



Geo-Environmental

GROUND APPRAISAL REPORT

for the site at

PROPOSED SPORTS PITCHES &

A264 NEW ACCESS ROADWAY

NORTH HORSHAM, WEST SUSSEX

RH12 4QR

on behalf of

LEGAL & GENERAL STRATEGIC LAND

NORTH HORSHAM LIMITED





Report:	GROUND APPRAISAL REPORT
Site:	PROPOSED SPORTS PITCHES & A264 NEW ACCESS ROADWAY, NORTH HORSHAM, WEST SUSSEX, RH12 4QR
Client:	LEGAL & GENERAL STRATEGIC LAND NORTH HORSHAM LIMITED
Date:	20/09/22
Reference:	GE20724-GAR-SEPT-22
Version:	2.0
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Revision ref.	Date	Reasons for amendment	Author's initials
1.0	05/08/2022	First issue	AP
2.0	20/09/2022	Revision of Laboratory Results	AP

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EXECUTIVE SUMMARY		
	Site Address	Sports pitches and new access road leading from the A264, North Horsham, West Sussex, RH12 4QR
	Form of Development	The proposed development was to comprise the construction of sports pitches including a pavilion, pumping station and a new access road for the greater part of the development leading from the A264.
Encountered Conditions	Scope of works	An intrusive investigation to confirm the ground and groundwater conditions and support the development of geotechnical and geo-environmental assessments of the site in relation to the proposed development.
	Ground Conditions	The ground conditions comprised a limited thickness of Topsoil and variable thickness of Made Ground overlying Weald Clay Formation.
	Groundwater	Groundwater within the window sampler boreholes was struck at depths of between 0.87m and 2.78m bgl, with depths staying static after drilling had ceased for 20 minutes. The strike within BH101 was within the underlying siltstone of the Weald Clay and was struck at a depth of 12.60m bgl. The water was under artesian pressure and quickly rose to 2.2m above ground level. The borehole was sealed out using bentonite grout. The groundworks contractor should be made aware of the potential to intercept artesian groundwater at depth and should provide a contingency to seal the flow of water and mitigate potential surface flooding if encountered. During the first four visits, groundwater was recorded at depths of between 0.90m and 2.80m bgl.
Geotechnical Considerations	Foundations	Although not strictly applicable to the form of construction it is recommended that the NHBC Standards be followed when designing foundations near trees.' The results of the Atterberg Limit tests classified the soils of the Weald Clay Formation as ranging between low and medium volume change potential in accordance with the NHBC Standards, Chapter 4.2. It is recommended that the Weald Clay Formation be classified <i>en masse</i> as Medium Volume Change Potential in accordance with the NHBC Standards, Chapter 4.2. A minimum founding depth within the Weald Clay Formation of 0.90m is therefore applicable remote from trees. Foundations should not be less than 600mm in width.
	Floor Slabs	Based on the laboratory testing results and the presence of trees and shrinkable soils, it is recommended that suspended ground floor slabs be adopted.
	Excavations	Shallow excavations within the Weald Clay Formation across the site are likely to remain relatively stable in the short term. However, longer deeper excavations any granular horizons within the Weald Clay Formation may be prone to instability and some form of temporary support or battering back to a safe angle may be required.



		In addition, the clays of the Weald Clay Formation will soften rapidly when exposed to water. Therefore, foundation trenches should be concreted or blinded immediately upon excavation.
	Pavements	Based on the laboratory results and TRRL report, a CBR value of 4.5% is recommended.
	Drainage	Due to the very low permeability of the shallow clay soils an alternative form of stormwater drainage recommended.
	Buried Concrete	It is recommended that a design class of DS-2 and an ACEC class of AC-2 be applied to all sub-surface concrete within the Weald Clay Formation.
Considerations	Human Health	All determinands were below their respective screening values for a residential end use without plant uptake and public open space (parks) and as such no further statistical assessment was required. The laboratory testing of the Topsoil, Made Ground and Weald Clay Formation did not identify any asbestos. Additional screening of the Topsoil for pesticides was undertaken and did not identify any concentration above the laboratory detection limit.
	Ground gas	Based on the hazardous gas flows, the site is classed as characteristic gas situation (CS) 1 for any proposed new structures. This should be re-assessed once all six ground gas monitoring visits have been completed.
	Built Environment	The results of the relevant chemical analyses indicated no elevated concentrations hence barrier pipe is unlikely to be required. In addition, pipes are designed to be wholly placed in natural soils. It is recommended that the results of this investigation be presented to the water utility company as soon as reasonably practicable in order to confirm the pipe material.
	Waste Disposal	The laboratory results for all samples of near surface soils were uploaded to Hazwaste Online, a waste soils characterisation assessment tool, which determines whether a generated waste has any hazardous chemical properties based on the recorded laboratory analysis. The results confirmed that the near surface soils did not have any properties that would deem the material hazardous waste and as such could be disposed as non-hazardous.
Further Actions: Pre Construction - The results of this investigation be presented to the water utility company as soon as reasonably practicable to confirm the water pipe material During Construction - A discovery strategy should be maintained during development such that any abnormal conditions (geotechnical or potential contamination) are identified and their potential impact on the proposed development assessed prior to determining any potential mitigation measures.		



1.0 INTRODUCTION

Geo-Environmental Services Limited was instructed by Legal & General Strategic Land North Horsham Limited to undertake an investigation of the geotechnical and geo-environmental factors pertaining to the site for the proposed development of sports pitches including a pavilion, commercial units and a new access road leading from the A264, North Horsham, West Sussex, RH12 4QR. The site's location is presented in Figure 1.

1.1 Development Proposals

The proposed development was to comprise the construction of sports pitches including a pavilion, pumping station, commercial units and a new access road for the greater part of the development leading from the A264.

1.2 Site Description

Sports Pitch Area:

At the time of the site walkover, the proposed sports pitch area comprised a large irregular shaped parcel of land, gently sloping from east to west. An area used for the storage of topsoil was observed in the south west of the site. The topsoil had been stripped, leaving natural subsoil exposed free from vegetation at the surface. The storage area was occupied by c.5 large rectangular stockpiles of natural subsoil, vegetation had self-seeded on a proportion of the stockpiles surface.

An approximately 5m wide strip of grass, with semi mature and mature shrubs and trees beyond surrounded the southern and northern boundaries. Channells Brook and a single lane gravel track ran east-west, immediately north of the area, with a copse comprising mature native trees to the north. A large pond was present in the north west, surrounded by a grass meadow with trees present on all boundaries.

The proposed sports pitch area was bounded to the south by the A264, to the west by an active construction site, and to the north and east by open farmland.

Employment with Proposed A264 Access:

At the time of the site walkover, the proposed employment area and roadway access comprised two irregularly shaped, generally flat and level fields. The two fields formed pasture and were used by local dog walkers (no footpath around the fields). A public footpath ran to the east of the fields, linking to Channells Brook which ran along the northern boundary of the plot.

The surrounding area comprised two larger arable fields with crop present. The fields were lined with mature trees and mature hedgerows and were bounded to the south by the A264, to the south east by a railway line, comprising two railway tracks on a c.1m high embankment, with the A264 beyond, to the west by a building site, and to the north and north east by a mature copse of native trees.

1.3 Standards

Where practicable, the ground investigation and subsequent geotechnical and environmental assessments were undertaken in accordance with the following documents and guidance:

- British Standards Institute - Code of Practice for Earth Retaining Structures (BS8002:2015).



- British Standards Institute - Code of Practice for Site Investigations (BS5930:2015+A1:2020).
- British Standards Institute - Code of Practice for the Design of Protective Measures for Methane and Carbon Dioxide Ground Gases for New Buildings (BS8485:2015+A1:2019).
- British Standards Institute - Eurocode 7 - Geotechnical Design - Parts 1 & 2 (BS EN1997-1:2004 & BS EN1997-2:2007).
- British Standards Institute - Guidance on investigations for ground gas. Permanent gases and Volatile Organic Compounds (VOCs) (BS8576:2013).
- British Standards Institute - Investigation of Potentially Contaminated Sites - Code of Practice (BS10175:2011+A2:2017).
- British Standards Institute - Soils for Civil Engineering Purposes (BS1377:1990).
- British Standards Institute - Specification for Topsoil and Requirements for Use (BS3882:2015).
- Building Research Establishment - Soakaway Design - DG 365 (2016).
- Building Research Establishment - The Performance of Building Materials in Contaminated Land (BRE255) (1994).
- Construction Industry Research and Information Association - Assessing risks posed by hazardous ground gases to buildings (C665) (2007).
- Department for Environment Food and Rural Affairs and CL:AIRE - Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination (SP1010) (2014).
- Department of Environment - Industry Profiles (1995 - 1996).
- Environment Agency - Guidance for waste destined for disposal in landfills (2006).
- Environment Agency - Guidance on Requirements for Land Contamination Reports (2005).
- Environment Agency - Land Contamination: Risk Management (LCRM) (2020).
- Ministry of Housing, Communities and Local Government - National Planning Policy Framework (2019).
- National House Building Council, Environment Agency & Chartered Institute of Environmental Health - Guidance for the Safe Development of Housing on Land Affected by Contamination (R&D Publication 66) (2008).
- National House Building Council - Guidance on evaluation of development proposals on sites where methane and carbon dioxide are present (10627-R01[04]) (2007).
- National House Building Council - Standards, Chapter 4.1 Land Quality - Managing Ground Conditions (2020).
- Network Rail Standard Geotechnical Design NR/L3/CIV/071, 2011.
- CD622, Rev 0 – Managing Geotechnical Risk, Design Manual for Roads and Bridges (DMRB), 2019

1.5 Conditions

This report does not purport to be a “Geotechnical Design Report” as defined in Clause 2.8 of Eurocode 7 (Geotechnical Design BS EN 1997-1:2004) and some of the data used to support the geotechnical assessment may not be fully compliant with that design code, due to the access restrictions at the time of the fieldworks and methods of investigation adopted. It is considered possible that further detailed ground investigations could be required to facilitate the detailed geotechnical design process and should be carried out on a structure specific basis if necessary.

The data collected from the investigations have been used to provide an interpretation of the environmental conditions pertaining to the site. The recommendations and opinions expressed in this report are based on the data obtained. Geo-Environmental takes no responsibility for conditions that either have not been revealed in the available records, or that occurs between or under points of physical investigation. Whilst every effort has been made to interpret the conditions, such information is only indicative and liability cannot be accepted for its accuracy.

It should be noted that in particular the concentrations and levels of mobile liquid and gaseous materials are likely to vary with time. The results obtained may therefore only be representative of the conditions at the time of sampling. This report should not be taken as any guarantee that a site is free of hazardous or potentially contaminative materials.

Information contained in this report is intended for the use of the Client, and Geo-Environmental can take no responsibility for the use of this information by any party for uses other than that described in this report. Geo-Environmental makes no warranty or representation whatsoever express or implied with respect to the use of this information by any third party. Geo-Environmental does not indemnify the Client or any third parties against any dispute or claim arising from any finding or other result of this investigation report or any consequential losses.

Assessment criteria or other parameters developed for the evaluation of contamination on this site are based on a number of assumptions regarding exposure and toxicology, and exposure to contaminants and levels of adverse effects may therefore vary. Whilst every care and expertise has been employed in the development of such criteria, no liability is accepted in this respect. Other criteria or guidance on the development of assessment criteria may be published in the future, and no liability is accepted in this respect.



2.0 GROUND INVESTIGATION SCOPE & RATIONALE

The following sections detail the scope and rationale of the most recent ground investigation undertaken in May 2022. It should be noted that an investigation was also undertaken across the other Phase 2 areas at the same time and this will be reported on separately.

2.1 Investigation Scope

The scope of works for the investigation included:

- Provision of a Construction Phase Plan and RAMS pack presenting a risk assessment and method statement(s) specific to the proposed investigation.
- Attendance of a specialist surveyor to undertake a buried utilities clearance survey of the proposed exploratory hole locations using radio-detection and ground penetrating radar techniques. The survey would include capture of co-ordinates and levels of exploratory holes using GPS surveying.
- Attendance of a Geo-Environmental Engineer to set out and supervise the intrusive investigation, undertake sampling, in-situ testing and logging of recovered soils from exploratory holes.
- Construction of 2No. cable percussive boreholes to a depth of 15m bgl or maximum achievable depth.
- Construction of 2No. rotary boreholes to a depth of 15m bgl or maximum achievable depth.
- Construction of 12No. dynamic sampler boreholes to depths of up to 4m bgl or maximum achievable depth.
- Construction of 10No. trial pits to depths of up to 3.00m bgl or maximum achievable depth.
- Construction of 5No. dynamic probes to depths of up to 7.0m bgl or maximum achievable depth.
- Construction of 8No. trial pits to depths of up to 0.50m bgl.
- Installation of 10No. groundwater monitoring wells to a depth of up to 4m to facilitate return monitoring on six occasions. The wells completed with a lockable cover fitted flush with adjacent ground.
- Geotechnical laboratory testing to support the geotechnical assessment for foundations, ground floor construction and buried concrete design.
- Geochemical laboratory testing for a suite of commonly occurring brownfield contaminants.

2.2 Investigation Rationale

The exploratory holes were located to provide broad coverage across the proposed development area on an approximately 75m grid. The exploratory hole references relating to this phase of development are provided in Table 2.1 below

Hole Type	Hole References
Cable Percussion Boreholes	BH01-BH02
Rotary Cored Boreholes	BH101-BH102
Machine Excavated Trial Pits	CBR01-CBR07, CBR59, TP12-TP13, TP21-TP22, TP25-TP26, TP30-TP31, TP68, TP71
Dynamic Sampler Boreholes	WS01, WS03-WS05, WS20, WS26, WS33, WS36, WS39-WS40, WS75-WS77, WS81, WS92
Dynamic Probes	DP04-DP05, DP08-DP10

Table 2.1 Exploratory Hole References

The following tables summarise the strategy for the environmental (Table 2.2) and geotechnical (Table 2.3) investigations.



Environmental Area of Concern	Investigation	Positions
Near Surface Soils and Made Ground	Window Sampler boreholes situated across the site with Regular sampling and laboratory analysis	All
Ground Gas and Vapours	Ground gas monitoring standpipes installed within the window sampler boreholes.	WS01, WS03-WS05, WS20, WS36, WS39-WS40, WS76, WS92

Table 2.2 Summary of Environmental Investigation Strategy

Geotechnical Area of Concern	Investigation	Positions
Lateral changes in ground conditions	Cable percussion, Rotary and window sampler boreholes and trial pits undertaken with regular in-situ testing and sampling.	All
Shrinkable soils	Cable percussion, rotary and window sampler boreholes and trial pits undertaken with regular in-situ testing and sampling.	All
Highly compressible/low bearing capacity soils (soft clay)	Cable percussion, rotary and window sampler boreholes and trial pits undertaken with regular in-situ testing and sampling.	All
High groundwater table and/or flooding (including waterlogged ground)	Standpipes installed within boreholes and groundwater observations made within all holes during drilling.	BH102, WS01, WS03-WS05, WS20, WS36, WS39-WS40, WS76, WS92
Significant depths of Made Ground	Cable percussion, rotary and window sampler boreholes and trial pits undertaken with regular in-situ testing and sampling.	All
Aggressive chemical ground conditions (sulphates)	Cable percussion, rotary and window sampler boreholes and trial pits undertaken with regular in-situ testing and sampling.	All
Deep foundations associated with the pumping station	Rotary borehole with regular in-situ testing and sampling	BH102
Pavement construction for new access and road	Shallow trial pits within the line of the proposed roadway	CBR01-CBR07, CBR59
Infiltration testing	Preliminary indicative falling head soakage test undertaken within window sampler boreholes.	WS26, WS33, WS75

Table 2.3 Summary of Geotechnical Investigation Strategy



3.0 ENCOUNTERED CONDITIONS

A factual record of the conditions encountered during the physical investigations of the site is presented in the following section.

For further details of the encountered ground conditions, reference should be made to the engineer's logs and sections presented in Appendix A, the groundwater/gas monitoring assessment presented in Appendix B, the geotechnical testing results in Appendix C, and the chemical testing results in Appendix D.

3.1 Ground Conditions

British Geological Survey geological mapping indicated the geology of the site area to comprise the Weald Clay Formation with limited strips of Alluvium within the locations of a brook and ditches, and pockets of the Arun Terrace Deposits. A generalised summary of the encountered ground conditions is presented in the following table.

Top (m bgl)	Base (m bgl)	Geology	Positions
0.00	0.10 - 0.60	TOPSOIL: Light brown and brown slightly gravelly, slightly sandy silty CLAY with abundant rootlets, rare roots, black ferruginous inclusions.	ALL with the exception of WS04 & WS36
0.00	0.30 - 0.40	MADE GROUND: Brown and orange brown silty clay with brick fragments, tile fragments and decomposed organic material.	WS04, WS36
0.10 - 0.60	0.40-4.00	WEALD CLAY: Stiff to very stiff light brown, brown, orange brown, pale grey Stiff to very stiff light brown to pale grey silty/sandy silty CLAY with some weakly cemented silt and siltstone bands.	All
0.20-11.85	2.10-12.90	WEALD CLAY: Brown, orange brown and pale grey laminated, very weak to weak SILTSTONE.	BH01, BH02, BH101, BH102, WS76

Table 3.1 Summary of Ground Conditions

For more detailed descriptions of the ground conditions at specific locations, reference should be made to the exploratory hole logs and sections presented in Appendix B.

3.2 Groundwater

Groundwater was encountered within WS33, WS39, WS40, WS92 and BH101 during the investigation. Groundwater seepages within the window sampler boreholes were struck at depths of between 0.87m and 2.78m bgl, with depths staying static after drilling had ceased for 20 minutes. These strikes are likely to represent pockets of perched water within the more granular horizons or fissures within the Weald Clay. The strike within BH101 was within the underlying siltstone of the Weald Clay and was struck at a depth of 12.60m bgl. The water was under artesian pressure and quickly rose to 2.2m above ground level. The borehole was eventually sealed using bentonite grout.

Monitoring wells were installed within BH102, WS01, WS03-WS05, WS20, WS36, WS39, WS40, WS76, WS92 with six monitoring visits planned (two completed to date). During the first four visits, groundwater was recorded at depths of between 0.90m and 2.80m bgl. The final two sets of results for the monitoring within



this portion of the site will be reported as an addendum report upon completion of monitoring. Full details are presented in Appendix C.

3.3 Ground Gases

Dual purpose gas and water monitoring standpipes were installed within BH102, WS01, WS03-WS05, WS20, WS36, WS39, WS40, WS76, WS92 to depths of between 2.30m and 4.00m bgl. To date, four monitoring visits have been undertaken. During the monitoring, a maximum Methane concentration of 0.2% v/v was recorded, whilst Carbon Dioxide and Oxygen were recorded within the range of 0.0-5.7% v/v and 14.1-21.3% v/v respectively. The maximum borehole flow rate recorded was 0.1l/hr. VOCs were recorded ranging between 0.2-0.6ppm and atmospheric pressure was recorded at between 1006mb and 1017mb. For further details, reference should be made to the ground gas assessment sheet in Appendix C.

3.4 Obstructions

No artificial obstructions were recorded during the investigation. However, BH01 (cable percussive), TP68, WS01, WS03-WS05, WS20, WS26, WS36, WS40, WS75-WS77, WS81 and WS92 refused at depths of between 2.30 and 4.45m bgl and terminated prematurely due to the density/strength of the weakly cemented siltstone and very stiff gravelly clays. BH101 (rotary core) was terminated prematurely at 12.90m bgl due to the artesian water strike. There remains only a low risk for buried artificial obstructions to be present on other parts of the site.

3.5 Geochemical Analysis

In order to assess the general chemical quality of the strata encountered, samples of soils recovered from the exploratory holes were submitted for analysis for a range of potential contaminants selected on the basis of the findings of the desk study and supported by the joint National House Building Council (NHBC), Environment Agency (EA) and Chartered Institute of Environmental Health (CIEH) publication, '*Guidance for the Safe Development of Housing on Land Affected by Contamination*' (2008).

Soil samples were placed into plastic containers for general inorganic analysis and into amber jars for organic analysis. Samples were stored in temperature-controlled conditions from sampling until receipt at the laboratory from which time sample preparation and storage was determined by testing requirements and in line with the laboratory's protocols.

Thirteen soil samples were submitted for analysis for a comprehensive suite of common zootoxic and phytotoxic elements based upon determinants listed within the above guidance. In addition, four samples were scheduled for the testing of a pesticide screening suite.

3.6 Geotechnical Analysis

The results of geotechnical testing undertaken as part of the ground investigation are summarised in Table 3.1 with test results presented in Appendix D.

Parameter	Weald Clay Formation
pH	5.8-7.8
Water soluble sulphate (g/l)	<0.02-0.08
Natural Moisture Content (%)	9.6-27
Liquid Limit (%)	29-64
Plastic Limit (%)	16-29



Plasticity Indices (%)	12-36
Modified Plasticity Indices (%)	10-36
Particle Size Distribution Fines <0.063mm (%)	76.0-82.5
Unconsolidated Quick Undrained Triaxial Compression Test Cu (kPa)	Not tested
SPT 'N' Values	8-65
Unconfined Compressive Strength MPa	0.54-33
Point Load Test (Is (50))	0.01-2.38
BS Light Compaction Test	
Maximum Dry Density (Mg/m ³)	1.61-1.89
Optimum Moisture Content (%)	15-23

Table 3.1: Summary of Geotechnical Laboratory Test Results



4.0 ENGINEERING CONSIDERATIONS

Subsequent to intrusive investigation of the site and receipt of the laboratory results, the following interpretative assessments have been made with respect to engineering considerations.

4.1 Foundations

Based on the ground and groundwater conditions encountered in the boreholes conventional foundations are considered suitable for the proposed development remote from trees.

Although not strictly applicable to the form of construction it is recommended that the NHBC Standards be followed when designing foundations near trees.'

The results of the Atterberg Limit tests classified the soils of the Weald Clay Formation as ranging between low and medium volume change potential in accordance with the NHBC Standards, Chapter 4.2. It is recommended that the Weald Clay Formation be classified *en masse* as Medium Volume Change Potential in accordance with the NHBC Standards, Chapter 4.2. A minimum founding depth within the Weald Clay Formation of 0.90m is therefore applicable remote from trees. Foundations should not be less than 600mm in width.

Within the zone of moisture demand of any existing, proposed or recently felled trees it is recommended that foundation depths be calculated in accordance with the NHBC Standards, Chapter 4.2. Foundations should also be taken through any major root zone and desiccated clay soils should this be found at greater depth. It should be noted that the NHBC stipulate that foundations cast at depths greater than 2.5m should be "engineer designed".

Where calculated foundation depths are in excess of 1.50m on account of trees, heave protection measures should be detailed in accordance with the NHBC Standards, Chapter 4.2.

Based on the typical settlement parameters for the types of soil encountered, a maximum allowable bearing capacity of 150kPa is applicable for trench, strip or isolated pad foundations up to 1.50m in width taken through any Made Ground, soft or loose zones, desiccated or disturbed soils and placed wholly into or onto the stiff silty clays of the Weald Clay Formation. Under this loading settlements should remain within tolerable limits for the proposed construction.

Given the cohesive nature of the Weald Clay Formation, these materials will soften rapidly when exposed to free water, and foundations should be concreted, blinded, or otherwise protected, immediately after excavation.

4.3 Pumping Station

It is understood that a pumping station is to be constructed with the base at a depth of circa 10mbgl in the area of BH102. At this location, the ground conditions generally comprised firm to very stiff orange brown, brown and light brown sandy silty clay and sandy gravelly silty clay. At depth, the Weald Clay Formation became extremely weak, very weak and weak grey laminated siltstone.

Pumping stations are usually constructed by means of sinking a shaft. It is unlikely to be feasible, due to the depth (10m), to construct the pumping station by means of an excavation with temporary slopes cut to a short-term safe angles of repose. Therefore, it is likely that a contiguous, secant or sheet piled retaining wall will be



required, though due to the density of the siltstone at depth the advice of a specialist contractor should be sought regarding the 'driveability' of sheet piles or use of contiguous/secant bored piles.

The excavation process for the pumping station will result in some ground movement due to the changes in vertical stress within the soil resulting from the changes in loading.

The effect of excavating soil is to cause a reduction in stress at the new formation level, due to the weight of the overburden removed. Since typically, construction follows on shortly after excavation, this unloading of the ground is normally modelled as producing a short term (undrained) response. However, if there is a delay in the construction phase, a fully drained response to the unloading may develop. In the case of the proposed development, it is assumed that construction of the pumping station shaft will be quickly followed by construction and hence modelling an undrained response is applicable.

The loading that results from the new construction will apply in the long term, over the structure's lifetime. Hence there will be both a short term and long term response. Generally, the long term behaviour results in larger movements. The overall movement of the ground following construction is, however, driven by the total changes in loading that have occurred; thus it is a combination of the unloading caused by excavation of soil and the imposed loading from the new structure.

The ground response to stress changes have therefore been modelled in the short term for the unloading caused by excavation and removal of overburden pressure. The long term response has been modelled for the estimated net stress change as a result of the excavation and new loading. Details of the loads from the pumping station are yet to be finalised, but provisionally a loading of 50kPa has been assumed for the purposes of this preliminary calculation.

The OASYS Software PDISP (V20) has been used to model the ground movements associated with the changes in stress calculated for the pumping station excavation and subsequent development. PDISP assumes a linear elastic behaviour of the soil and a flexible structure. In reality, the stiffness of the structures will tend to redistribute the movements, when compared to those predicted by PDISP. The movement calculations therefore represent free field movements unaffected by the stiffness of the structures and are likely to be conservative (i.e. the distortions of the structure would be less than those obtained from the predicted movements).

The assessments were undertaken using soil parameters (undrained and drained) derived from the ground investigation to model the stiffness behaviour. A rigid base for the analysis was taken as -20mbgl.

The PDISP outputs denote upward movements (heave) where the number prefixed by a minus sign. Results without any prefix denote downward movements (settlement).

It was estimated that the stress relief due to net unloading at the centre of the pumping station shaft would be approximately 200kPa for which a short-term heave of 2-3 mm occurring within the centre of the excavation has been calculated.

It should be noted that the values of heave given do not take into account any restraining effect from the retaining walls of the shaft.

The movements of the ground following construction were also analysed for the long term (drained) case after the completion of the structure. The PDISP analyses estimated long term heave movements of between 4-5mm at the centre of the shaft.



It is reiterated that these movements are the theoretical movements and are unlikely to be realised in practice due to the restraining effects of the structure.

Provision should be made to accommodate hydrostatic forces (buoyancy) and to this end it is recommended that a groundwater level of <1.0m is considered.

During the drilling of the boreholes artesian groundwater was struck in BH101 at a depth of 12.50m bgl rising to 2.2m above ground level. BH102 remained dry throughout the drilling process.

It is anticipated that perched groundwater bodies will be present within the more permeable less cohesive horizons with the potential for artesian groundwater present within the weakly cemented Siltstone at depth. Consideration will therefore need to be given to the failure of the base of the excavation by uplift or heave. The actions of the foundations alone are unlikely to be sufficient and some form of anchorage such as tension piles are likely to be required.

4.4 Excavations

Shallow excavations within the Weald Clay Formation across the site are likely to remain relatively stable in the short term. However, longer deeper excavations any granular horizons within the Weald Clay Formation may be prone to instability and some form of temporary support or battering back to a safe angle may be required.

In addition, the clays of the Weald Clay Formation will soften rapidly when exposed to water. Therefore, foundation trenches should be concreted or blinded immediately upon excavation.

All excavations intercepting the groundwater table, should it be encountered, will become highly unstable and some form of temporary support and heavy dewatering may be required. Where excavations intercept groundwater under artesian pressure significant construction difficulties will occur together with potential rapid surface flooding. The groundworks contractor should be made aware of the potential to intercept artesian groundwater at depth and should provide a contingency to seal the flow of water and mitigate potential surface flooding if encountered.

Ground works should always be designed in such a manner to avoid man entry into excavations. However, in the event that such works cannot be avoided or designed out, they should only be undertaken in accordance with a safe system of work, following an appropriate risk assessment and in accordance with any legislative requirements, e.g. Confined Spaces Regulations.

4.5 Preliminary Earth Works Criteria

In order to construct the proposed sports pitches a cut and fill exercise will be required. In addition, there will be a requirement to construct a road embankment sloping down from the existing A264 to accommodate the junction and the proposed ring road. Geotechnical laboratory testing was undertaken on samples that are likely to be representative of the proposed earthworks fill materials as identified on site for preliminary design purposes. A summary of the results is presented in Table 4.1.



Property	Results
	Range
Classification	Class 2A – Class 2B
Plastic Limit (%)	16-29
Plasticity Index	12-26
Moisture content (%)	9.6-27%
Optimum Moisture Content %	15-23%
Maximum dry density	1.61-1.89 Mg/m ³

Table 4.1 Summary of Geotechnical Testing Results
Preliminary Earthworks Materials Classification

It is likely that the vast majority of the soils to be won as earthworks will be classified as Class 2A of Specification for Highway Works (SHW) 600 Series. However, some Class 2B and Class 2C material is also likely to be generated. The results have shown the samples to exhibit soil moisture contents on the wet side of the likely acceptability criteria, thus the control of moisture content is likely to be critical in achieving the required compaction. It is probable that some treatment will be required prior to placement and compaction, i.e. setting the overly wet soil aside to dry out and will require additional testing to demonstrate that the soils meet the acceptability criteria set out in any Earthworks Specification.

It is anticipated that works would commence with stripping of Topsoil present across the site and setting aside in segregated stockpiles for potential re-use in due course (subject to results of suitability testing). The cut and fill earthworks would then progress, with excavated soils set aside in stockpiles for temporary storage or moved directly to areas requiring fill for placement and compaction.

Given the presence of some clay horizons with high siltstone and siltstone gravel content, it is anticipated that the materials will require segregation and careful management during the excavation.

Where soils are found to contain significant volumes of siltstone or fragments, these could be set aside for no engineered fill areas where post compaction swelling or heave are not of concern.

On the basis of the testing undertaken to date, it is considered that key criteria to verify compliance during the earthworks would be moisture content, as determined by sampling and laboratory testing of soils from the stockpiled material immediately prior to use and/or sampling immediately post placement.

If material is used as an engineered fill to raise ground levels, it would not be suitable as a bearing stratum for foundations and foundations would need to pass through the fill material.

4.6 Retaining Wall Design

The full design of any proposed retaining structures was beyond the scope of the report. However, the following values are given as a guide to assist in the design of retaining walls. These parameters assume a level surface to the rear of the retaining wall. The values have been obtained from British Standard 8002:2015 entitled "Earth Retaining Structures", based on the encountered strata and a concrete retaining wall construction.

Table 4.2 summarises relevant geotechnical values recommended for the potential retaining structure(s).



Parameter	Clay of the Weald Clay	Siltstone of the Weald Clay
	Value	Value
Critical state angle of shearing resistance (ϕ')°	25	30
Effective Cohesion kN/m ²	0	0
Saturated Bulk Weight (γ_{sat}) kN/m ³	19	20

Table 4.2 Geotechnical parameters for retaining wall design in the Weald Clay Formation

4.7 Floor Slabs

Based on the laboratory testing results and the presence of trees and shrinkable soils, it is recommended that suspended ground floor slabs be adopted. The void space beneath the suspended floor must be designed in accordance with the NHBC Standards, Chapter 4.2.

4.8 Pavements

Where encountered, the Made Ground was noted to be of mixed composition and of limited thickness. The engineering characteristics of such soils are variable and unpredictable and the CBR value of Made Ground does not predict the overall settlements that may occur in such materials. Due to the heterogeneity of the variable amounts of Made Ground it would be prudent to assume the material to be deemed frost susceptible throughout.

As part of the investigation, disturbed samples were taken at c.0.50m bgl from within the line of the proposed roadway at 40m intervals. The samples were then sent for analysis to determine their plasticity indices. The plasticity indices for the eight tests in this part of the site ranged between 14 and 23. Based on the values a characteristic value of 24 was calculated for the Plasticity Index. This characteristic value was based on the 95% fractile i.e. 95% of the results could be expected to be lower than the selected value.

Based on extrapolation the Transport and Road Research Laboratory Report (LR1132) entitled '*The Structural Design of Bituminous Roads*' (1984) cites an estimated equilibrium suction index of 4.5% for clay soils with a Plasticity Index of 24 for a thin pavement, under average construction conditions and a low groundwater level.

Based on the laboratory results and TRRL report, a CBR value of 4.5% is recommended. However, the design CBR should also take account of any Local Authority Highway Design Standard specifications where it is proposed for the roads to be adopted.

Based on the geotechnical results, the near surface Weald Clay Formation should be considered as being non-frost susceptible for pavement design purposes. It is recommended that the sub-grade be proof rolled and any soft spots removed and replaced with a suitable compacted granular fill.

4.9 Sulphates

Eleven pH and Sulphate tests were undertaken on the Weald Clay Formation. The results for the Weald Clay Formation corresponded to design classes DS-1 to DS-2 as defined within the BRE Special Digest 1 (2005). The pH analyses indicate the ACEC class to be between AC-1s and AC-2. It is recommended that a design class of DS-2 and an ACEC class of AC-2 be applied to all sub-surface concrete within this stratum.



4.10 Soakaways

Two preliminary indicative falling head soakage tests were undertaken within WS26 and WS75 at depths of 2.90m and 2.70m bgl respectively. Infiltration was negligible with very poor results due to the cohesive nature of the Weald Clay Formation. Therefore, based on the findings of the soakage testing, an alternative form of stormwater drainage should be used.

The rates from the falling head tests are as follows:

- WS26 – 1.8×10^{-8} m/s
- WS75 – No rate calculated, no drop in head of water.

It is recommended that an alternative form of drainage be used with regards to the discharge of surface water.



5.0 ENVIRONMENTAL CONSIDERATIONS

A Generic Quantitative Risk Assessment (GQRA) was undertaken on the results of the chemical testing on the soil samples, the findings of which are presented in the following sections.

5.1 Environmental Risk Assessment

Based on a visual assessment of the soils encountered, in conjunction with the Desk Study and the proposed end use (sports facility, access roadway and commercial), 13 soil samples from WS01, WS03, WS05, WS26, WS33, WS36, WS39, WS40, WS75, WS77 and WS92 at depths of between 0.10m to 0.60m were submitted for a suite of commonly occurring contaminants including metals, metalloids, inorganic compounds, TPH, PAH and asbestos. In addition, samples from WS01, WS05, WS40 and WS26 were submitted for pesticide screening.

5.2 Soil Contamination vs. End Users

The presence of a possible contaminant does not necessarily imply that a site or area is contaminated or that there is any unacceptable risk to human health. A Preliminary Quantitative Risk Assessment has been undertaken in order to evaluate any unacceptable risks posed to human health with respect to the proposed redevelopment. It should be noted that this assessment is protective of the chronic long-term effects of contaminants, which is also likely to be protective of any possible immediate acute effects.

A quantitative risk assessment has been undertaken initially by comparing the results of the laboratory chemical testing of non-targeted shallow soils in each area against Soil Guideline Values (SGVs), DEFRA Category 4 Screening Levels (C4SLs) or Atkins' ATRISK^{soil} Site Specific Screening Values (SSSVs). In the first instance, the results have been screened against the most sensitive end use proposed for the site i.e. a residential end use without plant uptake and for public open space for parks (sports pitches). Any results that may have been greater than the guideline values or where there are no comparable values, the results have subsequently been compared against Land Quality Management Suitable 4 Use Levels (Subscription No. S4UL3453) (LQM S4UL) and Category 4 Screening Levels (C4SL). Where the screening values have been exceeded, further statistical assessments have been undertaken on the datasets.

Any statistical analysis of the data sets has been undertaken in accordance with guidance contained in the CIEH/CL:AIRE report 'Comparing Soil Contamination Data with a Critical Concentration' (May 2008). If the contamination status of the soils is considered in a planning context, the null hypothesis tested by the analysis is whether the true mean concentration is equal to or greater than the critical concentration for a given determinand, with the critical concentration being the relevant SSAC or GAC (the soil screening value) for that determinand in the context of the intended end use of the site. If the analysis shows that the true mean concentration is less than the critical concentration the null hypothesis can be rejected. The guidance recommends that for the null hypothesis to be rejected the analysis should show that there is a 95% (or higher) likelihood that the true mean concentration is below the critical concentration. Where this is the case the site is considered to be acceptable for the planned end use without the requirement for remediation.

The guidance also provides an outlier test (Grubb's Test), which is undertaken prior to the statistical analysis in order to establish whether there are any anomalous results which could be 'hotspots'. Such results can be removed from the dataset prior to the statistical analysis, but only where there is evidence to support this from the conceptual site model.

Benzo(a)pyrene has been used in the assessment as a surrogate marker for PAH contamination.



All determinands were below their respective screening values for a residential end use without plant uptake and public open space (parks) and as such no further statistical assessment was required. The laboratory testing of the Topsoil, Made Ground and Weald Clay Formation did not identify any asbestos.

Additional screening of the Topsoil for pesticides was undertaken and did not identify any concentration above the laboratory detection limit.

5.3 Soil Contamination vs. Adjacent land Users

Surrounding land uses were identified to mostly comprise pasture and agricultural land. However, no contaminants of concern have been identified to date.

It is recommended that dust suppression techniques, e.g. damping down exposed soils, are employed during the demolition and construction phases on site in order to minimise the potential for airborne migration of specific hazards and to manage potential nuisance issues for adjacent land users. However, this would be subject to review post any further phases of ground investigation.

5.4 Soil Contamination vs. Soft Landscaping

British Standard BS3882:2015 *Specification for topsoil and requirements for use* provides assessment criteria for a number of potentially phytotoxic contaminants in terms of new planting.

The results of the chemical analysis for determinants known to pose a potential phytotoxic risk to plant growth are summarised in Table 6.3 together with the respective adopted Generic Assessment Criteria (GAC) for plant growth. The compliance criteria set out in BS3882:2015 are pH dependent and thus the GAC used relate to the pH range measured on samples recovered from the site.

Determinant	Phytotoxicity GAC (mg/kg)			GAC Exceedances
	pH <6.0	pH 6.0-7.0	pH >7.0	
Zinc	200	200	300	No
Copper	100	135	200	No
Nickel	60	75	110	No

Table 5.3: Summary of Plant Phytotoxicity Assessment

The phytotoxicity assessment did not indicate any exceedances of the assessment criteria. Therefore, no additional measures are considered likely for the proposed redevelopment in relation to phytotoxicity.

5.5 Soil Contamination vs. Building Materials

The current guidance on selection of materials for water supply pipes to be laid in contaminated land is contained in UK Water Industry Research's (UKWIR) report reference 10/WM/03/21 (re-issued 2010). However, the guidance is not mandatory and there have been concerns raised by various industry technical associations regarding the document and the methodologies proposed. Although there are concerns regarding the document, in lieu of any further guidance in the first instance the results of this investigation have been compared with the proposed thresholds published in UKWIR Table 3.1. The results of the relevant chemical analyses indicated no elevated concentrations hence barrier pipe is unlikely to be required. In addition, pipes are designed to be wholly placed in natural soils. It is recommended that the results of this investigation be presented to the water utility company as soon as reasonably practicable in order to confirm the pipe material.



As a matter of good practice, and to maximise the protection to utilities, it is recommended that clean, granular backfill is used in service runs and that marker tapes are used for all buried services.

5.6 Groundwater Contamination vs. Groundwater

Groundwater analysis has not been undertaken during this phase of investigation however, to date no significant mobile contamination has been encountered within soil samples. Therefore, no further action is deemed necessary with regards to groundwater.

5.7 Ground Gases

Dual purpose gas and water monitoring standpipes were installed within BH102, WS01, WS03-WS05, WS20, WS36, WS39, WS40, WS76, WS92 to depths of between 2.30m and 4.00m bgl. To date, four monitoring visits have been undertaken. During the monitoring, a maximum Methane concentration of 0.2% v/v was recorded, whilst Carbon Dioxide and Oxygen were recorded within the range of 0.0-5.7% v/v and 14.1-21.3% v/v respectively. The maximum borehole flow rate recorded was 0.1l/hr. VOCs were recorded ranging between 0.2-0.6ppm and atmospheric pressure was recorded at between 1006mb and 1017mb. Organic matter was noted within deposits of Made Ground but not within the Weald Clay Formation. Decomposed organic material was noted within WS04, within the Made Ground at depths of between ground level and 0.40m bgl.

Historically, the site had formed fields. It should also be noted that the Channells Brook is located within the site boundary with Alluvium present within its immediate surrounding area. Pockets of infilled land were noted historically through the immediate surrounding area. No landfills were identified in close proximity. Therefore, there is a low potential of off-site uses impacting the site.

The theoretical worst case Hazardous Gas Flow (HGFs) have been calculated by multiplying the maximum concentrations with the highest recorded flow rate regardless of whether they offered in the same monitoring well. The worst-case HGFs for methane and carbon dioxide were 0.0002l/hr and 0.0057l/hr respectively. In addition, no significant VOC vapour concentrations were recorded during the site visits. Based on the hazardous gas flows, the site is classed as characteristic gas situation (CS) 1 for any proposed new structures. This should be re-assessed once all six ground gas monitoring visits have been completed.

The results of the ground gas monitoring are presented in Appendix C.

5.8 Waste Disposal

The following information is provided for preliminary guidance purposes, as different facilities or operators may have differing acceptance criteria and Waste Acceptance Criteria (WAC) analysis may be required to confirm the exact classification. In addition, if the intention is to retain excess spoil/arising on site for specific purposes, then these soils would not comprise waste, although this is subject to confirmation and relevant declaration under the Definition of Waste Code of Practice.

Where waste soil is being disposed to landfill it must first be classified as either Hazardous or Non-Hazardous. The classification is carried out in accordance with the Environment Agency's publication WM3 'Waste Classification- Guidance on the classification and assessment of waste'. Waste that is classified as Non-Hazardous in accordance with WM3 may be disposed without further testing to a Non-Hazardous landfill. Alternatively, once the waste soils have been identified, Waste Acceptance Criteria (WAC) testing can be undertaken to establish whether the material can be disposed to an Inert landfill, a subgroup of Non-Hazardous



landfill. It should be noted that inert wastes are typically from a consistent source that meet a number of qualifying criteria, and thus Made Ground commonly will not meet the requirements to be disposed as Inert.

The laboratory results for all samples of near surface soils were uploaded to Hazwaste Online, a waste soils characterisation assessment tool, which determines whether a generated waste has any hazardous chemical properties based on the recorded laboratory analysis. The results confirmed that the near surface soils did not have any properties that would deem the material hazardous waste and as such could be disposed as non-hazardous.

Natural soils (Weald Clay Formation) is likely be suitable for disposal at an inert landfill facility. It is recommended that the results be forwarded onto the landfill operator for final classification.



6.0 Discovery Strategy

Whilst an intrusive investigation has been undertaken on the site, it remains possible that unexpected ground and/or groundwater conditions may be encountered during the process of construction.

Should previously undiscovered contamination or unforeseen ground conditions be encountered during construction by the ground workers, this must be reported to the Site Manager immediately in order that the Consultant is notified. Where deemed necessary, the Consultant shall attend the site to inspect the discovery and provide recommendations on the further actions required, if any. Where necessary the regulatory authority shall be informed. Post any additional investigation or laboratory testing the results and any proposed remedial measures shall be reported to the regulatory authority or other appropriate organisation for consent, before proceeding or implementing the remedial measures.

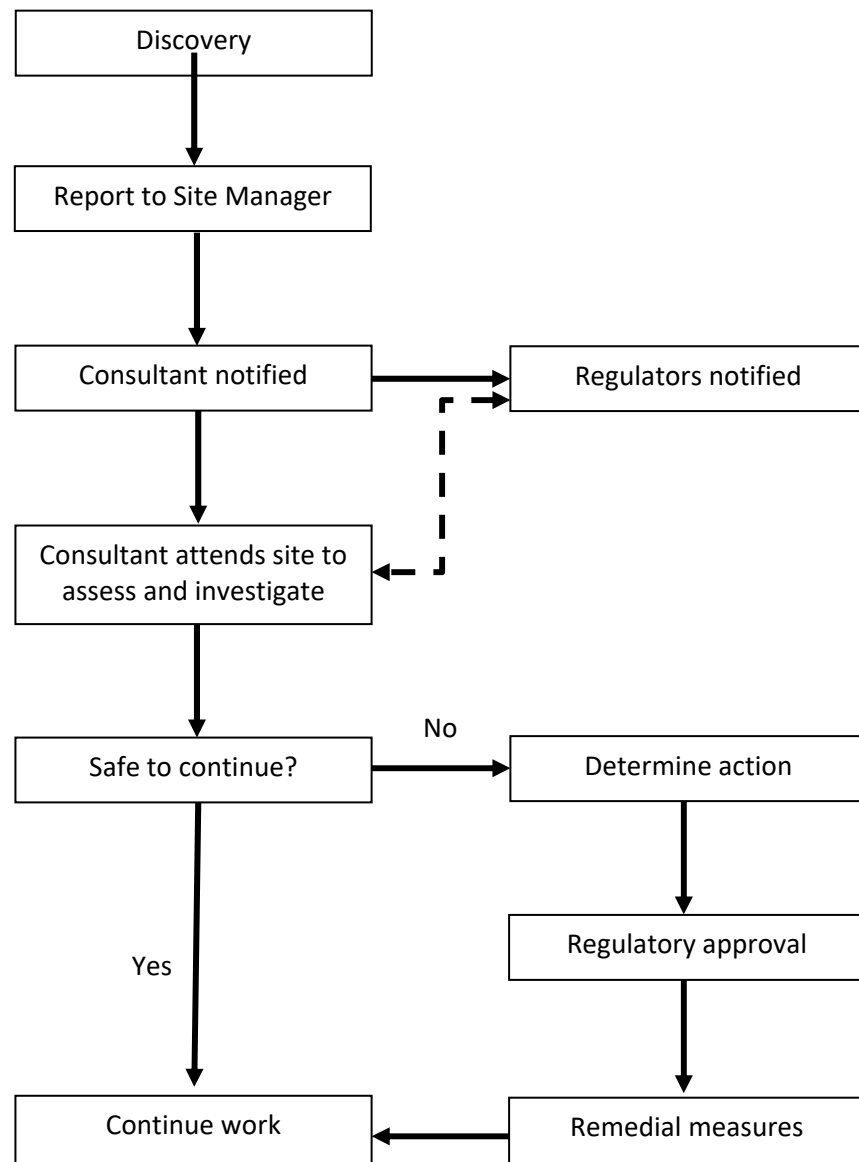
A copy of the discovery strategy must be lodged on site, and provisions made to ensure that all workers are made aware of their responsibility to observe, report, and act on any potentially suspicious, abnormal, unforeseen or contaminated ground and/or groundwater conditions they may encounter.

Depending on the type, nature and extent of any such 'discovery', it may be necessary to halt works in that location until such time as the assessment has been completed. This shall be reviewed on a 'discovery' specific basis and in conjunction with consultation with the client, other technical personnel and/or regulatory/approval organisations.

As a general guide, where such unexpected conditions are encountered the following approach is required as a minimum:

- All discoveries are to be reported to the Site Manager immediately and works at that location are to halt until further notice;
- The Site Manager is to report any such discoveries to the Client and the Consultant;
- Following notification from the Site Manager, the Consultant shall discuss the discovery with the Local Authority and/or other relevant parties and if considered necessary, arrange to meet on site to view the discovery;
- The Consultant shall attend the site to record the location, extent and nature of the discovery and implement an appropriate sampling and analysis regime, taking due account of the type and nature of the discovery, known and probable land uses in that area of the site;
- Where remedial action is required, regulatory consultation and approval will be sought;
- A record will be produced by the Consultant and held on site (with copies held by the Consultant, Client and Local Authority/other relevant organisation), detailing the discovery, assessment works undertaken, findings thereof, confirmation either of no action required or detailing the remedial action taken and validation thereof.

The process is shown below.



Caveat

The data collected from the investigations have been used to provide an interpretation of the geo-environmental conditions pertaining to the site. The recommendations and opinions expressed in this report are based on the data obtained.

Geo-Environmental Service Limited takes no responsibility for conditions that either have not been revealed in the available records, or that occurs between or under points of physical investigation. Whilst every effort has been made to interpret the conditions, such information is only indicative and liability cannot be accepted for its accuracy.

Information contained in this report is intended for the use of the client and their agents, and Geo-Environmental Services Limited can take no responsibility for the use of this information by any third party for uses other than that described in this report.

It should be noted that in particular the concentrations and levels of mobile liquid and gaseous materials are likely to vary with time. The results obtained may therefore only be representative of the conditions at the time of sampling. Such reservations have been indicated in the text where such conditions are considered to apply.

Geo-Environmental Services Limited does not indemnify any third parties such as the vendor against any dispute or claim arising from any finding or result of this investigation or any claim or dispute arising as a result of any decisions made thereof.

Figure 1
Site Location Plan



Project:	North Horsham			Title	Site Plan	
Client:	Legal & General Strategic Land Limited			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net	 Geo-Environmental	
Ref No:	GE20724	Revision:	0			
Drawn:	TG	Date:	22.06.22			
Figure:	1	Scale:	NTS			



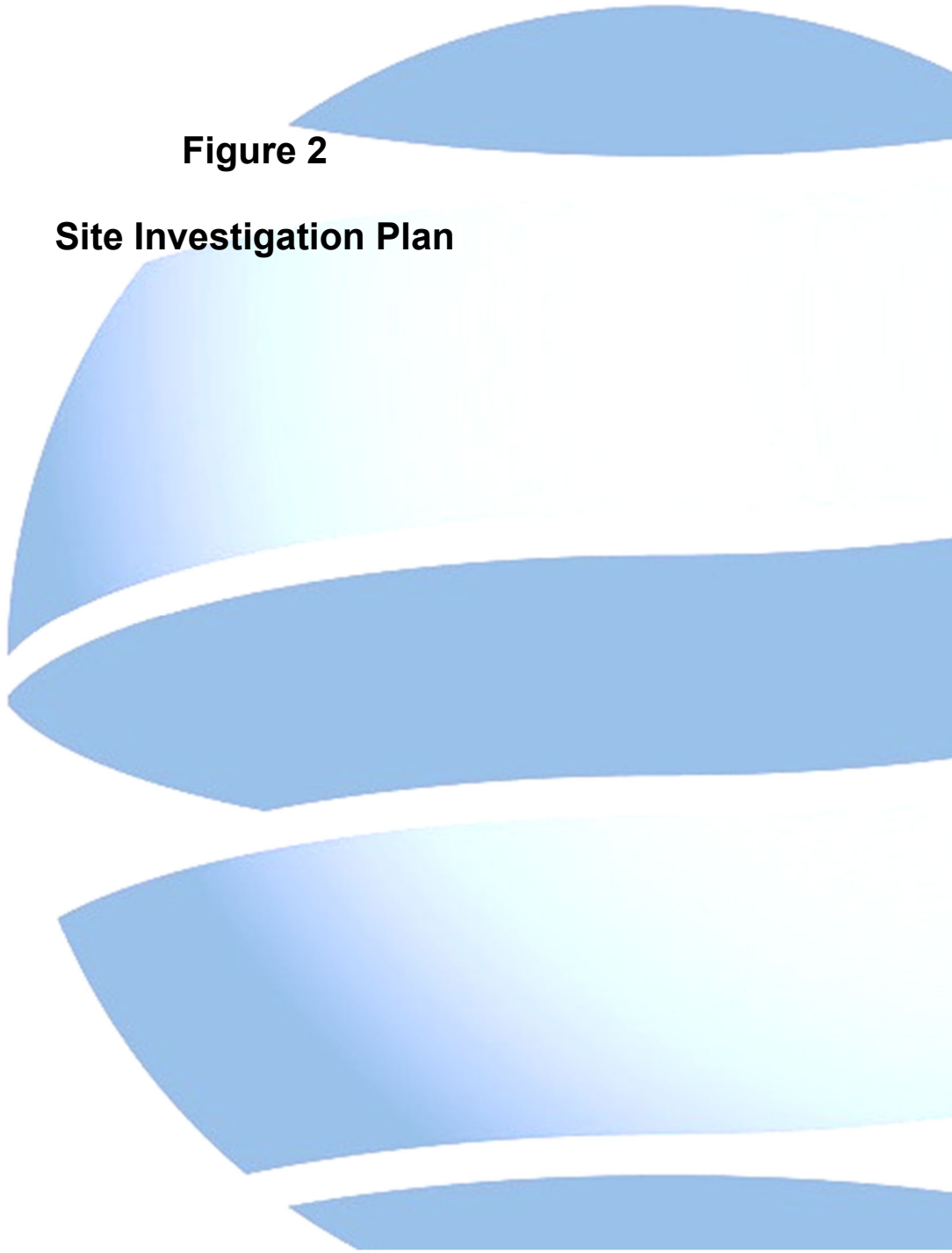
A decorative graphic element consisting of several overlapping, wavy, blue shapes that resemble stylized water or clouds, located on the right side of the page.

Figure 2

Site Investigation Plan

Project Title: North Horsham II
Location : Horsham
Project No. : GE20724
Client : Legal & General

Title : Figure 2 - Exploratory Hole Location Plan
Scale: 1:3000
Engineer: GE



- Legend Key
- Locations By Type - Empty
 - Locations By Type - CP
 - Locations By Type - DP
 - Locations By Type - RC
 - Locations By Type - TP
 - Locations By Type - WLS
 - Sports Pitches and A264
 - Access - Sports Pitches and...
 - Ownership boundaries - 1
 - Ownership boundaries - 2



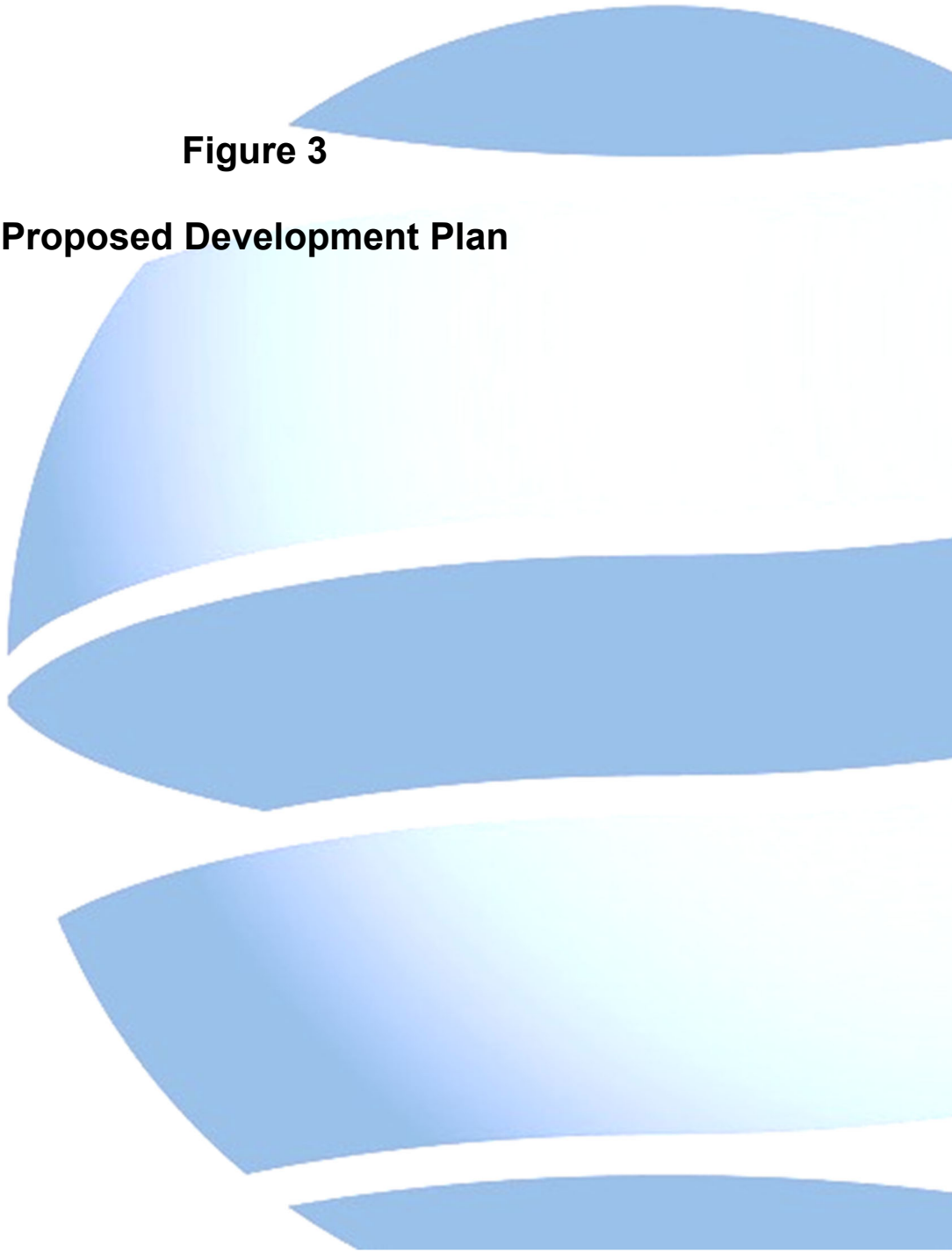
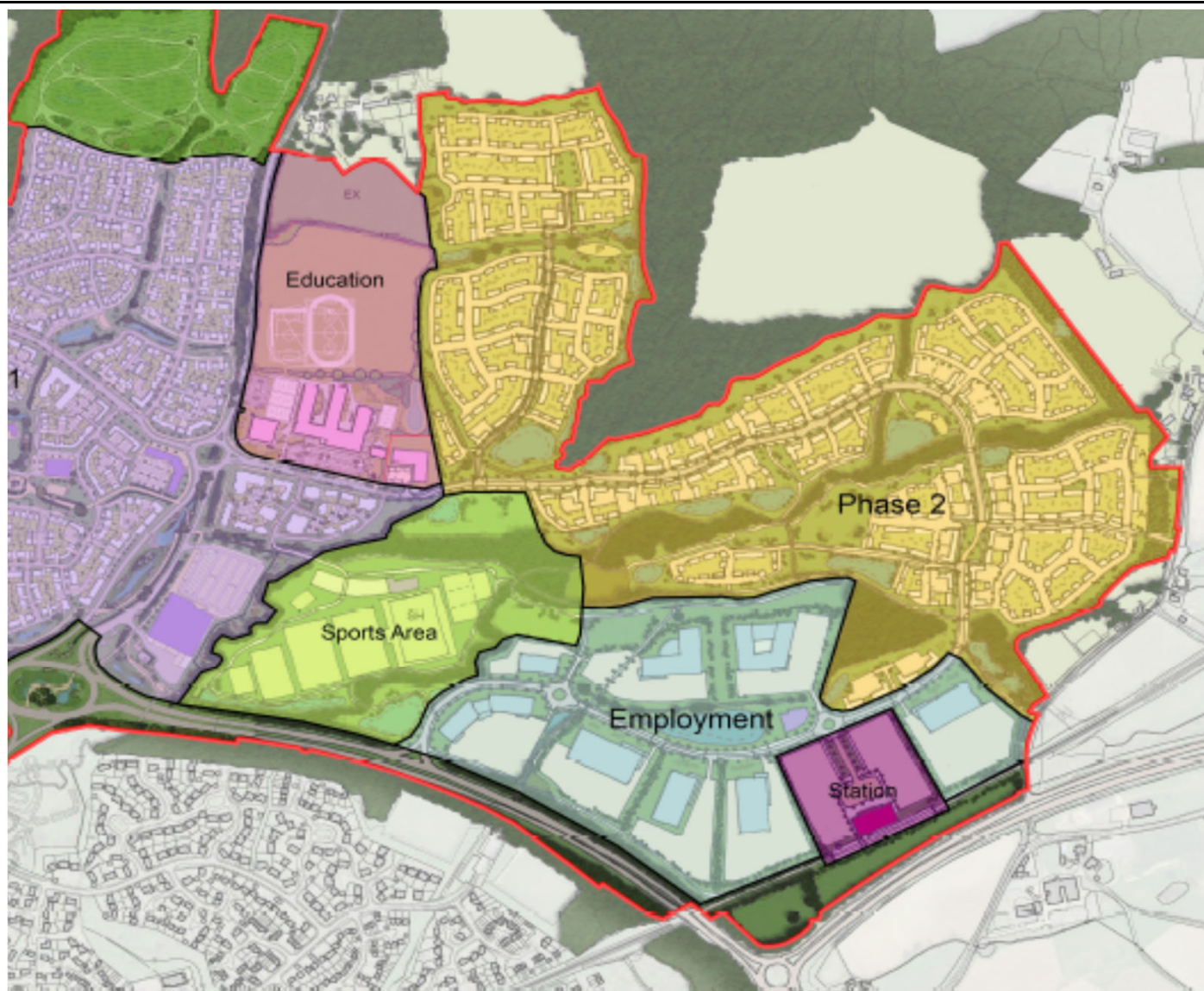
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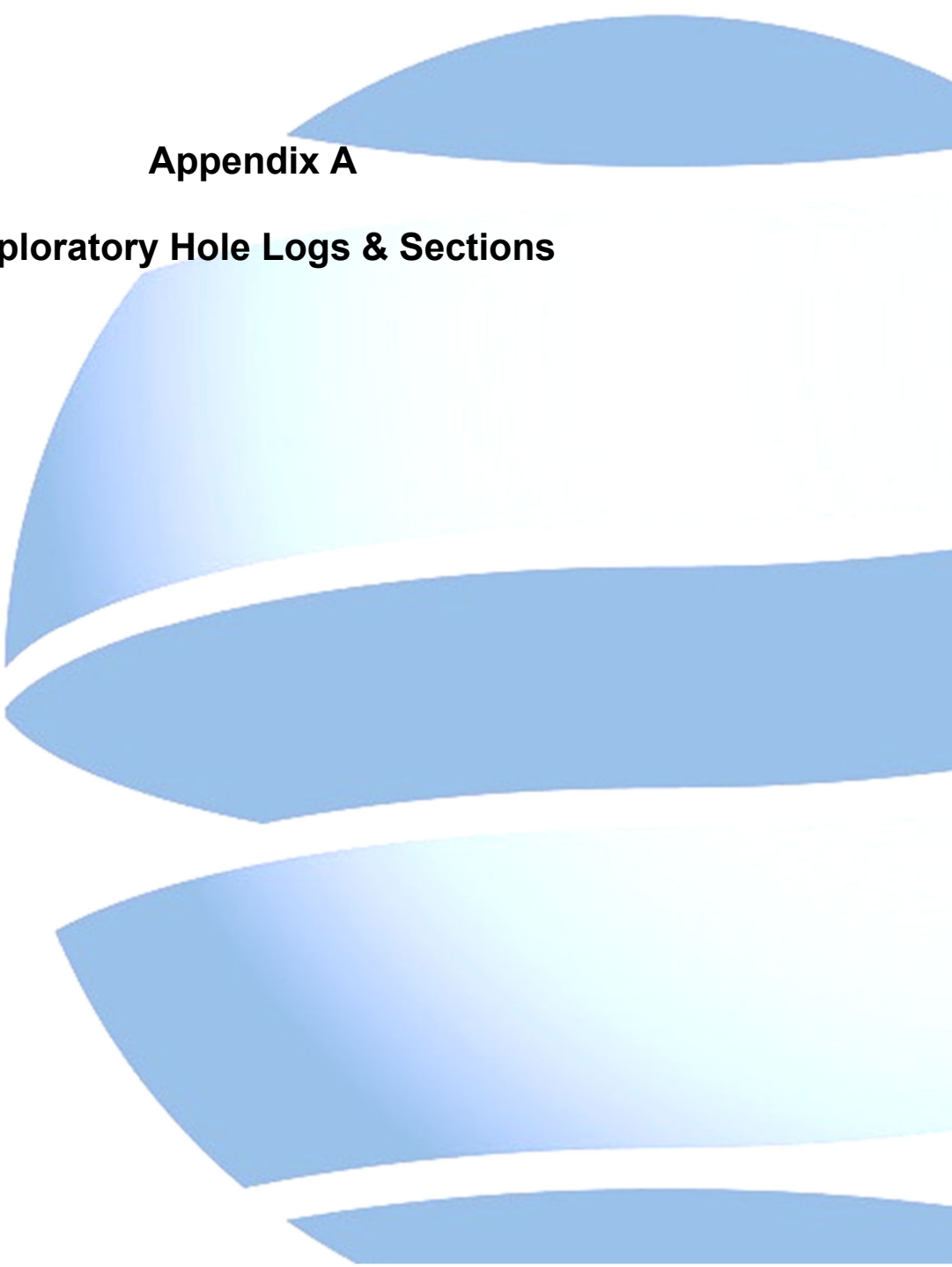
Figure 3

Proposed Development Plan



Project:	North Horsham (Phase 2)			Title	Proposed Development Plan	
Client:	Legal & General Strategic Land North Horsham Ltd			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net	 Geo-Environmental	
Ref No:	GE20724	Revision:	v1			
Drawn:	AP	Date:	25/05/2022			
Figure:	4	Scale:	nts			





Appendix A

Exploratory Hole Logs & Sections



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Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

BH01

Sheet 1 of 1

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519391E - 133430N

Hole Type
CP

Location: Horsham

Level: 53.76

Scale
1:50

Client: Legal & General

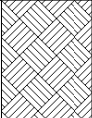
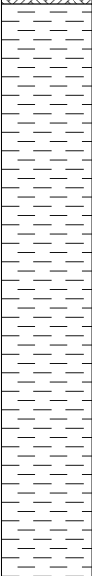
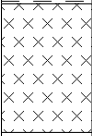
Dates: 04/05/2022

Logged By
SM

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.50	53.26		Grass overlying brown silty clay with frequent rootlets. TOPSOIL	
		1.00 1.00 - 1.45 1.00	D D S	N=8 (1 for 75mm/1,1,2,4)				Stiff to very stiff brown silty sandy CLAY. WEALD CLAY	1
		2.00 2.00 - 2.45	B U						2
		2.50	D		2.80	50.96		Hard grey SILT. WEALD CLAY	3
		3.00 3.00 - 3.45 3.00	D D S	50 (25 for 105mm/50 for 85mm)					4
		4.00 4.00 - 4.45 4.00	D D S	50 (25 for 75mm/50 for 45mm)	4.45	49.31		End of Borehole at 4.45m	5
									6
									7
									8
									9
									10
Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks			
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to				



 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net		Borehole Log				Borehole No. BH02 Sheet 1 of 1	
Project Name: North Horsham II		Project No. GE20724		Co-ords: 519623E - 133489N		Hole Type CP	
Location: Horsham				Level: 56.27		Scale 1:50	
Client: Legal & General				Dates: 04/05/2022		Logged By SM	

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.80	55.47		Grass overlying brown silty clay with frequent rootlets. TOPSOIL	
		1.00 1.00 - 1.45	D U	N=13 (3,3/4,2,3,4)				Stiff to very stiff brown and grey mottled CLAY. WEALD CLAY	1
		1.50	B						2
		2.00 2.00 - 2.45 2.00	D D S						
		3.00 3.00 - 3.45	D U						3
		3.50	D						
		4.00 4.00 - 4.45 4.00	D D S	N=48 (5,8/12,10,11,15)					4
		5.00 5.00 - 5.45 5.00	D D S	65 (5,15/65 for 185mm)	4.60	51.67		Hard grey cemented SILT. WEALD CLAY	5
					5.45	50.82		End of Borehole at 5.45m	6
									7
								8	
								9	
								10	

Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to	





Geo-Environmental

Rotary Core Log

Borehole No.

BH101

Sheet 1 of 3

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519391.50 - 133429.56

Hole Type
RC

Location: Horsham

Level: 53.76mbgl

Orientation: °
Inclination: °Scale
1:50

Client: Legal & General

Dates: 26/05/2022 - 27/05/2022

Logged By
WH

Well	Water Strikes	Depth (m)	Type / FI	Coring			Results & Information	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
								0.35	53.41		Grass overlying stiff brown silty clay with abundant rootlets TOPSOIL	
											Stiff to very stiff orangish brown slightly sandy silty CLAY with occasional black ferruginous inclusions WEALD CLAY	1
		1.20 1.20 1.50	1D S 2D				N=39 (6,7/8,9,10,12)	1.20	52.56		Very stiff orangish brown and light brown mottled slightly sandy silty CLAY with occasional gravel. Gravel comprises sub-angular to angular iron stained siltstone WEALD CLAY	
		1.20 - 2.50 2.00	3D	100	0	0					Very weak thinly laminated grey SILTSTONE with abundant orange staining and frequent black inclusions WEALD CLAY	2
		2.50 2.50 2.50	4D 5D S				57 (4,28/57 for 100mm)	2.91	50.85		...horizontal (90°) smooth undulating tight clean fracture	
		2.50 - 3.80		82	60	0					...sub-horizontal (87°) smooth stepped tight clean fracture	3
		3.59 - 3.71	7D					3.80	49.96		...sub-horizontal (86°) rough undulating partly open orange stained fracture	
		4.25 - 4.38	8D								...orangish brown slightly clayey GRAVEL comprising sub-angular to sub-rounded siltstone	
		3.80 - 5.40		88	85	76					...sub-horizontal (80°) rough undulating partly open clean fracture	4
		4.79 - 5.11	10B								...sub-horizontal (85°) rough planar partly open clean fracture	
		5.30	11ES					5.20	48.56		...gravel band	
		5.53 - 5.61	12D					5.40	48.36		...sub-vertical (9°) 130mm long smooth undulating tight dark orange stained fracture	
		5.90 - 6.05									...sub-horizontal (72°) rough stepped open orange stained fracture	5
		5.40 - 6.90	13D	81	75	57					...sub-horizontal (88°) rough undulating tight orange stained fracture	
		7.02 - 7.39	14B					6.64	47.12		...sub-horizontal (80°) striated planar tight orange stained fracture	
		7.45	15ES					6.90	46.86		...fracture zone. Fractures are sub-horizontal (85°) striated planar tight orange stained fracture	6
		6.90 - 8.40		94	94	90					Very weak thinly laminated grey SILTSTONE WEALD CLAY	
											...recovered as grey clayey gravel	7
											...sub-horizontal (87°) striated planar partly open clean fracture	
											...sub-horizontal (84°) striated undulating partly open clean fracture	8
											...sub-horizontal (88°) rough stepped partly open clean fracture	
											...sub-horizontal (83°) smooth planar partly open clean fracture	9
											...sub-horizontal (87°) rough undulating open clean fracture	
											...sub-horizontal (87°) rough undulating partly open clean fracture	10
											...sub-horizontal (83°) smooth planar open clean fracture. Possibly drilling induced	
											NO RECOVERY	
											Very weak to weak thinly laminated grey SILTSTONE WEALD CLAY	
											...recovered as grey clayey gravel	9
											...sub-horizontal (87°) rough undulating partly open clean fracture	
											...sub-horizontal (87°) rough planar partly open clean fracture	10
											...sub-horizontal (84°) rough stepped tight clean fracture	
											NO RECOVERY	
											Weak thinly laminated grey SILTSTONE WEALD CLAY	
											...sub-horizontal (83°) rough undulating wide	10

Continued on next sheet

Remarks

Handpit to 1.2m. Artesian water - head at 2.2m above ground level



Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519391.50 - 133429.56

Hole Type
RC

Location: Horsham

Level:	53.76mbgl	Orientation:	°
		Inclination:	°

Scale
1:50

Client: Legal & General

Dates: 26/05/2022 - 27/05/2022

Logged By
WH

[illegible]

Continued on next sheet

Remarks

Remarks	Handpit to 1.2m. Artesian water - head at 2.2m above ground level
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Geo-Environmental

Rotary Core Log

Borehole No.

BH101

Sheet 3 of 3

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519391.50 - 133429.56

Hole Type
RC

Location: Horsham

Level: 53.76mbgl

Orientation: °
Inclination: °Scale
1:50

Client: Legal & General

Dates: 26/05/2022 - 27/05/2022

Logged By
WH

Well	Water Strikes	Depth (m)	Type / FI	Coring			Results & Information	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
											...sub-horizontal (89°) smooth planar partly open clean fracture ...horizontal (90°) rough planar very tight clean fracture ...sand lens comprising whitish grey fine to medium SAND Medium strong thinly laminated light grey SILTSTONE with frequent black inclusions and laminations. Potential wood fragments WEALD CLAY ...sub-horizontal (80°) rough undulating open clean fracture ...sub-horizontal (82°) smooth undulating wide gravel infilled fracture ...sub-horizontal (88°) smooth planar partly open clean fracture ...sub-horizontal (80°) smooth stepped wide infilled fracture. Infill comprises coarse GRAVEL ...sub-horizontal (89°) black 15mm wide potential wood layer ...recovered as grey slightly silty slightly sandy GRAVEL comprising sub-angular to sub-rounded siltstone ...sub-vertical (2°) 60mm long striated undulating partly open clean fracture End of borehole at 12.90 m	21 22 23 24 25 26 27 28 29 30

Remarks

Handpit to 1.2m. Artesian water - head at 2.2m above ground level





Geo-Environmental

Rotary Core Log

Borehole No.

BH102

Sheet 1 of 3

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519623.47 - 133489.48

Hole Type
RC

Location: Horsham

Level: 56.27mbgl

Orientation: °
Inclination: °Scale
1:50

Client: Legal & General

Dates: 20/05/2022 - 23/05/2022

Logged By
WH

Well	Water Strikes	Depth (m)	Type / FI	Coring			Results & Information	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
		0.50 - 0.80	1B					0.30	55.97		Grass overlying stiff brown silty clay with abundant rootlets TOPSOIL	
		1.20	2D				N=20 (4,4/4,4,6,6)	1.20	55.07		Very stiff orangish brown and light brown mottled slightly sandy silty CLAY with occasional black flecking and iron staining WEALD CLAY	1
		1.20	S									
		1.50	3D									
		1.20 - 2.50	4D	78	0	0		2.30	53.97		Firm orangish brown slightly sandy very gravelly silty CLAY with occasional iron staining. Gravel comprises rounded to sub-rounded flint and siltstone WEALD CLAY	2
		2.00						2.50	53.77		NO RECOVERY	
		2.50	5D				N=22 (3,3/4,5,6,7)	2.50	53.77			
		2.50	6D					2.80	53.47		Very stiff laminated brown and grey mottled silty CLAY with frequent orange staining WEALD CLAY	3
		2.50	S									
		2.50 - 4.70	7D	71	0	0					Extremely weak thinly laminated grey SILTSTONE WEALD CLAY	
		3.50	8D									
		3.70	10D				N=38 (5,7/7,8,11,12)				...recovered as grey clayey sandy GRAVEL comprising sub-angular to angular siltstone	
		3.70	9ES								NO RECOVERY	
		3.70	S									
		4.00	11D								Very weak thinly laminated grey SILTSTONE WEALD CLAY	4
		3.70 - 5.30	12D	99	9	9					...sub-horizontal (88°) smooth undulating very tight clean fracture	
		5.00	13D					5.05	51.22		...sub-horizontal (84°) smooth planar tight clean fracture	5
		5.30	14D				25 (7,13/25 for 25mm)				NO RECOVERY	
		5.30	S								Very weak thinly laminated grey SILTSTONE WEALD CLAY	
		5.67 - 5.79	15D					5.79	50.48		...sub-horizontal (86°) smooth planar tight clean fracture	
		5.30 - 6.10	16ES	90	83	16		5.87	50.40		...sub-horizontal (87°) smooth planar tight clean fracture	6
		6.10						6.05	50.22		...sub-horizontal (79°) smooth planar tight clean fracture	
		6.55 - 6.64	17D					6.12	50.15		...sub-horizontal (83°) smooth planar partly open clean fracture	
											...sub-horizontal (86°) smooth planar partly open clean fracture	
											...sub-horizontal (69°) smooth undulating partly open clean fracture	7
		7.29 - 7.38	18D								...recovered as grey clayey sandy GRAVEL comprising sub-angular to angular siltstone	
		6.80 - 8.30		100	71	44		7.41	48.86		...sub-vertical (13°) 120mm long striated undulating partly open clean fracture	
											...sub-horizontal (86°) smooth stepped partly open clean fracture	
											...sub-vertical (18°) 120mm long smooth undulating partly open clean fracture	8
		8.14 - 8.28	19D								...recovered as grey slightly clayey GRAVEL comprising sub-angular to angular siltstone	
											...sub-horizontal (87°) smooth stepped very tight clean fracture	
		8.85 - 8.92	20D								Weak thinly laminated light grey becoming grey SILTSTONE WEALD CLAY	
		8.30 - 9.80	21ES	96	81	54					...sub-horizontal (88°) smooth undulating very tight clean fracture	9
											...sub-horizontal (86°) smooth planar tight clean fracture	
		9.70 - 9.80	22D								...sub-horizontal (88°) smooth undulating partly open clay infilled fracture	
											...sub-horizontal (86°) rough planar partly open	10

Continued on next sheet

Remarks

Handpit to 1.2m





Geo-Environmental

Rotary Core Log

Borehole No.

BH102

Sheet 2 of 3

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519623.47 - 133489.48

Hole Type
RC

Location: Horsham

Level: 56.27mbgl

Orientation: °
Inclination: °Scale
1:50

Client: Legal & General

Dates: 20/05/2022 - 23/05/2022

Logged By
WH

Well	Water Strikes	Depth (m)	Type / FI	Coring			Results & Information	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
10		10.30 - 10.55	23D							xxxxxx	clean fracture	
										xxxxxx	...sub-horizontal (88°) smooth undulating open	
										xxxxxx	clean fracture	
										xxxxxx	...sub-horizontal (88°) rough undulating partly	
										xxxxxx	open clean fracture	
		10.67 - 10.79	24D	79	71	68				xxxxxx	...recovered as grey slightly clayey GRAVEL	
		9.80 - 11.50								xxxxxx	comprising angular to sub-rounded siltstone	
										xxxxxx	...recovered as grey slightly clayey GRAVEL	
										xxxxxx	comprising angular to sub-rounded siltstone	
										xxxxxx	...sub-horizontal (77°) striated undulating very	
										xxxxxx	tight clean fracture	
										xxxxxx	...sub-horizontal (88°) smooth stepped open	
										xxxxxx	gravel infilled fracture	
		11.72 - 11.81	25D					11.59	44.68	xxxxxx	...sub-horizontal (88°) smooth planar very tight	
										xxxxxx	clean fracture	
11										xxxxxx	...recovered as grey very clayey GRAVEL	
										xxxxxx	comprising sub-angular to sub-rounded siltstone	
		11.50 - 13.00	26ES	100	87	59				xxxxxx	...sub-vertical (44°) 80mm long rough undulating	
										xxxxxx	partly open clean fracture. Possibly drilling	
										xxxxxx	induced	
		12.51 - 12.64	27D							xxxxxx	...sub-horizontal (88°) rough undulating open	
										xxxxxx	clean fracture	
										xxxxxx	...sub-horizontal (85°) rough undulating open	
										xxxxxx	clean fracture	
		13.15 - 13.25	28D					13.00	43.27	xxxxxx	...sub-horizontal (76°) smooth stepped partly	
		13.00 - 13.70		63	39	39		13.15	43.12	xxxxxx	open clean fracture	
										xxxxxx	...sub-horizontal (87°) smooth undulating partly	
										xxxxxx	open clean fracture	
										xxxxxx	...poor recovery. Recovered as grey gravel	
12		13.84 - 13.91	29D					13.40	42.87	xxxxxx	...sub-horizontal (84°) rough undulating open	
										xxxxxx	gravel infilled fracture	
		14.20	30ES					13.56	42.71	xxxxxx	...sub-horizontal (87°) rough stepped very tight	
										xxxxxx	clean fracture	
		13.70 - 15.20		100	100	59		13.70	42.57	xxxxxx	...sub-horizontal (84°) rough undulating tight	
										xxxxxx	clean fracture	
		14.71 - 14.91	31B					14.56	41.71	xxxxxx	...sub-vertical (16°) 140mm long smooth	
										xxxxxx	undulating tight clean fracture	
										xxxxxx	...recovered as light grey clayey GRAVEL	
										xxxxxx	comprising angular siltstone	
		15.10	32ES					15.01	41.26	xxxxxx	Weak thinly laminated grey and dark	
								15.20	41.07	xxxxxx	grey SILTSTONE with occasional black	
										xxxxxx	laminae	
										xxxxxx	WEALD CLAY	
13										xxxxxx	...sub-horizontal (87°) smooth stepped partly	
										xxxxxx	open clean fracture	
										xxxxxx	...recovered as light grey slightly clayey GRAVEL	
										xxxxxx	comprising angular to sub-rounded siltstone	
										xxxxxx	...sub-horizontal (85°) striated undulating tight	
										xxxxxx	clean fracture	
										xxxxxx	...recovered as light grey clayey GRAVEL	
										xxxxxx	comprising angular to sub-rounded siltstone	
										xxxxxx	...sub-horizontal (86°) smooth undulating tight	
										xxxxxx	clean fracture	
										xxxxxx	...sub-horizontal (86°) smooth undulating partly	
										xxxxxx	open clay infilled fracture	
										xxxxxx	...horizontal (90°) smooth planar open clay infilled	
										xxxxxx	fracture	
										xxxxxx	...sub-horizontal (89°) smooth stepped tight clean	
14										xxxxxx	fracture	
										xxxxxx	...sub-horizontal (87°) striated planar tight clean	
										xxxxxx	fracture	
										xxxxxx	NO RECOVERY	
										xxxxxx	Weak thinly laminated light grey	
										xxxxxx	SILTSTONE	
										xxxxxx	WEALD CLAY	
										xxxxxx	...sub-horizontal (84°) striated undulating tight	
										xxxxxx	clean fracture	
										xxxxxx	Recovered as stiff grey slightly sandy	
										xxxxxx	slightly gravelly silty CLAY. Gravel	
										xxxxxx	comprises sub-angular to sub-rounded	
										xxxxxx	siltstone	
										xxxxxx	WEALD CLAY	
										xxxxxx	NO RECOVERY	
15										xxxxxx	Weak thinly laminated grey	
										xxxxxx	SILTSTONE	
										xxxxxx	WEALD CLAY	
										xxxxxx	Continued on next sheet	

Remarks

Handpit to 1.2m





Geo-Environmental

Rotary Core Log

Borehole No.

BH102

Sheet 3 of 3

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519623.47 - 133489.48

Hole Type
RC

Location: Horsham

Level: 56.27mbgl

Orientation: °
Inclination: °Scale
1:50

Client: Legal & General

Dates: 20/05/2022 - 23/05/2022

Logged By
WH

Well	Water Strikes	Depth (m)	Type / FI	Coring			Results & Information	Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD						
											..horizontal (90°) smooth planar partly open clean fracture Medium strong thinly laminated grey and light grey SILTSTONE with frequent black inclusions WEALD CLAY ...sub-horizontal (86°) rough undulating partly open clean fracture. Black inclusions ...sub-horizontal (85°) smooth undulating open clean fracture Medium strong thinly laminated brownish grey SILTSTONE with occasional brown staining black inclusions and shell fossils WEALD CLAY ...sub-vertical (8°) 130mm long striated undulating clean fracture End of borehole at 15.20 m	21 22 23 24 25 26 27 28 29 30

Remarks

Handpit to 1.2m





Geo-Environmental

Probe Log

Borehole No.

DP04

Sheet 1 of 1

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519399.98 - 133375.05

Hole Type
DP

Location: Horsham

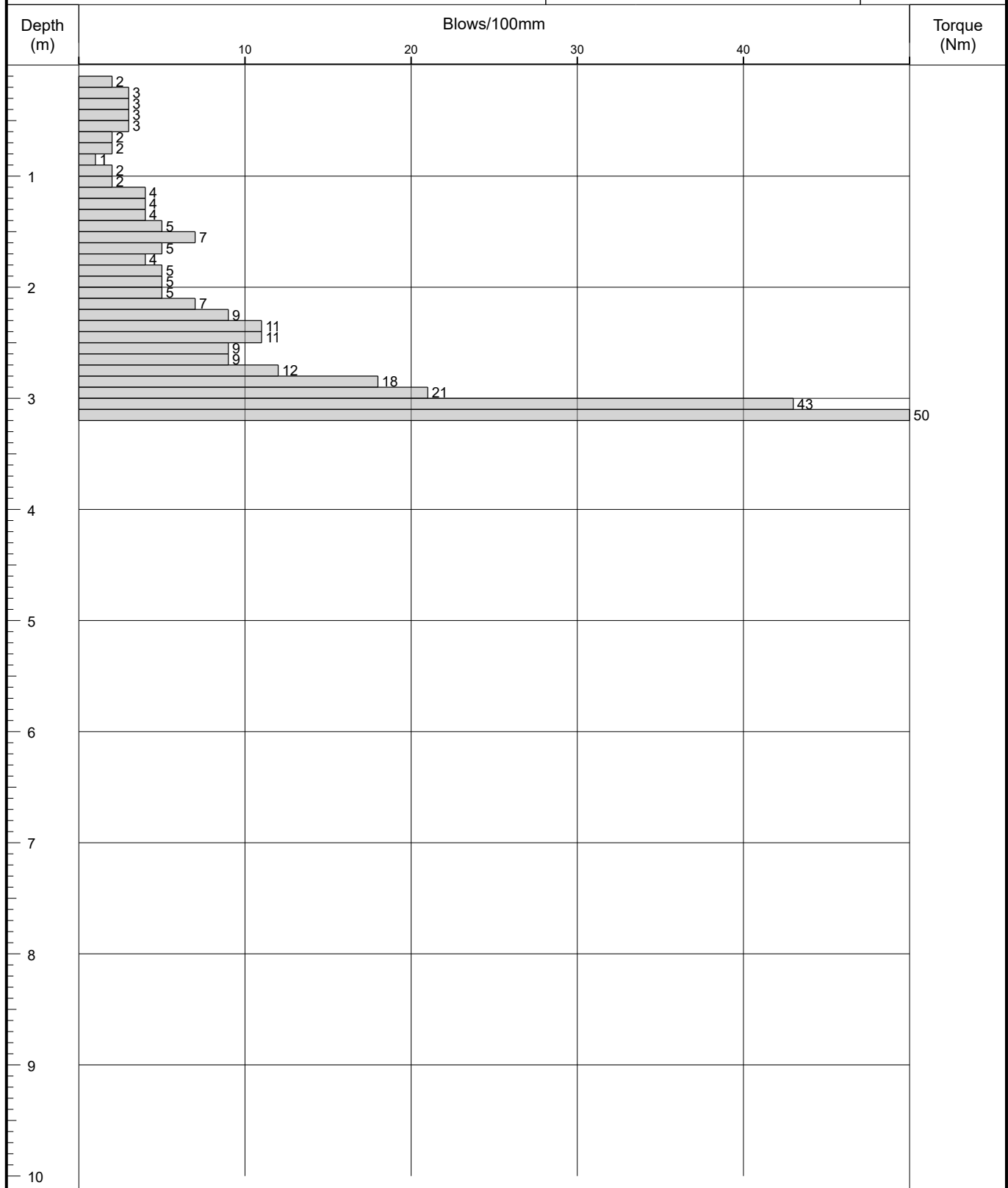
Level: 55.33

Scale
1:50

Client: Legal & General

Dates: 06/05/2022 - 06/05/2022

Logged By



Remarks

Fall Height

Cone Base Diameter

Hammer Wt

Final Depth 3.10

Probe Type

Log Scale 1:50

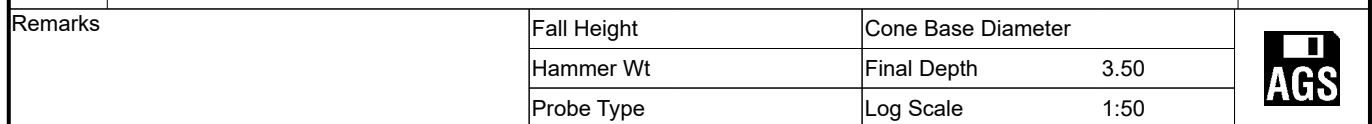




Borehole No.

Sheet 1 of 1

Logged By





Geo-Environmental

Probe Log

Borehole No.

DP08

Sheet 1 of 1

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519624.96 - 133525.12

Hole Type
DP

Location: Horsham

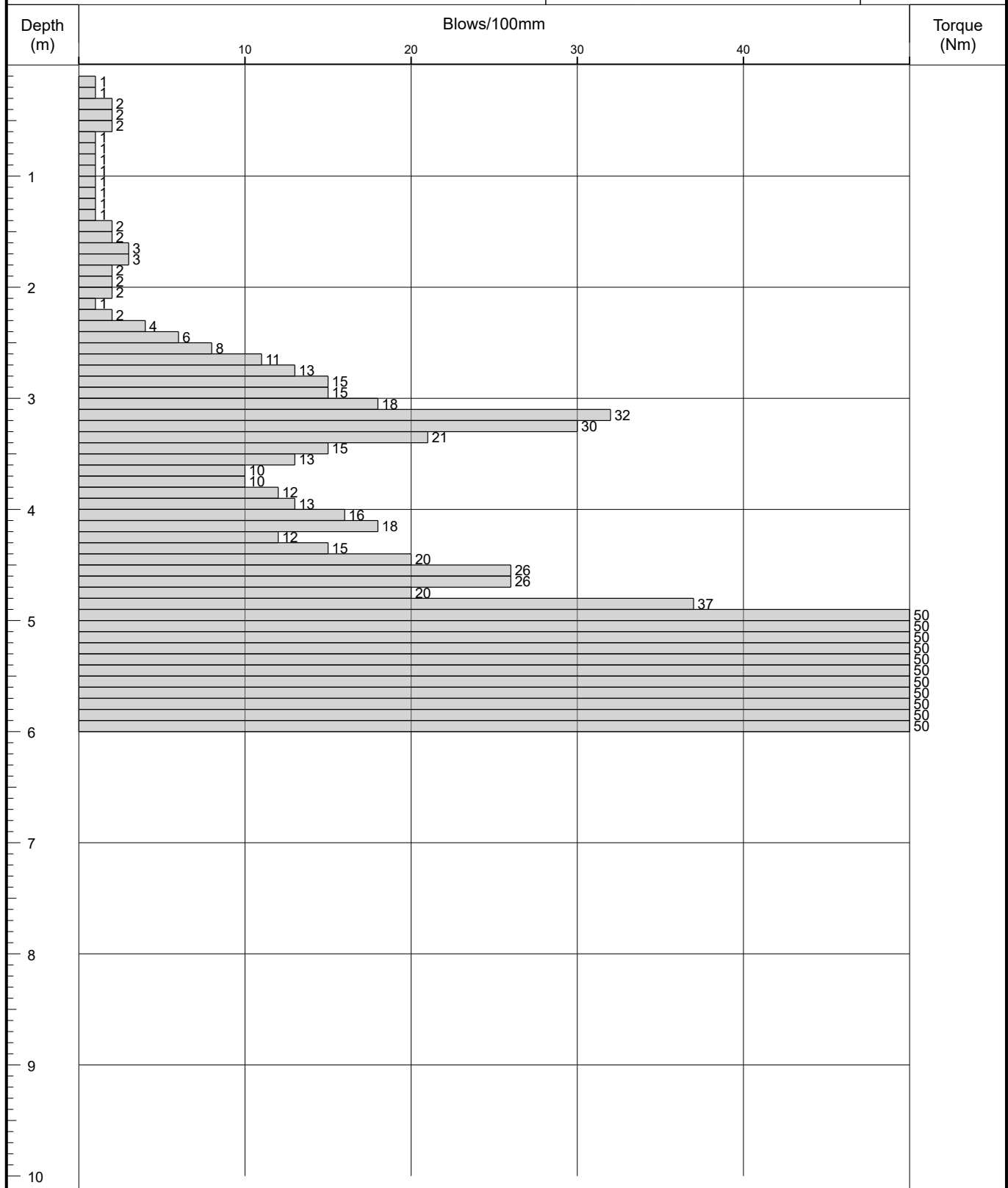
Level: 55.38

Scale
1:50

Client: Legal & General

Dates: 05/05/2022 - 05/05/2022

Logged By



Remarks

Fall Height

Cone Base Diameter

Hammer Wt

Final Depth 5.90

Probe Type

Log Scale 1:50





Geo-Environmental

Probe Log

Borehole No.

DP09

Sheet 1 of 1

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519174.98 - 133524.99

Hole Type
DP

Location: Horsham

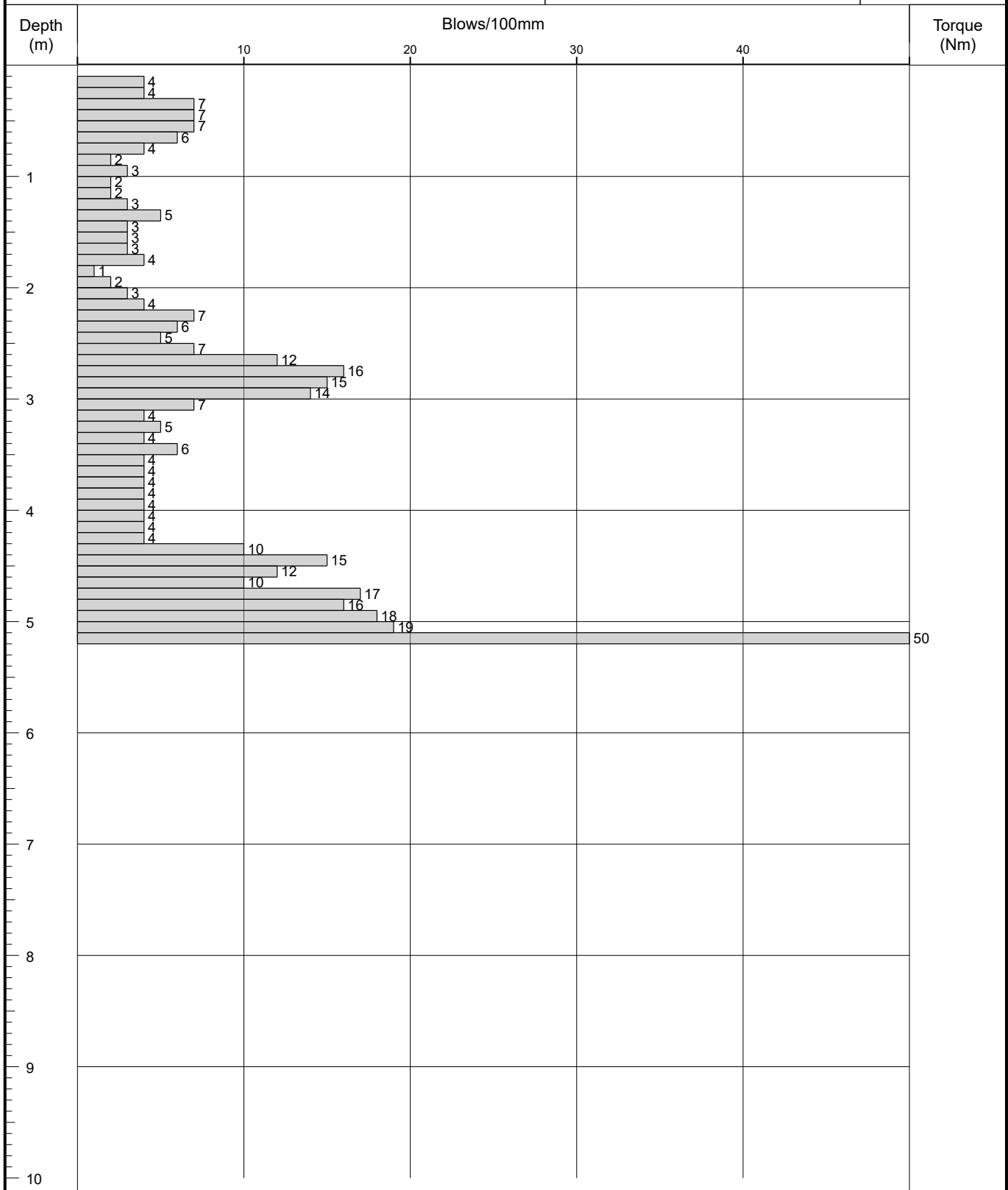
Level: 53.29

Scale
1:50

Client: Legal & General

Dates: 04/05/2022 - 04/05/2022

Logged By



Remarks

Fall Height

Cone Base Diameter

Hammer Wt

Final Depth 5.10

Probe Type

Log Scale 1:50





Geo-Environmental

Probe Log

Borehole No.

DP10

Sheet 1 of 1

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519400.04 - 133525.07

Hole Type
DP

Location: Horsham

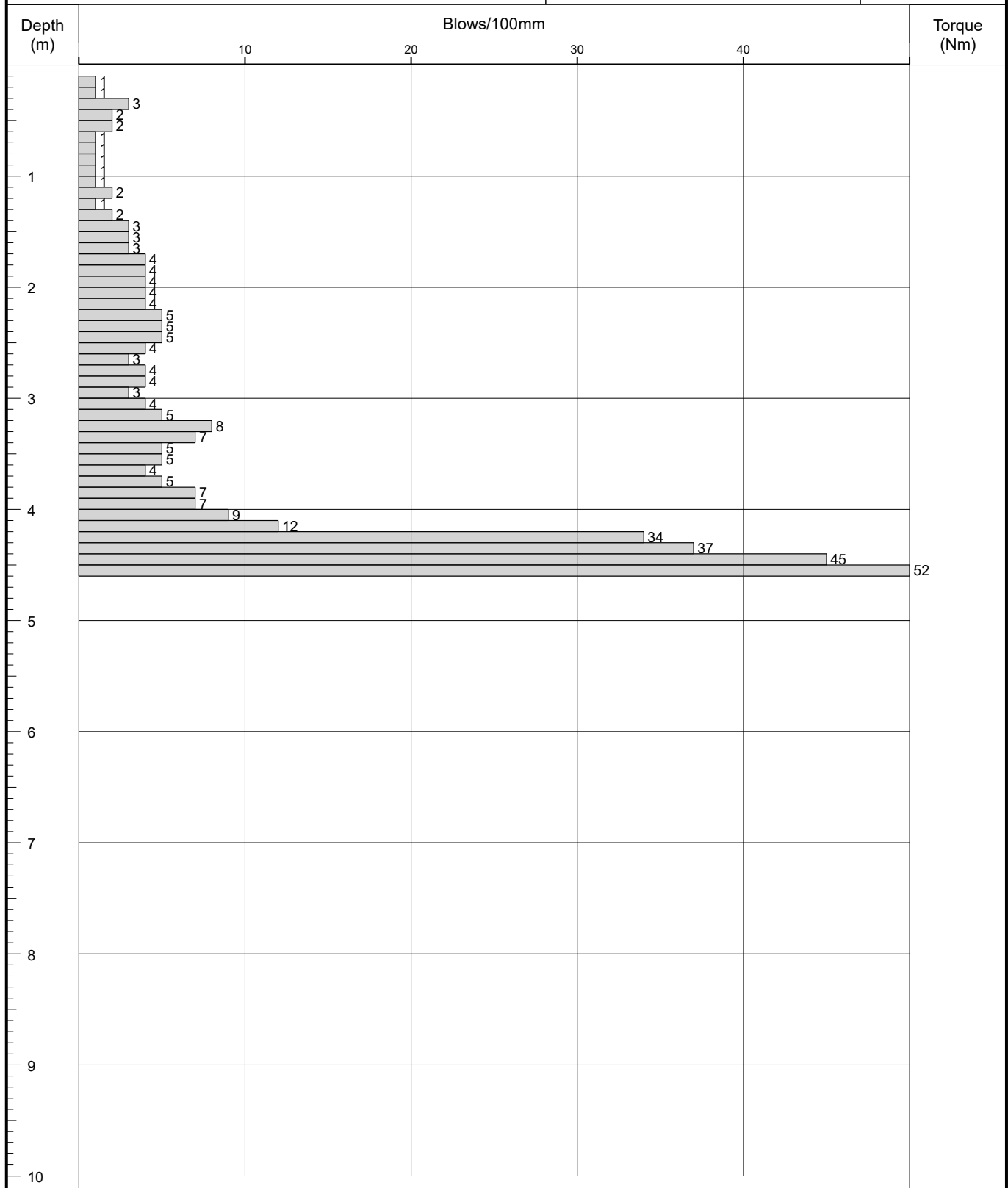
Level: 54.82

Scale
1:50

Client: Legal & General

Dates: 05/05/2022 - 05/05/2022

Logged By



Remarks

Fall Height

Cone Base Diameter

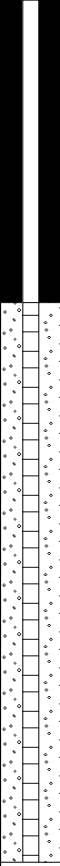
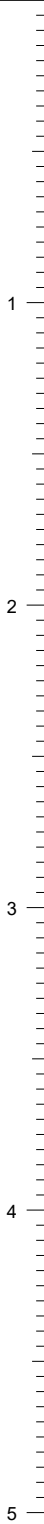
Hammer Wt

Final Depth 4.50

Probe Type

Log Scale 1:50



 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net				Borehole Log				Borehole No. WS01 Sheet 1 of 1		
Project Name: North Horsham II				Project No. GE20724		Co-ords: 519625E - 133375N		Hole Type WLS		
Location: Horsham				Level: 56.20		Scale 1:25				
Client: Legal & General				Dates: 06/05/2022		Logged By KO				
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.10	ES		0.20	56.00		Grass overlying brown silty clay with abundant rootlets. TOPSOIL		
		0.50	D					Orangish brown and pale grey silty slightly gravelly CLAY with black ferruginous fragments and orange staining. Gravel is fine to coarse sub angular siltstone. WEALD CLAY <i>Some rootlets</i>		
		0.70	ES							
		1.00	D							
		1.20	ES		2.10	54.10				
		1.50	D							
		2.00	D							
		2.50	D		2.60	53.60		Orangish brown and pale grey slightly clayey, weakly cemented SILT with occasional thin siltstone bands and rare iron staining. WEALD CLAY		
	2.85	D		2.85	53.35		Pale grey weakly cemented SILT with rare iron staining. WEALD CLAY			
End of Borehole at 2.85m								3		
								4		
								5		
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks						
Depth Top	Depth Base	Diameter	Depth Strike							Rose To





Geo-Environmental

Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL
www.gesl.net

Borehole Log

Borehole No.

WS03

Sheet 1 of 1

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519325E - 133375N

Hole Type
WLS

Location: Horsham

Level: 54.22

Scale
1:25

Client: Legal & General

Dates: 06/05/2022

Logged By
KO

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
		0.10	ES		0.30	53.92		Grass overlying dark brown silty gravelly clay with abundant rootlets. Gravel is fine to coarse sub angular siltstone. TOPSOIL	1		
		0.40	ES					Very stiff orangish brown and pale grey mottled silty CLAY with some sandstone fragments and orange staining. WEALD CLAY			
		0.50	D								
		1.00	D		1.70	52.52		Pale grey and brown slightly clayey, weakly cemented SILT with occasional thin siltstone bands and orange staining. WEALD CLAY	2		
		1.50	D								
		1.60	ES								
		2.00	D		2.50	51.72		End of Borehole at 2.50m	3		
		2.50	D								
											4
											5
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks							
Depth Top	Depth Base	Diameter	Depth Strike						Rose To		
					Dry						



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Borehole Log

WS04

Sheet 1 of 1

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519094E - 133451N

Hole Type	WLS
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Location: Horsham

Level:	51.80
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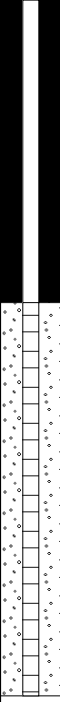
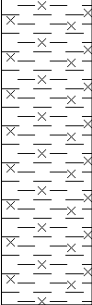
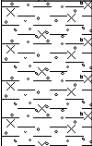
Scale
1:25

Client: Legal & General

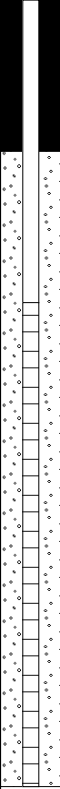
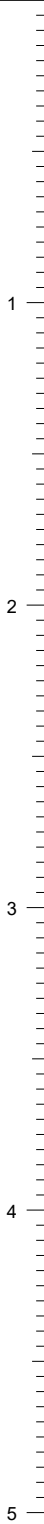
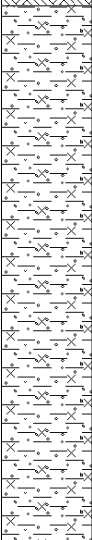
Dates: 04/05/2022

Logged By
KO

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.10	ES	4.3kg/cm2	0.40	51.40		Brown and orangish brown silty CLAY with brick fragments, tile fragments and some black stained decomposed organic material. MADE GROUND	1	
		0.50 0.50 0.60	D PP ES					Brown silty CLAY with some rootlets and black flecking. WEALD CLAY		
		1.00 1.00	D PP					Brown, pale grey and orangish brown silty slightly sandy CLAY with frequent ferruginous fragments and orange and black ferruginous staining. WEALD CLAY <u>Some rootlets</u>		
		1.50 1.50	D PP	1.9kg/cm2	1.80	50.00		Brown and pale bluish grey silty CLAY with some ferruginous fragments. WEALD CLAY		2
		2.00 2.00 2.10	D PP ES	5.0kg/cm2						
		2.50 2.50	D PP	4.9kg/cm2						
					2.70	49.10		Brown and pale bluish grey silty CLAY with frequent tabular siltstone inclusions. WEALD CLAY		3
		2.90	D	2.90	48.90		End of Borehole at 2.90m			
		Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks				
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	Refusal on hard layer					

 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net				Borehole Log				Borehole No. WS05 Sheet 1 of 1	
Project Name: North Horsham II				Project No. GE20724		Co-ords: 519268E - 133415N		Hole Type WLS	
Location: Horsham				Level: 52.92		Scale 1:25			
Client: Legal & General				Dates: 04/05/2022		Logged By KO			
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.30	52.62		Grass overlying brown silty CLAY with frequent rootlets and some black ferruginous fragments. TOPSOIL	
		0.50	D					Brown and pale grey mottled silty CLAY with some orange. WEALD CLAY	
		0.60	ES					<i>Some rootlets</i>	
		1.00	D		1.60	51.32			
		1.50	D						
		1.90	ES					Orangish brown mottled silty CLAY with occasional fine to coarse sub-angular weakly cemented silts. WEALD CLAY	
		2.00	D		2.10	50.82		Brown brown slightly sandy, clayey weakly cemented SILT with occasional thin siltstone bands. WEALD CLAY	
		2.30	D		2.30	50.62		End of Borehole at 2.30m	
Dynamic Sampling Run Details Water Strike Details (mbgl) Remarks									
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	Refusal at 2.3m bgl on hard layer.				



 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net				Borehole Log				Borehole No. WS20 Sheet 1 of 1	
Project Name: North Horsham II				Project No. GE20724		Co-ords: 519549E - 133296N		Hole Type WLS	
Location: Horsham				Level: 57.40		Scale 1:25			
Client: Legal & General				Dates: 06/05/2022		Logged By KO			
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.30	57.10		Grass overlying brown silty clay with abundant rootlets and roots 1-2mm and some black ferruginous fragments. TOPSOIL	
		0.50	D					Very stiff orangish brown and pale grey mottled silty slightly gravelly CLAY with black ferruginous staining WEALD CLAY	
		0.70	ES						
		1.00	D						
		1.40	ES						
		1.50	D						
		2.00	D		2.10	55.30		Very stiff orangish brown gravelly silty sandy CLAY with black and orange ferruginous staining. WEALD CLAY	
		2.20	D						
					2.40	55.00		Orangish brown and brown mottled CLAY with rare fine to medium weakly cemented silts and black ferruginous staining. WEALD CLAY	
		2.60	D		2.60	54.80		End of Borehole at 2.60m	
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks					
Depth Top	Depth Base	Diameter	Depth Strike						Rose To
					Dry				





Geo-Environmental

Unit 7, Danworth Farm
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Borehole Log

Borehole No.

WS26

Sheet 1 of 1

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519475E - 133375N

Hole Type
WLS

Location: Horsham

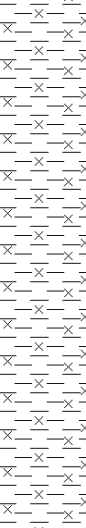
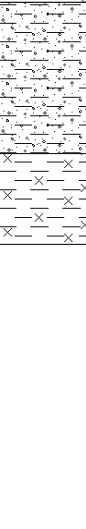
Level: 55.99

Scale
1:25

Client: Legal & General

Dates: 06/05/2022

Logged By
KO

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.10	ES		0.30	55.69		Grass overlying brown silty clay with abundant rootlets. TOPSOIL		
		0.40	ES					Very stiff orangish brown and pale grey silty CLAY with orange staining and black ferruginous fragments. WEALD CLAY		
		0.50	D							
		1.00	D							
		1.50	D							
		2.00	D							
		2.20	ES			Orange and brown slightly sandy CLAY with rare fine to medium sub-angular iron stained weakly cemented silt. WEALD CLAY	2			
		2.50	D							
		2.90	D						Very stiff pale grey silty CLAY with orange staining and siltstone inclusions. WEALD CLAY	3
End of Borehole at 2.90m										
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks						
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	Dry					







Geo-Environmental

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Borehole Log

Borehole No.

WS27

Sheet 1 of 1

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519625E - 133450N

Hole Type
WLS

Location: Horsham

Level: 56.04

Scale
1:25

Client: Legal & General

Dates: 10/05/2022

Logged By
KO

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.10	ES		0.30	55.74		Brown silty CLAY with abundant rootlets. TOPSOIL	1	
		0.50	D					Stiff pale grey and orangish brown silty CLAY with frequent black ferruginous fragments and orange staining. WEALD CLAY		
		0.70	ES							
		1.00	D			54.84	Stiff pale grey, brown and orangish brown silty sandy gravelly CLAY with frequent black ferruginous fragments and orange staining. Sand is fine to coarse. Gravel is fine to coarse sub angular ironstone/ sandstone. WEALD CLAY	2		
		1.50	D							
		2.00	D							
		2.40	ES			53.94	Very stiff pale grey and orangish brown silty CLAY with orange staining. WEALD CLAY	3		
		2.50	D							
		2.80								
		2.90	D		2.90	53.14		Grey and brown sandy SANDSTONE with dark orange staining. WEALD CLAY	3	
End of Borehole at 2.90m										
									4	
									5	
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks						
Depth Top	Depth Base	Diameter	Depth Strike	Rose To						





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Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS33

Sheet 1 of 1

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519420E - 133563N

Hole Type
WLS

Location: Horsham

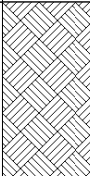
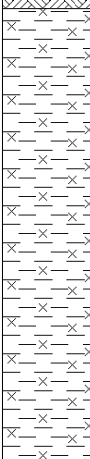
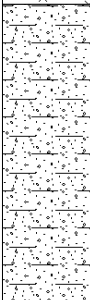
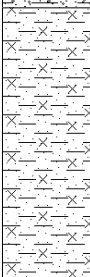
Level: 55.05

Scale
1:25

Client: Legal & General

Dates: 05/05/2022

Logged By
KO

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30	ES		0.60	54.45		Grass overlying brown silty slightly gravelly clay with abundant rootlets. Gravel is fine to medium sub-angular sandstone. TOPSOIL	1
		0.70	D					Very stiff orangish brown and pale grey silty CLAY with some black ferruginous fragments. WEALD CLAY	
		0.80	ES						
		1.00	D						
		1.50	D		2.10	52.95		Brown and pale grey gravelly very sandy CLAY/clayey SAND with abundant black ferruginous fragments. Sand is fine to coarse. Gravel is fine to coarse sub angular ironstone. WEALD CLAY	2
		2.00	D						
		2.50	D						
		2.90	ES						
		3.00	D		3.10	51.95		Very stiff brown silty sandy CLAY with black ferruginous staining. Sand is fine. WEALD CLAY	3
		3.50	D						
		4.00	D						
				4.00	51.05		End of Borehole at 4.00m	4	
								5	
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks					
Depth Top	Depth Base	Diameter	Depth Strike						Rose To
			2.69						2.69







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Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS36

Sheet 1 of 1

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519524E - 133571N

Hole Type
WLS

Location: Horsham

Level: 55.41

Scale
1:25

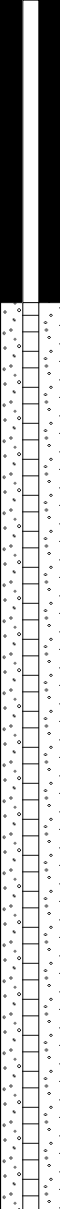
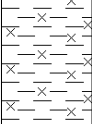
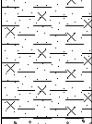
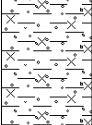
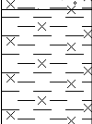
Client: Legal & General

Dates: 05/05/2022

Logged By
KO

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.10	ES		0.30	55.11		Grass overlying silty clay with some brick fragments. MADE GROUND	1	
		0.50	D					Very stiff orangish brown and pale grey silty CLAY with orange staining. WEALD CLAY		
		0.60	ES					<u>Some rootlets.</u>		
		1.00	D					<u>Some black ferruginous staining</u>		
		1.50	D		1.80	53.61		Very stiff orangish brown and pale grey silty sandy gravelly CLAY with orange and black ferruginous staining. Sand is fine to coarse. Gravel is fine to coarse sub angular ironstone. WEALD CLAY	2	
		2.00	D							
		2.10	ES							
		2.50	D							
		3.00	D		2.80	52.61		Brown very sandy CLAY/ clayey SAND with some sandstone gravel. Sand is fine to coarse. WEALD CLAY	3	
		3.40	D					Greyish brown silty CLAY with siltstone inclusions and orange staining. WEALD CLAY		
		3.80	D					Grey tabular SANDSTONE with orange staining. WEALD CLAY		
		3.90	D					End of Borehole at 3.90m		4
									5	
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks						
Depth Top		Depth Base	Diameter						Depth Strike	Rose To



 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net				Borehole Log				Borehole No. WS39 Sheet 1 of 1		
Project Name: North Horsham II				Project No. GE20724		Co-ords: 519325E - 133600N		Hole Type WLS		
Location: Horsham				Level: 54.14		Scale 1:25				
Client: Legal & General				Dates: 05/05/2022		Logged By KO				
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.05	ES		0.10	54.04	 Grass overlying brown silty clay with abundant rootlets. TOPSOIL	 Very stiff orangish brown and pale grey silty CLAY with orange staining and some black ferruginous fragments. WEALD CLAY <i>Some rootlets</i>	1	
		0.50	D							
		0.60	ES							
		1.00	D							
		1.50	D		1.40	52.74	 Very stiff orangish brown, brown and pale grey silty sandy CLAY with orange staining and some black ferruginous staining. Sand is fine. WEALD CLAY	2		
		1.60	ES							
		2.00	D		1.80	52.34	 Very stiff brown and pale grey silty sandy gravelly CLAY with orange staining, abundant black ferruginous staining. Sand is fine to coarse. Gravel is fine to coarse sandstone/ironstone WEALD CLAY	3		
		2.50	D							
		2.90	D		3.00	51.14	 Very stiff brown and bluish grey silty CLAY. WEALD CLAY	4		
		3.50	D							
4.00	D		4.00	50.14	End of Borehole at 4.00m		5			
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks						
Depth Top	Depth Base	Diameter	Depth Strike							Rose To
			0.87							0.87
										



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Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS40

Sheet 1 of 1

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519475E - 133600N

Hole Type
WLS

Location: Horsham

Level: 55.50

Scale
1:25

Client: Legal & General

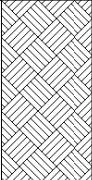
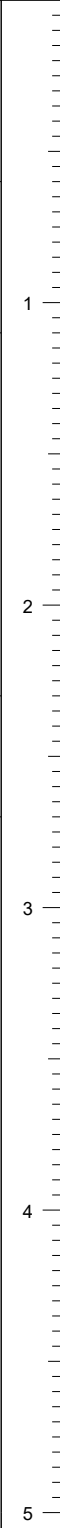
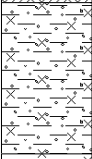
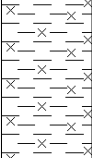
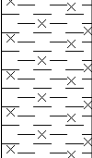
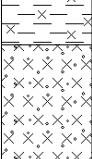
Dates: 04/05/2022

Logged By
KO

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.20	55.30		Grass overlying silty clay with abundant rootlets. TOPSOIL	1
		0.40	ES					Stiff orangish brown and pale grey silty CLAY with some black ferruginous fragments. WEALD CLAY <u>Some rootlets</u>	
		0.50	D						
		1.00	D		1.60	53.90		Stiff orangish brown and pale grey silty slightly sandy CLAY with black ferruginous fragments and some ironstone fragments. WEALD CLAY	2
		1.10	ES						
		1.50	D						
		2.00	D		2.70	52.80		Orangish brown sandy slightly gravelly CLAY with black ferruginous fragments. Sand is fine to coarse. Gravel is fine to medium sandstone/ironstone. WEALD CLAY	3
		2.50	D						
2.90	D								
End of Borehole at 2.90m									5
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks					
Depth Top	Depth Base	Diameter	Depth Strike	Rose To					
			2.78	2.78					

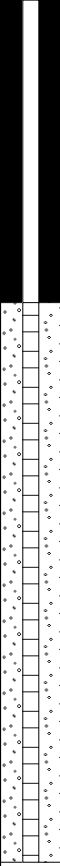
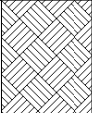
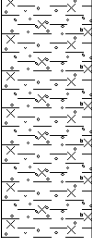
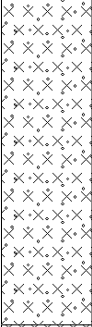
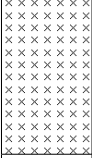


 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net				Borehole Log				Borehole No. WS75 Sheet 1 of 1	
Project Name: North Horsham II				Project No. GE20724		Co-ords: 519170E - 133415N		Hole Type WLS	
Location: Horsham				Level: 52.59		Scale 1:25			
Client: Legal & General				Dates: 04/05/2022		Logged By KO			

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES					Brown and orangish brown silty CLAY with some black ferruginous fragments. TOPSOIL	
		0.50 0.50	D PP	4.2kg/cm2	0.60	51.99			
		0.80	ES						
		1.00 1.00	D PP	3.8kg/cm2	1.10	51.49			
		1.50 1.60	D ES						
		2.00	D		2.30	50.29			
		2.50	D						
		2.70	D		2.70	49.89			

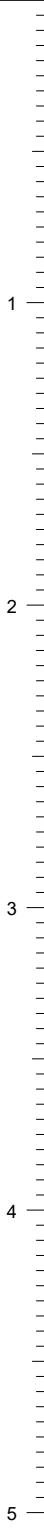
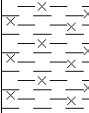
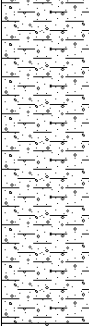
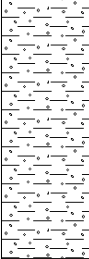
Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	
					Falling head test



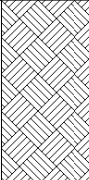
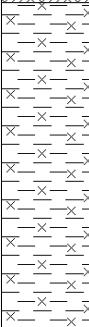
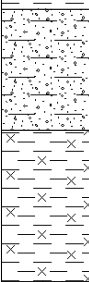
 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net				Borehole Log				Borehole No. WS76 Sheet 1 of 1	
Project Name: North Horsham II				Project No. GE20724		Co-ords: 519476E - 133443N		Hole Type WLS	
Location: Horsham				Level: 53.83		Scale 1:25			
Client: Legal & General				Dates: 06/05/2022		Logged By KO			
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.40	53.43		Grass overlying brown silty clay with abundant rootlets. TOPSOIL	
		0.50	D					Stiff brown silty gravelly CLAY with black ferruginous fragments. WEALD CLAY	
		0.60	ES						
		1.00	D		1.20	52.63		Brown and pale grey mottled slightly clayey, weakly cemented SILT with occasional thin siltstone bands. WEALD CLAY	
		1.50	D						
		1.90 2.00	ES D						
		2.50	D		2.30	51.53		Pale bluish grey SILTSTONE with very rare iron staining and a rare silty CLAY matrix. WEALD CLAY	
		2.85	D						
	End of Borehole at 2.85m								
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks					
Depth Top	Depth Base	Diameter	Depth Strike						Rose To
					Dry				



 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net				Borehole Log				Borehole No. WS77 Sheet 1 of 1	
Project Name: North Horsham II				Project No. GE20724		Co-ords: 519296E - 133458N		Hole Type WLS	
Location: Horsham				Level: 53.72		Scale 1:25			
Client: Legal & General				Dates: 04/05/2022		Logged By KO			

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES	3.2kg/cm2	0.20	53.52		Brown silty CLAY with abundant rootlets. TOPSOIL	
		0.40	ES		0.60	53.12		Very stiff orangish brown and pale grey silty CLAY with some rootlets. WEALD CLAY	
		0.50	D						
		0.50	PP						
		1.00	D	1.70	52.02		Orangish brown and black clayey gravelly fine to coarse SAND/very sandy CLAY with abundant ironstone and sandstone fragments and ferruginous staining. WEALD CLAY		
		1.20	ES						
		1.50	D						
		2.00	D	2.60	51.12		Brown silty CLAY with some siltstone inclusions. WEALD CLAY		
		2.00	PP						
		2.50	D						
2.50	PP	2.90	50.82		Brown mottled CLAY with frequent cemented silts with occasional thin siltstone bands. WEALD CLAY				
2.50	PP								
2.90	D	End of Borehole at 2.90m							

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks	
Depth Top	Depth Base	Diameter	Depth Strike	Rose To		

 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net				Borehole Log				Borehole No. WS81 Sheet 1 of 1				
Project Name: North Horsham II				Project No. GE20724		Co-ords: 519286E - 133562N		Hole Type WLS				
Location: Horsham				Level: 53.52		Scale 1:25						
Client: Legal & General				Dates: 04/05/2022		Logged By KO						
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description				
		Depth (m)	Type	Results								
		0.20	ES		0.60	52.92		Very stiff orangish brown and pale grey mottled silty CLAY with some rootlets TOPSOIL				
		0.50	D							Very stiff orangish brown and pale grey mottled silty CLAY with black ferruginous fragments. WEALD CLAY		
		0.50	PP	4.2kg/cm2								
		0.70	ES									
		1.00	D					1.70	51.82		Brown clayey gravelly fine to medium SAND with black ferruginous fragments. WEALD CLAY	
		1.00	PP	4.3kg/cm2								
		1.50	D									
		1.50	PP	4.9kg/cm2								
		1.90	ES					2.10	51.42		Very stiff silty CLAY with some black flecking. WEALD CLAY	
		2.00	D									
	2.50	D		2.60	50.92		Brown and dark grey mottled slightly sandy silty CLAY with rare fine to medium weakly cemented silt. WEALD CLAY					
	2.50	PP	5.0kg/cm2									
	2.90	D		2.90	50.62		End of Borehole at 2.90m					
Dynamic Sampling Run Details Water Strike Details (mbgl) Remarks												
Depth Top	Depth Base	Diameter	Depth Strike	Rose To								





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Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS92

Sheet 1 of 1

Project Name: North Horsham II

Project No.
GE20724

Co-ords: 519589E - 133413N

Hole Type
WLS

Location: Horsham

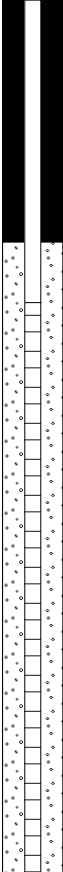
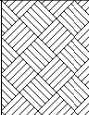
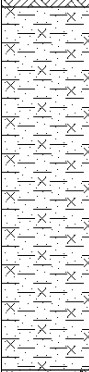
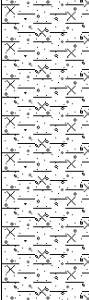
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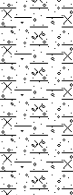
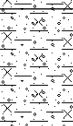
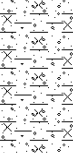
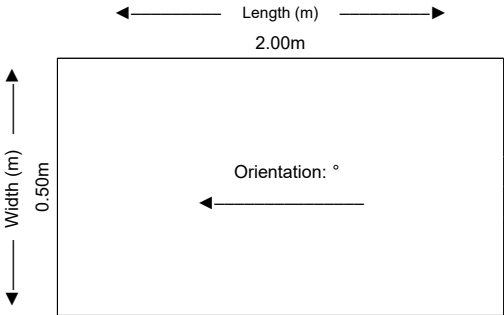
Client: Legal & General

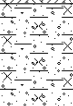
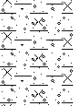
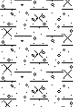
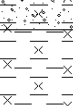
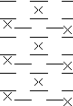
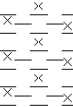
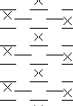
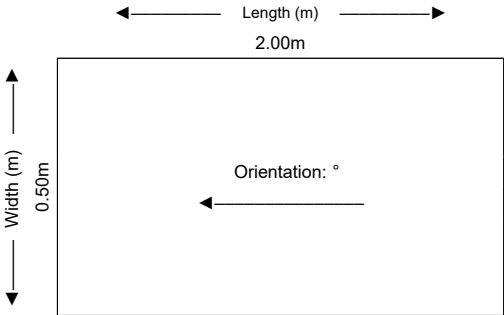
Dates: 06/05/2022

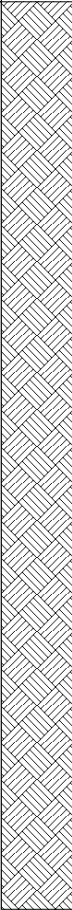
Logged By
KO

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.20	ES		0.40	54.95		Grass overlying dark brown silty sandy clay with abundant rootlets and some black ferruginous fragments. TOPSOIL	1	
		0.50	D					Orangish brown and pale grey mottled silty slightly sandy CLAY with black ferruginous fragments WEALD CLAY		
		0.60	ES							
		1.00	D		1.60	53.75		Brown becoming orangish brown slightly sandy silty CLAY with occasional fine to medium sub-angular weakly cemented silts. WEALD CLAY	2	
		1.50	D							
		2.00	D							
		2.50	D		2.60	52.75		Pale grey slightly clayey, weakly cemented SILT with occasional thin siltstone bands. WEALD CLAY	3	
		2.90	D							
End of Borehole at 2.90m								3		
									4	
									5	
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks						
Depth Top	Depth Base	Diameter	Depth Strike							Rose To
			1.94							1.94
						Water at 1.94m bgl.				

 Geo-Environmental	Contract Name: North Horsham II		Client: Legal & General			Trial Pit ID: TP04							
	Contract Number: GE20724	Date Started: 11/05/2022	Logged By: TU	Checked By:	Status:	Sheet 1 of 1							
	Easting: 519621.2	Northing: 133345.5	Ground Level: 56.66mOD	Plant Used:	Date Printed: 05/08/2022	Scale: 1:25							
Trial Pit Log		Weather:		Hole Termination:		Stability: Sides stable							
Samples & In Situ Testing			Strata Details					Water	Backfill				
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description							
0.20	ES9	PP=3kg/cm2	56.36	(0.30)		Grass overlying light brown silty clay. TOPSOIL		0.5					
0.50	B7			56.06	0.30		Very stiff light brown to orange brown silty slightly sandy CLAY with rare rootlets WEALD CLAY						
0.50	D1				(1.10)	0.60				Very stiff grey mottled orange brown silty, slightly sandy, slightly gravelly CLAY. Sands are fine. Gravels are fine to medium sub-rounded to sub-angular with rare ironstone inclusions. Rare black staining. WEALD CLAY			
0.50	ES10	54.96	1.70					Brown slightly silty sandy, very gravelly CLAY. Sands are fine to coarse. Gravels are fine to coarse sub-rounded to angular with ironstone and sandstone inclusions. Black and ferruginous staining. WEALD CLAY		1.0			
1.00	B8				54.06	(0.90)		End of Trial Pit at 2.60m				1.5	
1.00	D2							54.06	(0.90)				
1.00	ES11	54.06	2.60		End of Trial Pit at 2.60m		2.5						
1.50	D3				54.06	(0.90)			End of Trial Pit at 2.60m		3.0		
2.00	D4								54.06				(0.90)
2.50	D5	54.06	(0.90)		End of Trial Pit at 2.60m		3.5						
					54.06	(0.90)				End of Trial Pit at 2.60m		3.5	
		54.06	(0.90)				End of Trial Pit at 2.60m			3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
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					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
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					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
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		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
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		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
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		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)					End of Trial Pit at 2.60m		3.5			
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					54.06	(0.90)		End of Trial Pit at 2.60m				3.5	
		54.06	(0.90)										

 Geo-Environmental	Contract Name: North Horsham II			Client: Legal & General			Trial Pit ID: TP12			
	Contract Number: GE20724	Date Started: 09/05/2022	Logged By: TU	Checked By:	Status:	Sheet 1 of 1				
	Easting: 519472.3	Northing: 133334.6	Ground Level: 56.37mOD	Plant Used:	Date Printed: 05/08/2022	Scale: 1:25				
Trial Pit Log										
Weather:		Hole Termination:			Stability: Sides stable					
Samples & In Situ Testing				Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.20	ES7	PP=3.5kg/cm2	56.07	(0.30)		Grass overlying light brown silty clay with abundant rootlets. TOPSOIL			0.5	
0.50 0.50	B11 D1			(0.30)		Very stiff grey and orange brown mottled silty, slightly sandy CLAY. Sands are fine. Ironstone inclusions found from 1.70m onwards. WEALD CLAY				
1.00 1.00	B12 D2	PP=4kg/cm2	54.27	(1.80)					1.0	
1.50	D3	PP=3kg/cm2		(1.80)					1.5	
2.00	D4	PP=4kg/cm2	53.37	2.10		Very stiff brown and grey mottled orange brown silty sandy, slightly gravelly CLAY. Sands are fine. Gravels are medium to coarse sub-rounded to angular with Ironstone and sandstone inclusions. Ferruginous staining. WEALD CLAY			2.0	
2.50 2.50	D5 ES8	PP=4kg/cm2		(0.90)					2.5	
3.00 3.00	D6 ES9	PP=4kg/cm2		3.00		End of Trial Pit at 3.00m			3.0	
									3.5	
Dimensions:					Photo:					
Final Depth: 3.00m										
										
Inclination: °					PhotoofPit PhotoofSpoil					

 Geo-Environmental	Contract Name: North Horsham II			Client: Legal & General			Trial Pit ID: TP13			
	Contract Number: GE20724	Date Started: 09/05/2022	Logged By: TU	Checked By:	Status:	Sheet 1 of 1				
	Easting: 519550.1	Northing: 133375.1	Ground Level: 56.24mOD	Plant Used:	Date Printed: 05/08/2022	Scale: 1:25				
Weather:		Hole Termination:			Stability: Sides stable					
Samples & In Situ Testing				Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.10	ES7		55.84	(0.40)		Grass overlying brown silty clay with abundant rootlets. TOPSOIL			0.5	
0.50 0.50	B10 D1	PP=3kg/cm2		0.40		Very stiff orange brown, grey mottled brown and black silty, slightly sandy, slightly gravelly CLAY. Sands are fine to medium. Gravels are medium to coarse sub-rounded to angular with ironstone inclusions. Black and ferruginous staining. WEALD CLAY				
1.00 1.00 1.00	B11 D2 ES8	PP=4kg/cm2	54.64	(1.20)					1.0	
1.50	D3	PP=4kg/cm2		1.60		Very stiff grey mottled orange silty CLAY. Black staining to 2.6m WEALD CLAY				
2.00	D4	PP=3.5kg/cm2	53.24	(1.40)					2.0	
2.50	D5	PP=3.5kg/cm2		3.00						
3.00 3.00	D6 ES9	PP=3.5kg/cm2				End of Trial Pit at 3.00m			3.0	
									3.5	
Dimensions:						Photo:				
Final Depth: 3.00m						 PhotoofPit				
										
Inclination: °						 PhotoofSpoil				

 Geo-Environmental	Contract Name: North Horsham II			Client: Legal & General			Trial Pit ID: TP21			
	Contract Number: GE20724	Date Started: 06/05/2022	Logged By: Travis Underdown	Checked By:	Status:	Sheet 1 of 1				
	Easting: 519383.0	Northing: 133478.4	Ground Level: 54.54mOD	Plant Used:	Date Printed: 05/08/2022	Scale: 1:25				
Trial Pit Log										
Weather:		Hole Termination:			Stability:					
Samples & In Situ Testing				Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.30	ES7	PP=2.5kg/cm2	54.14	(0.40)		Grass overlying light brown silty slightly sandy clay with abundant rootlets. TOPSOIL			0.5	
0.50	D1			0.40		Very stiff light brown silty CLAY with rare rootlets. WEALD CLAY				
				0.60		Very stiff grey mottled orange silty slightly sandy CLAY. WEALD CLAY				
1.00	D2	PP=2.5kg/cm2	53.44	(0.50)					1.0	
1.50	D3	PP=2.75kg/cm2		1.10		Very stiff orange brown and black silty sandy CLAY. Sandstone inclusions throughout. Ferruginous staining. WEALD CLAY			1.5	
1.70	ES8									
2.00	D4	PP=3kg/cm2	51.94	(1.50)					2.0	
2.50	D5	PP=3.5kg/cm2		2.60					2.5	
				(0.40)		Stiff brown silty CLAY. WEALD CLAY				
3.00	D6	PP=3.5kg/cm2	51.54	3.00		End of Trial Pit at 3.00m			3.0	
									3.5	
Dimensions:					Photo:					
Final Depth: 3.00m										
← Length (m) → 2.00m ↑ Width (m) ↓ 0.50m Orientation: ° ←										
Inclination: °										
					Photo of Spoil					



Geo-Environmental

Contract Name:
North Horsham II

Contract Number:
GE20724

Easting:
519474.8

Date Started:
09/05/2022

Northing:
133413.8

Logged By:
TU

Ground Level:
55.35mOD

Client:

Legal & General

Checked By:

Status:

Trial Pit ID:
TP22

Sheet 1 of 1

Date Printed:
05/08/2022

Scale:
1:25

Trial Pit Log

Weather:

Hole Termination:

Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
0.10	ES7		55.15	0.20		Grass overlying light brown silty clay with abundant rootlets. TOPSOIL		
0.50	B10			(0.40)		Light brown silty slightly sandy CLAY. Sands are fine. WEALD CLAY	0.5	
0.50	D1		54.75	0.60		Very stiff orange brown, black with orange mottled grey slightly silty, sandy, slightly gravelly CLAY. Sands are fine. Gravels are medium to coarse sub-rounded to angular with Ironstone and sandstone inclusions. Black staining. WEALD CLAY		
1.00	B11	PP=4kg/cm2		(0.60)			1.0	
1.00	D2		54.15	1.20		Very stiff grey mottled orange and light brown silty sandy CLAY. Sands are fine. WEALD CLAY		
1.50	D3	PP=3.75kg/cm2		(1.20)			1.5	
2.00	D4	PP=3.75kg/cm2					2.0	
2.00	ES9							
2.20	ES8							
2.50	D5	PP=4kg/cm2	52.95	2.40		Very stiff light brown silty, sandy, slightly gravelly CLAY. Sands are fine to medium. Gravels are coarse sub-rounded to angular of ironstone. WEALD CLAY	2.5	
				(0.60)				
3.00	D6	PP=4kg/cm2	52.35	3.00		End of Trial Pit at 3.00m	3.0	
							3.5	

Dimensions:

Final Depth: 3.00m

Length (m)
2.00m

Width (m)
0.50m

Orientation: °

Inclination: °

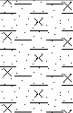
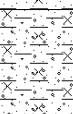
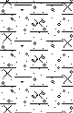
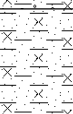
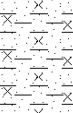
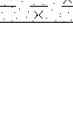
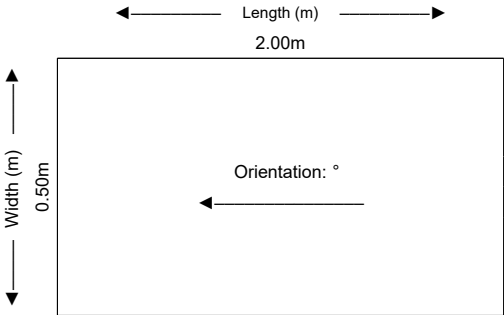
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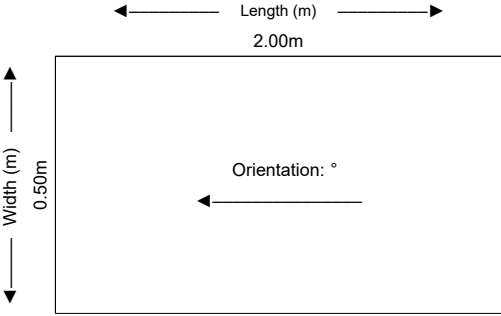


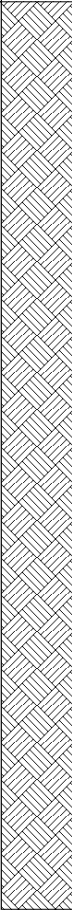
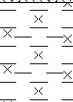
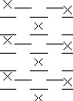
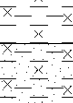
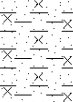
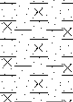
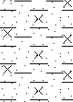
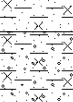
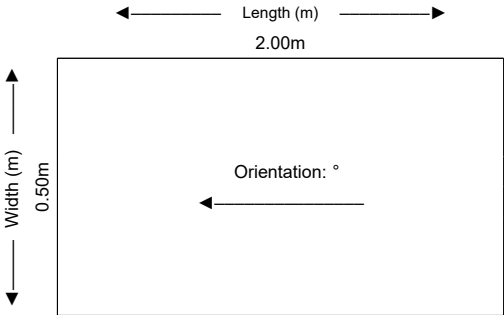
PhotoofPit

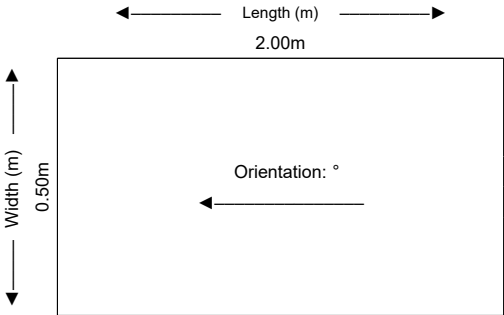


PhotoofSpoil

 Geo-Environmental	Contract Name: North Horsham II			Client: Legal & General			Trial Pit ID: TP25			
	Contract Number: GE20724	Date Started: 09/05/2022	Logged By: TU	Checked By:	Status:	Sheet 1 of 1				
	Easting: 519550.0	Northing: 133525.0	Ground Level: 55.20mOD	Plant Used:	Date Printed: 05/08/2022	Scale: 1:25				
Trial Pit Log										
Weather:		Hole Termination:			Stability: Sides stable					
Samples & In Situ Testing				Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.30	ES9	PP=3.5kg/cm2	54.80	(0.40)		Grass overlying brown very silty clay with abundant rootlets TOPSOIL			0.5	
0.50 0.50	B7 D1			(0.70)		Very stiff brown and grey mottled orange silty, slightly sandy CLAY. Sands are fine to medium. WEALD CLAY				
1.00 1.00 1.00 1.00	B8 D2 ES10 ES11	PP=3kg/cm2	54.10	1.10		Very stiff orange brown and black silty sandy, slightly gravelly CLAY. Sands are fine to medium. Gravels are fine to coarse sub-rounded to angular with Ironstone and sandstone inclusions. Ferruginous staining. WEALD CLAY			1.5	
1.50	D3	PP=3kg/cm2		1.60		Dark brown and black gravelly clayey SAND/sandy CLAY. Sands are fine to coarse. Gravels are fine to coarse sub- rounded to angular with Ironstone and sandstone. Black and ferruginous staining. WEALD CLAY				
2.00	D4	PP=3kg/cm2	53.10	2.10		Very stiff grey to dark brown silty slightly sandy CLAY. WEALD CLAY			2.5	
2.50	D5	PP=3.5kg/cm2		(0.90)						
3.00	D6	PP=3.5kg/cm2	52.20	3.00		End of Trial Pit at 3.00m			3.5	
Dimensions:					Photo:					
Final Depth: 3.00m					 PhotoofPit					
										
Inclination: °					 PhotoofSpoil					

 Geo-Environmental	Contract Name: North Horsham II			Client: Legal & General			Trial Pit ID: TP26				
	Contract Number: GE20724	Date Started: 06/05/2022	Logged By: Travis Underdown	Checked By:	Status:	Sheet 1 of 1					
	Easting: 519325.1	Northing: 133525.1	Ground Level: 54.13mOD	Plant Used:	Date Printed: 05/08/2022	Scale: 1:25					
Weather:		Hole Termination:			Stability:						
Samples & In Situ Testing				Strata Details					Water	Backfill	
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description					
0.20	ES7	PP=3kg/cm2	53.83	(0.30)		Grass overlying brown silty CLAY. Abundant rootlets. TOPSOIL			0.5		
0.50	B10			53.63	0.30		Grey and brown mottled silty, slightly sandy CLAY with rare rootlets. WEALD CLAY				
0.50	D1				0.50		Very stiff light brown mottled orange silty CLAY. Ferruginous staining at 0.8m bgl WEALD CLAY				
1.00	B11	PP=3kg/cm2	52.33	(1.30)		Dark brown and black slightly silty, sandy gravelly CLAY. Sands are fine. Gravels are fine to coarse sub-rounded to sub-angular with occasional sandstone and ironstone inclusions. Ferruginous staining. WEALD CLAY			1.0		
1.00	D2										1.80
1.50	D3	PP=4kg/cm2	51.53	(0.80)		Very stiff brown silty CLAY. WEALD CLAY			1.5		
2.00	D4										2.60
2.50	D5	PP=4.5kg/cm2	51.13	(0.40)		End of Trial Pit at 3.00m			2.0		
2.50	ES9										3.00
2.80	ES8										3.00
3.00	D6								2.5		
									3.0		
									3.5		
Dimensions:						Photo:					
Final Depth: 3.00m											
											
Inclination: °						PhotoofPit PhotoofSpoil					

 Geo-Environmental	Contract Name: North Horsham II		Client: Legal & General			Trial Pit ID: TP30			
	Contract Number: GE20724	Date Started: 06/05/2022	Logged By: Travis Underdown	Checked By:	Status:	Sheet 1 of 1			
	Easting: 519400.0	Northing: 133600.1	Ground Level: 54.83mOD	Plant Used:	Date Printed: 05/08/2022	Scale: 1:25			
Weather:		Hole Termination:			Stability:				
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.20	ES7	PP=4kg/cm2	54.53	(0.30)		Grass overlying brown silty CLAY abundant rootlets. TOPSOIL		0.5	
0.50 0.50	B9 D1			0.30		Very stiff grey mottled orange silty CLAY. WEALD CLAY			
				(0.80)					
1.00 1.00 1.00	B10 D2 ES8	PP=4kg/cm2	53.73	1.10		Very stiff grey and orange mottled silty, slightly sandy CLAY. WEALD CLAY		1.0	
1.50 1.50	D3 ES11	PP=4.5kg/cm2		(1.30)				1.5	
2.00	D4	PP=4.5kg/cm2		2.40		Very stiff orange brown and black silty sandy CLAY. Sands are fine. Occasional sandstone inclusions. Ferruginous staining. WEALD CLAY		2.0	
2.50	D5	PP=4kg/cm2	52.43	(0.60)				2.5	
3.00	D6	PP=4kg/cm2		3.00		End of Trial Pit at 3.00m		3.0	
								3.5	
Dimensions:					Photo:				
Final Depth: 3.00m									
									
Inclination: °					PhotoofPit PhotoofSpoil				

 Geo-Environmental	Contract Name: North Horsham II			Client: Legal & General			Trial Pit ID: TP68			
	Contract Number: GE20724	Date Started: 09/05/2022	Logged By: TU	Checked By:	Status:	Sheet 1 of 1				
	Easting: 519351.8	Northing: 133406.2	Ground Level: 54.53mOD	Plant Used:	Date Printed: 05/08/2022	Scale: 1:25				
Trial Pit Log		Weather:		Hole Termination:			Stability: Sides stable			
Samples & In Situ Testing				Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.20	ES9	PP=4kg/cm2	54.23	(0.30)		Grass overlying light brown silty clay TOPSOIL			0.5	
0.50	B7			0.30		Very stiff orange brown silty, slightly sandy, slightly gravelly CLAY. Sands are fine. Gravels are medium to coarse sub- rounded to sub-angular black ironstone. Black staining.				
0.50	D1			(0.40)		WEALD CLAY				
				0.70		Very stiff grey mottled orange brown silty, slightly sandy CLAY. Sands are fine to coarse.			1.0	
1.00	B8	PP=3.5kg/cm2		(1.50)					1.5	
1.00	D2									
1.50	D3	PP=4kg/cm2							2.0	
1.50	ES11									
1.80	ES10	PP=4kg/cm2							2.5	
2.00	D4									
				2.20		Light to orange brown slightly silty, sandy, slightly gravelly CLAY. Sands are fine to coarse. Gravels are fine to coarse sub- rounded to angular.			3.0	
2.50	D5	52.33	(0.60)		WEALD CLAY					
2.80	D6		51.73	2.80		End of Trial Pit at 2.80m			3.5	
Dimensions:					Photo:					
Final Depth: 2.80m										
										
Inclination: °					PhotoofPit PhotoofSpoil					



Geo-Environmental

Contract Name:
North Horsham II

Contract Number:
GE20724

Client:
Legal & General

Date Started:
06/05/2022

Logged By:
Travis Underdown

Checked By:

Status:

Date Printed:
05/08/2022

Trial Pit ID:
TP71

Sheet 1 of 1

Easting:
519372.1

Northing:
133563.6

Ground Level:
54.58mOD

Plant Used:

Scale:
1:25

Trial Pit Log

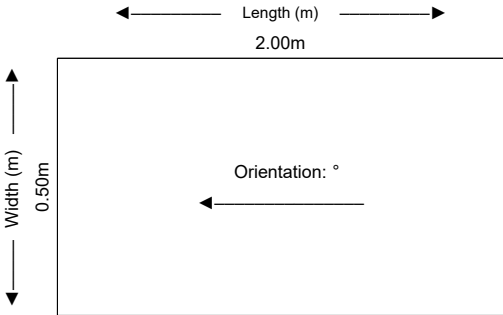
Weather:

Hole Termination:

Stability:

Dimensions:

Final Depth: 3.00m



Inclination: °

Photo:




Photo of Pit
Photo of Spoil



Geo-Environmental

Contract Name:
North Horsham II

Contract Number:
GE20724

Easting:
519385.6

Date Started:
12/05/2022

Logged By:
TU

Ground Level:
55.14mOD

Client:
Legal & General

Checked By:

Plant Used:

Trial Pit ID:
CBR01

Status:

Date Printed:
05/08/2022

Sheet 1 of 1

Scale:
1:25

Trial Pit Log

Weather:

Hole Termination:

Stability:

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
0.50	D1	PP=3.5kg/cm2		(0.30)		Grass overlying light brown silty clay with abundant rootlets. TOPSOIL	0.5	
			54.84	0.30		Very stiff light brown silty, slightly sandy CLAY with occasional rootlets. WEALD CLAY		
			54.74	0.40		Very stiff grey mottled orange brown silty, slightly sandy, slightly gravelly CLAY. Sands are fine. Gravels are coarse sub-rounded to sub-angular of ironstone with black staining. WEALD CLAY		
			54.54	0.60				
End of Trial Pit at 0.60m							1.0	
							1.5	
							2.0	
							2.5	
							3.0	
							3.5	

Dimensions:

Final Depth: 0.60m

Length (m)
1.00m

Width (m)
0.50m

Orientation: °

Inclination: °

Photo:



PhotoofPitPhotoofSpoil

 Geo-Environmental	Contract Name: North Horsham II			Client: Legal & General			Trial Pit ID: CBR07			
	Contract Number: GE20724	Date Started: 12/05/2022	Logged By: TU	Checked By:	Status:	Sheet 1 of 1				
	Easting: 519591.9	Northing: 133418.4	Ground Level: 55.32mOD	Plant Used:	Date Printed: 05/08/2022	Scale: 1:25				
Trial Pit Log		Weather:		Hole Termination:			Stability:			
Samples & In Situ Testing				Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.50	D1	PP=3.5kg/cm2								
			55.12	0.20		Grass overlying brown silty clay with abundant rootlets. TOPSOIL				
			54.92	0.40		Stiff light brown silty, slightly sandy CLAY. Sands are fine with rare rootlets and black staining. WEALD CLAY				
			54.72	0.60		Very stiff grey mottled orange brown silty, slightly sandy CLAY. Sands are fine. WEALD CLAY			0.5	
						End of Trial Pit at 0.60m				
									1.0	
									1.5	
									2.0	
									2.5	
									3.0	
									3.5	
Dimensions:					Photo:					
Final Depth: 0.60m										
← Length (m) → 1.00m ↑ Width (m) ↓ 0.50m Orientation: ° ←										
Inclination: °										

 Geo-Environmental	Contract Name: North Horsham II			Client: Legal & General			Trial Pit ID: CBR08		
	Contract Number: GE20724	Date Started: 12/05/2022	Logged By: TU	Checked By:	Status:	Sheet 1 of 1			
	Easting: 519628.4	Northing: 133402.0	Ground Level: 55.88mOD	Plant Used:	Date Printed: 05/08/2022	Scale: 1:25			
Trial Pit Log		Weather:		Hole Termination:			Stability:		
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.50	D1	PP=4.5kg/cm2	55.58	(0.30)		Grass overlying brown silty clay with abundant rootlets. TOPSOIL		0.5	
				0.30		Very stiff grey mottled orange silty CLAY. WEALD CLAY			
				(0.30)					
			55.28	0.60		End of Trial Pit at 0.60m		1.0	
								1.5	
								2.0	
								2.5	
								3.0	
								3.5	
Dimensions:						Photo:			
Final Depth: 0.60m									
← Length (m) → 1.00m ↑ Width (m) ↓ 0.50m Orientation: ° ←									
Inclination: °						Photo of Pit Photo of Spoil			

Project Id: GE20724
Project Title: North Horsham II
Location: Horsham
Client: Legal & General

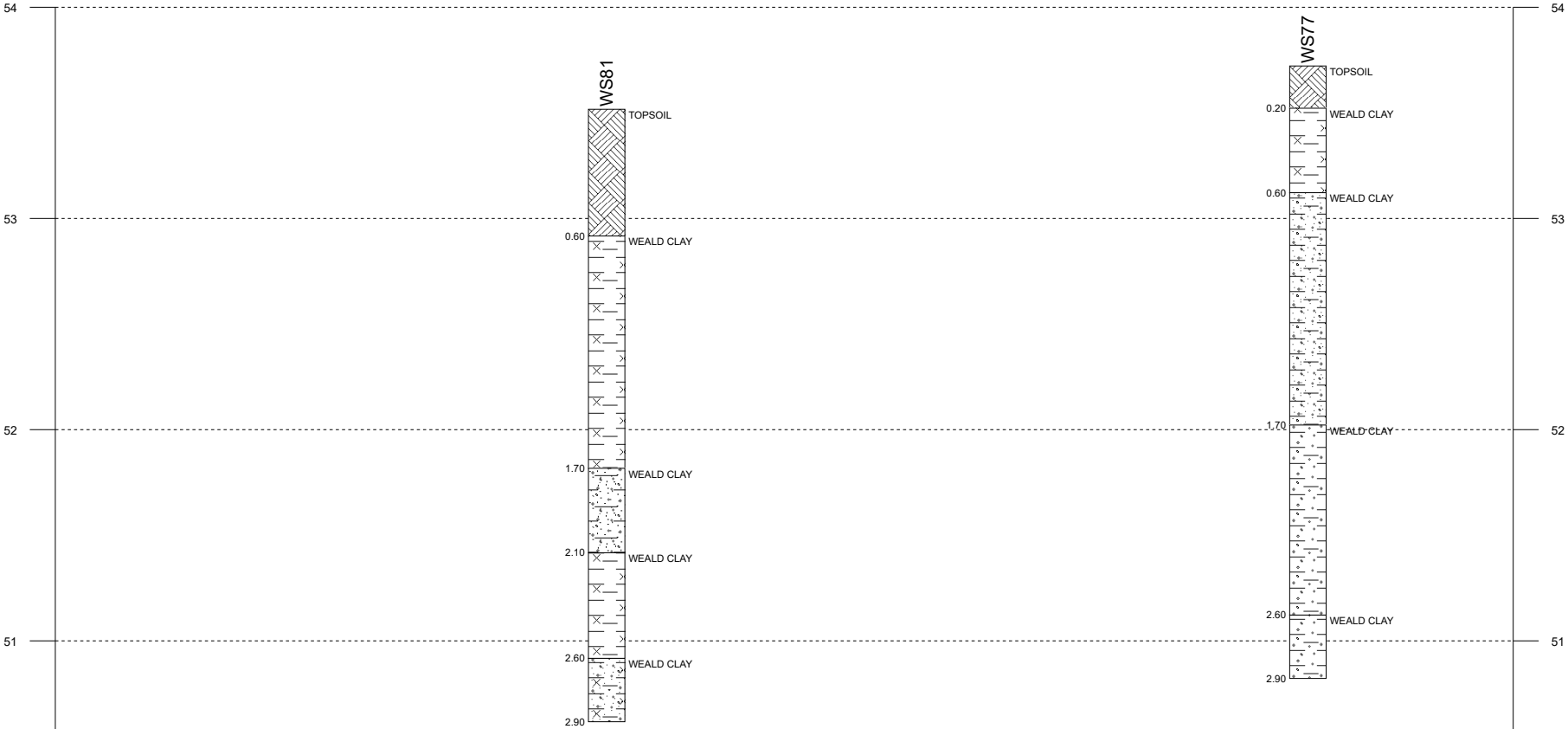
Title: Section line 1
Vertical Scale: 1:31
Horizontal Scale: 1:965
Engineer: GE



Legend Key

- TOPSOIL
- Silty CLAY
- Sandy gravelly CLAY
- Gravelly CLAY
- Clayey gravelly SAND
- Silty sandy gravelly CLAY

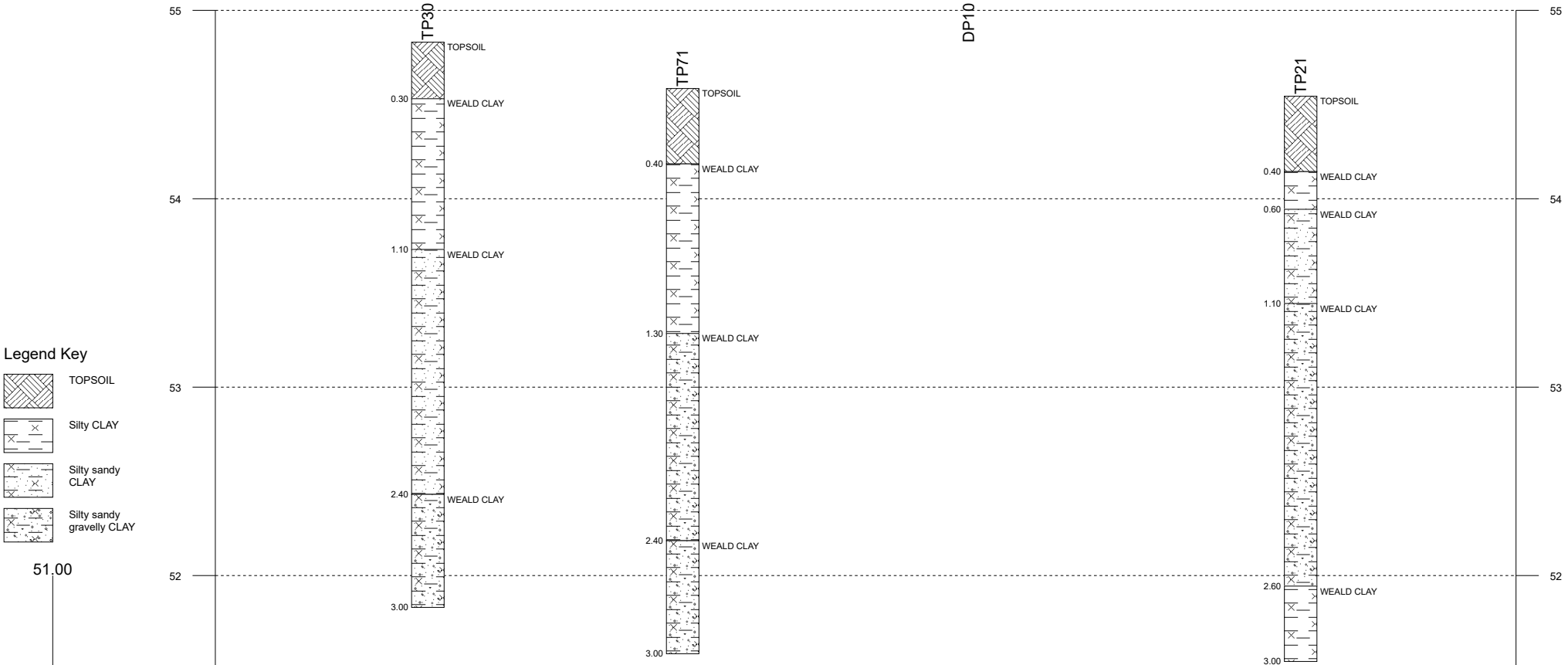
50.00



Chainage (m)	0.00	57.12	160.53	166.56
Offset (m)		7.80	8.44	
Elevation (mAOD)		53.52	53.72	

Project Id: GE20724
Project Title: North Horsham II
Location: Horsham
Client: Legal & General

Title: Section line 2
Vertical Scale: 1:31
Horizontal Scale: 1:809
Engineer: GE



Legend Key

- TOPSOIL
- Silty CLAY
- Silty sandy CLAY
- Silty sandy gravelly CLAY

51.00

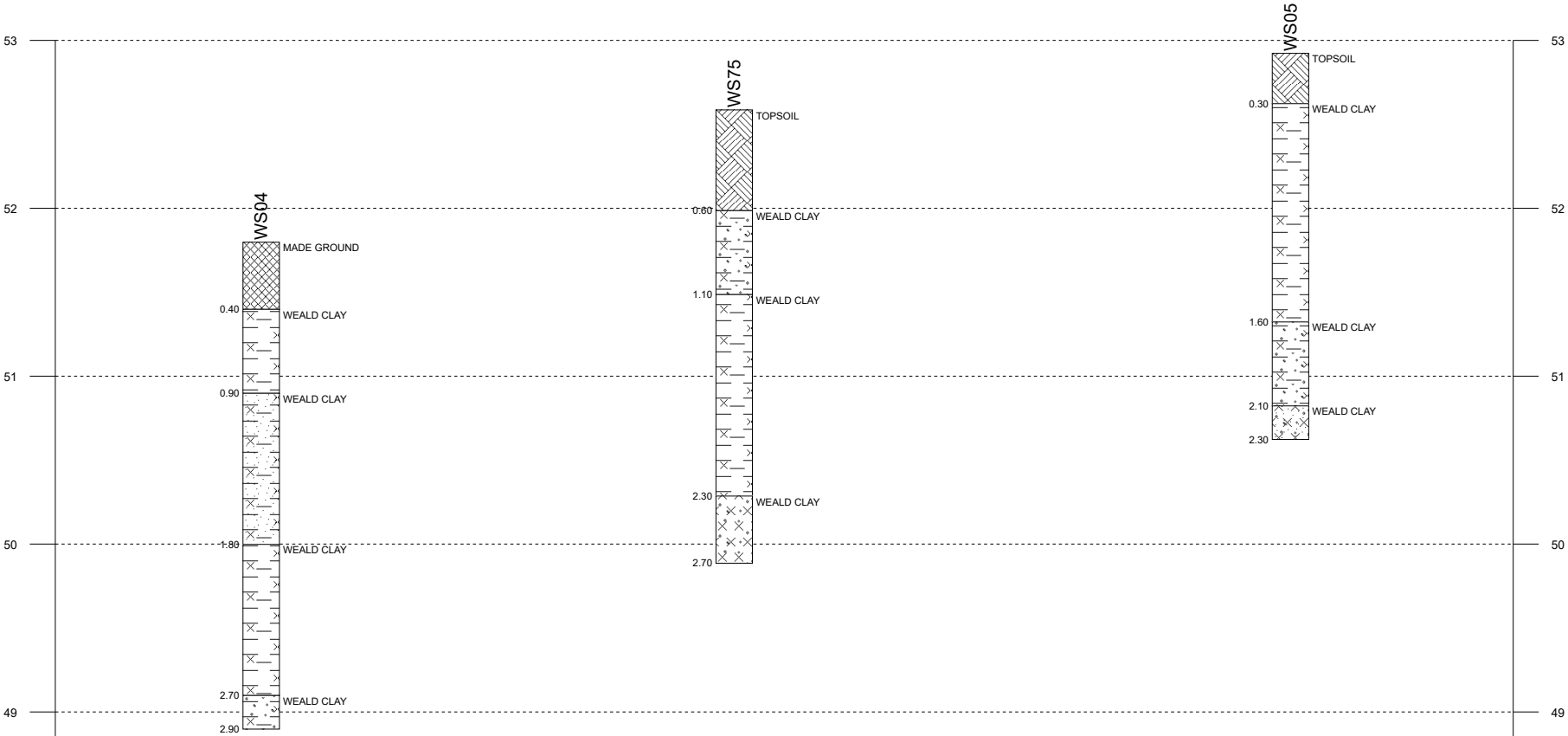
Chainage (m)	0.00	9.17	44.48	84.13	130.12	137.94	139.64
Offset (m)		8.08	21.29	5.04	13.87		
Elevation (mAOD)		54.83	54.59	54.82	54.54		

Project Id: GE20724
Project Title: North Horsham II
Location: Horsham
Client: Legal & General

Title: Section line 3
Vertical Scale: 1:39
Horizontal Scale: 1:1128
Engineer: GE



- Legend Key
- TOPSOIL
 - Silty CLAY
 - Silty gravelly CLAY
 - MADE GROUND
 - Silty sandy CLAY
 - Sandy gravelly SILT
 - Gravelly SILT



Chainage (m)	0.00	7.22	88.75	184.64	194.71	
Offset (m)		3.80	16.57	2.06		
Elevation (mAOD)		51.80	52.59	52.92		

Project Id: GE20724
Project Title: North Horsham II
Location: Horsham
Client: Legal & General

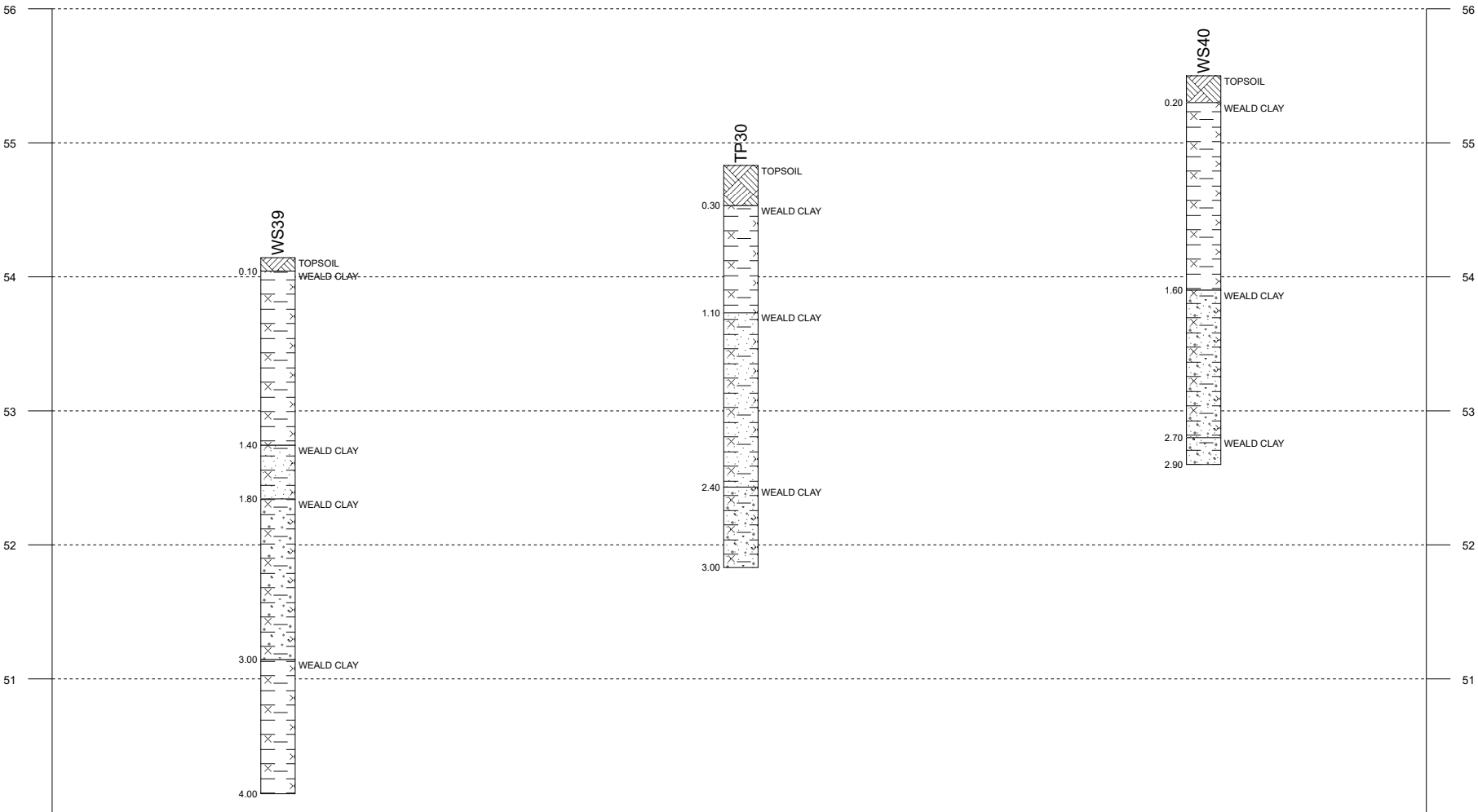
Title: Section line 4
Vertical Scale: 1:46
Horizontal Scale: 1:998
Engineer: GE



Legend Key

- TOPSOIL
- Silty CLAY
- Silty sandy gravelly CLAY
- Silty sandy CLAY
- Sandy gravelly CLAY
- Silty gravelly CLAY

50.00



Chainage (m)	0.00	11.53	86.42	161.30	172.26
Offset (m)		0.68	2.08	4.94	
Elevation (mAOD)		54.14	54.83	55.50	

Project Id: GE20724
Project Title: North Horsham II
Location: Horsham
Client: Legal & General

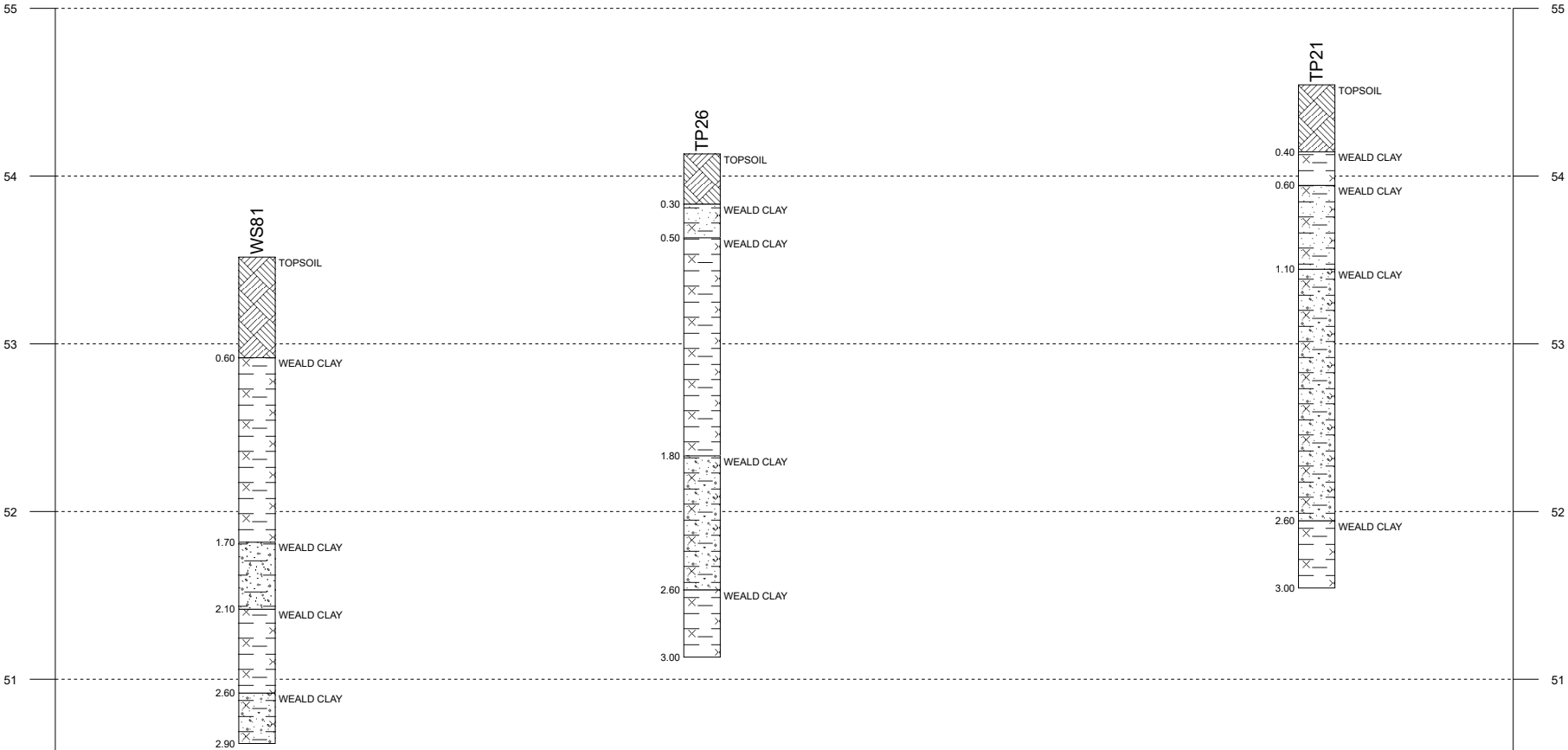
Title: Section line 5
Vertical Scale: 1:39
Horizontal Scale: 1:792
Engineer: GE



Legend Key

- TOPSOIL
- Silty CLAY
- Silty sandy CLAY
- Silty sandy gravelly CLAY
- Clayey gravelly SAND

50.00



Chainage (m)	0.00	4.56	58.42	132.81	136.66
Offset (m)		0.27	1.47	1.28	
Elevation (mAOD)	53.52		54.13	54.54	

Project Id: GE20724
Project Title: North Horsham II
Location: Horsham
Client: Legal & General

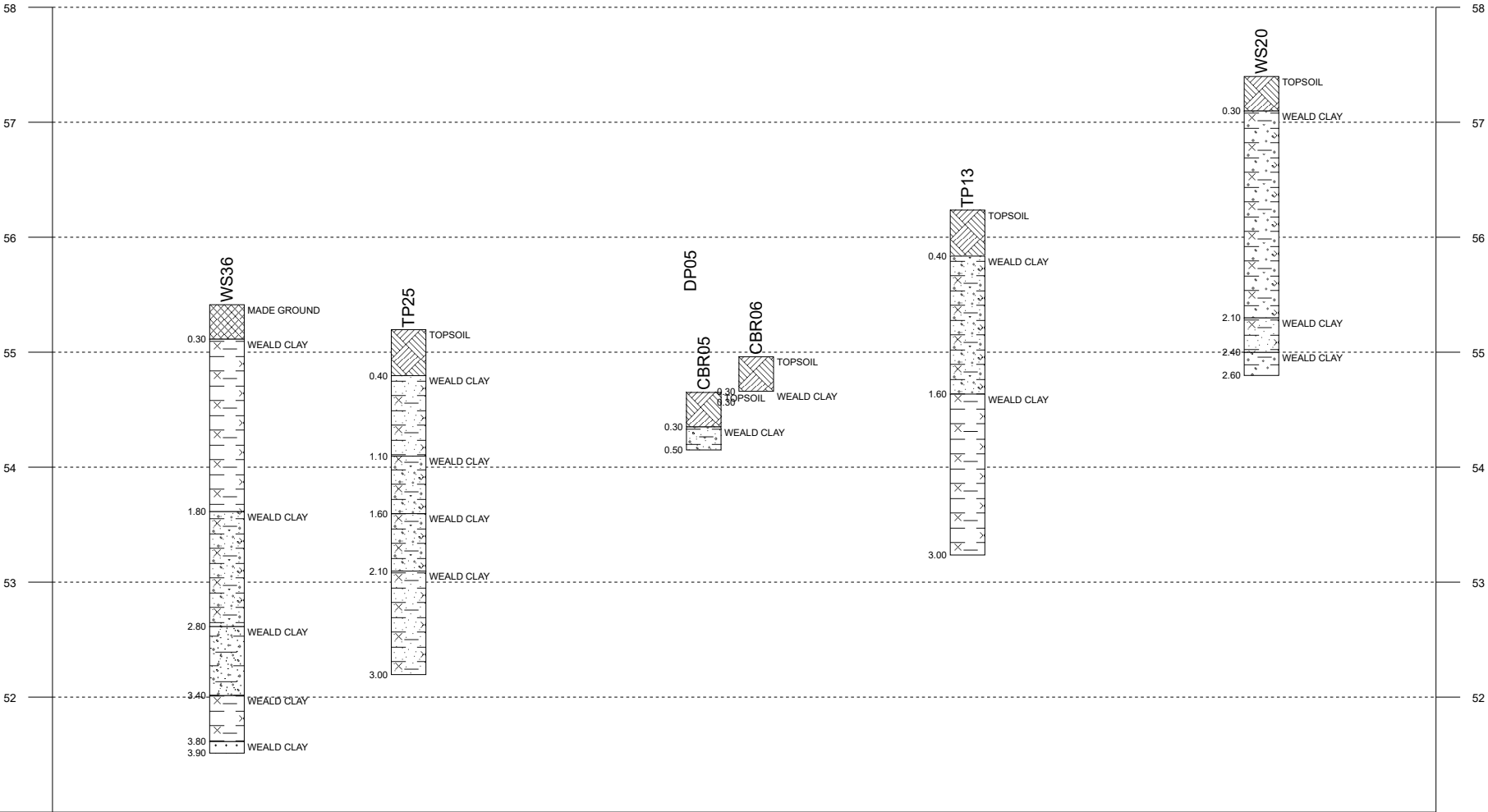
Title: Section line 6
Vertical Scale: 1:54
Horizontal Scale: 1:1658
Engineer: GE



Legend Key

- TOPSOIL
- Silty gravelly CLAY
- Silty sandy gravelly CLAY
- MADE GROUND
- Silty sandy CLAY
- Silty CLAY
- Gravelly CLAY
- Sandy gravelly CLAY
- Clayey gravelly SAND
- SANDSTONE

51.00



Chainage (m)	0.00	5.02		53.53		55.51	12.70	128.75		54.96		56.24		57.40	281.23	286.17	
Offset (m)		2.95		18.53		54.65	23.18	132.32		15.30		4.46		4.17			
Elevation (mAOD)		55.41		55.20		54.65	23.18	132.32		54.96		56.24		57.40			

Project Id: GE20724
Project Title: North Horsham II
Location: Horsham
Client: Legal & General

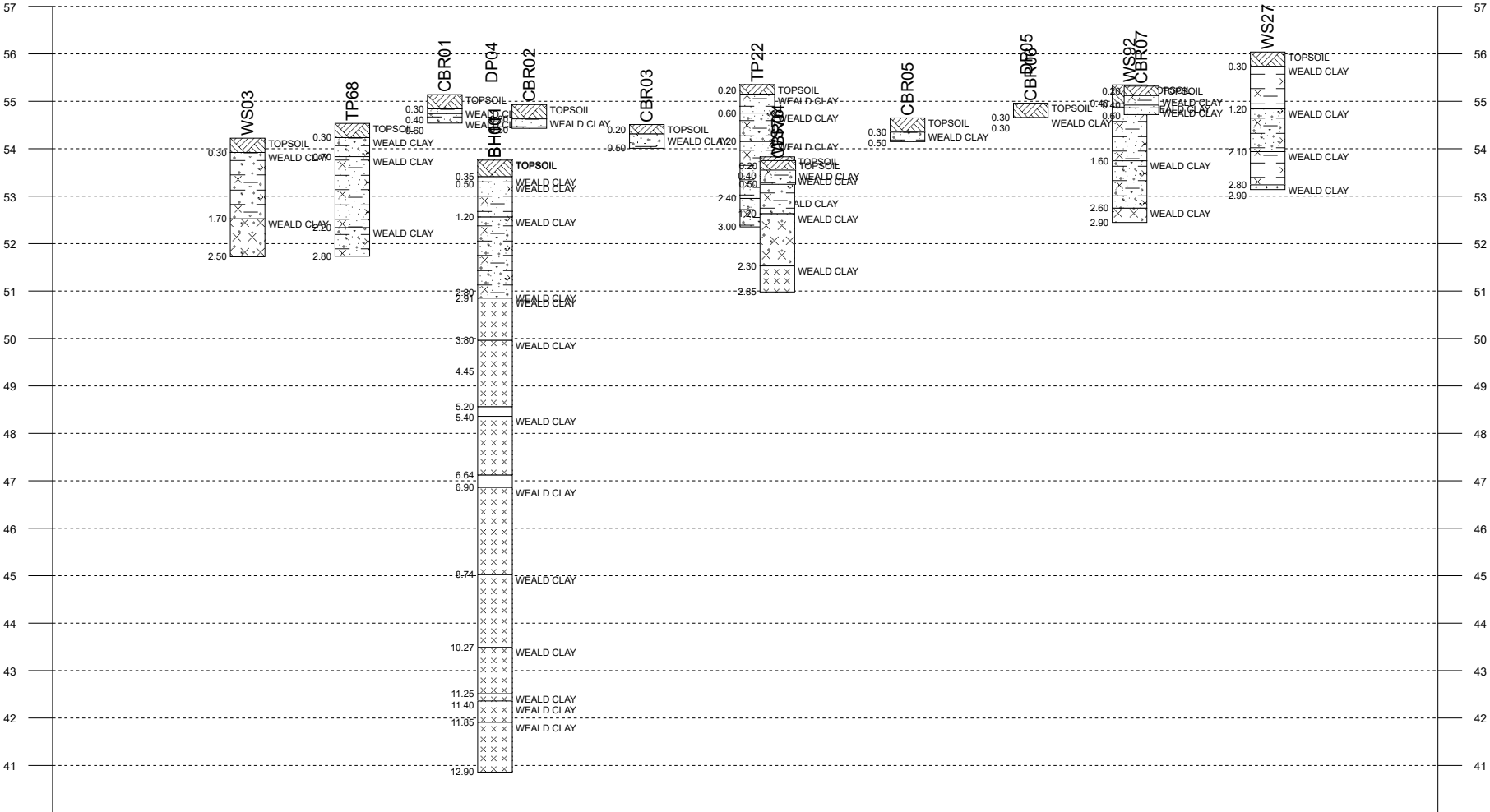
Title: Section line 1
Vertical Scale: 1:131
Horizontal Scale: 1:1881
Engineer: GE



Legend Key

- TOPSOIL
- Silty CLAY
- Silty sandy CLAY
- Silty sandy gravelly CLAY
- Sandy gravelly CLAY
- Clayey gravelly SAND
- Silty gravelly CLAY
- SANDSTONE
- Gravelly SILT
- Gravelly SILT
- SILTSTONE
- SILT
- Void

40.00



Chainage (m)	0.00	11.86	43.53	71.50	86.64	97.07	132.62	166.04	172.09	211.47	243.56	278.64	320.43
Offset (m)		15.37	10.76	25.75	29.43	5.29	23.22	2.70	26.85	18.66	19.47	18.20	7.28
Elevation (mAOD)	54.22		54.53	55.14	55.38	54.93	54.51	55.35	53.85	54.65	55.54	55.35	56.04

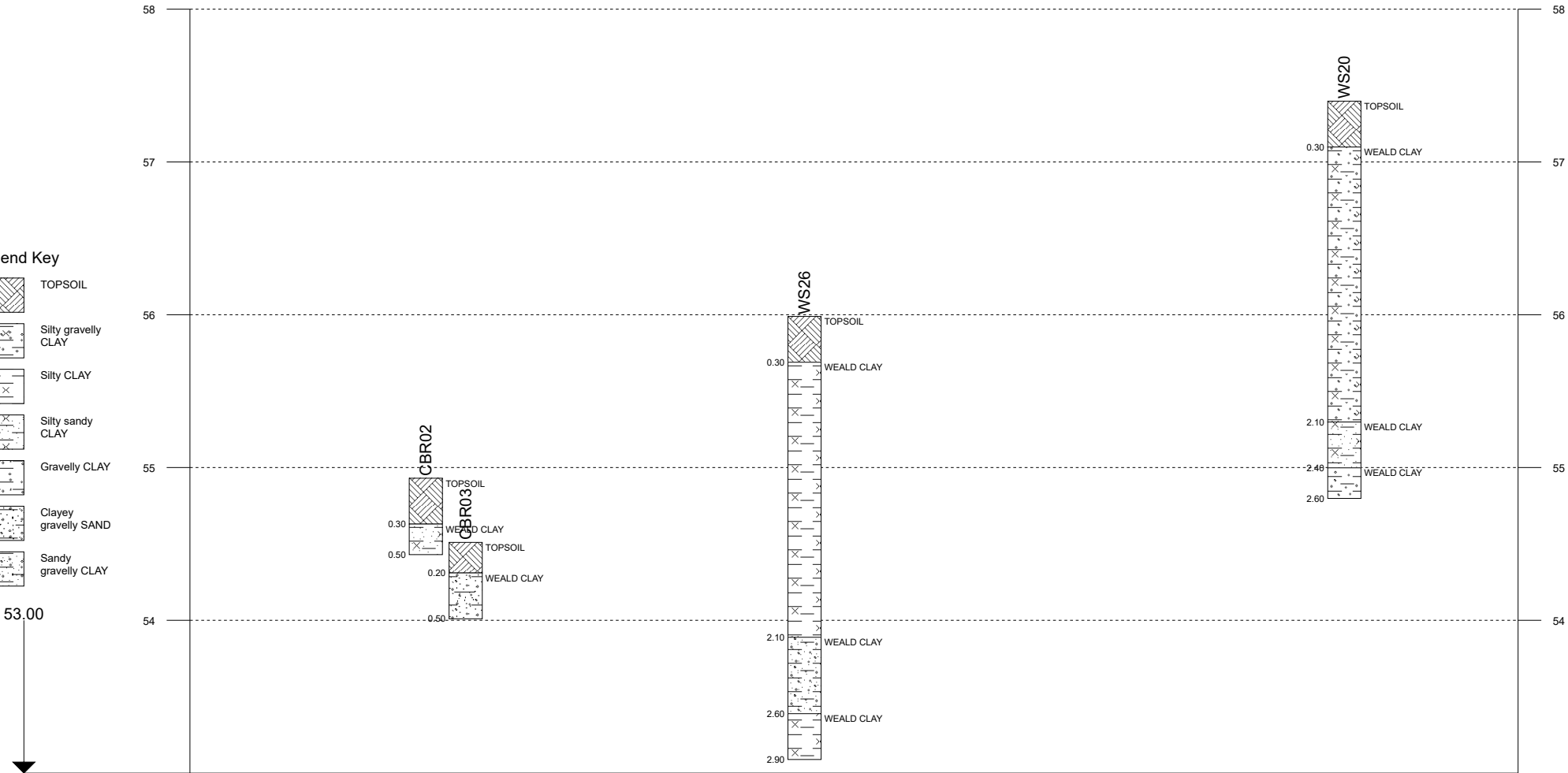
Project Id: GE20724
Project Title: North Horsham II
Location: Horsham
Client: Legal & General

Title: Section line 2
Vertical Scale: 1:39
Horizontal Scale: 1:1186
Engineer: GE



Legend Key

- TOPSOIL
- Silty gravelly CLAY
- Silty CLAY
- Silty sandy CLAY
- Gravelly CLAY
- Clayey gravelly SAND
- Sandy gravelly CLAY



Chainage (m)	0.00	17.21	25.13	92.54	199.94	204.76
Offset (m)		16.21	22.81	4.40	4.98	
Elevation (mAOD)		54.93	54.51	55.99	57.40	

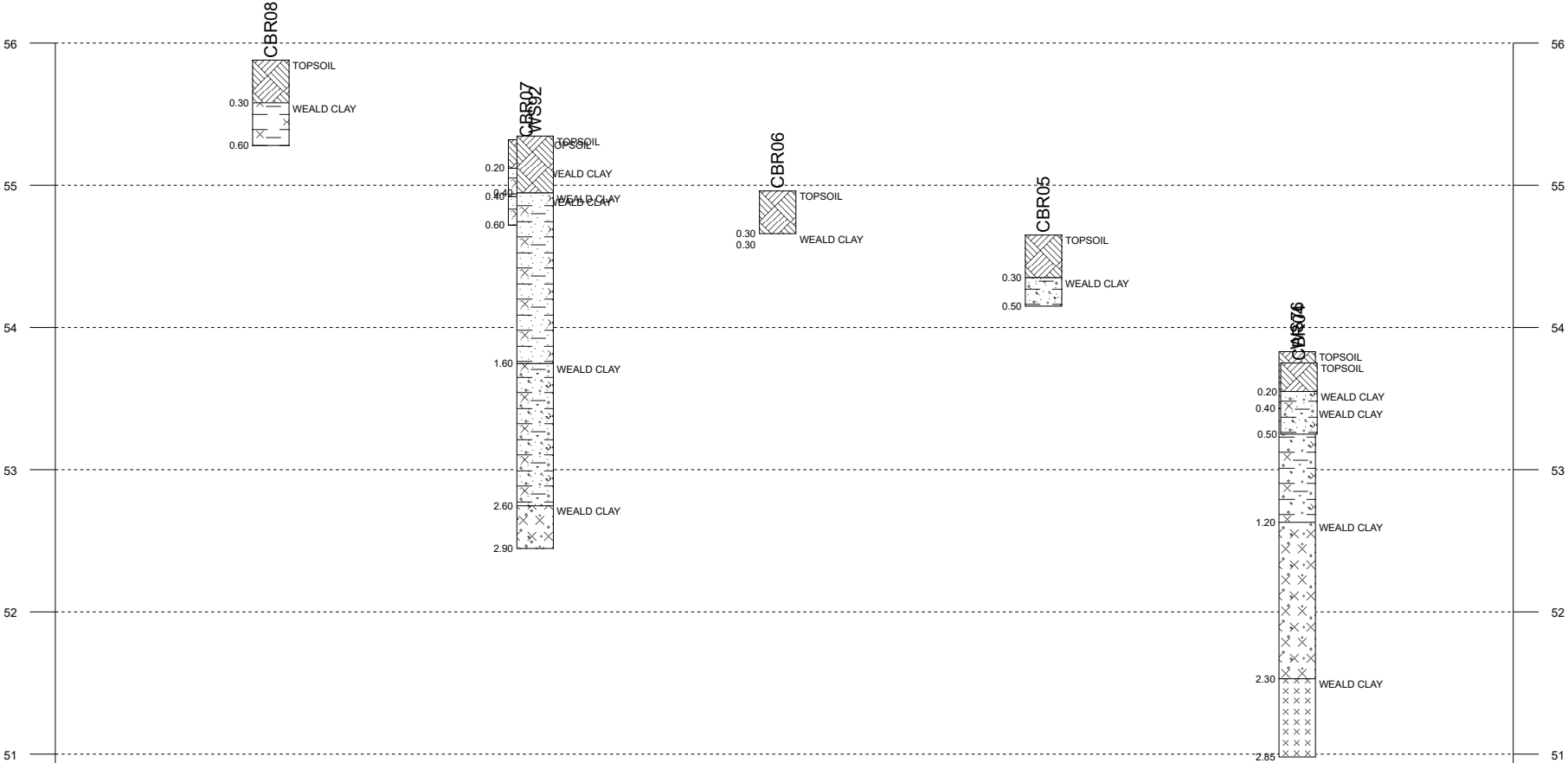
Project Id: GE20724
Project Title: North Horsham II
Location: Horsham
Client: Legal & General

Title: Section line 3
Vertical Scale: 1:46
Horizontal Scale: 1:1008
Engineer: GE



Legend Key

- TOPSOIL
- Silty CLAY
- Silty sandy CLAY
- Silty sandy gravelly CLAY
- Sandy gravelly CLAY
- Silty gravelly CLAY
- Gravelly SILT
- Gravelly SILT
- SILTSTONE

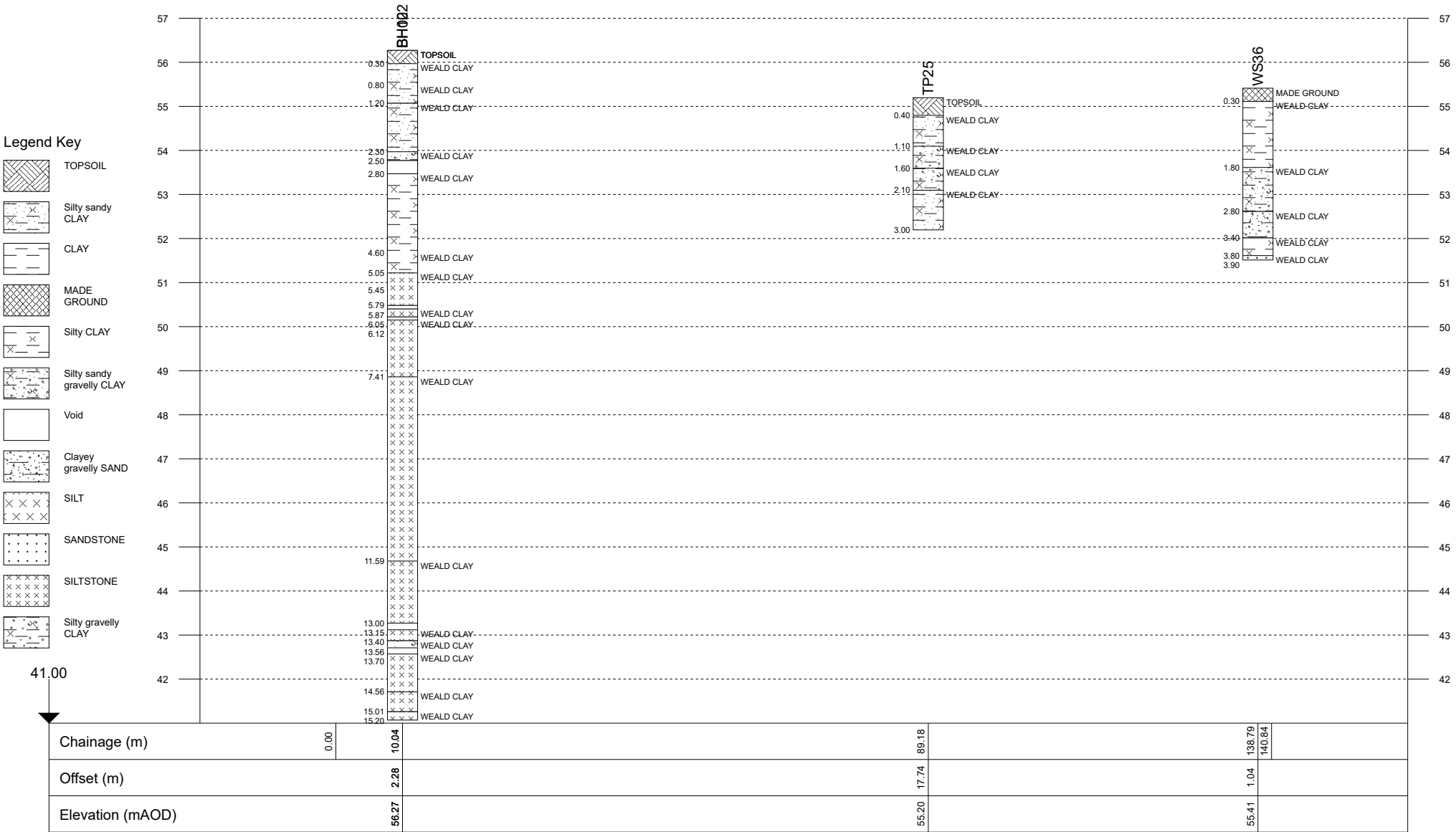


50.00

Chainage (m)	0.00	7.94	46.84	86.01	126.96	166.96	173.99
Offset (m)		0.99	0.84	10.63	11.01	1.97	
Elevation (mAOD)		55.88	55.32	54.96	54.65	53.88	

Project Id: GE20724
Project Title: North Horsham II
Location: Horsham
Client: Legal & General

Title: Section line 4
Vertical Scale: 1:123
Horizontal Scale: 1:816
Engineer: GE



Project Id: GE20724
Project Title: North Horsham II
Location: Horsham
Client: Legal & General

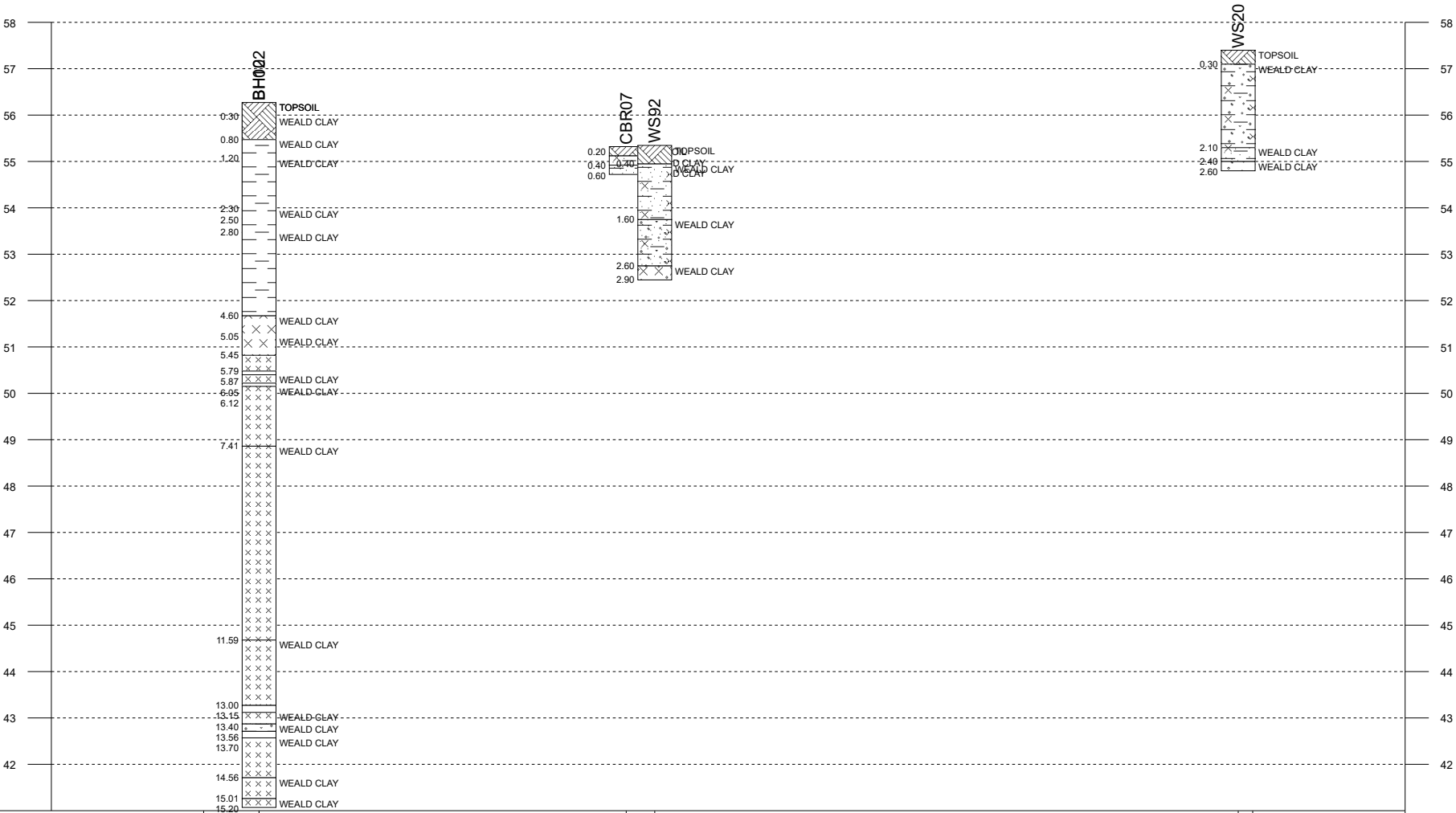
Title: Section line 5
Vertical Scale: 1:131
Horizontal Scale: 1:1286
Engineer: GE



Legend Key

- TOPSOIL
- Silty gravelly CLAY
- Silty sandy CLAY
- CLAY
- Gravelly CLAY
- Silty sandy gravelly CLAY
- Void
- Silty CLAY
- Gravelly SILT
- SILT
- SILTSTONE

41.00



Chainage (m)

Offset (m)

Elevation (mAOD)

0.00

11.73

89.43

95.47

218.95

222.02

4.74

0.47

0.14

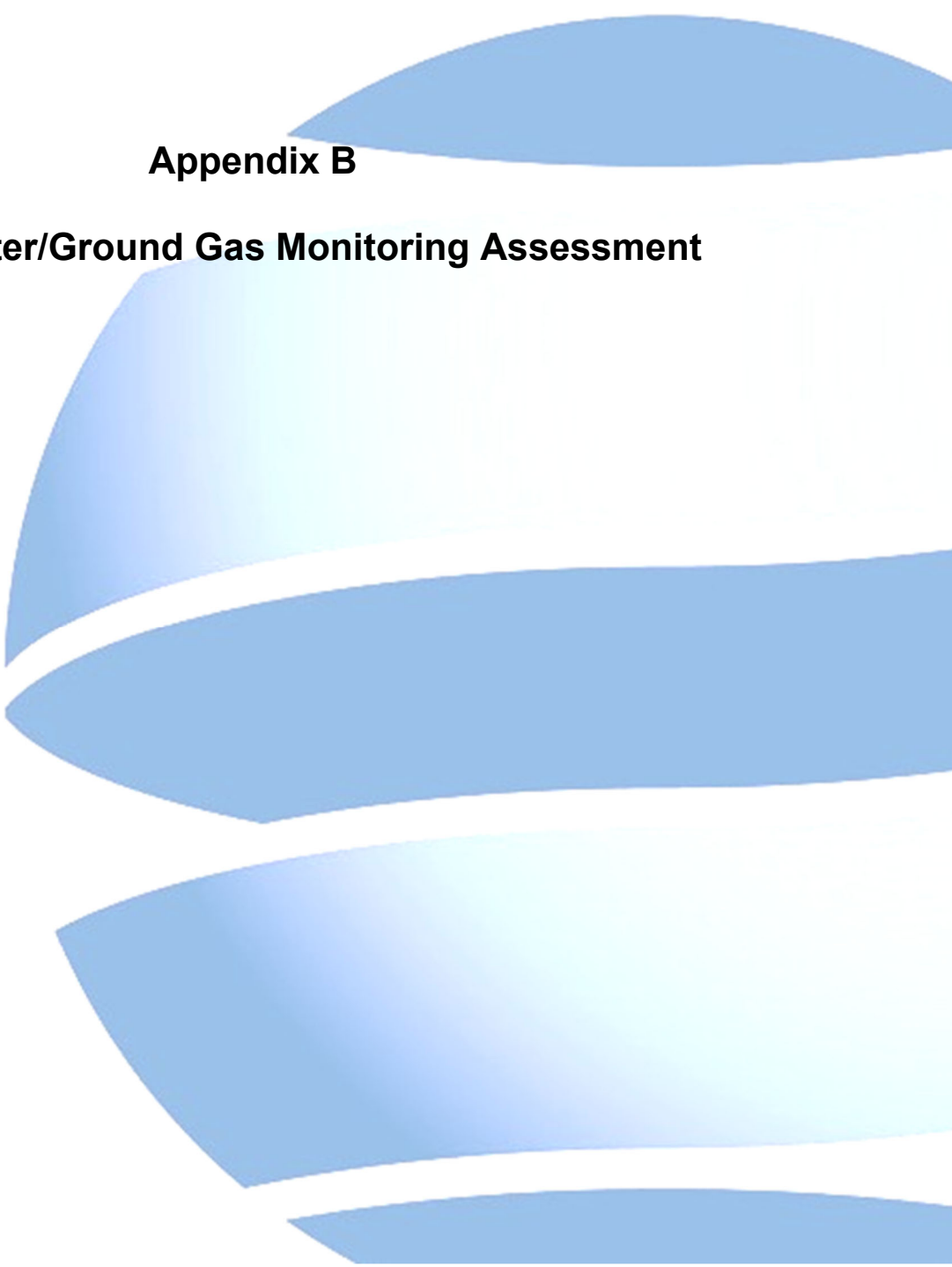
3.61

56.27

55.32

55.35

57.40



Appendix B

Groundwater/Ground Gas Monitoring Assessment

Project: North Horsham Sports Pitches & A264 Access
 Ref: GE20724
 Client: Legal & General Strategic Land North Horsham Ltd



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS39	16/06/22	0	0.0	0.1	20.1	0.0	-	1017	1.96	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS39	16/06/22	10	0.1	2.5	19.4	0.0	-	1017	1.96	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS39	16/06/22	20	0.1	2.6	19.2	0.0	-	1017	1.96	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS39	16/06/22	30	0.1	2.6	19.1	0.0	-	1017	1.96	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS39	16/06/22	60	0.1	2.6	19.1	0.0	-	1017	1.96	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS39	16/06/22	90	0.0	2.6	19.1	0.0	-	1017	1.96	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS39	16/06/22	120	0.0	2.6	19.0	0.0	-	1017	1.96	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS39	16/06/22	180	0.0	2.6	19.0	0.0	-	1017	1.96	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/22	0	0.0	0.0	20.5	0.0	-	1016	1.32	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/22	10	0.0	1.2	19.8	0.0	-	1016	1.32	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/22	20	0.0	3.0	17.5	0.0	-	1016	1.32	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/22	30	0.0	3.0	17.4	0.0	-	1016	1.32	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/22	60	0.0	3.0	17.4	0.0	-	1016	1.32	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/22	90	0.0	3.1	17.4	0.0	-	1016	1.32	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/22	120	0.0	3.1	17.4	0.0	-	1016	1.32	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/22	180	0.0	3.2	17.4	0.0	-	1016	1.32	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS92	16/06/22	0	0.0	0.0	20.5	0.0	-	1016	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS92	16/06/22	10	0.0	1.6	18.7	0.0	-	1016	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS92	16/06/22	20	0.0	1.8	18.8	0.0	-	1016	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS92	16/06/22	30	0.0	1.8	18.9	0.0	-	1016	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS92	16/06/22	60	0.0	1.8	18.9	0.0	-	1016	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS92	16/06/22	90	0.0	1.8	18.9	0.0	-	1016	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS92	16/06/22	120	0.0	1.8	18.9	0.0	-	1016	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS92	16/06/22	180	0.0	1.8	18.9	0.0	-	1016	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	16/06/22	0	0.1	0.0	20.5	0.0	-	1016	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	16/06/22	10	0.1	2.5	18.6	0.0	-	1016	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	16/06/22	20	0.1	3.0	18.2	0.0	-	1016	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	16/06/22	30	0.0	3.1	18.2	0.0	-	1016	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	16/06/22	60	0.0	3.1	18.2	0.0	-	1016	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	16/06/22	90	0.0	3.1	18.2	0.0	-	1016	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	16/06/22	120	0.0	3.1	18.2	0.0	-	1016	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	16/06/22	180	0.0	3.1	18.2	0.0	-	1016	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	16/06/22	0	0.0	0.0	20.8	0.0	-	1016	1.06	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	16/06/22	10	0.0	1.6	19.1	0.0	-	1016	1.06	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	16/06/22	20	0.0	1.1	19.2	0.0	-	1016	1.06	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	16/06/22	30	0.0	1.1	19.2	0.0	-	1016	1.06	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	16/06/22	60	0.0	1.1	19.3	0.0	-	1016	1.06	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	16/06/22	90	0.0	1.1	19.3	0.0	-	1016	1.06	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	16/06/22	120	0.0	1.1	19.3	0.0	-	1016	1.06	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	16/06/22	180	0.0	1.1	19.3	0.0	-	1016	1.06	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	0	0.1	0.0	20.5	0.0	-	1014	1.77	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	10	0.1	0.0	20.4	0.0	-	1014	1.77	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	20	0.1	0.0	20.5	0.0	-	1014	1.77	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	30	0.1	0.0	20.5	0.0	-	1014	1.77	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	60	0.1	0.0	20.4	0.0	-	1014	1.77	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	90	0.1	0.0	20.4	0.0	-	1014	1.77	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	120	0.1	0.0	20.4	0.0	-	1014	1.77	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	15/06/22	180	0.1	0.0	20.4	0.0	-	1014	1.77	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

Project: North Horsham Sports Pitches & A264 Access
Ref: GE20724
Client: Legal & General Strategic Land North Horsham Ltd



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC				
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄		CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂		GSV	Conc.		GSV	Conc.		
WS05	15/06/22	0	0.0	0.0	20.5	0.0		1014	1.71	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS05	15/06/22	10	0.0	1.0	19.4	0.0	-	1014	1.71	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS05	15/06/22	20	0.0	1.1	18.9	0.0	-	1014	1.71	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS05	15/06/22	30	0.0	1.2	18.9	0.0	-	1014	1.71	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS05	15/06/22	60	0.0	1.2	18.9	0.0	-	1014	1.71	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS05	15/06/22	90	0.0	1.2	18.8	0.0	-	1014	1.71	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS05	15/06/22	120	0.0	1.2	18.8	0.0	-	1014	1.71	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS05	15/06/22	180	0.0	1.2	18.8	0.0	-	1014	1.71	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	15/06/22	0	0.1	0.0	21.1	0.1		1013	1.85	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	15/06/22	10	0.0	1.3	20.9	0.1	-	1013	1.85	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	15/06/22	20	0.0	2.7	18.1	0.1	-	1013	1.85	0.000	0.003	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	15/06/22	30	0.0	2.7	18.0	0.1	-	1013	1.85	0.000	0.003	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	15/06/22	60	0.0	2.7	17.9	0.1	-	1013	1.85	0.000	0.003	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	15/06/22	90	0.0	2.7	17.9	0.1	-	1013	1.85	0.000	0.003	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	15/06/22	120	0.0	2.7	17.9	0.1	-	1013	1.85	0.000	0.003	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	15/06/22	180	0.0	2.7	17.9	0.1	-	1013	1.85	0.000	0.003	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	15/06/22	0	0.0	0.0	20.5	0.1		1011	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	15/06/22	10	0.0	1.2	19.2	0.1	-	1011	1.16	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	15/06/22	20	0.0	1.8	18.4	0.1	-	1011	1.16	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	15/06/22	30	0.0	1.8	18.3	0.1	-	1011	1.16	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	15/06/22	60	0.0	1.8	18.3	0.1	-	1011	1.16	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	15/06/22	90	0.0	1.8	18.3	0.1	-	1011	1.16	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	15/06/22	120	0.0	1.8	18.3	0.1	-	1011	1.16	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	15/06/22	180	0.0	1.8	18.3	0.1	-	1011	1.16	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS40	16/06/22	0	0.1	0.0	20.7	0.0		1017	2.45	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS40	16/06/22	10	0.0	1.9	19.9	0.0	-	1017	2.45	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS40	16/06/22	20	0.0	5.5	15.8	0.0	-	1017	2.45	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1	
WS40	16/06/22	30	0.0	5.6	14.2	0.0	-	1017	2.45	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1	
WS40	16/06/22	60	0.0	5.6	14.1	0.0	-	1017	2.45	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1	
WS40	16/06/22	90	0.0	5.7	14.1	0.0	-	1017	2.45	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1	
WS40	16/06/22	120	0.0	5.7	14.1	0.0	-	1017	2.45	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1	
WS40	16/06/22	180	0.0	5.7	14.1	0.0	-	1017	2.45	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1	
WS04	29/06/22	0	0.2	0.0	21.1	0.0	0.2	1008	1.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS04	29/06/22	10	0.1	0.9	20.8	0.0	0.2	1008	1.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS04	29/06/22	20	0.1	1.5	20.2	0.0	0.2	1008	1.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS04	29/06/22	30	0.1	1.6	20.0	0.0	0.2	1008	1.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS04	29/06/22	60	0.1	2.0	19.7	0.0	0.2	1008	1.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS04	29/06/22	90	0.1	2.3	19.5	0.0	0.2	1008	1.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS04	29/06/22	120	0.1	2.4	19.5	0.0	0.2	1008	1.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS04	29/06/22	180	0.1	2.4	19.5	0.0	0.2	1008	1.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	29/06/22	0	0.2	0.0	20.7	0.0	0.2	1008	2.12	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	29/06/22	10	0.2	0.2	20.2	0.0	0.2	1008	2.12	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	29/06/22	20	0.2	0.0	20.2	0.0	0.2	1008	2.12	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	29/06/22	30	0.2	0.0	20.6	0.0	0.2	1008	2.12	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	29/06/22	60	0.2	0.0	20.6	0.0	0.2	1008	2.12	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	29/06/22	90	0.2	0.0	20.6	0.0	0.2	1008	2.12	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	29/06/22	120	0.2	0.0	20.6	0.0	0.2	1008	2.12	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	29/06/22	180	0.2	0.0	20.6	0.0	0.2	1008	2.12	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	

Project: North Horsham Sports Pitches & A264 Access
Ref: GE20724
Client: Legal & General Strategic Land North Horsham Ltd



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS40	29/06/22	0	0.2	0.0	20.5	0.0	0.2	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS40	29/06/22	10	0.1	0.7	20.7	0.0	0.2	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS40	29/06/22	20	0.1	5.6	16.5	0.0	0.2	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS40	29/06/22	30	0.1	5.7	16.6	0.0	0.2	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS40	29/06/22	60	0.1	5.7	16.6	0.0	0.2	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS40	29/06/22	90	0.1	5.7	16.6	0.0	0.2	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS40	29/06/22	120	0.1	5.7	16.6	0.0	0.2	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS40	29/06/22	180	0.1	5.7	16.6	0.0	0.2	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS36	29/06/22	0	0.1	0.2	20.7	0.0	0.2	1006	2.28	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS36	29/06/22	10	0.1	2.4	18.9	0.0	0.2	1006	2.28	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS36	29/06/22	20	0.1	1.6	19.9	0.0	0.2	1006	2.28	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS36	29/06/22	30	0.1	1.6	19.9	0.0	0.2	1006	2.28	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS36	29/06/22	60	0.1	1.7	19.9	0.0	0.2	1006	2.28	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS36	29/06/22	90	0.1	1.9	19.9	0.0	0.2	1006	2.28	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS36	29/06/22	120	0.1	1.9	19.9	0.0	0.2	1006	2.28	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS36	29/06/22	180	0.1	1.9	19.9	0.0	0.2	1006	2.28	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	29/06/22	0	0.2	0.0	20.2	0.0	0.2	1006	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	29/06/22	10	0.1	1.7	20.0	0.0	0.2	1006	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	29/06/22	20	0.1	2.1	19.7	0.0	0.2	1006	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	29/06/22	30	0.1	2.2	19.6	0.0	0.2	1006	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	29/06/22	60	0.1	2.3	19.6	0.0	0.2	1006	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	29/06/22	90	0.1	2.4	19.6	0.0	0.2	1006	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	29/06/22	120	0.1	2.4	19.6	0.0	0.2	1006	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	29/06/22	180	0.1	2.4	19.6	0.0	0.2	1006	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	29/06/22	0	0.1	0.0	21.1	0.0	0.3	1006	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	29/06/22	10	0.1	1.4	20.2	0.0	0.3	1006	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	29/06/22	20	0.1	0.9	20.1	0.0	0.3	1006	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	29/06/22	30	0.1	1.3	19.8	0.0	0.3	1006	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	29/06/22	60	0.1	1.5	19.4	0.0	0.3	1006	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	29/06/22	90	0.1	1.6	19.4	0.0	0.3	1006	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	29/06/22	120	0.1	1.5	19.4	0.0	0.3	1006	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	29/06/22	180	0.1	1.5	19.4	0.0	0.3	1006	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	30/06/22	0	0.2	0.0	21.3	0.1	0.2	1007	1.83	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	30/06/22	10	0.2	1.6	20.9	0.1	0.2	1007	1.83	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	30/06/22	20	0.2	2.1	20.2	0.1	0.2	1007	1.83	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	30/06/22	30	0.2	2.1	20.0	0.1	0.2	1007	1.83	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	30/06/22	60	0.2	2.3	19.9	0.1	0.2	1007	1.83	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	30/06/22	90	0.2	2.3	19.9	0.1	0.2	1007	1.83	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	30/06/22	120	0.2	2.3	19.9	0.1	0.2	1007	1.83	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	30/06/22	180	0.2	2.3	19.9	0.1	0.2	1007	1.83	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	30/06/22	0	0.2	0.0	21.3	0.0	0.1	1007	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	30/06/22	10	0.2	1.0	20.8	0.0	0.1	1007	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	30/06/22	20	0.2	0.4	20.9	0.0	0.1	1007	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	30/06/22	30	0.2	0.1	21.2	0.0	0.1	1007	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	30/06/22	60	0.2	0.1	21.3	0.0	0.1	1007	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	30/06/22	90	0.2	0.1	21.3	0.0	0.1	1007	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	30/06/22	120	0.2	0.1	21.3	0.0	0.1	1007	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	30/06/22	180	0.2	0.1	21.3	0.0	0.1	1007	1.46	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

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Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS36	13/07/22	0	0.1	0.0	21.0	0.0	0.2	1015	2.52	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS36	13/07/22	10	0.1	1.4	19.8	0.0	0.2	1015	2.52	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS36	13/07/22	20	0.1	1.4	20.0	0.0	0.2	1015	2.52	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS36	13/07/22	30	0.1	1.4	20.0	0.0	0.2	1015	2.52	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS36	13/07/22	60	0.1	1.6	19.9	0.0	0.2	1015	2.52	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS36	13/07/22	90	0.1	1.6	19.9	0.0	0.2	1015	2.52	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS36	13/07/22	120	0.1	1.6	19.9	0.0	0.2	1015	2.52	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS36	13/07/22	180	0.1	1.6	19.9	0.0	0.2	1015	2.52	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	13/07/22	0	0.1	0.0	21.1	0.0	0.3	1015	1.35	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	13/07/22	10	0.1	1.4	20.2	0.0	0.3	1015	1.35	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	13/07/22	20	0.1	1.8	19.7	0.0	0.3	1015	1.35	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	13/07/22	30	0.1	1.9	19.6	0.0	0.3	1015	1.35	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	13/07/22	60	0.1	2.2	19.4	0.0	0.3	1015	1.35	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	13/07/22	90	0.1	2.4	19.3	0.0	0.3	1015	1.35	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	13/07/22	120	0.1	2.7	19.1	0.0	0.3	1015	1.35	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS76	13/07/22	180	0.1	2.8	19.1	0.0	0.3	1015	1.35	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/07/22	0	0.1	0.0	20.9	0.0	0.2	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/07/22	10	0.1	1.5	19.7	0.0	0.2	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/07/22	20	0.1	1.5	19.8	0.0	0.2	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/07/22	30	0.1	1.5	19.7	0.0	0.2	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/07/22	60	0.1	1.6	19.7	0.0	0.2	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/07/22	90	0.1	1.7	19.7	0.0	0.2	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/07/22	120	0.1	1.7	19.7	0.0	0.2	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS03	13/07/22	180	0.1	1.7	19.7	0.0	0.2	1015	1.65	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	13/07/22	0	0.2	0.0	21.0	0.0	0.3	1013	1.68	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	13/07/22	10	0.1	1.3	20.0	0.0	0.3	1013	1.68	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	13/07/22	20	0.1	1.5	19.9	0.0	0.3	1013	1.68	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	13/07/22	30	0.1	1.5	19.8	0.0	0.3	1013	1.68	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	13/07/22	60	0.1	1.6	19.8	0.0	0.3	1013	1.68	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	13/07/22	90	0.1	1.6	19.8	0.0	0.3	1013	1.68	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	13/07/22	120	0.1	1.6	19.8	0.0	0.3	1013	1.68	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	13/07/22	180	0.1	1.6	19.8	0.0	0.3	1013	1.68	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	13/07/22	0	0.1	0.0	21.0	0.0	0.2	1013	1.36	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	13/07/22	10	0.1	1.3	20.0	0.0	0.2	1013	1.36	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	13/07/22	20	0.1	2.0	19.7	0.0	0.2	1013	1.36	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	13/07/22	30	0.1	2.1	19.7	0.0	0.2	1013	1.36	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	13/07/22	60	0.1	2.1	19.7	0.0	0.2	1013	1.36	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	13/07/22	90	0.1	2.1	19.7	0.0	0.2	1013	1.36	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	13/07/22	120	0.1	2.1	19.7	0.0	0.2	1013	1.36	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS20	13/07/22	180	0.1	2.1	19.7	0.0	0.2	1013	1.36	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	14/07/22	0	0.2	0.0	21.0	0.1	0.2	1016	1.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	14/07/22	10	0.2	0.9	20.3	0.1	0.2	1016	1.82	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	14/07/22	20	0.2	1.2	19.9	0.1	0.2	1016	1.82	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	14/07/22	30	0.2	1.3	19.8	0.1	0.2	1016	1.82	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	14/07/22	60	0.2	1.6	19.6	0.1	0.2	1016	1.82	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	14/07/22	90	0.2	1.9	19.3	0.1	0.2	1016	1.82	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	14/07/22	120	0.2	2.0	19.2	0.1	0.2	1016	1.82	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	14/07/22	180	0.2	2.1	19.2	0.1	0.2	1016	1.82	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

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Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS05	14/07/22	0	0.2	0.0	20.8	0.1	0.2	1016	1.82	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	14/07/22	10	0.2	0.8	20.0	0.1	0.2	1016	1.82	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	14/07/22	20	0.2	0.7	20.1	0.1	0.2	1016	1.82	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	14/07/22	30	0.2	0.7	20.1	0.1	0.2	1016	1.82	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	14/07/22	60	0.2	0.8	20.1	0.1	0.2	1016	1.82	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	14/07/22	90	0.2	0.8	20.0	0.1	0.2	1016	1.82	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	14/07/22	120	0.2	0.8	20.0	0.1	0.2	1016	1.82	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	14/07/22	180	0.2	0.8	20.0	0.1	0.2	1016	1.82	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS39	14/07/22	0	0.2	0.1	20.5	0.0	0.2	1016	2.61	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS39	14/07/22	10	0.2	0.0	20.6	0.0	0.2	1016	2.61	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS39	14/07/22	20	0.2	0.0	20.7	0.0	0.2	1016	2.61	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS39	14/07/22	30	0.2	0.0	20.7	0.0	0.2	1016	2.61	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS39	14/07/22	60	0.2	0.0	20.7	0.0	0.2	1016	2.61	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS39	14/07/22	90	0.2	0.0	20.7	0.0	0.2	1016	2.61	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS39	14/07/22	120	0.2	0.0	20.7	0.0	0.2	1016	2.61	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS39	14/07/22	180	0.2	0.0	20.7	0.0	0.2	1016	2.61	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS40	14/07/22	0	0.1	0.0	20.9	0.0	0.2	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS40	14/07/22	10	0.2	0.5	20.2	0.0	0.2	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS40	14/07/22	20	0.2	5.0	18.3	0.0	0.2	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	AMBER 1
WS40	14/07/22	30	0.2	5.1	18.3	0.0	0.2	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS40	14/07/22	60	0.2	5.2	18.2	0.0	0.2	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS40	14/07/22	90	0.2	5.5	18.0	0.0	0.2	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS40	14/07/22	120	0.2	5.6	18.0	0.0	0.2	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS40	14/07/22	180	0.2	5.6	18.0	0.0	0.2	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS92	14/07/22	0	0.2	0.0	21.3	0.0	0.2	1015	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS92	14/07/22	10	0.2	1.4	20.5	0.0	0.2	1015	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS92	14/07/22	20	0.2	1.3	20.3	0.0	0.2	1015	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS92	14/07/22	30	0.2	1.3	20.3	0.0	0.2	1015	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS92	14/07/22	60	0.2	1.4	20.3	0.0	0.2	1015	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS92	14/07/22	90	0.2	1.4	20.2	0.0	0.2	1015	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS92	14/07/22	120	0.2	1.4	20.2	0.0	0.2	1015	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS92	14/07/22	180	0.2	1.4	20.2	0.0	0.2	1015	1.73	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	27/07/22	0	0.2	0.0	21.2	0.0	0.0	1017	2.21	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	27/07/22	10	0.2	0.3	21.1	0.0	0.0	1017	2.21	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	27/07/22	20	0.2	0.8	20.7	0.0	0.0	1017	2.21	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	27/07/22	30	0.2	0.9	20.5	0.0	0.0	1017	2.21	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	27/07/22	60	0.2	1.2	20.3	0.0	0.0	1017	2.21	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	27/07/22	90	0.2	1.5	20.1	0.0	0.0	1017	2.21	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	27/07/22	120	0.2	1.6	20.0	0.0	0.0	1017	2.21	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	27/07/22	180	0.2	1.6	20.0	0.0	0.0	1017	2.21	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	27/07/22	0	0.2	0.0	21.1	0.1	0.3	1017	2.15	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	27/07/22	10	0.2	0.8	20.5	0.1	0.3	1017	2.15	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	27/07/22	20	0.2	0.7	20.4	0.1	0.3	1017	2.15	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	27/07/22	30	0.2	0.8	20.4	0.1	0.3	1017	2.15	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	27/07/22	60	0.2	0.8	20.4	0.1	0.3	1017	2.15	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	27/07/22	90	0.2	0.8	20.4	0.1	0.3	1017	2.15	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	27/07/22	120	0.2	0.8	20.4	0.1	0.3	1017	2.15	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	27/07/22	180	0.2	0.8	20.4	0.1	0.3	1017	2.15	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

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Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC				
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄		CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂		GSV	Conc.		GSV	Conc.		
WS40	27/07/22	0	0.2	0.0	20.8	0.1	0.4	1017	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS40	27/07/22	10	0.2	0.1	20.8	0.1	0.4	1017	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS40	27/07/22	20	0.2	0.0	20.8	0.1	0.4	1017	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS40	27/07/22	30	0.2	0.0	20.7	0.1	0.4	1017	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS40	27/07/22	60	0.2	0.0	20.8	0.1	0.4	1017	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS40	27/07/22	90	0.2	0.0	20.8	0.1	0.4	1017	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS40	27/07/22	120	0.2	0.0	20.8	0.1	0.4	1017	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS40	27/07/22	180	0.2	0.0	20.8	0.1	0.4	1017	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	27/07/22	0	0.2	0.0	20.8	0.1	0.2	1017	2.79	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	27/07/22	10	0.1	0.5	20.7	0.1	0.2	1017	2.79	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	27/07/22	20	0.2	2.0	20.1	0.1	0.2	1017	2.79	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	27/07/22	30	0.2	2.1	20.0	0.1	0.2	1017	2.79	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	27/07/22	60	0.2	2.1	20.0	0.1	0.2	1017	2.79	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	27/07/22	90	0.2	2.1	20.0	0.1	0.2	1017	2.79	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	27/07/22	120	0.2	2.1	20.0	0.1	0.2	1017	2.79	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS39	27/07/22	180	0.2	2.1	20.0	0.1	0.2	1017	2.79	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	27/07/22	0	0.2	0.0	21.0	0.1	0.2	1015	2.79	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	27/07/22	10	0.2	1.6	20.4	0.1	0.2	1015	2.79	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	27/07/22	20	0.2	1.6	20.1	0.1	0.2	1015	2.79	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	27/07/22	30	0.2	1.6	20.0	0.1	0.2	1015	2.79	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	27/07/22	60	0.2	1.7	20.0	0.1	0.2	1015	2.79	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	27/07/22	90	0.2	1.7	20.0	0.1	0.2	1015	2.79	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	27/07/22	120	0.2	1.7	20.0	0.1	0.2	1015	2.79	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS36	27/07/22	180	0.2	1.7	20.0	0.1	0.2	1015	2.79	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS92	27/07/22	0	0.2	0.3	20.8	0.0	0.4	1015	1.89	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS92	27/07/22	10	0.2	0.3	20.7	0.0	0.4	1015	1.89	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS92	27/07/22	20	0.2	1.1	20.4	0.0	0.4	1015	1.89	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS92	27/07/22	30	0.2	1.2	20.3	0.0	0.4	1015	1.89	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS92	27/07/22	60	0.2	1.2	20.3	0.0	0.4	1015	1.89	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS92	27/07/22	90	0.2	1.2	20.3	0.0	0.4	1015	1.89	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS92	27/07/22	120	0.2	1.2	20.3	0.0	0.4	1015	1.89	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS92	27/07/22	180	0.2	1.2	20.3	0.0	0.4	1015	1.89	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS03	27/07/22	0	0.2	0.0	20.9	0.0	0.3	1015	2.05	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS03	27/07/22	10	0.2	0.9	20.5	0.0	0.3	1015	2.05	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS03	27/07/22	20	0.2	1.1	20.2	0.0	0.3	1015	2.05	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS03	27/07/22	30	0.2	1.1	20.2	0.0	0.3	1015	2.05	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS03	27/07/22	60	0.2	1.2	20.2	0.0	0.3	1015	2.05	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS03	27/07/22	90	0.2	1.3	20.1	0.0	0.3	1015	2.05	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS03	27/07/22	120	0.2	1.3	20.1	0.0	0.3	1015	2.05	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS03	27/07/22	180	0.2	1.3	20.1	0.0	0.3	1015	2.05	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS76	27/07/22	0	0.2	0.0	21.0	0.0	0.4	1015	1.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS76	27/07/22	10	0.2	1.3	20.3	0.0	0.4	1015	1.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS76	27/07/22	20	0.2	1.6	19.9	0.0	0.4	1015	1.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS76	27/07/22	30	0.2	1.7	19.8	0.0	0.4	1015	1.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS76	27/07/22	60	0.2	1.9	19.6	0.0	0.4	1015	1.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS76	27/07/22	90	0.2	2.0	19.5	0.0	0.4	1015	1.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS76	27/07/22	120	0.2	2.3	19.4	0.0	0.4	1015	1.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS76	27/07/22	180	0.2	2.4	19.5	0.0	0.4	1015	1.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	

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Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC				
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄		CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂		GSV	Conc.		GSV	Conc.		
WS01	27/07/22	0	0.2	0.0	21.3	0.0	0.4	1014	2.14	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS01	27/07/22	10	0.2	1.3	20.7	0.0	0.4	1014	2.14	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS01	27/07/22	20	0.2	1.4	20.4	0.0	0.4	1014	2.14	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS01	27/07/22	30	0.2	1.4	20.4	0.0	0.4	1014	2.14	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS01	27/07/22	60	0.2	1.5	20.3	0.0	0.4	1014	2.14	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS01	27/07/22	90	0.2	1.5	20.3	0.0	0.4	1014	2.14	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS01	27/07/22	120	0.2	1.5	20.3	0.0	0.4	1014	2.14	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS01	27/07/22	180	0.2	1.5	20.3	0.0	0.4	1014	2.14	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	27/07/22	0	0.2	0.0	21.3	0.0	0.3	1014	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	27/07/22	10	0.2	1.2	20.6	0.0	0.3	1014	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	27/07/22	20	0.2	1.7	20.2	0.0	0.3	1014	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	27/07/22	30	0.2	1.7	20.1	0.0	0.3	1014	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	27/07/22	60	0.2	1.7	20.1	0.0	0.3	1014	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	27/07/22	90	0.2	1.7	20.1	0.0	0.3	1014	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	27/07/22	120	0.2	1.7	20.1	0.0	0.3	1014	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
WS20	27/07/22	180	0.2	1.7	20.1	0.0	0.3	1014	1.74	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	27/07/22	0	0.2	0.0	20.6	0.1	0.6	1015	2.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	27/07/22	10	0.2	0.7	20.3	0.1	0.6	1015	2.80	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	27/07/22	20	0.2	0.3	20.3	0.1	0.6	1015	2.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	27/07/22	30	0.2	0.3	20.4	0.1	0.6	1015	2.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	27/07/22	60	0.2	0.3	20.4	0.1	0.6	1015	2.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	27/07/22	90	0.2	0.3	20.4	0.1	0.6	1015	2.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	27/07/22	120	0.2	0.3	20.4	0.1	0.6	1015	2.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	27/07/22	180	0.2	0.3	20.4	0.1	0.6	1015	2.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	13/07/22	0	0.2	0.0	21.0	0.0	0.6	1015	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	13/07/22	10	0.1	0.9	20.2	0.0	0.6	1015	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	13/07/22	20	0.1	0.3	20.2	0.0	0.6	1015	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	13/07/22	30	0.1	0.3	20.3	0.0	0.6	1015	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	13/07/22	60	0.1	0.2	20.3	0.0	0.6	1015	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	13/07/22	90	0.2	0.2	20.4	0.0	0.6	1015	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	13/07/22	120	0.1	0.2	20.4	0.0	0.6	1015	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	13/07/22	180	0.1	0.2	20.4	0.0	0.6	1015	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	29/06/22	0	0.1	0.0	21.0	0.0	0.5	1006	2.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	29/06/22	10	0.1	1.0	20.4	0.0	0.5	1006	2.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	29/06/22	20	0.1	0.2	20.7	0.0	0.5	1006	2.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	29/06/22	30	0.1	0.1	20.8	0.0	0.5	1006	2.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	29/06/22	60	0.1	0.1	20.8	0.0	0.5	1006	2.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	29/06/22	90	0.1	0.1	20.8	0.0	0.5	1006	2.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	29/06/22	120	0.1	0.1	20.8	0.0	0.5	1006	2.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	29/06/22	180	0.1	0.1	20.8	0.0	0.5	1006	2.33	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	15/06/22	0	0.0	0.0	20.2	0.0	-	1012	0.85	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	15/06/22	10	0.0	1.2	19.0	0.0	-	1012	0.85	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	15/06/22	20	0.0	0.7	18.9	0.0	-	1012	0.85	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	15/06/22	30	0.0	0.5	19.3	0.0	-	1012	0.85	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	15/06/22	60	0.0	0.3	19.6	0.0	-	1012	0.85	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	15/06/22	90	0.0	0.2	19.7	0.0	-	1012	0.85	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	15/06/22	120	0.0	0.2	19.7	0.0	-	1012	0.85	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	
BH102	15/06/22	180	0.0	0.0	19.7	0.0	-	1012	0.85	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN	

Project: North Horsham Sports Pitches & A264 Access
Ref: GE20724
Client: Legal & General Strategic Land North Horsham Ltd



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												GSV	Conc.				GSV	Conc.		
Max values			0.2	5.7	21.3	0.1	0.6	1017.0	2.8	0.000	0.006	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
Min Vaules			0.0	0.0	14.1	0.0	0.0	1006.0	0.9	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
BH Flow LoD check			0.2	5.7	21.3	0.1	-	-	-	0.000	0.006	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1