 0.10 0.15- 0. 0.20 0.35- 0. | 35 D D | | | | | medium flint | cobbl and ma | own sligh e conten ny rootl ine to c | t of a ets. G | ngular ravel : | to sub | angular | vith a | G.L. 7 0.15 | | 46. 46. |
| L.10 L.25- 1. | с - - р | | | | | cobble | conte ts. Gr | ly grave ent of su avel is int. | bangul | ar flin | nt and | occasic | | 0.85 | · · · · · | 46. 45. |
| .25- 1. | | 1.20 (DRY) | | | S13 | with a | mediu is an | sh brown m cobble ngular to | conte | nt of a | angular | flint. | | | | |
| 2.00 | - D | | | | | sandy | CLAY w | sh grey m vith a lo | w cobb | le cont | cent of | subrou | inded | - | ····· | |
| 2.20- 2. | 65 <u>-</u> UT25 - - - - | 2.15 (DRY) | | | | size). | Grave | casional 1 is ang and fli | ular t | | | | | | | |
| 8.00 | D | | | 16 | | | | | | | | | | <u>+</u> | ···· | |
| 3.25- 3. 3.25- 3. | | 3.00 (DRY) | | | s12 | | | | | | | | | | | |
| .00 | _ D | | | | | | | | | | | | | F | · · · · · · | |
| .30- 4. | 75 UT11 | 3.00 (DRY) | 68 | 14 | | | | X | <i>•</i> | | | | | 4.50 | | 42. |
| .75- 4. | 85 - D | (DRY) | | | | | ular t | lightly to subrou | | | | | | - 4.50 - - - | | 42 |
| 5.30- 5. 5.30- 5. | | 3.00 (DRY) | | | S14 | | V | | | | | | | | | |
| 5.00 | D | | | 13 | | | | | | | | | | Į. | · · · · · · · | |
| 5.30- 6. | - | 3.00 (DRY) | | | | | | | | | | | | | | |
| 7.10 | 85 - D - - D - | | | | | Below size) | | with oc nd. | casion | al pocł | cets (u | p to 50 | mm in | | | |
| 7.40- 8. 7.40- 7. | | 3.00 (DRY) | | • | s30 | | | | | | | | | | | |
| 3.20 | - - р | | | | | | | with a r chalk. | | bble co | ontent | of angu | llar | <u>_</u> | ···· | |
| 3.40- 8. | 70 в | | | | | | | | | | | | | + | · · · · · · · · · · · · · · · · · · · | |
| 3.40- 8. 9.00 | 85 - D - - - - D | 8.35 (7.80) | | 13 | S14 | gravel | ly sar | rey mott dy CLAY. ine to c | Grave | l is su | ıbangul | ar to | у | 8.70 | | 38. |
| 9.45- 9. | 90 _UT17 | 9.00 (DRY) | 88 | 13 | | | | | | | | | | | | |
| | È. | | | | | | | | | | | | | <u>+</u> | $\nabla \circ \cdot \circ \cdot$ | |
| oring | | ļ | ļ | | Progre Depth | ess Depth D | enth to | | | | | 1 | in | Depth | Remai | ks on |
| epth Di | ia | Technique | | Crew | of Hole | | epth to Water | Date | Time 08:00 | Depth Struck | Depth Cased | Rose to | Mins 20 | Sealed | Ground | ks on dwater |
| 9.00 | | cion Pit Percussi | | | G.L. 7.85 7.85 19.55 | | | 28/09/21 28/09/21 30/09/21 29/09/21 | 18:00 08:00 | 16.30 | 15.00 | 9.10 | 20 20 | | Seepage. Fast inf | low. |
| emarks mbols and previations a plained on th | 20.00m | standpi with up | pe was pright 1 | instal lockabl | led to e prot | 20.00m ective c | with a over. | nd no ser n geowrap Backfill o to grou | ped sl detai | otted s ls from | a at i an | from 1 of hole | .00m to : bento | _ Che | ecked by I ure 1 | AS DRB 0f 2 9/11/202 |

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All dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020

| BOREH | OLE | REC | ORL |) - | Cab | ole P | ercus | ssion | | | | | | | | |
|--|-----------------|--------------------------------|-----------------|----------|----------------|--------------------|----------------------|-------------------------------------|--------------------|----------------|-----------------|--------------|-------------------|-----------|--|----------------------|
| Project EQUIN | IOR FEEI | D PHASE | 1 INVE | STIGAT | IONS | Engine | er | J MURPHY | (& SON | IS LIMI | TED | | Boreho Project | | H18-53 | |
| Client J MUR | RPHY & S | SONS LIN | IITED | | | Nationa Coordin | | 615474.9 303304.9 | | | | | Ground | Level 4 | 6.95 m | OD |
| Sampling | | | Prope | rties | | Strata | а | | | | | | | | Scale 1 | :50 |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | n w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 10.20 | - - - | | | | | | 10 55 | | | | | | | | | |
| 10.55-11.00 10.55-11.00 | - в - D | 9.00 (DRY) | | | S21 | Below | W 10.551 | m, becom | ing sti | | | | | | | |
| 11.20 | D | | | | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| 11.55-12.00 | UT17 | 9.00 (DRY) | | | | | | | | | | | | Ę | 0.000 | |
| 12.00-12.10 | - - D - | | | 14 | | **Bel predo | low 12.0 ominate: | 00m, dril ly grey. | ller no | tes be | coming | | | | | |
| 12.55-13.00 12.55-13.00 | - в - D | 9.00 (DRY) | | | S17 | | | | | | | | | | | |
| 13.20 | | | | | | | | • | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| 13.55-14.00 | - UT18 | 9.00 (DRY) | 74 | 14 | | | | | | | | | | - | 0.000 | |
| 14.00-14.10 | - - - | | | | | sandy | CLAY T | h brown n with a lo | w cobb | le con | tent of | angula | ir – | 13.80 | · · · · · · · · · · · · · · · · · · · | 33.15 |
| 14.30 | Ð | | | 12 | | | t. Grave se flint | el is an <u>g</u> t. | gular t | o suba: | ngular | fine to |) | - | ···· | |
| 14.65-14.90 14.65-15.10 | - в - р - | 9.00 (DRY) | | | S31 | Stift | f brown: | ish grey | sandy | CLAY. | | | | 14.90 | | 32.05 |
| 15.60-16.10 | - B | | | | | low o | cobble (| wn slight content o e to coar | of angu | lar fl: | | | | 15.60 | | 31.35 |
| 16.20 16.25-16.70 | - D - D - | 16.20 (9.50) | | | 546 | Dense SAND | e bluis with a | h grey sl low cobl | lightly ble con | grave | f angul | ar flir | clayey | 16.30 | | 30.65 |
| 17.00 | D | | | | | Grave | el is an | ngular fl | lint to | mediu | m flint | • | | | | |
| 17.25-17.68 | - D - | 17.20 (11.00) | | | \$50/ 283 | At 1' | 7.25m, v | very dens | se. | | | | | | | |
| 17.80 | | | | | | sandy | Y CLAY. | light blu Gravel i t and cha | is angu | | | | | 17.80 | | 29.15 |
| 18.35-18.80 18.35-18.80 | _ В | 18.30 (13.50) | | | S43 | | | | | | | | | | | |
| 19.00 | _ D | | | 22 | | **At | 19.00m | , drille | notes | silty | sand b | and. | | | | |
| 19.30 | | 10 | | | aro (| | | bluish gu | | | | | | 19.30 | · · · · · · · · · · · · · · · · · · · | 27.65 |
| 19.55-19.95 19.55-19.96 | - D - D | 19.50 (11.40) | | | S50/ 246 | | | AY. Grave ium flint | | ubangu | iar to | subrour | aed | E E | 0.0.0 | |
| | <u> </u> | | | | | | | Er | nd of B | orehol | | | | _ 20.00 | · · · · · | 26.95 |
| Boring Hole | | T | | 0 | Progr Depth | | Depth to | Data | Time | Grour Depth | ndwate Depth | r Rose to | in | Depth | Rema | irks on |
| Depth Dia | | Techniqu | - | Crew | of Hole | Cased | Water | Date | Time | Struck | Cased | 1.036 10 | Mins | Sealed | Groun | dwater |
| | | | | | | | | | | | | | | | | |
| Remarks 🕂 | | | | | | | | | | | | | | Che | cked by | AS DRB |
| Symbols and abbreviations are explained on the | | | | | | | | | | | | | | Figu | | 2 of 2 19/11/2021 |
| accompanying key sheet. | | | | | | | | | | | | | | ļ | e de la compacticación de la c | miss |

All dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020

Project EQUINOR FEED PHASE 1 INVESTIGATIONS Engineer J MURPHY & SONS LIMITED Client J MURPHY & SONS LIMITED National Grid 615516.825E COOrdinates 303230.984N

Borehole BH18-54 Project No PC218256

Ground Level 48.00

m OD

Strata Sampling Properties Scale 1:50 Depth Cased & Sample Strength w SPT N Level Depth Description Depth Leaend Туре (to Water) kPa % m OD 48.00 G.L. TOPSOIL: Firm dark brown slightly gravelly sandy CLAY with occasional rootlets and a low cobble content of subangular flint. Gravel is angular to 0.00- 0.20 0.00- 0.10 B D 0.40 47.60 0.40- 0.70 B D subrounded fine to coarse flint, chalk and 0.40- 0.50 quartzite. Firm light brown slightly gravelly sandy CLAY with a low cobble content of subrounded chalk. Gravel is angular to subrounded fine to coarse chalk, 1.20 (DRY) 1.20- 1.65 s7 quartzite and flint. D 1.30 46.70 Firm brown sandy CLAY. 1.70- 2.20 1.70- 1.80 1.70 46.30 в Firm brownish grey slightly gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse chalk and flint. D 2.20- 2.65 - UT80 1.50 218 14 (DRY) Below 2.65m, with a low cobble content of subrounded chalk. 2.65- 2.70 D 3.00- 3.10 D 15 3.20- 3.65 D 1.50 s15 (DRY) 3.70- 4.00 3.70 44.30 в Firm light brown mottled orangish brown slightly sandy gravelly CLAY. Gravel is angular to subrounded fine to coarse chalk and flint. 4.00 - 4.10D 4.30- 4.75 UT60 1.50 (DRY) 4.75- 4.80 D 5.00- 5.10 D 5.30- 5.80 5.30- 5.75 в D 1.50 c c (DRY) 6.00- 6.10 Г D 14 ∇ 6.30- 6.75 UT35 1.50 DAMP) 6.75- 6.80 6.80- 7.10 D в 7.10- 7.20 D s20 7.50- 7.95 D 7.50 (DRY) V 8.20- 8.30 D 8.50- 9.00 8.50 39.50 UT40 Stiff grey slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to coarse chalk and 8.50- 8.95 8.50 73 13 (7.80)flint 8.95- 9.00 D 9.20- 9.30 D 15 9.50- 9.95 D 9.50 S20 9.50 38.50 Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravel is angular to subrounded fine to coarse chalk and flint. (7.70) 10.00-10.30 в Boring Progress Groundwater Hole Denth Depth)enth to Depth Depth Denth Remarks on Depth Crew Date Time Rose to Technique of Hole Water Mins Sealed Groundwater Dia Cased Struck Cased Inspection Pit 29/09/21 1.20 DC/LC G.L 08:00 6.30 1.50 Seepage 29/09/21 30/09/21 30/09/21 Slow inflow. Fast inflow. 20.00 0.15 Cable Percussion DC/LC 3.70 1.50 DRY 18:00 8.50 8.50 7.80 20 11.80 3.70 14.80 1.50 DRY 08:00 11.80 8.60 20 17.50 17.00 13.00 18:00 17.50 01/10/21 08:00 00 00 01/10/21 18:00 Inspection pit hand excavated to 1.20m depth and no services were found. Backfill details from base of hole: bentonite grout up to ground level. Remarks Logged by Checked by AS DRB 1 of 2 Symbols and Figure abbreviations are 19/11/2021 explained on the accompanying ezimbelogo key sheet. All dimensions Logged in accordance with BS5930:2015 + A1:2020 are in metres.

Cable Percussion BOREHOLE RECORD -Project EQUINOR FEED PHASE 1 INVESTIGATIONS Borehole Project No BH18-54 PC218256 Engineer J MURPHY & SONS LIMITED National Grid 615516.825E

| lient _{சாய} Sampling | RPHY & S | SONS LIM | ITED Prope | rties | | Nationa Coordir Strata | nates | 615516.8 303230.9 | | | | | Ground | Level 48 | 3.00 m Scale 1 | OD :50 |
|---|----------------------------|------------------|---------------|-----------|-----------|------------------------------|---------------------|--|-------------------|-------------------|--------------------|------------------|----------------|--------------------|---|-----------------------------|
| Depth | Sample | Caseu a | Strength | | SPT N | Descrip | | | | | | | | Depth | Legend | Level |
| • | Туре — | (to Water) | kPa | 70 | | | | | | | | | | - | | m OD |
| 10.30-10.40 10.50-10.95 | D UT38 | 10.50 (9.00) | | | | grave | ally CLA | nottled h | el is s | ubangul | | | | 10.50 | | 37.5 |
| 10.95-11.00 | - D | | | 12 | | fine | to coar | rse flint | and c | halk. | | | | | | |
| 11.30-11.40 11.50-12.00 11.50-11.60 11.50-11.95 | - D - B - D | 11.50 (10.80) | | | S17 | Below | v 11.50r | n, mottli | .ng abs | ent. | | | | | | |
| 12.30-12.40 12.50-12.95 | - - - D - UT50 | 11.80 (DRY) | 73 | 12 | | | | | | | | | | | | |
| 12.95-13.00 13.00-13.30 | - - D - В | | | | | | | | | | | | | - | | |
| 13.30-13.40 13.50-13.95 | | 11.80 (DRY) | | | S16 | | | | | | | | | | | |
| 14.30-14.40 14.50-14.80 | - - - D - - | | | | | | | X | | | | | | | $\nabla \overline{\mathbf{v}}_{\mathbf{v}}^{\mathbf{v}} \xrightarrow{\mathbf{v}}_{\mathbf{v}}^{\mathbf{v}} \xrightarrow{\mathbf{v}}_{\mathbf{v}}^{\mathbf{v}}} \xrightarrow{\mathbf{v}}_{\mathbf{v}}^{\mathbf{v}} \xrightarrow{\mathbf{v}} \xrightarrow{\mathbf{v}}^{\mathbf{v}} \xrightarrow{\mathbf{v}} \xrightarrow{\mathbf{v}}^{\mathbf{v}} \xrightarrow{\mathbf{v}} \xrightarrow{\mathbf{v}}^{\mathbf{v}} \xrightarrow{\mathbf{v}}^{\mathbf{v}} \xrightarrow{\mathbf{v}}} \xrightarrow{\mathbf{v}} \xrightarrow{\mathbf{v}}} \xrightarrow{\mathbf{v}} \xrightarrow{\mathbf{v}} \xrightarrow{\mathbf{v}} \xrightarrow$ | |
| 14.80-15.25 | - | 11.80 (8.60) | | | | | | ly clayey ine to c | | | l is an | igular t | :0 | 14.80 | | 33.2 |
| 15.25-15.30 15.50-15.60 | - D - D | | | | | | X | | | | | | | 15.50 | | 32. |
| 16.00-16.45 | - - - - - - | 16.00 (12.60) | | | 531 | occas Grave | sional p | slightly pockets (ngular to lint. | up to | 5mm in | size) | of sand | l. : | | | |
| 16 90 16 00 | - - - - - - | | \langle | | | sandy low d | y slight lensity | ered as w ly grave and whit ngular to | elly SI e with | LT. Gra rare b | avel is black s | very w pecks. | reak, Flint | 16.20 | | 31.8 |
| 16.80-16.90 17.00-17.45 | | 17.00 (13.00) | 700 | 19 | | | | | | | | | | <u>-</u> - - | | |
| 17.45-17.50 17.80-17.90 | с - - - - - | | | | | | | | | | | | | - - | | , |
| 17.80-17.90 18.00-18.45 18.00-18.45 | | 18.00 (9.00) | | 22 | S28 | | | | | | | | | | | |
| 19.30-19.40 | - - - - - | | | | | | | | | | | | | | | |
| 19.50-19.95 19.50-19.95 | _ D | 19.50 (10.00) | | | S28 | | | | | | | | | t t | | 1 |
| | <u> </u> | | | | | | | Er | ld_of E | orehole | | | | 20.00 | | 28.0 |
| Boring Depth Hole | | Toobat | | C | Progre | Depth | Depth to | Dat- | Tim - | Depth | dwate Depth | Rose to | in | Depth | | rks on |
| Depth Dia | | Technique | | Crew | of Hole | Cased | Water | Date | Time | Struck | Cased | 1058 10 | Mins | Sealed | | dwater |
| | | | | | | | | | | | | | | | | |
| Remarks 🛺 | | | | | <u> </u> | | | | | | | <u> </u> | | Logg | | AS |
| Symbols and bbreviations are explained on the accompanying | | | | | | | | | | | | | | Figu | | DRB 2 of 2 19/11/2021 |
| ey sheet. Il dimensions re in metres. | Logged in | accordance | with BS59 | 30:2015 + | - A1:2020 | | | | | | | | | e | Deef | MEE \ |

| roject | EQUIN | OR FEEI | PHASE | 1 INVE | STIGATI | IONS | Enginee | ſ | J MURPHY | & SON | S LIMI | ſED | | Borel Projec | | | H18-55 | |
|---|------------------------------|--------------------|--------------------------------|-----------------|----------------|--------|----------------------------|-------------------------------|--|-------------------------|--------------------|--------------------------------|--------------|------------------------|---------|--------------|--|-------------------------|
| lient | | PHY & S | SONS LIN | | | | National Coordina | | 615473.3 303209.6 | | | | | Grour | nd Leve | | 3.47 M | |
| Sampli | ng | | Depth | Prope | | 1 | Strata | | | | | | | | 1 | | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | n w % | SPT N | Descript | ion | | | | | | | De | pth | Legend | Lev m OD |
| 0.10- 0.40- | 0.30 0.20 0.70 0.50 | _ | | | | | CLAY v | with od ional 1 unded 1 | rm dark b ccasional rootlets. fine to c | roots Grave | (up to l is an | o 5mm i ngular | n size to | andy e) and | - | 3.L. 0.40 | | 48 48 |
| | 1.70 | - - - - | 1.20 | | | 58 | Firm I CLAY v GraveI | light b with a l is an | prown sli low cobb ngular to tzite and | le con subro | tent of unded f | suban | gular | flint. | + | L.20 | | 47. |
| | 2.10 | - | (DRY) | | 16 | 50 | grave | lly CLA | nottled g AY. Grave halk, fli | l is a | ngular | to sub | | | | | | |
| | 2.10 | - | 1.50 | | 10 | | | | | | | | | | Ē | | | |
| 2.70- | 2.70 | в | (DRY) | | | | Below and fl | | , low cob | ble co | ntent o | of subr | oundec | l chalk | | | | |
| | 3.10 3.65 | - | 1.50 (DRY) | | | S8 | | | | | | | | | | | | |
| | 4.10 | - | | | | | | • | | | | | | | | | | |
| | 4.65 4.70 | - - - | 1.50 (DRY) | 75 | 16 | | | | X | | | | | | | | | |
| .70- .00- | 5.00 5.10 | в D | | | | | | | | • | | | | | Į. | | · · · · · · · · · · · · · · · · · · · | |
| .20- | 5.65 | - D - - - | 1.50 (DRY) | | | S14 | | Y | | | | | | | | | | , , , |
| 5.00- | 6.10 | D | | | | X | Below | 6.00m | , cobbles | absen | t. | | | | | 5.30 | ▼ · · · · · · · · · · · · · · · · · · · | 42 |
| 5.30- | 6.80 | | 1.50 (DRY) | | 14 | | Grave | | orown sli ıbangular lint. | | | | | | | | $\mathbf{\nabla}_{\mathbf{a},\mathbf{b},\mathbf{b},\mathbf{c},\mathbf{c},\mathbf{c},\mathbf{c},\mathbf{c},\mathbf{c},\mathbf{c},c$ | |
| 7.40- | 7.60 | - D | | | | | | | | | | | | | | | | , , , |
| 3.00- | 8.45 | D | 8.00 (7.00) | | | s31 | | | nottled b | | | | | | | 3.20 | ▼ · · · · · · · · · · · · · · · · · · · | 40 |
| 8.60- 8.60- | | - B - D | | | | | | | l is suba c and fli | | to sul | orounde | d fine | e to | E E | | | |
| 9.00- | 9.45 | <u>U</u> T80 | 8.50 (DRY) | | | | | | | | | | | | E E | | | |
| 9.80- | 9.50 9.90 | - | | | | | | | | | | | | | | | | |
| 0.00-1 | 10.50 | B | ļ | | | Droom | 055 | | | | Groue | dwate | r | | _ 10 | 0.00 | ∇ | 38 |
| epth | Hole | | Technique | e | Crew | Depth | Depth L | | Date | Time | Depth | Depth | r Rose t | oin | Dep | | | rks on |
| 1.20 0.00 | Dia 0.15 | Inspect | cion Pit Percussi | : | DC/LC DC/LC | 12.50 | 11.80 | DRY | 28/09/21 28/09/21 29/09/21 29/09/21 | 08:00 18:00 08:00 | 10.00 15.10 | Cased 1.50 8.50 11.80 | 6.30 8.20 |) 20 |) 8 | 3.50 | Groun Slow inf Fast inf Slow inf | low. |
| emark | ks 🖽 | Inspect | cion pit | hand | excavat | ed to | 1.20m de | epth an | nd no ser grout up | vices | were fo | ound. | | | | Logg | jed by | AS |
| mbols ar breviatio plained c company | nd ons are on the | Backfil | LI detai | lis fro | m base | of hol | .e: bento | onite g | grout up | to gro | und lev | <i>r</i> e⊥. | | | | | cked by 1 re : | DRB 1 of 19/11/20 |
| ompany / sheet. dimensi | . 0 | | | | | | | | | | | | | | | Ø | <u>eled</u> i | Me |

| Project _{EQUI} | NOR FEEI | D PHASE | 1 INVE: | STIGAT | IONS | Enginee | | J MORPH | Y& SON | S LIMII | ED | | Boreho Project | No F | H18-55 C218256 | |
|---|-------------------------|--------------------------------|-----------------|--------|------------------|----------------------------|-----------------------------|--------------------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-----------------|--|-----------------------------|
| Client _{ச M} ப | RPHY & S | SONS LIM | IITED | | | National Coordina | | 615473.3 303209.0 | | | | | Ground | Level 4 | | OD |
| Sampling | | - Freezik | Prope | | | Strata | | | | | | | | 1 | Scale 1 | :50 |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descript | ion | | | | | | | Depth | Legend | Level m OD |
| 10.00-10.45 | - D | 8.50 (8.20) | | | S20 | CLAY. | light Gravel e flint | brown si is angu | lightly ular to | sandy subrou | slight Inded f | ly grav ine to | relly | 10.00 | | 38.47 |
| 10.70-10.80 | D | | | | | | | | | | | | | E E | · · · · · · · · · · · · · · · · · · · | |
| 11.00-11.45 | | 11.00 (9.00) | 54 | 14 | | Grave | grey s l is an and ch | lightly gular to alk. | sandy subro | slight] unded f | y grav ine to | elly CI coarse | AY. | 11.00 | | 37.4 |
| 11.45-11.50 11.50-11.80 | | | | 15 | | | | | | | | | | - | · · · · · · · · · · · · · · · · · · · | |
| 11.80-11.90 12.00-12.45 | | 11.80 (DRY) | | | S18 | | | | | | | | | | | |
| 12.80-12.90 13.00-13.50 13.00-13.45 | В | 11.80 (DRY) | | | | | | | | | | | | | | |
| 13.45-13.50 | | | | | | | | ĺ | | | | | | | | |
| 14.30-14.40 | - - D | | | | | | | \mathbf{V} | | | | | | Ę | · · · · · · · | |
| 14.60-15.00 | в | | | | | | | | | | | | | - | · · · · · · · · · · · · · · · · · · · | |
| 14.60-15.05 | - D - - - - | 11.80 (DRY) | | | S22 | | | | | | | | | - - - | $\begin{array}{c} & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & &$ | |
| 15.40-15.50 | D | | | | | | | | | | | | | - | 0.0.0 | |
| 15.70-16.15 | - UT50 | 15.70 (15.00) | 54 | 14 | | | | | | | | | | - | | |
| 16.15-16.20 16.20-16.50 16.50-16.60 | | | | | | | | | | | | | | Ę | | |
| 16.70-17.20 16.70-17.15 | | 16.70 (16.00) | | | s 36 | Very s Gravel chalk. | l is su | lark grey bangula | y sligh r to su | tly gra brounde | velly d fine | sandy C to coa | LAY. rse | 16.70 | | 31.' |
| 17.50-17.60 | | | | 16 | | | | | | | | | | 17.50 | | 30.9 |
| 17.60-18.10 17.60-18.05 | | 17.60 (16.70) | | | C37 | CLAY. | Gravel | rey slig is angu and cha | lar to | | | | | F F | ······································ | |
| 18.10-18.50 | | | | | | | | | | -] | d | v | | 18.10 | | 30.: |
| 18.10-18.20 18.50-18.60 | F | | | | | _ | | lark grey 1, becom: | - | - | ay CLA | | | Ľ | | |
| 18.60-19.50 | - в - - | | | | | | | | | | | | | | | |
| 19.50-19.95 | UT90 | 19.50 (17.10) | 145 | 13 | | | | | | | | | | | | |
| 19.95-20.00 | D | | | | | | | | d of 7 | orehole | | | | 20.00 | | 28.4 |
| Boring | | | | | Progr | | | EI | | Groun | dwate | r | 1 | Dent | | |
| Depth Dia | | Technique | 9 | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| Remarks R | | | | | | | | | | | | | | Loa | ged by | AS |
| Symbols and bbreviations are explained on the accompanying | - | | | | | | | | | | | | | | cked by | DRB 2 of 2 19/11/2021 |

All dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020

| Project _{EQUI} | NOR FEE | D PHASE | 1 INVE | STIGATI | ONS | Engineer | J MURPHY | & SONS | LIMIT | ED | | Boreho Project | | H18-56 | |
|---------------------------------|------------------|----------------------|----------------------|--------------------|------------------|---|------------------------|-----------------------------|-------------------|----------------|------------------------|-------------------|-----------------|--|----------------------|
| lient _{JMU} | RPHY & | SONS LIN | | | | National Grid Coordinates | 615428.78 303186.77 | | | | | Ground | Level 49 | 9.13 m | |
| Sampling | Sample | Depth | Prope | | ODT N | Strata | | | | | | | 1 | Scale 1 | 1 |
| Depth | Туре | Cased & (to Water) | Strength kPa | % | SPT N | Description | | | | | | | Depth | Legend | Level m OD |
| 0.00- 0.20 0.10- 0.20 | | | | | | TOPSOIL: Fi CLAY with o many rootle | ccasional | roots (| (up to | 5mm i | n size) | and | G.L. | | 49.1 |
| 0.50- 0.80 | | | | | | fine to coa | rse flint | and qua | artzite | е. | | / | 0.50 | | 48.6 |
| | | | | | | Firm brown subangular and flint. | | | | | | | | · · · · · · · · · · · · · · · · · · · | = |
| 1.20- 1.70 1.20- 1.65 | | | | | | Firm brown | slightly s | andy gr | ravelly | y CLAY | . Grave | al is | 1.20 | 0 0 0 | 47.9 |
| 1.20- 1.65 | | 1.20 (DRY) | | | S7 | angular to flint and c | | fine t | to coai | rse qu | artzite | 2, | + + + | | |
| 2.00- 2.10 | _ D | | | 15 | | | | | | | | | <u>+</u> | • 0 • 0 • 0 • 0 | |
| 2.20- 2.65 | UT70 | 2.20 (DRY) | | | | | | | | | | | t T | ° · • • | - |
| 2.65- 2.70 | - - - D | | | | | | -h h | | | - 1 d a b b | 1 | | 2.60 | <u> </u> | 46.5 |
| 2.70- 3.00 3.00- 3.10 | в | | | | | Firm orangi very sandy fine to coa | CLAY. Grav | el is s | subangu | ular t | o subro | ounded | F F | | |
| | F | | | | | | | | | | | | ÷ | 0.000 | |
| 3.40- 4.50 | | | | | | Firm grey a | | | | | | | 3.40 | · · · · · · · · | 45.7 |
| 3.40- 3.50 3.40- 3.85 | | 3.00 (DRY) | | | S7 | gravelly CL to coarse c | | is ang | gular (| to sub | rounded | i fine | Ę | · · · · · | |
| | F | (211) | | | | | < / | | | | | | <u>+</u> | 0 0 0 0 0 0 | |
| | Ē | | | | | | X | | | | | | ţ | 0 0 0 0 0 | • |
| 4.50- 4.95 | _UT25 | 4.50 (DAMP) | 21 | 16 | | | | | | | | | F E | 0.0.0 | - |
| 4.95- 5.00 | - - D | | | | | | | | | | | | 5.00 | · · · · · | 44.1 |
| 5.00- 5.50 5.00- 5.10 | - в | | | | | Firm grey m gravelly CL | AY. Gravel | is sub | bangula | sandy ar to | slight] subrour | ly nded | - | <u> </u> | |
| 5.50- 5.95 | D | 5.50 | | | S10 | fine to med | ium chalk | and fli | int. | | | | ŧ F | | |
| | E | (DRY) | | | | | | | | | | | t L | 0 0 0 | • |
| | E | | | | X | | | | | | | | - | · · · · · · · · · · · · · · · · · · · | |
| 6.20- 6.30 | D | | | 14 | | | | | | | | | L L | · · · · | |
| 6.50- 7.00 6.50- 6.95 | | 6.00 | | | | * | | | | | | | + | 0.0.0 0.0.0 | |
| 6.95- 7.00 | D | (DRY) | | | | | | | | | | | F | 0 0 0 0 | • |
| 0.95- 7.00 | | | | | | | | | | | | | F | <u> </u> | |
| 7.30- 7.40 7.50- 7.95 | - D D | 6.00 | | | S9 | | | | | | | | <u>t</u> | ▼ .º: <u>•</u> . • | |
| | E | (DRY) | | | | | | | | | | | F E | • • • • • • • • • • • • • • • • • • • | |
| | – | | | | | | | | | | | | + | 0.00 | • |
| 8.30- 8.40 | D | | | | | | | | | | | | 8.30 | ∇ | 40.8 |
| | Ę | | | | | Firm dark g slightly gr | avelly CLA | Y. Grav | | | | ine | F | · · · · · · · · · · · · · · · · · · · |] |
| 8.70- 9.30 8.70- 9.15 | - В UT60 | 8.70 (7.50) | 125 | 11 | | to coarse c | halk and f | lint. | | | | | 9.00 | 0 0 0 0 0 | 40.1 |
| 9.15- 9.20 | - D | (7.50) | | | | Firm grey m gravelly CL | | | | | | | 9.00 | ······································ | 40.1 |
| 9.50- 9.60 | D | | | 13 | | to coarse c | | | | | | | ŧ | · · · · · | • |
| 9.70-10.15 | D | 9.70 | | | s10 | | | | | | | | ŧ | 0 0 0 0 0 |] |
| | F | (8.60) | | | | | | | | | | | <u>+</u> | · · · · · | - |
| Boring | + | 1 | • | | Progre | | | | Ground | | r | 1 | Dorth | | |
| Depth Dia | | Techniqu | | Crew | Depth of Hole | Depth Depth to Cased Water | Date | ^{Time} S | Struck | Depth Cased | Rose to | IVIIIIS | Depth Sealed | Groun | rks on dwater |
| 1.20 20.00 0.15 | | tion Pit Percussi | | DC/LC DC/LC | 5.00 18.80 | 4.50 4.50 18.00 9.60 | 23/09/21 27/09/21 | 18:00 1 08:00 1 18:00 | | | 7.50 11.50 13.00 | 20 20 20 | | Slow in Fast in Slow in | flow |
| Remarks 🔛 | A 50mm | standpi | ipe was | instal | 20.00 | | 28/09/21 | 18:00 | tted se | ection | from 1 | .00m to | > | | |
| Symbols and bbreviations are | 20.00m filter | with up up to 1 | pright 1 1.00m, 1 | lockabl bentoni | e prot | ective cover. to 0.30m, con | Backfill crete up t | details o groun | s from nd leve | base el. | of hole | e: grave | el Cheo Figu | re i | DRB L of 2 |
| explained on the accompanying | | | | | | | | | | | | | | | ᠆ᡥᡔᢇ |
| ey sheet. Il dimensions | | | | 30:2015 + | | | | | | | | | Ľ۲ | , perce | NNE |

A dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020

| , 1201 | NOR FEEL | PHASE | T INVES | STIGATI | LONS | Engine | | J MORPHI | C& SON | S LIWLI | ED | | Borehc Project | | BH18-56 PC218256 | |
|---|----------------|--------------------------------|-----------------|---------|------------------|--------------------|-------------------|-----------------------|---------------|-----------------|----------------|---------|--------------------------|-----------------|---|------------------|
| lient _{J Mun} | RPHY & S | ONS LIN | IITED | | | Nationa Coordir | al Grid | 615428.7 | 78 E 774 N | | | | Ground | Level 4 | 49.13 m | OD |
| Sampling | | | Proper | ties | | Strata | | | / = | | | | oround | 2010. | Scale 1 | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| | - | | | | | Belov | v 10.20m | n, becomi | ing san | dy. Mot | tling | absent. | | - | · · · · · · | |
| 10.20-10.50 | в | | | | | | | | | | | | | - | | |
| 10.50-10.60 | _ D | 10.00 | | | | Firm | dark gr | rey sligh | tly sa | ndy sli | ightly | gravell | У | 10.50 | | 38.6 |
| 10.70-11.15 | 0145 | 10.20 (DRY) | | | | | | is angu and fli | | subrou | inded I | ine to | | - | 0.00 | |
| 11.15-11.20 | D | | | 12 | | | | | | | | | | - | · · · · · · | · • |
| 11.50-11.60 | D | | | | | | | | | | | | | Ę | V | |
| 11.70-12.20 11.70-12.15 | - В D | 10.20 | | | S7 | | | | | | | | | Ę | 0 0 0 0 0 | • |
| 11.70-12.15 | | (DRY) | | | 57 | | | | | | | | | - | ······································ | |
| | - | | | | | | | | | | | | | - E | \mathbf{v}_{\circ} | |
| 12.50-12.60 | _ D | | | | | Below | / 12.50m | n, becomi | ing san | dy. | | | | F | · · · · · · · · · · · · · · · · · · · | |
| L2.80-13.25 | UT55 | 12.80 (DRY) | 99 | 12 | | | | | | | | | | F | | |
| 13.25-13.30 | - - D | (DRI) | | | | | | | | | | | | - | × • • • • • • • • • • • • • • • • • • • | |
| 13.30-13.60 | в | | | | | Below | v 13.50m | n, becomi | lng sti | ff. | | | | - | 0 0 0 | • |
| L3.60-13.70 | - D | | | | | | | | 5 | | | | | - | ∇ | |
| L3.80-14.25 | _ D | 13.80 (13.00) | | | s23 | | 4 | | | | | | | Ę | | • |
| | - | | | | | | | | | | | | | - | | |
| 4.50-14.60 | D | | | | | | | | | | | | | - | ······································ | |
| 4.80-15.30 | в | | | | | | | | | | | | | - | · · · · · · · · · | • |
| 4.80-15.25 | _UT50 | 14.80 (14.50) | | | | | | | | | | | | - | • <u> </u> | |
| 15.25-15.30 | - D | | | | | | X | | | | | | | Ę | · · · · · | |
| 15.70-15.80 | - - D | | | 14 | | | | | | | | | | - | <u> </u> | |
| 16.00-16.45 | D | 16.00 | | | 518 | | | | | | | | | - | · · · · · | · · |
| | - | (15.60) | | | | | | | | | | | | - | <u> </u> | |
| 16.30-16.60 | в | | | | | | | | | | | | | F | · · · · · · | |
| 16.70-16.80 | D | | | | | | | | | | | | | - | · · · · · · · · | |
| 17.10-17.55 | - UT60 | 17.10 | | | | | | | | | | | | - | · · · · · · · · · · · · · · · · · · · | |
| | - | (16.60) | | | | | | | | | | | | + - - | · · · · · | |
| 17.55-17.60 17.70-17.80 | - D - D | | | | | | | | | | | | | - | · · · · · · · · · · · · · · · · · · · | |
| 17.80-18.10 | в | | | | | | | | | | | | | + | · · · · · · | |
| 18.10-18.80 18.20-18.65 | - D - D | | | | | | | | | | | | | F | · · · · · · | |
| 18.21-18.66 | - | 18.00 (17.60) | | | S22 | | | | | | | | | - | 0 0 0 0 0 | |
| 18.80-19.00 | в | | | | | Light | grev s | andy sli | ahtly | clavev | GRAVEL | Grave | lis | 18.70 | 0 0 0 0 | 30.43 |
| 19.00-19.10 19.00-19.10 19.00-19.45 | D | 19.00 | | | C22 | angul | ar to g | subrounde | ed fine | to coa | arse fl | int. | _ 10 | 19.00 | | 30.13 |
| | - | (9.00) | | | | sligh | ntly gra | ered as g welly SI | LT. Gr | avel is | s very | weak, l | | ŧ | | |
| 19.50-19.60 | _ D | | | 20 | | | sional f | te with lint gra | | | | | | F | | |
| 19.90-20.00 | D | | | | | coars | | | | | | | | 20.00 |) | 29.13 |
| Boring | | | | | Progre | ess | | Er | nd of B | | a ndwate | r | | | | |
| Depth Dia | | Techniqu | е | Crew | Depth of Hole | Depth | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| | | | | | | 54304 | | | | CUDON | 54564 | | 61113 | Coulou | Groun | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Remarks 💂 | | | | | | | | | | | | | | | | |

abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

metres. Logged in accordance with BS5930:2015 + A1:2020

| oject | EQUII | IOR FEE |) PHASE | 1 INVES | STIGATI | IONS | Enginee | er | J MURPHY | & SON | S LIMI | TED | | Boreho Project I | | H19-57 | |
|---|-------------------------|-----------------------|-----------------------|-----------------|---------------|-----------------|------------------------|-----------------------------|------------------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------|--|-----------------------|-------------------|----------------------------------|
| ient | | RPHY & | SONS LIN | | | | Nationa Coordin | ates | 617093.63 303351.6 | 13 E 75 N | | | | Ground | Level 4 | | OD |
| ampli | ing | Comple | Depth | Prope | | | Strata | | | | | | | | | Scale 1 | |
| Depth | | Sample Type | Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Leve m OD |
| | 0.30 0.20 | - B D | | | | | TOPSO | IL: So | Et brown | sandy | clay wi | ith man | ny rootl | ets. | G.L. | | 46.0 |
| | 0.70 0.50 | - B - D | | | | | | l is a | own grave ngular to | | | | | 1 | 0.40 | | 46. |
| 1.00- | 1.20 1.10 1.70 | - В - Д - В | | | | | | | | | | | | • | | 0 | |
| 1.20- | 1.65 1.40 | | 1.20 (DRY) | | | C12 | Grave flint | lisa: • | sh brown a ngular to | subro | unded f | ine to | coarse | | 1.30 | | 45. |
| 2.10- | 2.00 2.60 2.55 | - D - B - D | 1.50 (DRY) | | 15 | S12 | **Bel | ow 1.9 | Om, drill | ers no | te sand | ly laye | ers. | | - | | |
| 2.90- | 3.00 | - - - - D | | | | | | | | | | | | | - - - - - | | |
| | 3.75 | - - - - | 3.00 (DRY) | | | S7 | **Bel | ow 3.6 | Om, drill | er not | es chal | lk grav | vel. | - - - - - - - - - - | - | | |
| 3.80- 4.00- | 4.00 3.90 4.10 | - D | | | | | \ sligh | tly gra | greyish i avelly sat | ndy CL | AY. Gra | avel is | s subang | wn ular / | 3.80 | | 42. 42. |
| | 4.70 4.65 | | 4.20 (DRY) | | | S26 | Mediu very subro | m dens clayey unded : | e light g SAND. Gr Eine to c | reyish ivel i parse | brown s subar flint a | slight ngular and cha | ly grav to alk. | elly | - | | |
| | 5.10 6.20 | D В | | | | | | 4.20m 20m, de | , driller ense. | notes | ciay] | layers. | | | | 0.00 | |
| | 5.65 | | 5.20 (4.60) | | | S36 | | | | | | | | - - - - - | - | | |
| | 6.10 | | c | | | | | | | | | | | | - | <u>.</u> | |
| 6.70- | 6.65 | В | 6.20 (5.00) | | | 520 | | | | | | | | | - | | |
| | 7.10 | D | | | | | | | | | | | | | - - - | 0 | |
| 7.30- | 7.75 | D | 7.30 (6.00) | | | S11 | | | | | | | | | - | | |
| 8.00- | 8.10 | - D | | | | | | | | | | | | • | - - - - | | |
| 8.50- 8.50- | | В D | 8.50 (6.60) | | | S19 | sligh | tly sam | greyish indy grave | lly CL | AY. Gra | avel is | s subang | | 8.50 | | 38. |
| 9.00- | 9.10 | с - р - | | | 17 | | to ro | unded : | Eine to c | barse | r⊥int a | and cha | ulK. | | <u>-</u> | | |
| 9.50- | 9.95 | _UT35 | | 74 | 16 | | | | | | | | | • | - | | |
| | 10.00 | D | | | | | | | | | | | | | 10.00 | | 36. |
| oring | Hole | | Teabri | | 0 | Progre | | Depth to | Dette | т: | Grour Depth | ndwate Depth | 1 | in | Depth | Rema | rks on |
| epth 1.20 | Dia | | Technique | : | Crew DC/LC | of Hole G.L. | Cased | Water DRY | 22/09/21 | | Struck | Cased | Rose to | Mins | Sealed | Groun | dwater ounter |
| 5.45 | | | Percussi | | DC/LC | | 15.00 | DRY 10.50 | 22/09/21 23/09/21 23/09/21 | 08:00 18:00 | | | | | | during b | oring. |
| emarl mbols a breviatio plained o company | nd ons are on the | Water v | vas adde | ed to as | ssist k | ooring | between | 4.70 | nd no ser and 15.00 grout up | n. | | | | | | cked by 1 re : | AM DRB L of 2 19/11/202 |

| Project _{EQU} | INOR FEE | D PHASE | 1 INVE | STIGAT | IONS | Engineer | ŭ | J MURPHY | & SONS | LIMI | ED | | Boreho Project | No ₽C | H19-57 | |
|---------------------------------------|------------|------------------|---------------|--------|------------------|----------------------------|-----------------|-----------------------|-------------------|-------------------|------------------|---------|-------------------|-----------------------|-----------------|--------------------|
| Client ,т м | | | | | | National Gr Coordinates | rid | 617093.6 | 13E | | | | | | | |
| Sampling | URPHY & | SONS LIN | ITED Prope | rties | | Strata | S : | 303351.6 | 75 N | | | | Ground | Level 46 | Scale 1: | |
| Depth | Sample | Caseu a | Strength | | SPT N | Description | | | | | | | | Depth | Legend | Level |
| | Туре | (to Water) | кра | % | | | | | | | | | | | | m OD |
| 10.00-10.1 | 0 D | | | | | Very den Gravel i | se l: .s sul | ight grey bangular | yish br to rou | own gr inded m | avelly medium | and coa | arse | 10.00 | 0 | 36.69 |
| 10.40-10.9 10.40-10.8 | | 10.40 | | 11 | C50 | flint. | | | | | | | | È I | | |
| 10.40-10.0 | - | (8.20) | | | 250 | | | | | | | | | É I | 0.00 | |
| 11.00-11.1 | 0 _ D | | | | | | | | | | | | | F | | |
| | | | | | | | | | | | | | | Ę | 00 | |
| | - | | | | | | | | | | | | | Ē | 0 | |
| 11.80-12.3 11.80-12.2 | | 11.80 | | | C50/ | | | | | | | | | £ | | |
| | - | (8.70) | | | 275 | | | | | | | | | ŧ I | 0 | |
| 12.30-12.4 | 0 D | | | | | | | | | | | | | ÷ I | | |
| | Ē | | | | | | | | | | | | | Ę | 0.00 | |
| 13.00-13.4 | 3 | 13.00 (9.50) | | | C50/ 275 | | | | | | | | | F | | |
| 13.30-13.7 | 0 в | | | 6.7 | | | | | | | | | | Ę | o | |
| 13.70-13.8 | - 0 - D | | | | | | | | | | | | | ŧ I | 0 0 | |
| 15170 1510 | | | | | | | | | | | | | | È I | | |
| | - | | | | | | | | | | | | | ŧ I | 0 | |
| 14.50-14.9 | 5 | 14.50 (10.50) | | | C32 | | | | | | | | | ÷ I | | |
| | - | (10.50) | | | | | | | | | | | | Ę | | |
| 14.90-15.0 | 0 <u>D</u> | | | | | | | | | | | | | E | | |
| | - | | | | | | | | | | | | | ‡ | | |
| | - | | | | | | | End | l of Bo | rehole | 9 | | | 15.45 | | 31.24 |
| | - | | | | | | * | | | | | | | È I | | |
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| Boring | | | | | Progre | ess | | | | Groun | idwate | r | | | | |
| Depth Dia | e | Techniqu | e | Crew | Depth of Hole | Depth Dep | th to ater | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | Remar Ground | |
| | • | | | | | | | | | JUNCK | Jased | | IVIIIIS | Julieu | Ground | |
| | | | | | | | | | | | | | | | | |
| Remarks | | | | | | | | | | | | | | 1 | od by | |
| Symbols and | 65 | | | | | | | | | | | | | Logg Chec Figur | ked by I | M DRB 2 of 2 |
| abbreviations are explained on the | | | | | | | | | | | | | | | | 9/11/2021 |
| accompanying key sheet. | | | | | | | | | | | | | | ē | n | nies |

All dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020

| roject _{EQT} | JINOR FE | ED PHASE | 1 INVE | STIGATI | IONS | Enginee | | J MURPHY | | S LIMI | TED | | Boreho Project | | H19-58 | |
|--------------------------------|--------------------|------------------------------------|---------------------|-------------------|-------------------------------|--------------------|-------------------|--|-----------------|------------------|---------|---------|-------------------|-----------------|--|---------------------|
| | URPHY & | SONS LI | | | | Nationa Coordin | ates | 617401.2 303352.4 | | | | | Ground | Level 40 | | |
| Sampling | - | | Prope | | 1 | Strata | 1 | | | | | | | | Scale 1 | :50 |
| Depth | Samp Typ | | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Leve m OD |
| 0.00- 0.5 | 50 - в | | | | | TOPSO | IL: Sof | t brown | sandy | clay w | ith mar | ny root | lets. | _ G.L. | | 40. |
| 0.20 | | | | | | | | | | | | | | F | | |
| 0.50- 1.0 0.50 | - D | | | | | | l is an | wn grave gular to | | | | | | - 0.50 - | | 40 |
| L.00- 1.2 | - | | | | | | | angish b | | | | | | 1.00 | ····· | 39 |
| L.20- 1.6 L.20- 1.6 | | NIL (DRY) | | 11 | S14 | | e flint | is angu | lar to | SUDIO | unded 1 | tine to | | | | |
| 2.00- 2.4 2.00- 2.4 | | | | | | Below | 7 2.00m, | becomin | g stif | f. | | | | | | |
| 2.00- 2.4 | | 1.90 (DRY) | | | C18 | | | | | | | | | - | ···· | |
| | - | | | | | | | | | | | | | - | · · · · · · · · · · · · · · · · · · · | |
| 8.00- 3.4 | | | | | | | | | | | | | | - | ······································ | |
| .00- 3.4 .00- 3.4 .20 | | 2.90 (DRY) | | | C29 | Mediu | m dense | brown g | andy G | RAVEL | with o | ccasion | al | 3.20 | · · · · · · · | 37 |
| | Ē | | | | | cobbl | es of f | lint. Gr arse fli | avel i | | | | | ⊨ - + | · · · · | |
| .00- 4.4 | | | | 3.9 | | | | | | | | | | <u>+</u> | | |
| .00- 4.4 .00- 4.2 | | 3.90 (0.50) | | | C50/ 105 | | | \mathbf{V} | | | | | | Ē | ° ° ° | 1 |
| | Ē | | | | | | | | | | | | | E | | |
| .00- 5.4 | | | | | | | | | • | | | | | <u>⊦</u> | 0 0 0 | |
| .00- 5.4 .00- 5.4 | | 4.80 (0.50) | | | C18 | | V | ~ | | | | | | ŧ | | |
| | | (0.00) | | | | | | | | | | | | Ē | ° ° ° | |
| .00 | - _ р | | | | | | | | | | | | | E_ | | |
| | Ę | | | | | | | | | | | | | 6.40 | | 34 |
| .40 .50- 6.9 | | 6.00 | | | G24 | Grave | l is an | slightly gular to | | | | | | | | |
| 5.50- 6.9 5.90 | р5 <u>-</u> р | 6.30 (0.50) | | | C24 | | m dense | light b | | | | | | 6.90 | ···· | 33 |
| | F | | | | | | Gravel e flint | is suba | ngular | to sul | brounde | ed medi | um and | + - | 0.000 | |
| | - | | | | | | | | | | | | | F | | |
| 8.00- 8.4 | ь 15 в | | | | | | | | | | | | | E | 0 | |
| .00- 8.4 | | 7.50 (DRY) | | | S13 | | | | | | | | | Ę | | 1 |
| | - - | | | | | | | | | | | | | <u>+</u> - | 0 · · · · · | |
| .00 | - _ D | | | | | | | | | | | | | Ē | | |
| | | | | | | | | | | | | | | F F | 0 | 1 |
| 0.50- 9.9 0.50- 9.9 | 95 D | 9.00 | | | S19 | | | | | | | | | 9.60 | | 31 |
| .60 | - D | (DRY) | | | | grave | lly sli | dark or ghtly cl d fine a | ayey S | AND. G | ravel i | | | F F | 0 | 1 |
| oring | | | | | Progre | ļ | | u | | | ndwate | er | | <u> </u> | | 1 |
| epth Dia | а | Techniqu | | Crew | Depth of Hole | Cased | Depth to Water | Date | Time | Depth Struck | | Rose to | o in Mins | Depth Sealed | Ground | rks on dwater |
| .20 | | ection Pit Percuss: | | CD/MN CD/MN | G.L. 2.45 2.45 15.45 | 2.80 | DRY | 27/09/21 27/09/21 28/09/21 28/09/21 | 18:00 08:00 | | | | | | None enc during b | |
| marke | Inspe | action ni | t hand | excavat | | | | | | | ound | | | | | |
| marks | AGS Water Backf | ection pit was add ill deta: | ed to a ils from | ssist h m base | oring of hol | between e: bent | 3.20-7 onite g | .00m and rout up | 9.60- to gro | 15.00m und le | vel. | | | | ked by I | AM DRB L of 2 |
| reviations ar lained on the | | | | | | | | | | | | | | , igu | | 9/11/20 |
| ompanying sheet. | | | | | | | | | | | | | | ļ | Diedi | <u>mia</u> |
| dimensions in metres. | Logged | in accordance | e with BS59 | 30:2015 + | A1:2020 | | | | | | | | | _ | 7 | |

| BOREH | OLE | REC | ORD |) – | Cab | le Pe | ercus | sion | | | | | | | | |
|---|---------------------------------|--------------------------------|-----------------|-----------|------------------|--------------------|----------------|------------------------------------|----------------|--------|----------------|---------|-------------------|------------------|--------------------|-----------------------------------|
| Project EQUI | NOR FEEI | D PHASE | 1 INVES | STIGAT: | IONS | Enginee | er | J MURPHY | Z& SON | S LIMI | red | | Boreho Project | No 1 | BH19-58 C218256 | |
| Client T MI | RPHY & S | SONS LT | TTED | | | Nationa Coordin | l Grid ates | 617401.3 | 247 E 466 N | | | | - | Level 4 | 10.72 m | OD |
| Sampling | | | Proper | ties | | Strata | | | | | | | | | Scale 1 | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 11.00-11.45 11.00-11.45 | - B - D | 10.50 (DRY) | | | C17 | | | | | | | | | | | |
| 12.10 12.50-12.95 | - D - UTF - 19 | 12.30 (0.50) | | | | sligh | tly gra | ered as 1 avelly S ownish cr | LLT. Gr | avel i | s very | weak, 1 | ow | - - - - | | 28.62 |
| 13.00 | | | | 20 | | | | | | | | | | | | |
| 14.00-14.45 14.00-14.45 | - - - - - - - | 13.90 (0.50) | | | S14 | | | \langle | | | | | | | | |
| 15.00-15.45 | | 14.80 (0.50) | | | S13 | | | | | | | | | - 15.4 | 2 | 25.27 |
| Boring Death Hole | | | | | Progre | | Depth to | | | | ndwate | 1 | in | Depth | Rema | rks on |
| Depth Dia | | Techniqu | e | Crew | Depth of Hole | Cased | Water | Date | Time | Struck | Depth Cased | Rose to | Mins | Sealed | | dwater |
| Remarks Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres. | - | accordance | with BS59 | 30:2015 + | + A1:2020 | | | | ļ | | | | | Fig | ecked by ure | AM DRB 2 of 2 19/11/2021 |

 Project
 EQUINOR FEED PHASE 1 INVESTIGATIONS
 Engineer
 J MURPHY & SONS LIMITED
 Borehole

 Client
 J MURPHY & SONS LIMITED
 National Grid
 619225.829 E
 Ground Levent

 Sampling
 Properties
 Strata
 Strata

 ble
 BH20-59

 ct No
 PC218256

| Client | | RPHY & S | SONS LIN | | | | National Grid 619225.829 E Coordinates 302589.836 N Ground | Level 2 | | |
|---------------------------------------|--------|----------------|--------------------------------|-----------------|-------------------|-----------------|---|-------------|---|---------------|
| Sampl | ing | | Depth | Prope | | T | Strata | 1 | Scale 1 | |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Description | Depth | Legend | Level m OD |
| | 0.40 | В | | | | | TOPSOIL: Brown clayey sand with many rootlets. | G.L. | | 22.51 |
| 0.20 | 1.00 | D B | | | | | Brown slightly clayey gravelly SAND. Gravel is | 0.40 | | 22.11 |
| 0.40- | 1.00 | - 5 | | | | | subangular to subrounded fine and medium flint. Between 0.50-2.00m, becoming orangish brown. | - | | |
| | | E_ | | | | | | È. | | |
| | 1.65 | в | | | | | Below 1.20m, medium dense. | E E | | |
| 1.20- | 1.65 | _ D | NIL (DRY) | | | s15 | | - | | |
| 1.80 | | - D | | | | | | 1.80 | × • • • • • • | 20.71 |
| | 2.45 | _ В - D | 1.90 | | 11 | S21 | Stiff brown mottled orangish brown slightly sandy gravelly SILT. Gravel is subangular to subrounded | F | × ; , , × , , , , , , , , , , , , , , , | |
| | | Ę | (DRY) | | | | fine to coarse flint. | - | | |
| | | Ę | | | | | | Ę | × × × × × × | |
| 3.00- | 3.45 | _ | 2.90 | | | | | - | × × · · × × · × · × | |
| | | L | (DRY) | | | | | E E | × • × * * * * * * * * * * * * * * * * * | |
| 3.50 | | D | | | | | | | × × × × × | 18.91 |
| 3.60 | | | | | | | Medium dense grey very sandy slightly silty GRAVEL with occasional pockets (up to 50mm in size) of | 3.60 | * • • • • | 10.91 |
| | 4.45 | В D | | | | | grey clay. Gravel is subangular to subrounded fine to coarse flint. | - | · · · · · · · · · · · · · · · · · · · | |
| 4.00- | 4.45 | E | 3.70 (DRY) | | | C20 | | t t | × · · · · | |
| | | L | | | | | | - | , o | |
| 5.00- | 5.45 | в | | | | | | 5.00 | · · · · · · · · · | 17.51 |
| 5.00- | 5.45 | - D | 4.50 | | | s25 | Stiff brown slightly sandy gravelly CLAY. Gravel is subangular to subrounded fine to coarse flint. | - | ····· | |
| | | F | (DRY) | | | | | F F | · · · · · · · · | |
| | | E | | | | | | Ę | · · · · · · · · | |
| 6.00 | | _ D | | | | | | <u>+</u> | ····· | |
| | | L | | | | | | 6.40 | ···· | 16.11 |
| 6.40 6.50- | 6.95 | _ D - UTF | 6.30 | | 21 | | CHALK recovered as greyish white slightly sandy slightly gravelly SILT. Gravel is very weak, low | - | | |
| 7.00 | | - 18 D | (0.50) | | | | density, greyish white with frequent black specks. | F | | |
| | | F | | | $\mathbf{\nabla}$ | | | F | | |
| | | E | | | · · | | | E E | | |
| | | E | | | | | | | | |
| | 8.45 | B D | 7.70 | | | S13 | | <u></u> | | |
| | | L | (0.50) | | | | | E E | | |
| | | F | | | | | | F | | |
| 9.00 | | - D | | | 24 | | | F | | |
| | | F | | | | | | F | | |
| | 9.95 | в | 0.00 | | | a 1 0 | | Ę | | |
| 9.50- | 9.95 | - D | 9.30 (0.50) | | | S12 | | Ę | | |
| 10.00 | | D | | | | | | È. | | - |
| Boring | Hole | | | • | | Progre | Denth Denth to Denth Denth _ in | Depth | Remai | ks on |
| Depth 1.20 | Dia | | Technique | | Crew CD/MN | of Hole G.L. | Cased Water Date Time Struck Cased Rose to Mins | | | dwater |
| 15.45 | 0.15 | | Percussi | | CD/MN CD/MN | 8.45 8.45 | 9.00 DRY 29/09/21 18:00 9.00 DRY 30/09/21 08:00 | | during b | |
| | | | | | | | 15.45 0.50 30/09/21 18:00 | | | |
| Remar | ks 🔐 | Water w | vas adde | ed to a | ssist 1 | boring | petween 9.00-15.00m. .20m depth and no services were found. | | <u> </u> | |
| Symbols a | and | Backfil | ll detai | ils fro | m base | of hol | :: bentonite grout up to ground level. | Che Figu | re 1 | DRB L of 2 |
| abbreviation explained accompan | on the | | | | | | | | | 9/11/2021 |
| key sheet. All dimens | | | | | | | | e | Sejecié | T |
| are in met | | Logged in | accordance | e with BS59 | 30:2015 + | + A1:2020 | | | | |
| | | | | | | | | | | |

| Project EQUIN | | | | | | Enginee | | J MURPH | ∕& SON | S LIMI | red | | Boreho Project | ole No | BH20-59 | |
|---|--|--|-----------------|---------|------------------|--------------------|-------------------|--------------------|----------------|-----------------|----------------|----------|-------------------|-----------------|----------|-----------------------------|
| Client , MIT | a vug | SONS LIN | 17780 | | | Nationa Coordin | I Grid | 619225. 302589. | 829 E 836 N | | | | | | 22.51 M | OD |
| Sampling | Arni a i | | Proper | ties | | Strata | | 502505. | 55014 | | | | Ground | Lever | Scale 1 | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Level m OD |
| 11.00 11.00-11.45 12.00 12.50-12.95 13.00 14.00 14.00-14.45 15.00-15.45 | D UTF 16 D D D UTF 19 | 10.80 (0.50) 12.20 (0.50) 13.70 (0.50) 14.90 (0.50) | | 24 | \$13 | | | E | nd of B | orehold | | | | | 5 | 7.06 |
| Boring | - | | | | Progre | ess | | | | Grour | ndwate | r | | - | | |
| Depth Hole Dia | | Techniqu | e | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | Depth Cased | | in Mins | Depth Sealed | | arks on ndwater |
| | | | | | | 20300 | | | | | Juseu | | 11113 | | Grou | |
| Remarks Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres. | Logged in | accordance | with BS500 | 20-2015 | 1 | <u> </u> | | | ļ | L | <u>ļ</u> | <u> </u> | <u>ļ</u> | Fiç | | DRB 2 of 2 19/11/2021 |

| roject | EQUIN | IOR FEEL |) PHASE | 1 INVE | STIGAT | IONS | Enginee | er | J MURPHY | & SON | S LIMIT | red | | Bor Proj | ehole ect No | | H20-60 | |
|-------------------|-----------------|--------------------|--------------------------------|-----------------|-------------------|------------------|-------------------------|--------------------|------------------------------------|------------------|--------------------|-------------------|------------------|--------------------|-----------------|-----------------|----------------------|----------------------------|
| lient | | PHY & S | SONS LIN | | | | Nationa Coordin | ates | 619392.4 302526.2 | | | | | Gro | und L | evel 26 | | OD |
| Sampl | ing | Comula | Depth | Prope | | | Strata | | | | | | | | | | Scale 1 | 1 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descript | tion | | | | | | | | Depth | Legend | Leve m OD |
| 0.00- | 0.50 | В | | | | | TOPSO | IL: Dar | rk brown mal root | slight | ly grav Gravel | velly s | silty | sand ar to | - | G.L. | | 26. |
| 0.50- | 1.20 | в | | | | | subro | unded f | ine to m | edium | flint a | and qua | artzit | e. | F | 0.50 | | 26. |
| 0.50 | | - D - - | | | | | Light suban quart | gular t | slightly o subrou | grave nded f | lly sil ine to | lty SAN medium | ID. Gr h flin | avel : t and | is - | | | |
| | 1.65 | B | NIL | | | s13 | Mediu | m dense | e dark br | own sl | ightly | gravel | ly cl | ayey | Ē | 1.20 | | 25 |
| L.60 | | - D | (DRY) | | | | SAND | with a l is su | low cobb bangular | le con | tent of | subro | ounded | flin | | 1.60 | | 25 |
| | 2.45 2.45 | В D | 1.90 (DRY) | | | S17 | with a | a high | e orangis cobble c subangula | ontent | ofat | lint. | Grave | SAND l is | - | | 0 | |
| | | - | (DRI) | | | | | | becomin | | | | | | - | | | |
| | | E | | | | | | | | | | | | | Ē | | 0 | |
| | 3.45 3.45 | В D | 2.90 (DRY) | | | S21 | | | | | | | | | - | | | |
| 3.30 | | D | (DRI) | | | | CHALK | recove | ered as b | rownis | h cream | n sligł | ntly s | andy | | 3.30 | | 23 |
| | | F | | | | | sligh densi | tly gra ty, bro | welly SI wnish cr | LT. Gr eam wi | avel is th freq | s very nuent h | weak, black | low speck | s | | | |
| | 4.45 4.45 | В D | 3.00 (DRY) | | 25 | S23 | | • | | | | | | | Ē | | | |
| | | F | (2017) | | | | | | X | | | | | | - | | | |
| | | E | | | | | | | | | | | | | Ē | | | 1 |
| 5.00- | 5.45 | _UT17 | 4.50 (DRY) | | | | | | | | | | | | Ē | | | |
| 5.50 | | D | | | | | | | | | | | | | Ę | | | |
| | | F | | | | | | | | | | | | | Ę | | | |
| | | E- | | | | | | | | | | | | | Ē | | | |
| | 6.95 | _ в | c 20 | | | | | | | | | | | | Ę | | | |
| 5.50- | 6.95 | - D | 6.30 (0.50) | | | s12 | | | | | | | | | Ę | | | |
| 7.00 | | _ D | | | | | | | | | | | | | Ē | | | |
| | | - | | | | | | | | | | | | | Ļ | | | |
| | | F | | | | | | | | | | | | | Ę | | | |
| B.00 B.00- | 8.45 | D UTF 17 | 7.80 (0.50) | | 23 | | | | | | | | | | - | | | |
| | | | (0.50) | | | | | | | | | | | | - | | | |
| | | F | | | | | | | | | | | | | Ę | | | |
| 9.00 | | _ D | | | | | | | | | | | | | F | | | |
| | 9.95 | В | 9.20 | | | s10 | | | | | | | | | ŧ | | | |
| | 2.30 | - D | (0.50) | | | 510 | | | | | | | | | Ē | | | |
| o.oo | 1 | _ D | | | | Progre | 255 | | | 1 | Groue | ndwate | r | | | | | |
| epth | Hole Dia | | Technique | е | Crew | Depth of Hole | Depth | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose | | | Depth Sealed | | rks on dwater |
| 1.20 7.00 | | Cable H | ion Pit Percussi | lon | | G.L. 7.00 | 7.00 | | 04/10/21 06/10/21 | 18:00 | | | | | | | None enc during b | ounter |
| 5.45 | | Cable H | Percussi | lon | | 7.00 15.45 | 15.00 | 0.50 | 05/10/21 05/10/21 | | | | | | | | | |
| emar | ks 🔛 | Inspect | ion pit | hand o | excavat | ted to | 1.20m d | epth ar | nd no ser and 15.00 | vices | were fo | ound. | | | | Loan | ed by | CR |
| mbols a | | water v Backfil | vas adde 1 detai | lls from | ssist 1 m base | of hold | e: bent | onite g | nd 15.00 prout up | m. to gro | und lev | /el. | | | | Chec Figur | ked by 1 e : | DRB 1 of 2 19/11/202 |
| olained compar | on the lying | | | | | | | | | | | | | | | | $\overline{}$. | 0 |
| sheet | sions | | | | | | | | | | | | | | | E | | nng |

| Project EQUIN | NOR FEEI | | | | | Enginee | | J MURPHY | & SON | S LIMI | red | | Boreho Project | No | BH20-60 PC218256 | |
|---|--|--|-----------------|---------|-----------|--|----------------|----------------------|----------|---------|----------------|----------|-------------------|--------|---------------------|-----------------------------------|
| Client , MIII | RPHY & S | SONS LT | 1TTED | | | National Coordina | l Grid ates | 619392.4 302526.2 | 92E | | | | Ground | l evel | 26.65 m | OD |
| Sampling | | | Prope | | | Strata | | | | | | | oround | 2010. | Scale 1 | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descript | tion | | | | | | | Depth | Legend | Level m OD |
| 11.00 11.00-11.45 12.00 12.50-12.95 13.00 14.00 14.00-14.45 15.00-15.45 | - 19 - D - D - D - UTF - 14 | 10.70 (0.50) 12.20 (0.50) 13.90 (0.50) 14.90 (0.50) | | 28 | 59 S12 | | | Er | d of B | orehold | | | | | | 11.20 |
| Boring Depth Hole Dia | | Techniqu | e | Crew | Depth | Depth I | Depth to | Date | Time | Depth | Depth Cased | | in | Depth | | irks on |
| Deptri Dia | | . comiqu | ~ | SIEW | of Hole | Cased | Water | Date | | Struck | Cased | | Mins | Sealed | Groun | dwater |
| Remarks Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres. | Logged in | | | 20-2045 | 1 | <u> </u> | | | <u> </u> | | <u> </u> | <u> </u> | <u> </u> | Fig | ecked by ure | CR DRB 2 of 2 19/11/2021 |

| roject _{EQUI} | NOR FEE | D PHASE | 1 INVE | STIGATI | IONS | Enginee | er | J MURPHY | & SON | S LIMI | TED | | Boreho Project | | BH21-61 PC218256 | |
|--|---|---|----------------------------|---|--|--|--|--|-------------------------------------|---|-----------------------------------|-----------|--------------------------|-----------------|--|----------------------------------|
| lient _{J MU} | RPHY & : | SONS LIM | | | | Nationa Coordin | ates | 621885.9 301730.5 | | | | | Ground | Level : | | OD |
| Sampling | | Depth | Prope | | | Strata | | | | | | | | 1 | Scale 1 | :50 |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | tion | | | | | | | Depth | Legend | Leve m OD |
| 0.00- 0.30 0.00- 0.10 0.30- 0.60 0.30- 0.40 0.60- 1.00 0.60- 0.70 | B D B | | | | | low c flint flint | obble (and ma • | rk brown content o any rootl ish brown | f suba ets. G | ngular ravel i | to sub is subr | ounded | fine | G.L (0.3) | | 29. 29. |
| 1.20- 1.70 | в | | | | | is an | gular | to subang | ular f | ine to | coarse | flint. | | 1.20 | 0 × | 28. |
| 1.20- 1.65 1.70- 2.20 | - в | 1.20 (DRY) | | | s25 | grave subro | lly si unded i | e brown m lty SAND. fine to c | Grave oarse | l is ar flint a | ngular and cha | to lk. | | 1.70 | 0 | 28. |
| 1.70- 1.90 2.20- 2.80 2.20- 2.65 | - в | 2.20 | | | C14 | with | a high | e brown a cobble c to subrou | ontent | of any | jular f | lint. G | ravel | | | · - - - - |
| 3.70- 4.00 | - - - - - - - - - - - - - - - - - - - | 2.20 (DRY) | | | C14 | | | | | | | | | | | |
| 3.90- 4.00 4.00- 6.00 4.00- 4.45 | - D B | 4.00 (DRY) | | | C12 | | | | | | • | | | | | |
| 5.00- 5.45 | | 5.00 (DRY) | | | C19 | | V | | • | | | | | | | |
| 6.00- 6.30 | - D | | | | | | | e orangis lty SAND. | | | | | velly | 6.00 | 0 | 23. |
| 6.30- 6.80 6.30- 6.75 | | 6.00 (DRY) | \langle | | C13 | | | fine to c | | | - | | | | ° × · · · · · · · · · · · · · · · · · · | |
| 7.00- 7.10 | D | | | 6.1 | | | | | | | | | | | 0 × 0 | · · · |
| 7.50- 7.95 8.00- 8.50 | - - - - - | 7.50 (DRY) | | | C13 | | | | | | | | | 8.0 | ۰ × | 21. |
| 8.20- 8.30 8.50- 8.95 | | 8.50 (DRY) | | | C17 | with flint | a low o | e orangis cobble co el is ang t. | ntent | of angu | ilar to | subrou | nded | | | |
| 9.50-10.00 9.50- 9.95 | - - - - - - - | 9.50 (DRY) | | | C16 | | | | | | | | | | | |
| 0.00-10.10 | _ D | | | | Uroer | | | | | C | duct | r | | <u> </u> | · · · · · · · · · · · · · · · · · · · | |
| oring Hole Dia | | Technique | 9 | Crew | Depth | | Depth to Water | Date | Time | Depth Struck | | | in Mins | Depth Sealed | | rks on dwater |
| 1.20 | Inspec | tion Pit Percussi | : | DC/LC DC/LC | G.L. 12.00 12.00 | 12.00 12.00 18.00 | 11.00 DRY | 25/08/21 25/08/21 26/08/21 26/08/21 | 08:00 18:00 08:00 | | Caseu | | 111115 | Jealeu | None enc during h possibly obscured added wa | ounter oring, |
| emarks mbols and breviations are blained on the companying | Drille: A 50mm 18.00m filter | r unable standpi with up up to 1 | pe was pe was pright | take SI instal lockabl centoni | PT at 3 led to le prot lte up | .20m du 18.00m ective to 0.30 | e to gi with a cover. m, cond | nd no ser and 13.50 ravels wi a geowrap Backfill crete up | thin c ped sl detai to gro | asing. otted s ls from und lev | section n base <i>r</i> el. | | | Ch Fig | ecked by | CR DRB 1 of 2 19/11/202 |
| y sheet. dimensions in metres. | | accordance | | | | nutes a | na 12.0 | 00-13.50m | for 1 | vo mini | ices. | | | 9 | jeeleel | |

| Project | EQUIN | IOR FEEI | D PHASE | 1 INVES | STIGAT | IONS | Engine | er | J MURPHY | (& SON | S LIMI | TED | | Boreho Project | le E No F | H21-61 | |
|--|--|-------------------|----------------------------------|-----------------|---------|------------------|--------------------|--------------------|--|--------------------|------------------|-------------------|-------------------|-------------------|-----------------|-----------|-----------------------------------|
| Client | J MUR | PHY & S | SONS LIN | MITED | | | Nationa Coordir | | 621885.9 301730.9 | | | | | - | Level 2 | 9.81 m | OD |
| Sampl | ing | | Liopth | Proper | | | Strata | a | | | | | | | 1 | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 10.50- | 10.95 | | 10.50 (DRY) | | | C17 | | | | | | | | | | | |
| 11.30- 11.50- 11.50- | 12.00 | - D - B - D | 11.50 (DRY) | | | s35 | with and c | a mediu halk. (| ish brown um cobble Fravel is and cha | e conte s angul | nt of a | subangu | lar fli | .nt | 11.30 11.60 | | 18.51 18.21 |
| 12.50- 12.50- 13.00- | 12.95 | - B - D | 12.50 (DRY) | | | C30 | with and c | a mediu halk. (| brown ve m cobble Fravel is and cha | e conte s angul | nt of a | subangu | lar fli | .nt | | | |
| 13.50- 13.80- 13.80- | 14.80 | D | 13.50 | | 27 | 58 | sligh densi | tly gra | vered as avelly S amish wh subangula | LT. Gr nite wi | avel in the many | s very y black | weak, 1 specks | .ow with | 13.50 | | 16.31 |
| 14.80- 15.25- 15.30- 15.80- | 15.30 15.80 | UT20 | (DRY) 14.80 (DRY) | 210 | 24 | | | R | | | | | | | | | |
| 16.80- 17.30- 17.50- | 16.45 | D | 16.00 (DRY) 17.50 (DRY) | | 29 | 57 | | | | | | | | | | | |
| | | | | | | | | | Er | nd of B | orehold | e | | | |) <u></u> | [11.81 |
| Boring | | | ļ | | | Progre | | | | | | ndwate | r | | | | |
| Depth | Hole Dia | | Techniqu | e | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | | Rose to | in Mins | Depth Sealed | | arks on ndwater |
| | | | | | | | | | | | | | | | | | |
| Remar Symbols a abbreviatii explained accompan key sheet. All dimens are in met | and ons are on the nying sions | | | e with BS59 | 20:2045 | 1 | <u> </u> | <u> </u> | ļ | | 1 | | ļ | <u> </u> | Fig | ure | CR DRB 2 of 2 19/11/2021 |

| ient amplin Depth 0.00- 0.10- 0.30- 0.30- | ng 0.20 0.20 | арну & s Sample Type | ONS LIN | | | | National (| Grid | 621794.7 | 20 F | | | | | | | |
|---|--------------------|------------------------------|-------------------------------|---------------------------------|---------------------------|-------------------------------|-------------------------------|----------------------------|---|--------------------------|-------------------|------------------|-------------------|---------------|-----------------|-------------------------------|----------------------------------|
| 0.00- (0.10- (0.30- (| 0.20 | | | | | | Coordinat | tes | 301895.0 | | | | | Ground | Level 27 | | |
| 0.00- 0.10- 0.30- | 0.20 | | Donte | Proper | | | Strata | | | | | | | | | Scale 1 | :50 |
| 0.10- 0 0.30- 0 | 0.20 | | Cased & (to Water) | Strength kPa | w % | SPT N | Descriptio | on | | | | | | | Depth | Legend | Level m OD |
| | | B D | | | | | TOPSOII rootlet | | rk brown | silty | sand w | ith oc | casiona | 1 | G.L. | | 27.8 |
| | | | | | | | | | ish brown rounded f | | | | | vel is | 0.30 | | 27.! |
| 1.20- 1 1.30- 1 | | - D - B - | 1.20 (DRY) | | | S10 | slight | ly gra | nottled o avelly CL fine to c | AY. Gr | avel i | s suba | ngular | | - 1.30 | | 26. |
| 1.90- : 2.20- : | | D | 1.50 | 190 | 15 13 | | | | | | | | | | | | |
| 2.20- / | 2.05 | | (DRY) | 190 | 13 | | ** Belo | ow 2.7 | 70m, dril | ler no | tes gr | avelly | bands. | | | 0 0 0 0 0 0 0 0 0 0 | |
| 2.65- 2.70- 2.70- | 3.20 | D B D | | | | | | | | | | | | | | | |
| 3.20- 3 | 3.65 | | 3.00 (DRY) | | | S11 | | | | | | | | | | | - - - - - - |
| 3.90- | | р | | | | | | • | | | | | | | | | |
| 4.20- | 4.65 | - UT50 - | 3.00 (DRY) | 74 | 14 | | gravell | ly CLI | sh brown : AY. Grave lint and | l is s | ubangu | | | | 4.20 | | 23. |
| 4.65- 4 | | - D D | | | 16 | | | | | | | | | | - | | • |
| 5.20- 1 5.20- 1 | | | 4.50 (DRY) | | | s25 | slight] subrour | ly gra nded o | orown mot avelly CL chalk. Gr rse flint | AY wit avel i | h a lo s suba | w cobb | le cont | ent of | 5.30 | | 22. |
| 6.10- (| 6.20 | - - D | | | | X | TILE C | | ise iiint | and c | ilaik. | | | | | | • |
| 6.30- (6.65- (| | UT100 | 4.50 (DRY) | | | | | | own sandy content o | | | | | | 6.50 | • 0 • 0 • 0 • 0 • • • • | 21. |
| 6.70- ' 7.10- ' | 7.10 7.20 | _ В _ D | | | | | | | subangula | | | | | 1 15 | | * * * * * | |
| 7.20- 7.20- 7.20- | 7.30 | - B - D - | 7.20 (DRY) | | | S9 | to subr density black s | rounde y, cre specks | vered as ed GRAVEL eam with s. Matrix | . Clas brown is cr | sts are surfac | weak, e stai | medium ning an | d many | 7.20 | | 20. |
| | | | | | | | subrour | nded i | Elint cob | bles. | | | | | | | • |
| 8.50- 9 8.50- 9 | | - B - D - | 8.50 (DRY) | | 25 | S10 | slight] density | ly gra y, bro | vered as a avelly SI ownish cr subangula | LT. Gr eam wi | avel i th man | s very y blac | weak, k speck | low s with | 8.50 | | 19. |
| 9.10- 9 | | D | 9.00 | | | | flint g | | | 0 8 | ur our | | | -41 96 | | | • • • |
| | | | (DRY) | | | | | <i></i> | oo - · | | | | • . | | | | • |
| 9.95-10 oring | .0.00 | _ D | | | | Progre | | ow 10. | .00m, dri | iler n | | ndwate | | | <u> </u> | | |
| | Hole Dia | | Technique | е | Crew | Depth of Hole | | epth to Nater | Date | Time | Depth Struck | | | o in Mins | Depth Sealed | | rks on dwater |
| 1.20 8.00 | 0.15 | | ion Pit ercussi | | DC/LC DC/LC | G.L. 6.70 6.70 18.00 | 4.50 | DRY | 23/08/21 23/08/21 24/08/21 24/08/21 | 18:00 08:00 | | 10.5 | 0 17.00 | 20 | | Slow inf | low. |
| emarks mbols and breviations | d ns are | ** Dri] At 6.30 A 50mm | lers de m, UT s standpi | escripti shoe dan lpe was | ion. maged d instal | during Lled to | sampling. 18.00m v | with a | nd no ser and 7.10m a geowrap Backfill | ped sl | otted | sectio | | | Chec Figur | ked by | CR DRB 1 of 2 19/11/202 |

| Project | EQUI | NOR FEEI | D PHASE | 1 INVE | STIGAT | IONS | Engine | er | J MURPH | Y & SON | S LIMI | red | | Boreho Project | ole No | BH21-62 PC218256 | |
|--|--|---|---|-----------------|-----------|---------------------------------------|--------------------|-------------------|--------------------|---------|--------------------------|--------------------------|--------------|-------------------|-----------------|---------------------|-----------------------------------|
| Client | T 107* | RPHY & S | ONG TT | 1TTPPP | | | Nationa Coordii | al Grid | 621794. 301895. | 739E | | | | | Level | | OD |
| Samp | | RPHY & : | SONS LII | Prope | rties | | Strata | | 301895. | J45 N | | | | Ground | Levei | Scale 1 | |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descri | otion | | | | | | | Depth | Legend | Level m OD |
| 10.00 10.50 10.60 11.50 11.95 12.20 12.50 13.00 13.50 14.05 14.05 14.05 14.05 14.05 14.05 14.50 15.30 15.60 16.00 17.15 17.20 17.00 | -10.50 -10.95 -10.70 -12.00 -12.00 -12.30 -12.95 -13.60 -14.10 -15.00 -14.10 -15.00 -16.05 -16.50 -16.50 -17.20 -17.50 -17.50 -17.95 | Type B D D D D D D D D D D D D D D D D D D | Losed & (to Water) 10.50 (DRY) 10.50 (DRY) 10.50 (DRY) 10.50 (DRY) 10.50 (DRY) 10.50 (DRY) | 142 | | SPT N \$10 \$12 \$17 \$12 | Descrip | otion | E | nd of B | orehold | | | | | Legend | 9.86 |
| Boring |) Hole Dia | | Techniqu | e | Crew | Progru Depth of Hole | Depth | Depth to Water | Date | Time | Grour Depth Struck | ndwate Depth Cased | r Rose to | in Mins | Depth Sealed | | rks on dwater |
| Rema Symbols abbreviat explained accompa key shee All dimen are in me | and ions are d on the nying t. sions | _ | accordance | a with BS59 | 30.2015 - | A1:2020 | | <u> </u> | | ļ | | | <u> </u> | | Fiç | necked by gure | CR DRB 2 of 2 19/11/2021 |

Project EQUINOR FEED PHASE 1 INVESTIGATIONS

TIGATIONS Engineer

J MURPHY & SONS LIMITED

Borehole BH2 Project No PC21

BH21-63 PC218256

| ampling | 2 | Lenth | Prope | | 1 | Strata | | Scale 1 | 1 |
|--|---------------------|------------------------|-----------------|---------------|-----------------------|--|---------------|---|----------------------|
| Depth | Sampl Type | Caseu a | Strength kPa | w % | SPT N | Description | Depth | Legend | Level m OD |
| 0.00- 0.3 0.10- 0.3 0.30- 0.4 | 0 D 0 B | | | | | TOPSOIL: Dark brown slightly gravelly silty sand with occasional rootlets. Gravel is subangular fine to coarse flint. | + | × | 26.0 |
| 0.90- 1.2 | а 1 20 — В | | | | | Light orangish brown slightly slity slightly gravelly SAND. Gravel is angular to rounded fine to coarse flint. | 0.90 | × | 26.0 |
| 0.90- 1.0 1.20- 2.0 1.20- 1.3 1.20- 1.3 | 0 B 0 D 0 UTF | 1.20 | | 15 | | Firm orangish brown slightly sandy slightly gravelly CLAY with a medium cobble content of subangular to subrounded filnt. Gravel is angular to subrounded fine to coarse flint. | 1.20 | | 25. |
| 1.30- 1.4 1.40- 1.9 2.00- 2.4 | 0 D | (DRY) 2.00 (DRY) | | | S28 | Stiff brown slightly sandy slightly gravelly CLAY with a medium cobble content of subrounded flint and chalk. Gravel is subangular to subrounded fine to coarse flint and chalk. | | | · • • • |
| 2.50- 2.0 | 50 D | (DRI) | | 13 | | | 2.50 | X ~ X / / | 24.4 |
| 2.80- 2.9 2.90- 3.4 | | | | | | Firm light brown slightly sandy gravelly SILT with a medium cobble content of subangular flint and chalk. Gravel is angular to subrounded fine to coarse flint and chalk. | 2.80 | × × × × × × × × × × × × × × × × × × × | 24.1 |
| 2.90- 3.3 | | 2.90 (DRY) | | | S28 | Medium dense light orangish brown sandy slightly silty GRAVEL with a high cobble content of subrounded flint. Gravel is angular to subrounded fine to coarse flint and chalk. | | • • • • × • | · · · · |
| 3.70- 3.8 4.00- 4.9 | E | | | | | Medium dense light creamish brown very sandy slightly silty GRAVEL. Gravel is subangular to | 3.70 | ∑ × · | 23.2 |
| 4.00- 4.4 | | 4.00 (DRY) | | | C29 | rounded fine to coarse flint and chalk. | | × · · · · | |
| 4.80- 6.0 4.80- 4.9 | | | | | | CURLY recorded at alightly and ailty schemerlar | 4.80 | · · · · · × . | 22. |
| 5.00- 5.4 | | 5.00 (4.50) | | 29 | s14 | CHAIK, recovered as slightly sandy silty subangular to subrounded GRAVEL. Clasts are weak to moderately weak, medium density, creamish white with brown staining and many black specks. Matrix is cream. | | | 21. |
| 6.00- 6.4 | | 6.00 | 154 | 33 | | CHALK, recovered as brownish cream slightly sandy slightly gravelly SILT. Gravel is subrounded, very weak, low density, brownish cream with many black specks with occasional angular to subangular flint | | | • |
| 0.00- 0. | - | (4.20) | 154 | 33 | | cobbles. | Ē | | • • • • |
| 6.45- 6.9 6.50- 7.0 | | • | | | | • | E E | | * - • • • |
| 7.00- 7.4 | 5 D | 7.00 (6.50) | | | 54 | | <u>-</u> - | | • • |
| 7.40- 7.9 | 50 D | | | | | | E E | | : • • • |
| 8.00- 8.9 8.00- 8.4 | | 8.00 (DRY) | | | | | - - | | • |
| 8.45- 8.! | 50 D | | | 32 | | | I I | | • |
| 9.00- 9.1 9.20-10.0 | - | | | | | | Ē | | : |
| 9.20-10.0 | | 9.00 (DRY) | | | s33 | Between 9.70-10.50m, driller notes pushing flints. | | | • • • • |
| 0.00-10.3 | .0 _ D | | | | | | <u>-</u> | | • • • |
| oring | e | | 1 | _ | Progre | Depth Depth to Depth Depth in | Depth | Rema | rks on |
| epth Di | a | Techniqu | | Crew DC/LC | of Hole G.L. | Cased Water Date Time Struck Cased Rose to Mine 26/08/21 08:00 3.70 | | | dwater |
| | | Percuss | | DC/LC | 6.50 6.50 18.00 | 6.00 4.60 26/08/21 18:00 6.00 5.30 27/08/21 08:00 9.00 16.50 27/08/21 18:00 | | strike b 3.70 to masked b water. | etween 4.80m, |
| emarks | | | | | | .20m depth and no services were found. etween 3.70 and 4.80m. | Log | | low. CR DRB |
| mbols and breviations ar plained on the | 18.00 | n with u | pright 1 | lockab | le prot | 18.00m with a geowrapped slotted section from 1.00m ctive cover. Backfill details from base of hole: gra o 0.10m, concrete up to ground level. | LO Eigu | ire i | 1 of 2 19/11/2021 |
| companying y sheet. | | | | | | | <u> </u> | alian Aliana | miæ |

| ampling Properties Strata Scale | Project _{EQU} | INOR FEE | D PHASE | 1 INVE | STIGAT | IONS | Engine | er | J MURPH | Y & SON | S LIMI | TED | | Boreho Project | No P | H21-63 | |
|--|--|----------------|-----------------------|-----------------|----------|------------|--------------------|-----------------|--------------------|----------------|--------|-------|---------|--------------------------|----------|--------------------|----------------------|
| Storge Storge Water Storge Description Description 0.30-10.95 US water 9.00 | Client _{JM} | URPHY & | SONS LIN | IITED | | | Nationa Coordir | l Grid nates | 621917. 302142. | 391 E 581 N | | | | Ground | Level 2 | 6.96 m | OD |
| 0.58-10.55 0.70-11.00 1.20-11.00 1.20-11.00 1.20-11.50 1.20-11.50 1.20-11.50 1.20-11.50 1.20-11.50 1.20-11.50 1.20-12.50 1.20-1 | Sampling | | | | | | Strata |) | | | | | | | | Scale ⁻ | 1:50 |
| 0.10-11.00 1.10-11.95 D 2.00-12.95 D 2.00-12.95 D 2.00-12.95 D 2.00-12.95 D 2.00-12.95 D 2.00-12.95 D 2.00-12.95 D 2.00-13.90 D 3.00-13.90 D 3.00-13.90 D 4.60-15.05 D 5.00-15.0 | Depth | Sample Type | Cased & (to Water) | Strengtl kPa | n w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Leve m OD |
| 0.10-11.00 1.10-11.95 D 2.00-12.95 D 2.00-12.95 D 2.00-12.95 D 2.00-12.95 D 2.00-12.95 D 2.00-12.95 D 2.00-12.95 D 2.00-13.90 D 3.00-13.90 D 3.00-13.90 D 4.60-15.05 D 5.00-15.0 | | - | | | | | | | | | | | | | <u> </u> | | Į. |
| 0.70-11.00 P 0 0.00 1.80-11.35 D 0 0.00 2.20-12.35 D 0 0.00 3.00-13.32 C720 0.00 3.00-13.32 C720 0.00 3.00-13.32 C720 0.00 3.00-13.32 C720 0.00 5.30-15.40 D 0 0.00 5.30- | 10.50-10.9 | 5 UT30 | 9.00 | | | | | | | | | | | | t L | | ļ. |
| 1.30-11.95 D 9.00 < | 10.70-11.0 | 0 в | (DRY) | | | | | | | | | | | | ţ | | |
| 1.30-11.95 D 9.00 < | | - | | | | | | | | | | | | | ŧ. | | |
| 2. 20-12. 50 B 2. 20-12. 50 D 3. 10-13. 20 D 3. 10-13. 20 D 4. 10-17. 20 D 4. 10- | 11.20-11.3 | E | | | | | | | | | | | | | ŧ | | |
| 2. 50-12. 55 D 9 (007) 3. 10-13. 20 D 9 (007) 3. 70-14. 00 B (007) 4. 20-14. 30 D 9 (007) 5. 20-15. 05 D 9 (007) 7. 30-17. 05 UT30 (0.50) 7. 30-17. 95 UT3 | 11.50-11.9 | 5 D | | | | S7 | | | | | | | | | | | |
| 2. 50-12. 55 D 9 (007) 3. 10-13. 20 D 9 (007) 3. 70-14. 00 B (007) 4. 20-14. 30 D 9 (007) 5. 20-15. 05 D 9 (007) 7. 30-17. 05 UT30 (0.50) 7. 30-17. 95 UT3 | 12 20-12 5 | В | | | | | | | | | | | | | E | | |
| 3.10-13.20 3.00-13.95 3.00-13.95 3.00-13.95 4.20-14.30 D 4.20-14.30 D COUNTRY 5.20-15.60 S.20-15.60 S.20-15.60 D D D D D D D D D D D D D | 12.50-12.9 | E | 9.00 | | | S 8 | | | | | | | | | ÷ L | | |
| 3. 50 - 13. 95 3. 50 - 13. 95 4. 20 - 14. 00 4. 20 - 14. 00 5. 20 - 15. 00 5. 20 - 16. 00 0. 00 - 0 5. 20 - 16. 00 0. 00 - 0 5. 20 - 16. 00 0. 00 - 10 5. 20 - 16. 00 0. 00 - 10 5. 20 - 16. 00 0. 00 - 10 5. 20 - 16. 00 0. 00 - 10 0. 00 - 10 | | Ē | (DRY) | | | | | | | | | | | | ŧ, | | |
| 3.70-14.00 B B C(BEY) A.00-14.00 D A.00-14.00 D A.00-14.00 D A.00-14.00 D A.00-15.05 D S.00-16.05 | 13.10-13.2 | 0 <u>-</u> D | | | 30 | | | | | | | | | | | | |
| 3.70-14.00 B 4.20-14.30 D 5.20-15.60 B 5.20-15.60 B 5.20-15.60 D 5.20-15.60 D 5.20-15.60 D 5.20-15.60 D 5.20-15.60 D 5.20-15.60 D 5.20-15.00 D 5. | 13.50-13.9 | 5 UT30 | | | | | | | | | | | | | t F | | |
| 4. 20-14. 30 b 4. 60-15. 05 b 5. 20-15. 60 5. 20-15. 60 5. 20-15. 60 5. 20-15. 60 5. 20-15. 60 5. 20-15. 60 b 5. 20-15. 60 c 5. 20-17. 70 c 5. 2 | 13.70-14.0 | 0 в | (DRY) | | | | | | | | | | | | ţ | | |
| 4.60-15.05 D 9.00 5.20-15.00 B 5.20-15.00 D 9.00 6.05-16.10 D 9.00 6.05-16.10 D 9.00 6.05-16.10 D 10 200 7.10-17.20 D 7.50-17.95 U30 9.00 7.50-17.95 U330 9.00 7.55-18.00 D 10 10 10 10 10 10 10 10 10 10 10 10 10 | 13.95-14.0 | - | | | | | | | | | | Ť | | | ţ_ | | |
| 5.20-15.60 5.30-35.40 5.30-35.40 5.60-16.05 5.60-16.05 6.05-16.10 6.05-16.10 7.50-17.35 7.10-17.20 7.50-17.35 7.50-17.50-17.55 7.50-17.55 7.50-17 | 14.20-14.3 | 0 D | | | | | | | X | | | | | | ‡ | | |
| 5.30-15.40 D 5.60-16.05 UT45 (0.007) 6.05-16.05 D 6.05-16.05 D 9.00 6.05-16.05 D 9.00 7.0-17.00 B 7.10-17.20 D 7.10-17.20 D 7.10-17.20 D 7.50-17.95 UT30 (16.50) 7.95-18.00 D P Progress Groundwater Progress Groundwater Progress Groundwater Progress Groundwater (16.50) 0 Hole Cased Water Date Time Struck Cased Rose to In Depth Remarks of Groundwater Progress Groundwater (16.50) P Progress Groundwater (16.50) P P P P P P P P P P P P P | 14.60-15.0 | 5 D | | | | S9 | | | | | | | | | | | |
| 5.60-16.05 UT45 9.00 6.50-16.10 D 6.50-16.35 D 9.00 B 7.10-17.20 D 7.50-17.35 UT30 9.00 7.50-17.35 UT30 9.00 7.50-17.35 UT30 9.00 7.50-17.35 UT30 (16.50) 7.50-17.35 UT30 (16.50) 7.50-17. | 15.20-15.6 | | | | | | | \mathbf{V} | | | | | | | Ļ | | |
| 6.05-16.10 D D S00 CR23 D S11 CR23 D S11 CR23 D S11 CR23 D S11 CR23 D S11 CR23 D S11 CR23 D S11 CR23 D S11 CR23 D S11 CR23 CR27 C | | F | | | | | | | | | | | | | E | | |
| 6.70-17.00 B (DRY) 7.10-17.20 D 7.50-17.95 UT30 9.00 (16.50) 7.95-18.00 D D End of Borehole 18.00 I I 18.0 | 16.05-16.1 | - 0 - D | (2) | | 27 | | | | | | | | | | | | |
| 6.70-17.00 B (DRY) 7.10-17.20 D 7.50-17.95 UT30 9.00 (16.50) 7.95-18.00 D D End of Borehole 18.00 I I 18.0 | 16.50-16.9 | 5_ D | 9.00 | | | 511 | | | | | | | | | Ē | | |
| 7.50-17.95 UT30 9.00 7.95-18.00 D D D D D D D D D D D D D D | 16.70-17.0 | 0 в | | | | | | | | | | | | | Ļ | | |
| 7.95-18.00 D H H H H H H H H H H H H H H H H H H | 17.10-17.2 | о – D | | | | | | | | | | | | | <u>+</u> | | |
| 7.95-18.00 D End of Borehole End of Borehole Figure Crew Depth Depth Depth To Date Time Depth Rose to in Depth Remarks or Struck Cased Rose to in Depth Remarks or Groundwate Crew Depth Depth Depth To Hole Cased Water Date Time Depth Rose to in Depth Remarks or Checked by Crew Depth The Date Time Struck Cased Rose to in Depth Remarks or Checked by Crew Depth The Date Time Struck Cased Rose to in Depth Remarks or Checked by Crew Depth The Date Time Struck Cased Rose to in Depth Remarks or Checked by Crew Depth The Date Time Struck Cased Rose to in Depth Remarks or Checked by Crew Depth The Date Time Struck Cased Rose to in Depth Remarks or Checked by Crew Date Time Struck Cased Rose to in Depth Remarks or Checked by Crew Date Time Struck Cased Rose to in Depth Remarks or Checked by Crew Date Time Struck Cased Rose to in Depth Remarks or Checked by Crew Date Time Struck Cased Rose to in Depth Remarks or Checked By Crew Date Time Struck Cased Rose to in Depth Remarks or Checked By Crew Date Time Struck Cased Rose to in Depth Remarks or Checked By Crew Date Time Struck Cased Rose to in Depth Remarks or Checked By Crew Date Time Struck Cased Rose to in Depth Remarks or Checked By Crew Date Time Struck Cased Rose to in Depth Remarks or Checked By Crew Date Time Struck Cased Rose to in Depth Remarks or Struck Cased Rose to in Depth Remarks or Checked By Crew Struck Cased Rose to in Depth Remarks or Struck Cased Rose to in Depth Remarks or Struck Cased Rose to in Depth Remarks or Checked By Crew Struck Cased Rose to in Depth Remarks or Struck Cased Rose to in Depth Remarks o | 17.50-17.9 | 5_UT30 | | | | | | | | | | | | | F F | | |
| emarks Crew Depth Depth Depth Depth Depth Depth Cased Water Time Struck Cased Rose to Mins Sealed Groundwater emarks Crew Depth Depth Depth Depth Depth Cased Water Cased Virus Cased | 15 05 10 0 | | (10.50) | | | | | | | | | | | | | | |
| Hole Dia Technique Crew Depth of Hole Depth Cased Depth Water Date Time Depth Struck Depth Cased Depth Rose to Depth Mins Depth Sealed Remarks or Groundwate remarks Image: Struck Image: Stru | 17.95-18.0 | | | | | | | | E | nd of B | orehol | e | | | - 18.00 | | I 8. |
| Hole Dia Technique Crew Depth of Hole Depth Cased Depth Water Date Time Depth Struck Depth Cased Depth Rose to Depth Mins Depth Sealed Remarks or Groundwate remarks Image: Struck Image: Stru | | Ē | | | | | | | | | | | | | Ę. | | |
| Hole Dia Technique Crew Depth of Hole Depth Cased Depth Water Date Time Depth Struck Depth Cased Depth Rose to Depth Mins Depth Sealed Remarks or Groundwate remarks Image: Struck Image: Stru | | Ē | | | | | | | | | | | | | E | | |
| Hole Dia Technique Crew Depth of Hole Depth Cased Depth Water Date Time Depth Struck Depth Cased Depth Rose to Depth Mins Depth Sealed Remarks or Groundwate remarks Image: Struck Image: Stru | | - | | | | | | | | | | | | | E | | |
| Hole Dia Technique Crew Depth of Hole Depth Cased Depth Water Date Time Depth Struck Depth Cased Depth Rose to Depth Mins Depth Sealed Remarks or Groundwate remarks Image: Struck Image: Stru | | - | | | | | | | | | | | | | <u>+</u> | | |
| Hole Dia Technique Crew Depth of Hole Depth Cased Depth Water Date Time Depth Struck Depth Cased Depth Rose to Depth Mins Depth Sealed Remarks or Groundwate remarks Image: Struck Image: Stru | | - | | | | | | | | | | | | | <u> </u> | | |
| Hole Dia Technique Crew Depth of Hole Depth Cased Depth Water Date Time Depth Struck Depth Cased Depth Rose to Depth Mins Depth Sealed Remarks or Groundwate remarks Image: Struck Image: Stru | | - | | | | | | | | | | | | | + | | |
| eprin Dia rechnique of Hole Cased Water Date Time Struck Cased Mins Sealed Groundwate Image: struct Imag | Boring | e | Tashainu | | Crew | Depth | Depth | Depth to | Data | Time | Depth | | | in | Depth | Rem | arks on |
| mbols and breviations are plained on the Checked by DRB Figure 2 of 19/11/2 | Depro Dia | | recnnique | e | Crew | of Hole | Cased | Water | Date | i ime | Struck | Cased | 1058 10 | Mins | Sealed | | |
| mbols and breviations are plained on the Checked by DRB Figure 2 of 19/11/2 | | | | | | | | | | | | | | | | | |
| breviations are 19/11/2 plained on the | _ | GS | | | | | | | | | | | | | Che | cked by | DRB |
| | Symbols and abbreviations are explained on the |) | | | | | | | | | | | | | Figu | re | 2 of 2 19/11/2021 |
| | accompanying acy sheet. | | | | | | | | | | | | | | (D): | क्रिक्ट | भीषि |

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| roject | EQUIN | IOR FEEI | D PHASE | 1 INVE | STIGATI | ONS | Engine | er | J MURPHY | & SON | S LIMI | TED | | Boreho Project | | H21-64 | |
|----------------|------------------------------|-----------------------------|--|------------------------------|---------------------------|---------------------------------|-------------------------|--------------------------------|--|----------------------------|--------------------|--------------------|----------------------|--------------------------|-----------------------|--|---------------------------------------|
| lient | J MUH | RPHY & S | SONS LIN | IITED | | | Nationa Coordir | | 621917.0 302143.5 | | | | | Ground | Level 2 | | OD |
| Sampl | ing | | | Prope | rties | | Strata | 1 | | | | | | | | Scale 1 | :50 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Lev m OD |
| 0.00- | 0.30 0.10 0.50 0.40 | | | | | | claye | ey sand | rk brown with occ to subrou | asiona | 1 root | lets. G | ravel i | s | G.L. | | 26 26 26 |
| 0.50- 0.50- | · 0.70 · 0.60 | - В - D | | | 11 | | with | a mediu | sh brown um cobble ubangular | conte | nt of a | subangu | lar ⁻ fli | | 1.00 | ······································ | ± 25 |
| 1.20- | 2.20 1.65 | - | 1.20 (DRY) | | 16 | S15 | grave subro | unded o | greyish b AY with a chalk. Gr fine to c | mediu avel i | m cobb s suba | le cont ngular | to | ly | 1.20 | êvx ê∜x | ≝ 25 : |
| 2.00- | · 2.10 | - - - D | | | | | with subro | a mediu ounded i | h brown s um cobble Elint and | conte chalk | nt of : . Grave | subangu el is s | ılar to subangul | lar to | ► - - - | × × × × × × × × × × × × × × × × × × × | |
| 2.20- | 2.65 | UT40 | 1.50 (DRY) | 66 | 16 | | chalk Firm | orangi: | fine to c | slight | ly sand | dy slig | htly | | + + - - | × • × • × × • × • × • × • × • × • × • × | |
| 2.70- | 2.70 3.20 3.10 | - D - B - D | | | | | fine | to coar | LT. Grave rse flint notes san | and c | halk. | lar to | subrour | nded | + - - - | X X X X X X X X X X X X X X X X X X X | · · · |
| 3.20- | 3.65 | - - - | 1.50 (DRY) | | | s15 | | | | | | | | | | × ~ × ~ × ~ × ~ × ~ × ~ × ~ × ~ × ~ × ~ | |
| | 4.10 | в | | | | | | • | | | | | | | - - - | × × × × × × × × × × × × × × × × × × × | |
| | 4.20 4.65 | - D UT55 - | 1.50 (DRY) | | | | | | X | | | | | | - - - - | × • × 4 × • × • × × • × • × × • × • × | |
| 4.65- | 4.70 | D | | | | | | | | | | | | | - | × • × • × × • × • × × • × • | |
| | 5.10 | - | | | 14 | | | | ish brown | | | | | | 5.00 | × • × | 21 |
| | 5.70 5.65 | - В - D - | 1.50 (DRY) | | | S21 | | | AY. Grave t and cha | | lar to | subrou | inded fi | ine to | | | : : : : |
| 6.10- | 6.10 6.60 6.55 | D B D | 1.50 (DRY) | | | 5 50 | silty | GRAVE | brown and L. Gravel rse flint | is su | bangula | | | | 6.00 | | 20 |
| 6.60- | 6.70 | - D - | | | | | | | | | | | | | | × · · · · · · · · · · · · · · · · · · · | |
| | 7.70 7.65 | - В - | 7.20 (DRY) | | | C43 | At 7. | 20m, de | ense. | | | | | | + - - - | ************************************** | |
| 7.70- | 7.80 | - D | | | | | | | | | | | | | - - - - | × · · · · · · · · · · · · · · · · · · · | : -] - |
| 8.60- | 8.60 10.50 9.05 | D B | 8.60 (DRY) | | | S5 | sligh densi occas | tly gra ty, bro sional a | vered as avelly SI ownish cr subangula | LT. Gr eam wi r to s | avel is th man | s very y black | weak, 1 specks | low s with | 8.50 | | : 18 |
| 9.20- | 9.30 | - D | | | 29 | | rrint | grave. | l and cob | bles. | | | | | - | | : : |
| 9.60- | 10.05 | - UT25 | 9.00 (DRY) | 89 | 29 | | | | | | | | | | - - - - - | | · · · · · · · · · · · · · · · · · · · |
| oring | | | | | | Progre | ess | | | | Grour | ndwate | er | | | | |
| epth | Hole Dia | | Techniqu | e | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | | Rose to | in Mins | Depth Sealed | | irks on idwatei |
| 1.20 8.00 | 0.15 | | cion Pit Percussi | | DC/LC DC/LC | G.L. 13.20 13.20 18.00 | 9.00 9.00 9.00 | DRY | 31/08/21 31/08/21 01/09/21 01/09/21 | 18:00 08:00 | | | | | | None end during b | |
| emar | ks 🚜 | Inspect Water v | ion pit vas adde | t hand ad to a | excavat ssist h | ed to | 1.20m d betweer | lepth an 6.10 a | nd no ser and 8.50m | vices | were fo | ound. | ļ | | | | CR DRB |
| mbols a | and ons are on the | ** Dril A 50mm 18.00m | llers de standpi with u <u>r</u> | escript ipe was pright | ion. instal lockabl | led to e prote | 18.00m ective | with a cover. | a geowrap Backfill crete up | ped sl detai | otted : ls from | section m base | | | Figu | re | 1 of 19/11/20 |

All dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020

| Project _{EQUI} | NOR FEEI | D PHASE | 1 INVES | STIGAT | IONS | Engine | er | J MURPH | K & SON | S LIMI | red | | Borehc Project | No I | BH21-64 PC218256 | |
|---|--|--|-----------------|--------------|--------------------------|--------------------|-------------------|--------------------|---------|-----------------|----------------|---------|--------------------------|-----------------|---------------------|-----------------------------------|
| Client , MI | RPHY & S | SONS T.T. | 17720 | | | Nationa Coordir | al Grid | 621917. 302143. | 09 E | | | | | Level | | OD |
| Sampling | KFNI & . | | Prope | rties | | Strata | | 502145. | 55014 | | | | oround | LEVEI | Scale 1 | |
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| Depth 10.05-10.10 10.50-11.70 10.50-10.95 11.40-11.50 11.70-12.15 12.00-12.70 12.15-12.20 12.50-12.60 12.70-13.15 13.50-13.60 13.70-14.20 14.15-14.20 14.70-15.15 15.20-15.70 | Type D D D UT25 B D D D D D D D D D D D D D D D D D D | 9.00 (DRY) 9.00 (DRY) 9.00 (DRY) 9.00 (DRY) 9.00 (DRY) 9.00 (DRY) | Strength kPa | w % 30 | SPT N 56 512 58 | Descrip | otion | | | | | | | Depth | | Level m OD |
| 15.70-15.80 16.00-16.45 16.45-16.50 16.70-17.00 17.00-17.45 | D | 9.00 (DRY) 9.00 (DRY) | | 29 | 511 | | | | | | | | | | | 8.9 |
| Boring | | | | | Progr | ess | | E | nd of B | | a | r | | | 0 | 8.9 |
| Depth Hole Dia | | Techniqu | e | Crew | Depth of Hole | Depth | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| | | | | | | Caseu | Water | | | STUCK | Caseu | | IVIIIIS | Sealed | Groun | uwatei |
| Remarks Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres. | _ | accordance | a with BS59 | 30:2015 - | - A1·2020 | <u> </u> | <u>!</u> | Ļ | | | <u>!</u> | · | | Ch Fig | ecked by ure | CR DRB 2 of 2 19/11/2021 |

BOREHOLE RECORD - Cable Percussion Project EQUINOR FEED PHASE 1 INVESTIGATIONS Borehole Engineer BH21-67 J MURPHY & SONS LIMITED Project No PC218256 National Grid 621648.73 l Client 301884.817N Ground Level 35.28 m OD J MURPHY & SONS LIMITED Coordinates Sampling Properties Strata Scale 1:50 Depth Cased & Sample Strength w SPT N Level Description Depth Depth Leaend Туре (to Water) kPa % m OD 35.28 G.L. TOPSOIL: Dark brown slightly gravelly sandy clay with many rootlets and a medium cobble content of angular flint Gravel is subangular and subrounded 0.00- 0.30 Ε 0.00 - 0.100.30 - 0.70D в 0.30 34.98 0.30- 0.40 D 10.0 fine to coarse flint. 0.70- 1.00 0.70- 0.80 Brown slightly gravelly sandy CLAY with a medium cobble content of angular flint and rare rootlets. 0.70 34.58 в D Gravel is subangular and subrounded fine to coarse flint. 34.08 21 1.20- 1.30 D 1.20 Firm light orangish brown slightly gravelly very sandy CLAY. Gravel is subangular and subrounded fine and medium flint. 1.30- 1.80 1.30- 1.75 в 1.40 33.88 р 1.20 S11 (DRY) Firm orangish brown slightly gravelly sandy CLAY with a medium cobble content of angular flint. 2.10 - 2.20Gravel is fine to coarse angular to subrounded D flint and chalk. 2.30- 2.75 UT65 1.50 129 15 Firm light brownish grey slightly gravelly sandy CLAY with a low cobble content of subangular flint and chalk. Gravel is subangular and subrounded fine (DRY) 2.75- 2.80 D 2.80- 3.10 2.80- 3.10 to coarse flint and chalk, B D 3.10- 3.20 D 16 3.10 32.18 Firm light orangish brown slightly gravelly sandy CLAY with a medium cobble content of subrounded chalk and occasional pockets (up to 50mm in size) of sand. Gravel is subangular and subrounded fine to coarse chalk and flint. 3.30- 3.75 D 3.00 S14 (DRY) 4.10- 4.20 D .30- 4.80 4.30- 4.75 UT45 3.00 43 17 (DRY) 4.75- 4.80 D 5.20- 5.30 D 5.40 29.88 Stiff dark brownish grey slightly gravelly sandy CLAY with a medium cobble content of subrounded flint. Gravel is subangular and subrounded fine to 5.40- 5.90 5.40- 5.85 в D 4.50 s22 (DRY) coarse flint and chalk. 6.30- 6.40 14 D 6.50- 6.95 UT70 4.50 (DRY) 6.95- 7.00 D 7.30- 7.50 7.30- 7.40 7.50- 7.95 7.30 27.98 в D 13 Stiff grey slightly gravelly sandy CLAY with a medium cobble content of subangular flint and chalk. Gravel is angular to subrounded fine to D 7.50 S23 (DRY) coarse flint and chalk. 8.20- 8.30 D 27.08 8.20 Medium dense light orangish brown slightly gravelly 8.40 26.88 clayey SAND with a medium cobble content of subangular flint. Gravel is subangular and 8.50 26.78 8.40- 8.50 D 8.50- 9.00 в subrounded fine to coarse flint and chalk. 8.50- 8.60 D 8.50- 8.95 - UT90 7.50 Stiff light orangish brown slightly gravelly sandy CLAY with a medium cobble content of subangular (DRY) flint. Gravel is subangular to subrounded fine to 9.30- 9.40 9.50- 9.80 coarse flint and chalk. D 7.50 S50/ Dense light orangish brown very sandy clayey GRAVEL with a high cobble content of subrounded flint. Gravel is angular to subrounded fine to coarse (DRY) 150 9.90-10.00 D 25.28 flint. 10.00 Below 9.50m, very dense. Boring Progress Groundwater Denth Depth)enth tr Depth Depth Denth Remarks on Depth Crew Date Rose to Technique Time Water Mins Sealed Dia of Hole Cased Struck Cased Groundwater 07/10/21 08:00 None encountered 1.20 Inspection Pit DC/LC G.L 07/10/21 08/10/21 10.00 0.15 Cable Percussion DC/LC 2.00 1.50 DRY 18:00 during boring. 2.00 1.50 08:00 DRY 10.00 DRY 08/10/21 18:00 Inspection pit hand excavated to 1.20m depth and no services were found. A 50mm standpipe was installed to 10.00m with a geowrapped slotted section from 1.00m to 10.00m with upright lockable protective cover. Backfill details from base of hole: gravel filter up to 1.00m, bentonite up to 0.20m, concrete up to ground level. Remarks Logged by DRB Checked by 1 of 2 Symbols and Figure abbreviations are 19/11/2021 explained on the accompanying key sheet. ezimbelogo

All dimensions Logged in accordance with BS5930:2015 + A1:2020 are in metres.

| Project | EQUIN | IOR FEED | PHASE | 1 INVE | STIGATI | LONS | Enginee | | J MURPHY | & SON | S LIMI | TED | | Borehc Project | No PC | H21-67 | |
|--|-----------------------------------|----------------|--------------------------------|-----------------|---------|------------------|----------------------|-------------------|----------------------|------------|-----------------|----------------|---------|--------------------------|-----------------|---------------|-----------------------------------|
| Client | | RPHY & S | ONS LIN | | | | National Coordina | | 621648.7 301884.8 | 3 E 17N | | | | Ground | Level 35 | | OD |
| Sampl | ing | Comple | Depth | Prope | | | Strata | | | | | | | | | Scale 1 | 1 |
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descript | ion | | | | | | | Depth | Legend | Level m OD |
| | | | | | | | | | Er | d of B | orehold | a A | | | | | 25.28 |
| | | E | | | | | | | | | | | | | Ę | | |
| Boring | | ↓ | | ! | | Progr | | | | | | ndwate | r | | ↓ | | ļ |
| Depth | Hole Dia | | Technique | e | Crew | Depth of Hole | Depth L Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| | | | | | | | | | | | | | | | | | |
| Remar Symbols a abbreviatio explained accompan key sheet. All dimens are in met | and ons are on the lying | | | e with BS59 | | 1 | + | | | <u>.</u> | | <u> </u> | 1 | | Chec Figur | cked by re | CR DRB 2 of 2 19/11/2021 |

Project EQUINOR FEED PHASE 1 INVESTIGATIONS Engineer Borehole **BH21-68** J MURPHY & SONS LIMITED Project No PC218256 621493.699E National Grid Client 302031.021N Ground Level 38.56 m OD J MURPHY & SONS LIMITED Coordinates Sampling Properties Strata Scale 1:50 Depth Cased & Sample Strength w SPT N Level Description Depth Depth Leaend Туре (to Water) kPa % m OD 38.56 G.L. TOPSOIL: Brown slightly gravelly sandy clay with many rootlets and a medium cobble content of angular flint. Gravel is subangular and subrounded 0.00- 0.30 0.10- 0.20 B D 0.40 38.16 0.40 - 0.70B D fine to coarse flint. 0.40- 0.50 Stiff light brownish grey slightly gravelly sandy CLAY with a low cobble content of subangular flint 1.00- 1.10 D 8.1 and chalk. Gravel is subangular and subrounded fine to coarse flint and chalk. 1.20- 1.70 1.20- 1.65 E 1.20 s25 D (DRY) 2.00- 2.10 D 2.20- 2.70 в F 2.20- 2.65 UTF 1.50 Below 2.40m, becoming dark greyish brown. 55 (DRY) 2.40- 2.50 D 2.70- 3.15 UT60 1.50 (DRY) 3.00 35.56 Stiff dark grey slightly gravelly sandy CLAY with a low cobbled content of subangular flint and chalk. Gravel is subangular and subrounded fine to coarse 3.15- 3.20 3.20- 3.50 D в 3.50- 3.60 D 17 flint and chalk. 1.50 3.80- 4.25 S16 D (DRY) 4.50- 4.60 34.06 D 4.50 Stiff light brownish grey slightly gravelly sandy CLAY with a low cobble content of subangular flint and chalk. Gravel is subangular and subrounded fine to coarse flint and chalk. 4.80- 5.30 B 4.80- 5.25 UT60 4.80 182 18 (DRY) 5.25- 5.30 D 17 5.50- 6.00 5.50- 5.60 в D 6.00- 6.45 D 5.50 s25 (DRY) 6.50- 6.60 6.60- 7.00 6.50 32.06 D Stiff dark grey slightly gravelly sandy CLAY with a low cobble content of subangular flint and chalk. Gravel is subangular and subrounded fine to coarse в 7.00- 7.45 UT85 5.50 flint and chalk. 192 14 (DRY) 7.45- 7.50 D 7.70- 7.80 D 14 8.00- 8.50 в Below 8.00m, becoming very stiff. 8.00- 8.45 D 5.50 S30 (DRY) 8.70- 8.80 D 9.00- 9.45 UT80 5.50 (DRY) 9.45- 9.50 D 9.50- 9.90 в 9.90-10.00 D 28.56 10.00 End of Borehole Boring Progress Groundwater Denth Depth)enth tr Denth Depth Denth Remarks on Depth Crew Date Rose to Technique Time of Hole Water Cased Mins Sealed Groundwater Dia Cased Struck Ins**p6¢110¢21P08:**00 L.1.20 DC/LC None enco intere G 06/10/21 18:00 07/10/21 08:00 10.00 0.15 Cable Percussion DC/LC 4.25 1.50 DRY during boring. 4.25 1.50 9.50 DRY 10.00 DRY 07/10/21 18:00 Water was added to assist boring between 0.00 and 2.00m. Inspection pit hand excavated to 1.20m depth and no services were found. A 50mm standpipe was installed to 10.00m with a geowrapped slotted section from 1.00m to 10.00m with upright lockable protective cover. Backfill details from base of hole: gravel Remarks Logged by Checked by CR DRB 1 of 1 Symbols and Figure abbreviations are 19/11/2021 filter up to 1.00m, bentonite up to 0.20m, concrete up to ground level. explained on the accompanying eeinteeloep key sheet.

All dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020



Appendix 5 Geotechnics Trial Pit Logs

DATA SHEET - Symbols and Abbreviations used on Records

| | A SHEET – Symbols an e Types | Groundwater | | Strata, Continued | G |
|--------------|---|---------------------------|---------------------|---|---|
| · · · | | | $\overline{\nabla}$ | | |
| В | Bulk disturbed sample | Water Strike | Y | Mudstone | |
| BLK | Block sample | Depth Water Rose To | T | | |
| C | Core sample | Instrumentation | | Siltstone | * * * * * * |
| D | Small disturbed sample (tub/jar) | Instrumentation | | | × × × × × × × × × × × × × × × |
| Е | Environmental test sample | | 55 | Metamorphic Rock | x x x x x |
| ES | Environmental soil sample | Seal | 11 | Fine Grained | ~~~~~~ |
| EW | Environmental water | | 22 | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| ~ | sample | | • | Medium Grained | ~~~ |
| G | Gas sample | | - | | ~~~ |
| L LB | Liner sample | Filter | | Coarse Grained | \sim |
| Р | Large bulk disturbed sample Piston sample (PF - failed P | | | | \sim |
| Г | sample) | | | Igneous Rock | V V V V V |
| ΤW | Thin walled push in sample | | 55 | Fine Grained | |
| U | Open Tube - 102mm | Seal | 55 | | ++++ |
| | diameter with blows to take sample. (UF - failed U | | | Medium Grained | + + + + + |
| | sample) | | | | + + + + |
| UT | Thin wall open drive tube sampler - 102mm diameter | Strata | Legend | Coarse Grained | |
| | with blows to take sample. | Made Ground | | De al-CII Mataniala | |
| | (UTF - failed UT sample) | Granular | | Backfill Materials | 573 |
| V | Vial sample | Made Ground | | • • • • | 8 |
| W # | Water sample | Cohesive | | Arisings | 8 |
| | Sample Not Recovered | | | | X |
| Insitu | Testing / Properties | Topsoil | | Bentonite Seal | |
| CBRP | CBR using TRL probe | | | | |
| CHP | Constant Head | Cobbles and Boulders | | - | ¢. |
| | Permeability Test Electrical conductivity | | 200 | Concrete | • |
| TC | Thermal Conductivity | Gravel | | | <u> </u> |
| TR | Thermal Resistivity | | · · · · · | Fine Gravel Filter | |
| HV | Strength from Hand Vane | | | | |
| ICBR IDEN | CBR Test Density Test | Sand | | | |
| IRES | Resistivity Test | | | General Fill | |
| MEX | CBR using Mexecone | Silt | × × × × | | . r |
| | Probe Test | | × × × | Gravel Filter | |
| PID | Photo Ionisation Detection (ppm) | - | × Û × Ĵ | Graver Filter | : |
| PKR | Packer Permeability Test | Clay | | | |
| PLT | Plate Load Test | | | Grout | |
| PP | Strength from Pocket Penetrometer | _ | NVA. | | |
| Temp | Temperature | Peat | N/C N/C | Sand Filter | 0000 |
| VHP | Variable Head Permeability Test | | MZ. | Sand Tiller | 0.0 |
| VN | Strength from Insitu Vane | | ALC. | | |
| w% | Water content | Note: Composite soil type | s shown | Tarmacadam | И |
| (All ot | her strengths from | by combined symbols | | | |
| S | ed triaxial testing) Standard Penetration Test | Chalk | | Rotary Core | |
| · | (SPT) | | | RQD Rock Quality D | esignation |
| C | SPT with cone | Limestone | | (% of intact cor | |
| N -/- | SPT Result Blows/penetration (mm) | | | FRACTURE INDEX Fractures/metre | e |
| - | after seating drive | | | FRACTURE Maximum SPACING (m) Minimum | |
| -*/- (mm) | Total blows/penetration | Sandstone | | NA Non-applica | able |
| (mm) () | Extrapolated value | | | NI Non-intact NR No core re | |
| () | | | | AZCL Assumed ze | one of core |
| | | Coal | | loss (where core recovery is unkno | wn it is |
| | | | | | |

GeoTechnics

Trial Pit

Engineer

J MURPHY & SONS LIMITED

Trial PitTP2Project NoPC21

TP21-01 PC218256

National Grid Coordinates 621748.760E 301776.087N Client Ground Level 29.93 m OD J MURPHY & SONS LIMITED Scale 1:50 Samples and Tests Strata Level Stratum Depth Туре Depth Legend Results Description m OD No 29.93 G.L. TOPSOIL: Dark brown slightly gravelly sand with occasional pockets (up to 70mm in size) of slightly clayey sand. Gravel is angular to subangular fine to 0.20 0.25 0.40 0.50 D ES 0.30 29.63 D ES coarse sandstone and flint. 0.61 29.32 Light brown slightly gravelly clayey SAND. Gravel is angular to subangular fine to coarse sandstone and 1.00- 1.50 в D flint. mc=16% 1.00 Firm light greyish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse sandstone, chalk and flint. 1.50 в 2.50- 3.00 в _ 3.00 в 3.20- 3.30 mc=15% At 3.20m, becoming orangish brown. D 3.50- 4.00 в 25.93 4.00 4.00 в End of Excavation Excavation Groundw ater Depth of Pit Depth Plant Width (B) JCB 3CX 31/08/2021 Details 0.65 Observe Date Length (Ć) 2.40 Shoring None. None encountered during excavation. Date Backfilled 31/08/2021 Stability Stable during excavation. Logged by Checked by Remarks ES sample = 2 x vial, 1 x plastic jar and 2 amber jar. ASS Backfill details from base of hole: arisings up to ground level. CIE DRB Symbols and Figure 1 of 1 abbreviations are 19/11/2021 explained on the accompanying eginies <u>e</u>e kev sheet. All dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020

Trial Pit

Engineer

J MURPHY & SONS LIMITED

Trial Pit Project No

TP21-02 PC218256

National Grid Coordinates 621940.558E 301858.781N Client Ground Level 25.47 m OD J MURPHY & SONS LIMITED Scale 1:50 Samples and Tests Strata Level Stratum Depth Туре Results Description Depth Leaend m OD No 25.47 G.L. TOPSOIL: Light brown slightly gravelly slightly silty and. Gravel is subangular to rounded fine to coarse 0.00- 0.50 в ES 0.15 flint. 0.30 25.17 0.50- 1.00 в Light yellowish brown very gravelly very silty SAND with a low cobble content of angular to subangular flint. Gravel is angular to subrounded fine to coarse 0.90 ES flint. 1.00- 1.50 1.15 24.32 в Light orangish brown slightly gravelly SAND with a low cobble content of subangular flint. Gravel is angular to subrounded fine to coarse flint. 1.50 D _ 2.00 D 2.36- 2.75 в 2.35 23.12 Firm light greyish brown slightly sandy slightly gravelly CLAY. Gravel is angular to rounded fine to coarse flint and chalk. 2.85 22.62 Light yellowish brown very sandy silty GRAVEL with a high cobble content of subangular to subrounded flint. Gravel is angular to subrounded fine to coarse 3.00 D flint. 3.50- 4.00 в 4.00 21.47 4.00 D End of Excavation Groundw ater Excavation Depth of Pit Depth Plant Width (B) ЈСВ ЗСХ Details 0.65 Observe Date Length (Ć) 27/08/2021 2.40 Shoring None. None encountered during excavation. Date Backfilled 27/08/2021 Stability Multiple minor collapses during excavation. Remarks E sample = 2 x vial, 1 x plastic jar and 2 amber jar. Logged by Checked by CIE DRB 1 of 1 Symbols and Figure abbreviations are 19/11/2021 explained on the accompanying gedi eeimiee kev sheet. All dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020

Trial Pit

Engineer

J MURPHY & SONS LIMITED

Trial PitTPProject NoPC2

TP21-03 PC218256

| Client J MUE | RPHY & S | SONS L | IMITED | National Grid 621819 Coordinates 302017 | | G | Fround Leve | 26.97 m | OD |
|--|--------------------|--------------------|--------------------------------|--|--|-----------------|-------------|---|-----------------------------------|
| Samples and | d Tests | | | Strata | | | | Scale 1: | :50 |
| Depth | Туре | Stratum No | Results | Description | | | Depth | Legend | Level m OD |
| 0.00- 0.50 0.15 0.20 0.50- 1.00 | B D ES B | | | TOPSOIL: Dark brown slight angular to subangular fine Light orangish brown grave | to coarse flint. | | G.L. | | 26.97 |
| 0.50 0.95 1.00-1.50 | D ES B | | mc=7.1% | occasional pockets (up to clay and a low cobble cont Gravel is angular to subro | 100mm in size) of ent of subangular | sandy flint. | | | - - - |
| 1.20 | D D | | | | | | | | - - - |
| 2.00- 2.50 2.00 2.50- 3.00 | B D B | | | | | | | | 4 < • |
| - 3.00- 3.50 - 3.00 | B B | | | Soft to firm light greyish slightly gravelly CLAY. Gr subrounded fine to coarse | avel is angular to | andy o | 2.60 | | 24.37 |
| 3.00 3.50- 4.00 | D B | | mc=17% | | \sim | | | | |
| 4.00 4.00 | B D | | | End of E | xcavation | | 4.00 | $\frac{\begin{array}{c} \circ & \circ & \circ \\ \circ & \circ & \circ \\ \hline & \circ & \circ \\ \hline & \sigma & \circ \\ \hline & \sigma & \circ \\ \hline \end{array} \begin{array}{c} \circ & \circ & \circ \\ \circ & \circ & \circ \\ \hline & \circ & \circ \\ \hline \end{array} \begin{array}{c} \circ & \circ \\ \circ & \circ \\ \hline \end{array} \begin{array}{c} \circ & \circ \\ \circ & \circ \\ \hline \end{array} \begin{array}{c} \circ & \circ \\ \circ & \circ \\ \hline \end{array} \begin{array}{c} \circ & \circ \\ \circ \\ \end{array} \begin{array}{c} \circ \\ \circ \\ \circ \\ \circ \\ \end{array} \begin{array}{c} \circ \\ \circ \\ \circ \\ \circ \\ \end{array} \begin{array}{c} \circ \\ \circ \\ \circ \\ \end{array} \begin{array}{c} \circ \\ \circ \\ \circ \\ \circ \\ \end{array} \begin{array}{c} \circ \\ \circ \\ \circ \end{array} \begin{array}{c} \circ \\ \circ \\ \circ \end{array} \begin{array}{c} \circ \\ \circ \\ \circ \end{array} \begin{array}{c} \circ \end{array} \begin{array}{c} \circ \\ \circ \end{array} \begin{array}{c} \end{array} \begin{array}{c} \circ \end{array} \begin{array}{c} \end{array} \end{array} \begin{array}{c} \end{array} \begin{array}{c} \end{array} \end{array} \end{array} \begin{array}{c} \end{array} \end{array} \begin{array}{c} \end{array} \end{array}$ | 22.97 |
| | | | | | | | | | |
| Excavation | | | | | Groundwater | | | | |
| Plant JCB 26/08 | 3/2021 | | | Vidth (B) 0.65 ength (C) 2.40 | Depth Depth Observed of Pit | Details | | | |
| Shoring None. Stability Stabl | le durin | | avation. | Date Backfilled 26/08/2021 | | one encounte | red during | g excavation. | |
| Symbols and abbreviations are explained on the accompanying key sheet. | ES samp Backfil | ple = : ll deta | 2 x vial, 1 x ails from bas | x plastic jar and 2 amber jar se of hole: arisings up to gr | ound level. | | | Checked by I Figure 1 | CP DRB 1 of 1 19/11/2021 |
| All dimensions are in metres. | Logged in | accordan | ce with BS5930:201 | 5 + A1:2020 | | | | - < | |

Trial Pit

Engineer

J MURPHY & SONS LIMITED

Trial Pit Project No

| | TP21-04 |
|---|----------|
|) | PC218256 |

| Depth Type No. Description 0.300 0.30 No. Description Office | Client J MURPHY & SONS | 5 LIMITED | National Grid 622032 Coordinates 302131 | | Gr | ound Leve | el 29.52 m | OD |
|---|--|-------------|---|---|-----------------------------|--------------------------------------|--|--------------------------------------|
| Depart Type No No Description County of the second lightly gravitly easy with easy of the second lightly gravitly easy with easy of the second lightly easy of the | Samples and Tests | | Strata | | | 1 | Scale 1 | :50 |
| topological constraints of the second c | | | Description | | | Depth | Legend | Level m OD |
| 1.00-1.30 a a=13* Interpretation In | 0.20 ES 0.25 D 0.50-1.00 B | | pockets (up to 60mm in siz Gravel is angular to subro | e) of slightly sa unded fine to coa | andy clay. arse flint. | - | | 29.52 29.22 |
| 1.50 B 2.60 2.50 3.50 B 2.60 3.50 B D 2.60 3.50 B D 2.60 3.50 B D 1.60 D | - 1.00- 1.50 B - 1.10 ES 1.25 D | mc=13% | CLAY with a medium cobble Gravel is angular to subro and flint. Firm light greyish brown s gravelly CLAY. Gravel is a | content of angula unded fine to coa lightly sandy sl: | ar flint. arse chalk | - 1.15 | | 28.37 |
| 3.00 B 3.00 B 3.00 B 4.00 D 4.00 D <td< td=""><td>- 1.50 B - 2.00- 2.50 B - 2.00 D</td><td></td><td></td><td></td><td></td><td></td><td></td><td>- - - - - - - -</td></td<> | - 1.50 B - 2.00- 2.50 B - 2.00 D | | | | | | | - - - - - - - - |
| 4.00 B mon16% Bind of Expervation 4.00 Section 2 2 4.00 D mon16% Bind of Expervation | - 3.00 B 3.00 D | | | $\overline{\langle}$ | • | - - - - - - - - | <td>- - - - - -</td> | - - - - - - |
| Plant JCB 3CX Width (B) 0.65 Depth Depth Details Date 26/08/2021 Date Backfilled 26/08/2021 Depth Depth Details Stability Stability Stable during excavation. Date Backfilled 26/08/2021 None encountered during excavation. Remarks ES sample = 2 x vial, 1 x plastic jar and 2 amber jar. Backfill details from base of hole: arisings up to ground level. Logged by CP Checked by Infigure 1 of an of the provision | | mc=16% | End of E | xcavation | | 4.00 | | 25.52 |
| Stability | Plant JCB 3CX Date 26/08/2021 | L | ength (C) 2.30 | Depth Depth Observed of Pit | | ed during | g excavation. | |
| Symbols and Figure 1 of abreviations are explained on the accompanying | Stability Stable during e | excavation. | | | | | Logged by | CP |
| All dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020 | Symbols and abbreviations are explained on the accompanying key sheet. All dimensions | | | ound level. | | | Figure | 1 of 1 19/11/2021 |

Trial Pit

Engineer

J MURPHY & SONS LIMITED

Trial Pit Project No

TP21-06 PC218256

621799.024E 302101.768N National Grid Coordinates Client Ground Level 27.33 m OD J MURPHY & SONS LIMITED Scale 1:50 Samples and Tests Strata Level Stratum Depth Туре Depth Results Description Leaend m OD No 27.33 G.L. 0.00- 0.50 0.10- 0.20 0.25 TOPSOIL: Dark brown slightly gravelly sand. Gravel is angular to subrounded fine to coarse flint. в D ES 0.35 26.98 0.45- 0.55 Light orangish brown gravelly very silty SAND with pockets (up to 350mm in size) of greyish brown clay. Gravel is angular to rounded fine to coarse chalk and D B 0.50- 1.00 flint. 1.00- 1.50 1.10- 1.20 в D 1.10 ES 1.50- 2.00 в 1.50 D 1.60- 1.70 D 1.80 25.53 2.00-2.50 в Firm light greyish brown mottled orangish brown mc=8.2% slightly sandy slightly gravelly CLAY with a medium cobble content of subangular chalk and flint. Gravel 2.00 D is angular to subrounded fine to coarse chalk and 2.50- 3.00 в flint. 3.00 в 3.00- 3.50 3.00 в D 3.50- 4.00 в 4.00 23.33 4.00 в At 4.00m, grading to slightly sandy slightly gravelly clayey SILT. 4.00 D mc=15% End of Excavation Г Excavation Groundw ater Depth of Pit Depth Plant Width (B) ЈСВ ЗСХ Details 0.65 Observe Date Length (Ć) 25/08/2021 2.30 Shoring None. None encountered during excavation. Date Backfilled 25/08/2021 Stability Multiple minor collapses during excavation. Logged by Checked by Remarks ES sample = 2 x vial, 1 x plastic jar and 2 amber jar. ASS Backfill details from base of hole: arisings up to ground level. CIE DRB 1 of 1 Symbols and Figure abbreviations are 19/11/2021 explained on the accompanying eededmies kev sheet. All dimensions are in metres. Logged in accordance with BS5930:2015 + A1:2020

Trial Pit

Engineer

J MURPHY & SONS LIMITED

Trial Pit Project No

TP21-07 PC218256

| Client J MUR | PHY & S | SONS LI | MITED | National Grid 621688 Coordinates 301991 | | G | Ground Leve | 31.16 m | OD |
|---|--------------------|--------------------|-------------------------------|--|-------------------------|----------------------------------|-------------|---|----------------------------------|
| Samples and | Tests | n | | Strata | | | | Scale 1 | 50 |
| Depth | Туре | Stratum No | Results | Description | | | Depth | Legend | Level m OD |
| - 0.00- 0.50 - 0.20 - 0.25- 0.35 - 0.50- 1.00 | B ES D B | | | MADE GROUND: Dark brown sl clayey sand. Gravel is ang coarse flint and rare bric | ular to subr | elly slightly counded fine to | G.L. | | 31.16 |
| - 0.80- 0.90 - 0.90 - 1.00- 1.50 - 1.50- 2.00 | D ES B B | | | Light orangish brown grave occasional pockets (up to angular to subrounded fine | 120mm in siz | e). Gravel is | 0.90 | | 30.26 |
| - 2.00- 2.50 - 2.00 | B D | | | | | | 2.40 | | 28.76 |
| - 2.50- 3.00 - - - - 3.00- 3.50 | в | | | Light orangish brown grave occasional pockets (up to Gravel is angular to round | 80mm in size | e) of grey clay. | | | |
| - 3.00 - 3.50- 4.00 | D B | | | | | | | | |
| 4.00 | D | | | End of E | xcavation | | 4.00 | о х ,, ох,, | 27.16 |
| | | | | | | | | | |
| Excavation | | | | | Groundwa | iter | | | |
| Plant JCB 3 Date 24/08 | CX /2021 | | | Width (B) 0.65 ∟ength (C) 2.20 | Depth Depth Observed of | epth f Pit | | | |
| Shoring None. Stability Stabl | e duri: | | Ivation. | Date Backfilled 24/08/2021 | | None encounte | red during | excavation. | |
| Remarks Symbols and abbreviations are explained on the accompanying key sheet. All dimensions | ES samı Backfil | ple = 2 11 deta | 2 x vial, 1 : ails from ba | x plastic jar and 2 amber jar se of hole: arisings up to gr | ound level. | | | Checked by I Figure | CP DRB L of 1 9/11/2021 |
| | Logged in | accordan | ce with BS5930:20 | 15 + A1:2020 | | | | 7 | |

Trial Pit

Engineer

J MURPHY & SONS LIMITED

Trial PitTP2Project NoPC21

TP21-08 PC218256

| Client J MUR | PHY & S | SONS LI | MITED | | 9.838E 7.053N | G | round Leve | el 31.86 m | OD |
|---|--------------------|--------------------|----------------------------|---|--|----------------------|----------------------------------|------------------------|----------------------------------|
| Samples and | Tests | | | Strata | | | | Scale 1 | 50 |
| Depth | Туре | Stratum No | Results | Description | | | Depth | Legend | Level m OD |
| 0.00- 0.40 0.20- 0.30 | B D | | | MADE GROUND: Dark brown s Gravel is angular to subr and rare brick. | lightly gravelly ounded fine to co | sand. Darse flint | G.L. | | 31.86 |
| _ 0.50- 0.95 - 0.60- 0.70 - - 1.00- 1.10 | B D D | | | Light greyish brown mottl sandy slightly gravelly C (up to 70mm in size) of c subangular to subrounded | LAY with occasior layey sand. Grave | al pockets l is | 0.45 - - - - 1.00 | | 31.41 30.86 |
| -1.10-1.10 - 1.10- 1.50 - 1.40- 1.50 | B D | | | Light orangish brown slig CLAY. Gravel is subangula coarse flint. | htly sandy slight | ly gravelly | | | 30.86 |
| - 2.00- 2.50 | в | | | | | | | | 20. 50 |
| - 2.00 - 2.50- 3.00 | D B | | mc=17% | Firm light greyish brown slightly gravelly CLAY wi subrounded chalk. Gravel fine to coarse chalk and | th a low cobble o is subangular to | content of | - 2.10 - - | | 29.76 |
| 3.003.50 3.00 | B D | | | | | | | | - - - - |
| 3.50- 4.00 | В | | | | | | | | |
| 4.00 | D | | mc=16% | End of | Excavation | · | - 4.00 - | <u></u> | 27.86 |
| - | | | | Q^{V} | | | | | |
| | | | \langle | | | | - - - - - - - | | |
| - - - - - | | | | | | | - - - - | | |
| - - - - - - | | | | | | | | | |
| - - - - | | | | | | | | | |
| - - - - - | | | | | | | | | |
| - - - | | | | | | | - - - | | |
| Excavation | | 1 | | | Groundwater | 1 | п | 1 | 1 |
| Plant JCB 3 Date 23/08 Shoring None. | /2021 | | | Width (B) 0.65 Length (C) 2.85 | Depth Depth Observed of Pit | Details | | | |
| Stability Multi | | nor col | lapses duri. | Date Backfilled 23/08/2021 ng | | None encounter | .eu auring | , excavation. | |
| Remarks | ES samı Backfil | ple = 2 11 deta | 2 x vial, 1 ils from ba | x plastic jar and 2 amber ja se of hole: arisings up to g | r. round level. | <u> </u> | | Checked by I Figure | CP DRB L of 1 9/11/2021 |
| accompanying key sheet. All dimensions | 1.0077-11 | | | 15 - 14-2020 | | | | <u>beg</u> | miss |
| are in metres. | Logged in | accordan | e with BS5930:20 | 15 + AT2020 | | | | | |

Project Number : PC218256

Project : Equinor Feed Phase I



TP21-01 Pit

TP21-01 Side



Project Number : PC218256

Project : Equinor Feed Phase I



TP21-01 Spoil

TP21-02 Pit



Project Number : PC218256

Project : Equinor Feed Phase I



TP21-02 Side

TP21-02 Spoil



Project Number : PC218256

Project : Equinor Feed Phase I



TP21-03 Pit

TP21-03 Side



Project Number : PC218256

Project : Equinor Feed Phase I



TP21-04 Pit

TP21-04 Side



Project Number : PC218256

Project : Equinor Feed Phase I



TP21-04 Spoil

TP21-06 Pit



Project Number : PC218256

Project : Equinor Feed Phase I



TP21-06 Side

TP21-06 Spoil



Project Number : PC218256

Project : Equinor Feed Phase I



TP21-07 Pit



Project Number : PC218256

Project : Equinor Feed Phase I



TP21-08 Pit

TP21-08 Side



Project Number : PC218256

Project : Equinor Feed Phase I







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