MINERAL RESOURCE / SAFEGUARDING ASSESSMENT

FIVE FORDS, MARCHWIEL, WREXHAM

Mauna Kea Limited / Net World Sports Limited

11 March 2026

NET WORLD SPORTS

Carter Jonas

Classification L2 - Business Data

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1.0 INTRODUCTION

Background

1.1 This Minerals Resource / Safeguarding Assessment (MRA) has been prepared on behalf of Mauna Kea Limited, a fully owned subsidiary of Net World Sports Limited ("the client"), in support of proposed development at Five Fords, Marchwiel, Wrexham ("the site").

1.2 The MRA meets the requirements of Policy MW1 of the adopted Local Development Plan 2013-2024 published by Wrexham County Borough Council in December 2023.

Scope of Report

1.3 This MRA has been prepared in accordance with the 'Mineral Safeguarding Practice Guidance' (April 2019) produced by the Mineral Products Association and the Planning Officers' Society. The guidance sets out that developers should provide sufficient information to enable the mineral planning authority (MPA) and local planning authority (LPA) to consider the potential effect on mineral safeguarding of non-exempt development in Mineral Safeguarding Areas / Mineral Consultation Areas (MSAs / MCAs), and the viability of prior extraction of mineral ahead, or in conjunction with, the non-mineral development. This information should be in the form of an MRA. Annex 1 to the guidance sets out matters to be addressed.

1.4 This report includes:

- a review of minerals supply and safeguarding planning policies in the Wrexham Local Development Plan.
- an appraisal of key planning and environmental designations on the site and adjoining land, including constraints which may affect the prior extraction of mineral resources;
- the mineral potential associated with the proposed site (e.g. an initial view on the quantity and quality based on available published geological data and results of any site investigation) and consideration of mineral resources in the vicinity of the MSA; and
- need for the safeguarded mineral resources (based on the existing landbank) albeit that of itself this should not preclude the need to consider the scope for some prior extraction.

1.5 Site-specific geological investigations have been undertaken and are referenced within this report.

1.6 The report has been prepared by Tamsyn Luggar and Paul Clarke:

Tamsyn Luggar is an Associate Partner in Carter Jonas' Minerals and Waste Management Team and a Chartered Mineral Surveyor. She has over 15 years' experience in the UK and International minerals sector.

Paul Clarke is a Partner in Carter Jonas' Minerals and Waste Management Team. Paul is a Chartered Minerals Surveyor and Member of the Institute of Quarrying with over 20 years of experience in the UK and International minerals sector. Paul has practiced in the Wrexham area for a number of years, over which time he has development a deep understanding of the market for minerals and the companies operating it in the locality.

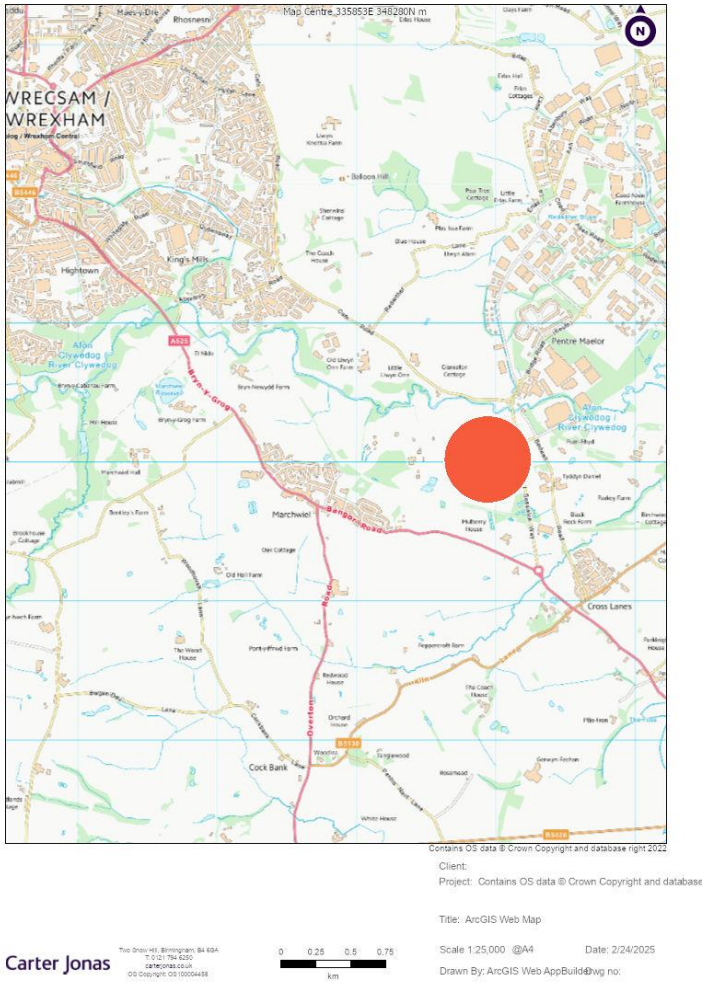
1.7 The above Chartered Mineral Surveyors have both undertaken multiple Mineral Resource Assessments and mineral feasibility appraisals for submission to a range of Mineral Planning Authorities across the UK. They each hold the appropriate qualifications and professional experience and are competent for the purpose of this instruction.

2.0 THE SITE

The Site Description

2.1 The site, which extends to approximately 24 hectares, lies approximately 2 kilometres to the southeast of Wrexham, on the south west edge of the Wrexham Industrial Estate, as illustrated on figure 1.

Figure 1: Site Location



2.2 The Site is located on the southwest edge of Wrexham Industrial Estate and is bounded by Cefn Road to the north and Sesswick Way to the east. There is a disused railway bounding the site to the south, and an existing public footpath which runs along the western boundary. The River Clywedog lies immediately to the north of the site.

2.3 The site, an agricultural field, is bounded to the south and west by fields, beyond which lie Marchwiel and the Five Fords Waste Water Treatment Works.

Proposed Development

2.4 The proposed development of circa 1 million square feet of employment (B2/B8) will deliver high quality employment floorspace, including parking provision and landscaping, as illustrated in Figure 2 below.

Figure 2: Site Master Plan



Source: Drawing Number 24012-SGP-STE-ST-D-A-011035-P01

3.0 PLANNING POLICY – MINERAL SAFEGUARDING

National Policy and Guidance

3.1 **Planning Policy Wales**[1] sets out the requirements for the safeguarding of both mineral resources and infrastructure.

3.2 Paragraph 5.44.7 states:

It is important that access to mineral resources, including secondary, recycled and marine dredged materials, which society may need, as well as the minerals related infrastructure to deliver this need, is safeguarded in order to prevent sterilisation by other forms of permanent development. Planning authorities should consider the long term and the need for preventative action to avoid the creation of problems in the future. Safeguarding does not indicate an acceptance of mineral working, but that the location and quality of the mineral is known and that the environmental constraints associated with extraction, including the potential for extraction of mineral resources prior to undertaking other forms of development, have been considered.

3.3 Paragraph 5.14.9 requires that:

Using the National Minerals Resource Maps and the National Aggregates Safeguarding Maps for Wales, areas to be safeguarded should be identified on proposals maps and policies should protect potential mineral resources from other types of permanent development which would either sterilise them or hinder extraction, or which may hinder extraction in the future as technology changes. Development plans should promote the integration and co-ordination of transport and land use planning for minerals production, including the preference for non-road transport and provision of adequate storage and processing facilities for minerals at wharves and railheads.

3.4 The guidance also requires that there is a sustainable supply of minerals, with each mineral planning authority ensuring that they make a contribution to meeting demand (paragraph 5.14.10):

Ensuring the sustainable supply of minerals is a strategic issue which plays a fundamental underpinning role in supporting non-minerals development. Each mineral planning authority should ensure that it makes an appropriate contribution to meeting local, regional and UK needs for primary minerals which reflects the nature and extent of resources in the area and their best and most appropriate use, subject to relevant environmental and other planning considerations.

3.5 The need to ensure a reliable and sustainable supply of minerals is also reflected in **Future Wales: The National Plan 2040**, at Policy 19 – Strategic Policies for Regional Planning:

Strategic Development Plans should embed placemaking as an overarching principle and should establish for the region (and where required constituent Local Development Plans):

11. a co-ordinated framework for minerals extraction and the circular economy, including waste treatment and disposal.

[1] Edition 12, published February 2024

3.6 The **Minerals Technical Advice Note (Wales) 1: Aggregates**[2] also references the need to safeguard resources for possible use by future generations, though the identification of mineral resources in their development plans.

Local Policy and Guidance

3.7 The site is located within the administrative boundary of Wrexham County Borough Council.

3.8 For the purposes of this MRA the Development Plan comprises:

- Future Wales (2040) and the Wrexham Unitary Development Plan (UDP) 1996-2011 (2005). However, it is considered that the latter is significantly out of date.

3.10 Wrexham Council have de-adopted their Local Development Plan (LDP) (2013). However, this remains a material consideration and likely to be of some relevance to the MSA given it includes for more detailed provision around the safeguarding of mineral resources in the region. Policy MW3 from this will therefore be considered.

Safeguarding Policies

3.11 With initial reference to the UDP, Policy MW9 makes provision for safeguarding sand and gravel resources from permanent non-mineral development in order to protect longer term mineral development opportunities. Sand and gravel extraction is reported to be the primary opportunity for mineral working in the County Borough.

3.12 Upon review of Inset Map 3 of the UDP document, whilst the site area features as adjacent to the Wrexham Industrial Estate there is no annotation suggesting that the provisions of Policy MW9 are to prevail across the site area. It would therefore appear that mineral safeguarding provisions were not intended to apply to the site at the date the UDP was previously drafted and then adopted

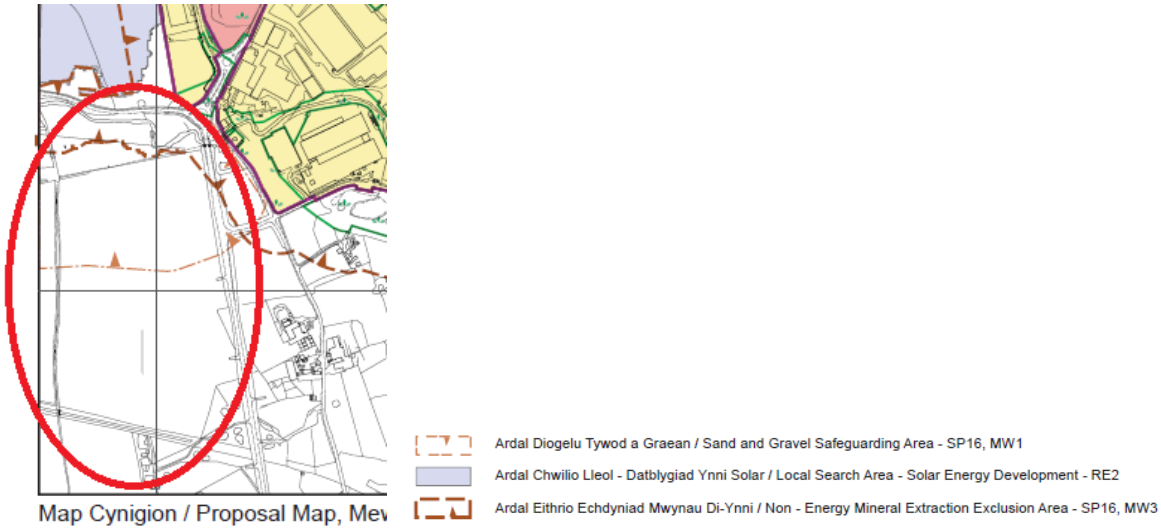
3.13 With reference to the now de-adopted LDP, the northern half of the site, extending to circa 10 hectares, is identified within the document as a “Sand and Gravel Safeguarding Area”. This arrangement is demonstrated in the map extract shown as Figure 3 overleaf.

3.14 In addition, the river corridor at the extreme northern end of the site, also lies within the “Non-Energy Mineral Extraction Exclusion Area”.

3.15 Policy MW3: Sustainable Supply of Minerals confirms that within Extraction Exclusion Areas “….proposals for mineral extraction are unlikely to be acceptable”. Reflecting Policy MW3, the land to the north of the site, broadly a-lining with the River Clywedog has been excluded from further consideration in this MRA.

[2] Published March 2004

Figure 3: Sand and Gravel Safeguarding Area and Non-Energy Mineral Extraction Exclusion Area



Source: LDP2 Proposals Map

3.16 Policy MW1: Mineral Safeguarding of the de-adopted LDP2 provides clear guidance on the approach that will be taken to the safeguarding of potential mineral reserves:

Non-mineral development within Mineral Safeguarding Areas as defined on the proposals map will only be permitted where it can be demonstrated that:

i. The mineral underlying the site does not merit extraction; or
ii. The need for the non-mineral development outweighs the need to protect the resource; or
iii. The mineral can be satisfactorily extracted prior to the non-mineral development; or
iv. The development is of a temporary nature or can be removed within the timescales within which the mineral is likely to be needed; and
v. Essential infrastructure that supports the supply of minerals would not be compromised or would be provided elsewhere;

All applications for development in these areas shall be supported by a Mineral Safeguarding Assessment.

Proposals for non-mineral development on allocated sites of 4ha or more and which are underlain by Category 1 sand and gravel shall be supported by a Prior Extraction Assessment.

3.17 Each of the points outlined in Policy MW1 are addressed within this MRA, as set out below:

i. The mineral underlying the site does not merit extraction

3.18 Additional information in respect of the quality and quantity of the potential mineral are set out in section 4 and 6 below.

3.19 The ground investigations have shown that within the safeguarded area, the potential for sand and gravel reserves is limited to a small area where the reserve has been assessed as being close to the surface but only circa 0.5m in depth (see figure 7). Beyond the safeguarding area, the sand and gravel is not deposited as a uniform band of mineral, but rather in pockets of variable size and depth.

3.20 The variable nature of the deposit in terms of its distribution within the site, tied with the high silt content and the impact of the sewer crossing the site, results in a deposit that is limited to an estimated 200,000 tonnes (see section 6) which commercially "*does not merit extraction*".

ii. The need for the non-mineral development outweighs the need to protect the resource;

3.21 There is an overriding need for the development that will be set out fully in any future planning application. This need outweighs the need to protect the resource which has been assessed, as not meriting extraction due to the variable size and depth of the pockets of mineral, and the high silt content of the reserve, as set out in point i. above.

iii. The mineral can be satisfactorily extracted prior to the non-mineral development;

3.22 Due to the variable nature of the deposit, the potential mineral does not merit full scale extraction. There may be limited potential for some opportunistic extraction of any mineral reserves as part of the site development works (see section 6).

iv. The development is of a temporary nature or can be removed within the timescales within which the mineral is likely to be needed;

3.23 The proposed development is permanent in nature and as such would sterilised any potential minerals which have not been extracted in advance of the development proposed.

3.24 As set out the in the following sections, Carter Jonas has concluded that the nature of the mineral reserves on site are such that, even without the development proposed, they are unlikely to be "*needed*" in the future due to the identified issues relating to variable distribution and high silt content.

v. Essential infrastructure that supports the supply of minerals would not be compromised or would be provided elsewhere;

3.25 This is not applicable in this case, as there is no mineral infrastructure on or in close proximity to the site.

Proposals for non-mineral development on allocated sites of 4ha or more and which are underlain by Category 1 sand and gravel shall be supported by a Prior Extraction Assessment.

3.26 The site is not allocated for built development, and as such a "*Prior Extraction Assessment*" has not been undertaken.

3.27 Paragraph 4.192 of the de-adopted LDP2 accepts that it is not possible or appropriate to protect all mineral from sterilisation. Where minerals are identified as being of economic importance there is an expectation that that they will be extracted in advance of the built development. As set out in section 6, the limited nature of the mineral reserves on site are such that they are not considered economic to extract:

Due to the extent and distribution of mineral within the County Borough and the need for non-mineral development such as housing, it is inevitable that some sterilisation will occur and this is accepted and established through the allocation of sites underlain by mineral in the LDP. Where mineral is confirmed as being of economic importance it will be expected that the potential for extraction of the mineral prior to the non-mineral development will be explored, this is defined as 'prior extraction'. Any loss should be minimised through prior extraction where feasible. Although the policy includes provision for prior extraction, even where prior extraction is required it is likely that there will still be some sterilisation of mineral since there will be a need to ensure that development can occur over a reasonable timescale and without prejudicing the viability of the non-mineral development.

3.28 Whilst the site is not allocated for non-mineral built development, it is important to acknowledge that the geological investigation that have been undertaken (see section 4 and 6) have illustrated that due to the variable nature of the deposit and its high silt content, prior extraction is not a viable option. Sterilisation of any underlying mineral will be minimised through the opportunistic use of a mineral extracted as part of the site preparation process, where the extracted material meets industry standards.

3.29 The plan accepts that as the safeguarding areas were defined at a strategic level, there may be instances where the mineral underlying a site does not warrant safeguarding (para 4.193). The ground investigation would support the idea that the potential reserves do not warrant safeguarding.

Need for Minerals

3.30 National planning policy requires MPAs to ensure a steady and adequate supply of minerals. Safeguarding minerals will assist with enabling future supply, by requiring due consideration to be given to the potential for unnecessary sterilisation of resources within MSA's.

3.31 Para 4.193 of the now de-adopted LDP2 notes:

Mineral produced as a result of prior extraction will be considered to be a windfall and need for the mineral concerned does not need to be demonstrated against regional needs.

3.32 In accordance with this statement, this MRA does not consider the current or future levels of supply of minerals within the County Borough.

4.0 MINERAL ASSESSMENT

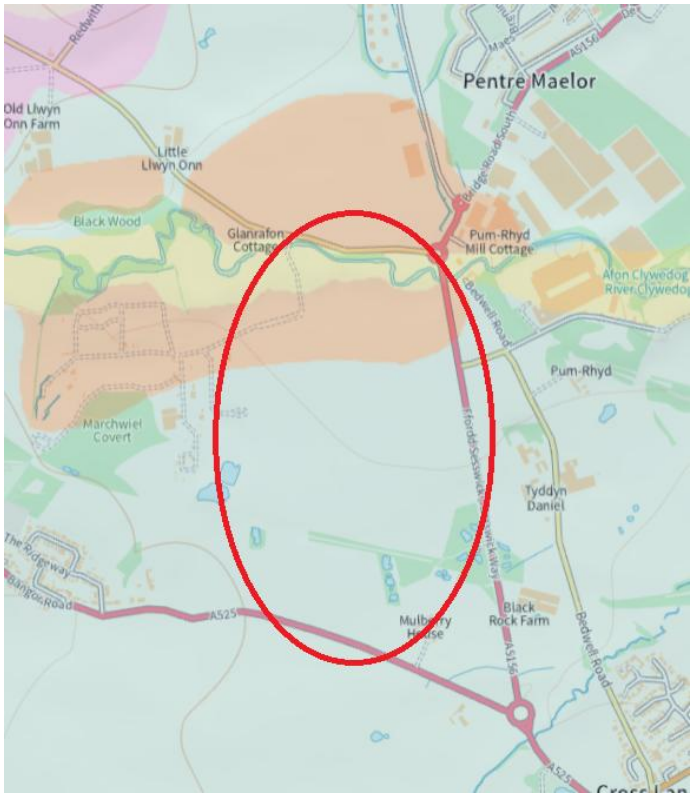
Regional Geology

4.1 Our review of publicly availably geological data provides an overview of the geology in the vicinity of the site. Geologically, a distinction is made between 'superficial deposits' and 'solid geology'. Superficial deposits such as sand and gravel are found at, or close to, the surface. The solid bedrock beneath the superficial deposits is called the 'solid' or 'bedrock' geology.

Superficial deposits

4.2 British Geological Survey (BGS) Geology Viewer indicates that three differing types of superficial geology deposits present beneath the site as illustrated in figure 4 below.

Figure 4: Superficial Deposits



Source: BGS Geology Viewer

4.3 The land to the north of the site, coloured yellow, is underlain by Alluvium. Alluvium is a general term for clay, silt, sand and gravel. It is the unconsolidated detrital material deposited by a river, stream or other body of running water as a sorted or semi-sorted sediment in the bed of the stream or on its floodplain or delta, or as a cone or fan at the base of a mountain slope. It is normally soft to firm consolidated, compressible silty clay, but can contain layers of silt, sand, peat and basal gravel. A stronger, desiccated surface zone may be present. This sedimentary superficial deposit was formed between 11.8 thousand years ago and the present during the Quaternary period.

4.4 The northern section of the site, coloured brown, is underlain by River Terrace Deposits. These deposits are described as: sand and gravel, locally with lenses of silt, clay or peat. They are a sedimentary superficial deposit formed between 2.588 million years ago and the present during the Quaternary period.

4.5 The southern half of the site, coloured green, is underlain by Till. This is a sedimentary superficial deposit formed between 116 and 11.8 thousand years ago during the Quaternary period.

Solid Geology

4.6 BGS Geology Viewer shows that the bedrock geology at the site comprises the Salop Formation, a mudstone and sandstone formation. This is a red and red-brown mudstone, and red-brown (mostly sublitharenite) sandstone containing beds of pebbly sandstone and conglomerate itself containing

Carboniferous limestone and chert clasts, and thin 'Spirobis' limestone beds and caliche in the lower part of the unit.

Localised Mineral Resource Data

Historical BGS Borehole Records

4.7 BGS borehole records indicate that a large number of boreholes have been drilled along the eastern boundary of the site, together within a single borehole within the site. However, the majority of the borehole logs are “confidential” in nature.

4.8 The single borehole with publicly available information, borehole number SJ34NE158, located in the south eastern corner of the site, provides the following strata description:

Figure 5: Borehole SJ34NE158 Strata Description

No.	Depth m.	STRATA DESCRIPTION	Cv kN
1	0.00-0.20	Soft with very soft pockets, grey-brown, silty slightly fine sandy clay TOPSOIL with occasional fine and medium sub-rounded gravel and roots.	
2	0.20-0.60	Firm with some soft areas, yellow-brown with orange-brown mottle, sandy CLAY with occasional fine, medium and coarse sub-rounded and rounded gravel.	
3	0.60-1.40	Firm friable, orange-brown with occasional blue-grey mottle, prominant with depth, sandy CLAY with occasional fine, medium and coarse rounded and sub-rounded gravel, with occasional rounded cobbles, occasional pockets of slightly silty fine and medium sand (150mm x 40mm), below 1.00m becoming soft to firm with very sandy areas.	
4	1.40-1.80	Grey and brown, clayey, silty fine to coarse SAND with fine to coarse sub-rounded and rounded GRAVEL of varied rock types, with occasional rounded cobbles.	
5	1.80-1.90 1.90	Stiff, brown with grey mottle, fissured silty CLAY with occasional fine to coarse sub-rounded and rounded gravel. END OF TRIAL PIT.	

NOTES Cv/Cp Approximate value of undrained shear strength from hand vane/penetrometer

Source: BGS Geoindex

Site Specific Mineral Investigations

4.9 The client has provided Carter Jonas with geological data from ground investigations undertaken at the site. These ground investigations, completed in December 2024, comprised the excavation of 18 trail pits and drilling of 26 boreholes. The boreholes were drilled to a maximum depth of 10.45 metres below ground level (bgl). These investigations give a robust understanding of the underlying mineral for the whole site incorporating both the safeguard area and the land to the south.

Figure 6: Boreholes and Trial Pit Locations



Source: Drawing TE1890-TE-00-XX-DR-GE-006-VO4 ref P4

4.10 Copies for the Borehole Logs are included at Appendix B to this MRA. A schematic summary of the strata underlying the site is given on figures 7 and 8.

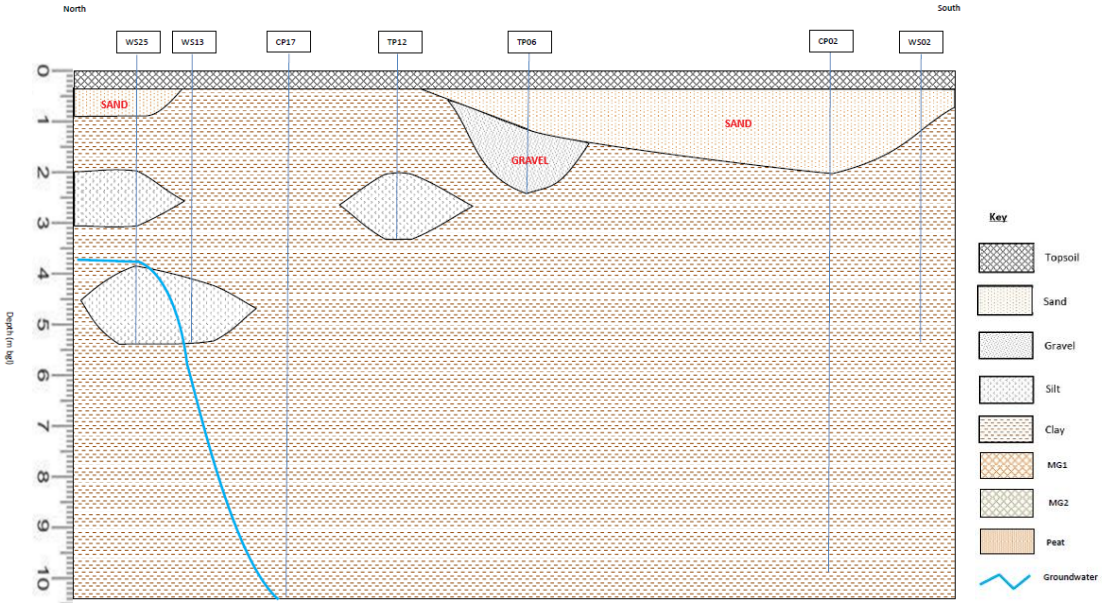
4.11 For easy of reference the following boreholes and trail pits relate to the safeguarding area:

Trial Pits: TP08 - TP11, TP13, TP14

Boreholes: CP13 - CP18

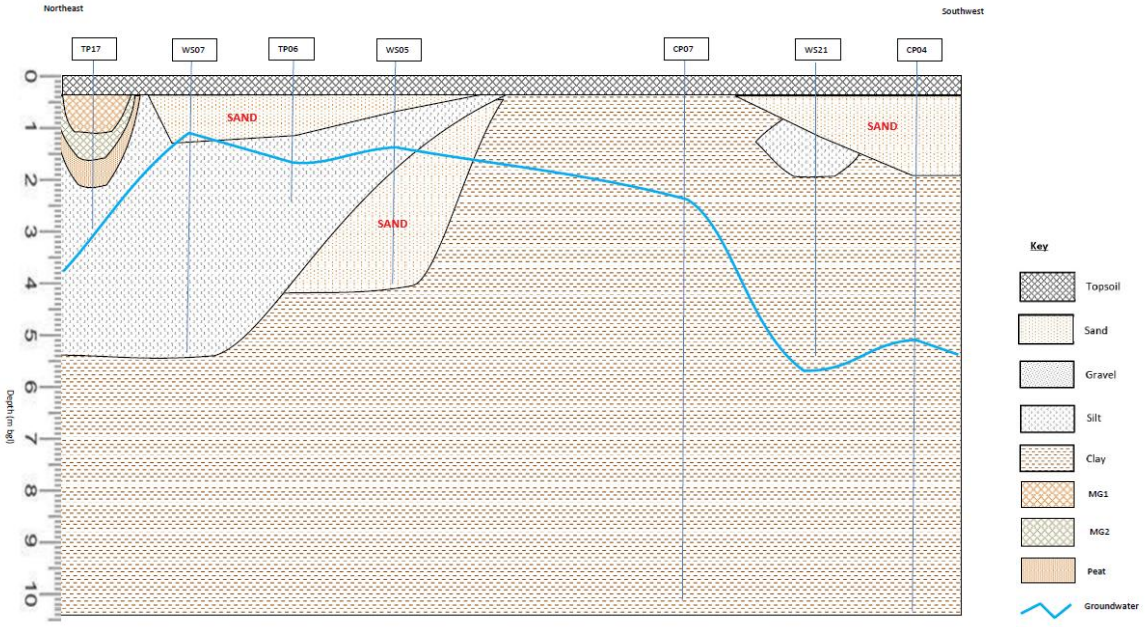
WS09 - WE17, WS24 - WS26

Figure 7: Underlying Strata: North - South



Source: Ground Investigation Report – Figure 5.1

Figure 8: Underlying Strata: Northeast – Southwest



Source: Ground Investigation Report – Figure 5.2

4.12 The Ground Investigation Report records the following observations with respect to Sand deposits across the site:

Drift Deposits – DD2

Till - Sand	
Locations encountered	CP02, CP04-CP06, CP08, CP12, CP14, CP15, TP01, TP02, TP04-TP11, TP13, TP14, WS01-WS09,WS16, WS17 and WS19-WS26
Depths encountered from top of stratum (range)	0.25m to 7.0m bgl
Depths encountered to base of stratum (range)	0.85 m to 9.00m bgl
Thickness (range)	0.25m to 2.6m
Spatial location on site	Widespread across the site.
General description	dark brown, slightly silty clayey SAND. Sand is fine to medium.

4.13 Particle analysis was undertaken on samples collected from trial pit numbers: TP06, TP08-TP12. This showed a variation in the deposit encountered, as illustrated in table 1 below.

Table 1: Particle Analysis

Sample Label	General Location	Description	Cobbles	Sand	Gravel	Silt / Clay
TP09 0.6-1.0 B*	Northern half of the site	Grey brown clayey SAND & GRAVEL	6	24	51	19
TP10 0.5-0.9 B*		Brown silty sandy very gravelly CLAY	3	24	28	45
TP11 0.8-1.3 B*		Brown silty very sandy slightly gravelly CLAY	0	56	3	41
TP01 1.1 B	Sothern extreme		0	56	3	41
TP06 0.85 B	Middle of the site		0	28	16	56
TP08 0.6 B			0	47	6	47
TP12 0.5B			0	33	7	60
TP12 1B		Grey brown silty slightly sandy slightly gravelly CLAY	0	4	1	95
* Within the mineral safeguarded area						

Source: Murray Rix Test Certificates, Ground Investigation Report, Appendix I

Reserve Summary

4.14 Site investigations have revealed that the deposit of sand and gravel is highly variable across the site, occurring in pockets which vary significantly in respect of depth below the surface (0.25m to 7m bgl). The thickness of the deposit was also highly variable. Where deposits were encountered the thickness ranged of 0.25m to 2.6m, with an average thickness of deposit of 0.95m.

4.15 The deposit has a significant silt content, varying from circa 19% to 95% (see table 1 above). In order for the any extracted mineral to meet the various technical specifications required for the construction industry, for example in the manufacture of ready mixed concrete, the mineral would require processing to remove the silt fraction. As discussed in more detail in section 6 below, the diminutive nature of the reserve would not support the development of a processing plant on site. Third party operators are unlikely to process the as raised material, as the silt element is considered to be a waste material rather than a resource that they would then need to manage or dispose of.

5.0 SITE CONSTRAINTS

5.1 A review has been undertaken of the potential constraints to mineral extraction at the site. This comprises a review of physical constraints in the form of built development and adjoining property boundaries, services (underground and overground), environmental designations and site-specific constraints identified during the initial assessment work. These constraints could reduce the potential area of the site available for prior extraction of the mineral resource.

Proximity of Built Development

5.2 As detailed in section 2 of this MRA, the site is an agricultural field in close proximity to the Wrexham Industrial Estate. There are no residential properties, or other sensitive users within 100m of the boundary of the site. Reflecting this only a minimal buffer zone would need to be considered around the boundary of the site in respect to mineral extraction.

Site Infrastructure/utilities

5.3 The site is crossed by an underground Sewer, with over-head power lines running on land immediately to the north. The approximate line of these utilities is illustrated on figure 9 overleaf.

5.4 Any mineral extraction on site would have to have regard to the location of the sewer. Subject to agreement with Welsh Water, either:

- The sewer would need to be diverted, at a cost to the mineral operator; or
- The sewer would be left in situ with an appropriate buffer zone applied to protect it. This would result in the necessary sterilisation of any mineral within the buffer zone. Additional costs may also be incurred in terms of engineering a heavy plant crossing of the sewer.

Planning and Environmental Designations

5.5 There are no site-specific policies or designations in the de-adopted LDP2. The site is not in a sensitive area e.g. designated for nature conservation, landscape or heritage reasons.

Figure 9: Location of the Sewer and Overhead Lines



Source: Ground Investigation Report, Appendix A

Hydrology and Hydrogeology

5.6 The land immediately to the north of the site lies in Flood Zone 3 (dark blue), with small areas falling in Flood Zone 2 (pale blue), as illustrated on figure 10 overleaf. The majority of the site falls within Flood Zone 1, where there is a low risk of flooding.

5.7 Flood Zone 3 displays the extent of flooding from: Surface water & small watercourses with a 1% (1 in 100) chance or greater of happening in any given year, including an allowance for climate change. Flood Zone 2 displays the extent of flooding from: Surface water & small watercourses with less than 1% (1 in 100) but greater than or equal to 0.1% (1 in 1,000) chance of happening in any given year, including an allowance for climate change.

Figure 10: Flood Risk



Source: Data Map Wales

5.8 The site is not within a source protection zone and there are no potable groundwater abstractions within 2km of the site, though there is a non-potable (heat pump) located 450m southeast. The nearest surface water feature is located approximately 20m north-east of the site, relating to a drainage channel which is considered likely to flow into the River Clywedog located 60m north of the site[3].

5.9 The on-site ground investigations have confirmed that ground water levels vary across the site, from a depth of 1.2m to 7m bgl. In order to minimise the impact on the local hydrogeological environment, it would be preferable to work any mineral dry, therefore the base of any extraction would be set at one meter above the water table.

6.0 VIABILITY OF POTENTIAL MINERAL RESOURCE

6.1 This section considers the viability of the reserve in terms of prior extraction and opportunistic extraction.

Resource Assessment

6.2 A detailed scheme of extraction for any potential mineral has not been developed for the site. However, using broad assumptions, based on the geological investigations it has been possible to provide a high-level assessment of the potential reserve.

[3] Ground Investigations Report, Table 3.1

6.3 The average thickness of deposit across the whole site is assumed to be 0.95m under 0.32m of soils and overburden. It is however acknowledged that as the deposit is highly variable, there are areas of the site where the deposit may extend beyond this depth, equally there will be areas within the site where there are no deposits of sand and gravel, as revealed in 45% of the boreholes and trial pits.

6.4 In order to ensure a safe working environment and to facilitate post extraction built development, batters slopes of 1 in 6 have been assumed around the edge of the excavation.

6.5 Given the high silt content of the deposit, as set out in table 1 above, any excavated mineral would require processing to remove the silt element. An average processing loss of 48% has been assumed.

6.6 As detailed in section 5, the site is crossed by a sewer main. On the assumption that the sewer will remain in situ, the site would need to be worked two distinct parcels, leaving a corridor of mineral in place to support the pipework. We have assumed that a corridor 10m wide would be required to ensure the integrity of the pipework.

6.7 Based on the assumptions outlined above the high level reserve estimate for the site is assessed to be in the order of 115,600m^3 or 208,090t.

Table 2: Estimated Reserve Calculations

	Whole Site
Site area (accounting for a standoff from the boundary)	240,600 m^2
Average thickness of deposit	0.95 m
Estimated gross reserve	228,570 m^3
Less batters slopes @ 1:6	*1,250 m^3*
Potential reserve less batter slopes	227,320 m^3
Less processing losses @ 48%	*109,110 m^3*
Estimated reserve less slopes and losses	118,210 m^3
Less corridor for sewer main	*2,600 m^3*
Estimated reserve less slopes, losses and sewer	**115,600 m^3**
Estimated reserve less slopes, losses and sewer @ 1.8t/m^3	**208,090 t**

Prior Extraction

6.8 This MRA has identified the potential presence of sand and gravel underlying the site, however the mineral is highly variable in nature, occurring as pockets of mineral, varying in extent and with a high silt content.

6.9 Whilst the high level resource assessment outlined above indicates that there may be a small reserve of mineral on site, circa 200,000t, its variable distribution, thickness and high silt content would make it an unattractive proposition for a mineral operator.

6.10 The setting up of a mineral extraction operation involves significant financial investment and requires the deposit to be of suitable quality and size to support the investment. Typically a new standalone sand and gravel reserve will need to be in the order of circa 0.75-1Mt to support the costs associated with:

- securing planning permission, including an Environmental Impact Assessment
- securing Environment Agency permits for water and waste handling
- setting up of a processing plant, and
- operational costs for soil and overburden removal, extraction of the mineral, and restoration of the site.

6.11 The potential exists for the as raised mineral to be exported to a local processing plant. Borras Quarry, operated by Breedon, is located c. 6km by road to the north. Given that the pockets of mineral contain 40-60% fines, an operator is unlikely to accept the as raised mineral due to issues that the silt element, a waste product, will have on their existing operations.

6.12 In our experience the safeguarded resource, estimated to be in the order of 200,000 tonnes, is too small, with a high silt content to support a commercially viable mineral operation.

Opportunistic Extraction

6.13 The depth of topsoil and overburden may be shallow enough in sections of the site for it to be considered appropriate to extract the underlying pockets of sand during the preparatory works required for the proposed development such as the foundations and footings or landscaping works associated with the development.

6.14 If this extracted material is appropriate, then this material could be recovered for re-use in the development. The extracted material would be required to accord with the SHW Series 600 specifications before being used as engineering fill. For the reasons set out above, it is unlikely that there would be any market for the excavated material to be processed at an alternative facility, eg Borras Quarry.

6.15 The potential volume of mineral available from incidental extraction in the form of footings, trenches, landscaping, etc. cannot at this stage be quantified.

7.0 SUMMARY AND CONCLUSION

7.1 A geological investigation of the site has revealed that the potential underlying sand and gravel reserves are highly variable in nature, occurring as pockets of deposits at variable depth and thickness. The deposit also has a high silt content and would require processing prior to sale as an aggregate.

7.2 A high-level assessment of the reserve indicates that it is potentially in the order of 200,000 tonnes. This is significantly below the 0.75-1Mt reserve that is considered economically viable for the development of a new standalone site.

7.3 The market for the potential mineral has not been tested, in our experience, the nature of the deposit does not represent a commercially attractive proposition.

7.4 Policy MW9 of the UDP does not apply to the site and there is no clear direction the mineral safeguarding policy of the UDP applies to the site.

7.5 Whilst the site lies partially within a mineral protection area as identified in the now de-adopted Wrexham LDP, the safeguarded resource even when worked with additional potential reserves within the wider site are considered to be too small and variable and would therefore not be commercially exploitable.

7.6 Policy MW1 provides the framework against which safeguarded mineral reserves should be considered before permitting a non-mineral development. Each of these points are set out below:

Table 3: Policy MW1 - Analysis

i. The mineral underlying the site does not merit extraction	The potential reserve has been estimated to be in the order of 200,000 tonnes. This does not represent a viable deposit in commercial terms, especially as the deposit has a high silt content.
ii. The need for the non-mineral development outweighs the need to protect the resource;	There is an over-riding need for the deposit which is set against a deposit which is not considered to be viable.
iii. The mineral can be satisfactorily extracted prior to the non-mineral development;	The potential reserve on site is estimated to be in the order of 200,000 tonnes. It is highly variable in terms of quality and quantity and as a result does not represent a commercially viable deposit.
iv. The development is of a temporary nature or can be removed within the timescales within which the mineral is likely to be needed;	Not applicable as the development is permanent in nature.
v. Essential infrastructure that supports the supply of minerals would not be compromised or would be provided elsewhere;	Not applicable as there is no essential mineral infrastructure at or in close proximity to the site.
Proposals for non-mineral development on allocated sites of 4ha or more and which are underlain by Category 1 sand and gravel shall be supported by a Prior Extraction Assessment.	Not applicable as the site is not allocated.

7.7 In accordance with Policy MW1: Mineral Safeguarding the site has been assessed and it has been concluded that the potential reserve "*does not merit extraction*".

7.8 **Reflecting this we conclude that the proposed development would not result in the sterilisation of an economic reserve of sand and gravel.**

APPENDICES

A Compliance with Minerals and Waste Safeguarding Guidance (March 2020)

The following table outlines how this report addresses the requirement for an MRA set out in paragraph 2.8 of the Minerals and Waste Safeguarding Practice Guidance (March 2020).

• an assessment of the geological information about the site including quarrying history, Geological memoirs, mineral assessments, and market appraisals;	Section 4
• site investigations/borehole data (applicants may be required to carry out borehole testing if this information is not already available);	Section 4 & Appendix B
• consideration of other locations for the development that are outside the MSA	
• assessment of whether the proposal can be modified to avoid sterilisation;	Section 6
• assessment of the potential for the use of the mineral in the proposed development and whether it is feasible and viable to extract the mineral resource ahead of the development;	Section 6
• an explanation of the viability of prior extraction and how it will be carried out (e.g. environmental impacts, timescales, availability of the market to deal with the increase in the mineral);	Section 6
• discussions with potential 'users' of the mineral;	n/a
• an explanation of how any voids will be 'backfilled' in preparation for development and/or incorporated into the design and layout of the development;	n/a
• building stone – an assessment of quarries (including active, inactive, and dormant), historic buildings using the stone, and alternative supplies of the stone .	n/a
Prior Extraction	
Commercial & market considerations • Interested operators/local market demand • Processing needs • Proximity to processor or market • Potential for on-site use of some or all of the mineral • Accessibility	Section 6
Practicability & acceptability • Effect on viability of non-minerals development including • through delays and changes to landform and character • Site location, setting & proximity to receptors • Accessibility/transport • Hydrology/hydrogeology/drainage • Effect on designations or interests	Section 5

B Borehole Logs

Borehole Log

Borehole No. **CP01**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336946.68 - 347684.97	Hole Type CP
Location: Wrexham		Level: 43.73	Scale 1:25
Client: Net World Sports		Dates: 11/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	D		0.30	43.43		Medium dense, dark brown, slightly silty, sandy CLAY with rare rootlets. Sand is fine. TOPSOIL
		1.00	D					Stiff, dark reddish brown, mottled grey, slightly sandy, silty CLAY. TILL
		1.20 1.20 - 1.65	SPTL S	N=18 (2,2/3,4,5,6)				
	▼	2.20 2.20 - 2.85	SPTL S	N=15 (3,3/3,4,4,4)	2.70	41.03		Stiff, dark reddish brown, mottled grey, slightly sandy, silty CLAY. TILL
		3.20 3.20 - 3.85	SPTL S	N=18 (3,3/4,4,5,5)				*Becoming firm between 3.70m and 6.00n*
		4.40 - 4.85	U					
		4.90	D					

1 2 3 4 5

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m 2) Groundwater encountered at 1.80m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m 6) Installed and Backfilled

Borehole Log

Borehole No. **CP01**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336946.68 - 347684.97	Hole Type CP
Location: Wrexham		Level: 43.73	Scale 1:25
Client: Net World Sports		Dates: 11/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.50 5.50 - 5.95	SPTL S	N=21 (2,3/5,5,5,6)				
		6.50 - 6.95	U					
		7.00	D					
		7.50 7.50 - 8.05	SPTL S	N=19 (3,4/4,5,5,5)				
		8.70 8.70 - 9.15	SPTL S	N=20 (4,4/4,5,6,5)				
		10.00		N=22 (4,4/5,5,6,6)				

Continued on next sheet

6 7 8 9 10

Remarks

1) Hand dug pit to 1.20m 2) Groundwater encountered at 1.80m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m 6) Installed and Backfilled

Borehole Log

Borehole No. **CP01**

Sheet 3 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336946.68 - 347684.97	Hole Type CP
Location: Wrexham		Level: 43.73	Scale 1:25
Client: Net World Sports		Dates: 11/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.00 - 10.45	SPTL S		10.45	33.28		End of borehole at 10.45 m

Remarks

1) Hand dug pit to 1.20m 2) Groundwater encountered at 1.80m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m 6) Installed and Backfilled

Borehole Log

Borehole No. **CP02**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337025.52 - 347746.08	Hole Type CP
Location: Wrexham		Level: 42.80	Scale 1:25
Client: Net World Sports		Dates: 10/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.30	D		0.30	42.50		Soft, dark brown, slightly silty CLAY with rare rootlets. TOPSOIL
		1.00	D					Loose, orangish brown, slightly clayey, fine to medium SAND TILL
		1.20		N=8 (1,2/2,2,2,2)				
		1.20 - 1.65	SPTLS					
		2.00	D		2.00	40.80		Stiff, dark orangish brown, slightly silty, slightly sandy CLAY. TILL
		2.00		N=15 (2,3/3,4,4,4)				
		2.00 - 2.45	SPTLS					
		3.00 - 3.45	U					
		3.50	D					
		4.00		N=8 (2,2/2,2,2,2)				*Becoming firm at 4.00m*
		4.00 - 4.45	SPTLS					
		5.00	D					

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at final depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.50m 6) Installed and backfilled

Borehole Log

Borehole No. **CP02**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337025.52 - 347746.08	Hole Type CP
Location: Wrexham		Level: 42.80	Scale 1:25
Client: Net World Sports		Dates: 10/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		5.00 - 5.45	U						
		5.50	D						
		6.00		N=8 (1,2/2,2,2,2)	6.00	36.80			
		6.00 - 6.45	SPTL S					Soft, dark greyish brown, slightly silty CLAY. TILL	6
		7.00	D						
		7.00		N=8 (2,2/2,2,2,2)					7
		7.00 - 7.45	SPTL S						
		8.00	D						
		8.00		N=10 (2,2/2,3,3,2)					8
		8.00 - 8.45	SPTL S						
		9.00	D						
		9.00		N=14 (2,2/3,3,4,4)					9
		9.00 - 9.45	SPTL S					*Becoming firm at 8m*	
		10.00	D						10

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at final depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.50m 6) Installed and backfilled

Borehole Log

Borehole No. **CP02**

Sheet 3 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337025.52 - 347746.08	Hole Type CP
Location: Wrexham		Level: 42.80	Scale 1:25
Client: Net World Sports		Dates: 10/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.00 10.00 - 10.45	SPTL S	N=15 (2,3/3,4,4,4)	10.45	32.35		End of borehole at 10.45 m

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Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at final depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.50m 6) Installed and backfilled

Borehole Log

Borehole No. **CP03**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337089.16 - 347687.11	Hole Type CP
Location: Wrexham		Level: 45.23	Scale 1:25
Client: Net World Sports		Dates: 11/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.40	44.83		Dark brown, silty CLAY with rare rootlets. TOPSOIL	
		0.50	D					Soft, light orangish brown, slightly silty CLAY TILL	
		1.00	D						1
		1.00	ES						
		1.20		N=7 (1,2/2,1,2,2)					
		1.20 - 1.65	SPTL S						
		2.00	D						2
		2.00 - 2.45	U						
		2.50	D						
		3.00	D		3.00	42.23		Stiff, light orangish, mottled greyish brown, slightly silty CLAY. TILL	3
		3.00		N=17 (3,3/4,5,4,4)					
		3.00 - 3.45	SPTL S						
		4.00	D						4
		4.00		N=16 (3,3/4,4,4,4)					
		4.00 - 4.45	SPTL S						
		5.00 - 5.45	U						5
								Continued on next sheet	

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.50m 6) Installed and backfilled.

Borehole Log

Borehole No. **CP03**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337089.16 - 347687.11	Hole Type CP
Location: Wrexham		Level: 45.23	Scale 1:25
Client: Net World Sports		Dates: 11/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		5.50	D						
		6.00	D						6
		6.00		N=17 (3,3/3,4,5,5)					
		6.00 - 6.45	SPTL S						
		7.00	D						7
		7.00		N=19 (3,4/4,5,5,5)					
		7.00 - 7.45	SPTL S						
		8.00		N=23 (4,5/5,6,6,6)					8
		8.00 - 8.45	SPTL S						
		8.50	D						
		9.00 - 9.45	U						9
		9.50	D					*Becoming very stiff at 9.50m bgl.*	
		10.00	D						10
								Continued on next sheet	

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.50m 6) Installed and backfilled.

Borehole Log

Borehole No. **CP03**

Sheet 3 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337089.16 - 347687.11	Hole Type CP
Location: Wrexham		Level: 45.23	Scale 1:25
Client: Net World Sports		Dates: 11/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.00 10.00 - 10.45	SPTL S	N=31 (5,6/7,7,8,9)	10.45	34.78		End of borehole at 10.45 m

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Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.50m 6) Installed and backfilled.

Borehole Log

Borehole No. **CP04**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336783.68 - 347736.60	Hole Type CP
Location: Wrexham		Level: 41.98	Scale 1:25
Client: Net World Sports		Dates: 12/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	D		0.50	41.48		Soft, dark brown, slightly sandy, silty CLAY. Sand is fine to coarse with rare rootlets. TOPSOIL
		0.80	ES					Loose, light orangish brown, silty, very gravelly, fine to coarse SAND. Gravel is subrounded to rounded, fine to coarse, iron rich sandstone, quartz and sandstone. TILL
		1.00	D					
		1.20		N=10 (2,3/2,3,2,3)				
		1.20 - 1.65	SPTLS					
		2.00	D		1.90	40.08		Stiff, dark brown, mottled grey, silty, slightly sandy CLAY. Sand is fine. TILL
		2.00		N=24 (4,5/6,6,6,6)				
		2.00 - 2.45	SPTLS					
		3.00 - 3.45	U					
		3.50	D					
								becoming firm at 3.8m bgl.
		4.00	D					
		4.00		N=10 (2,3/2,3,2,3)				
		4.00 - 4.65	SPTLS					
		5.00	D					

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 5.00m bgl as slow ingress 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.50m

Borehole Log

Borehole No. **CP04**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336783.68 - 347736.60	Hole Type CP
Location: Wrexham		Level: 41.98	Scale 1:25
Client: Net World Sports		Dates: 12/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		5.00 5.00 - 5.45	SPTL S	N=12 (2,3/3,3,3,3)					
		6.00 - 6.45	U						6
		7.00 7.00 7.00 - 7.45	D SPTL S	 N=13 (3,3/3,3,3,4)					7
		8.00 8.00 8.00 - 8.45	D SPTL S	 N=10 (1,2/2,3,2,3)					8
		9.00 9.00 9.00 - 9.45	D SPTL S	 N=9 (2,2/3,2,2,2)					9
		10.00	D						10

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 5.00m bgl as slow ingress 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.50m

Borehole Log

Borehole No.
CP04
Sheet 3 of 3

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	336783.68 - 347736.60	Hole Type CP
Location:	Wrexham		Level:	41.98	Scale 1:25
Client:	Net World Sports		Dates:	12/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.00 10.00 - 10.45	SPTL S	N=9 (2,3/2,3,2,2)	10.45	31.53		End of borehole at 10.45 m

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Remarks
1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 5.00m bgl as slow ingress 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.50m

Borehole Log

Borehole No. **CP05**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336883.01 - 347740.53	Hole Type CP
Location: Wrexham		Level: 41.65	Scale 1:25
Client: Net World Sports		Dates: 12/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	D					Dark brown, slightly silty, sandy CLAY with rare rootlets. Sand is fine. TOPSOIL
					0.40	41.25		
		0.60	D					Stiff, light orangish brown, slightly silty sandy CLAY. Sand is fine TILL
					1.00	40.65		
		1.20 1.20 - 1.65	SPTL S	N=20 (2,3/5,5,5,5)				Stiff, dark brown, slightly silty, slightly sandy, very gravelly CLAY. Sand is fine to medium, gravel is subrounded to rounded, fine to medium of mudstone and quartz. TILL
					2.00	39.65		
	▼	2.20 2.20 - 2.65	SPTL S	N=12 (2,2/3,3,3,3)				Medium dense, dark brown, slightly silty clayey SAND. Sand is fine to medium. TILL
		3.20 3.20 - 3.65 3.40	SPTL S D	N=15 (2,3/3,4,4,4)	3.20	38.45		Firm, brown, slightly silty, sandy CLAY. Sand is fine. TILL
		4.30 - 4.75	U		4.30	37.35		Firm to stiff, light brown, silty CLAY. Sand is fine. TILL
	▼	4.80	D					
								Continued on next sheet

1 2 3 4 5

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 2.30m and 5.00m bgl as slow ingress 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m

Borehole Log

Borehole No. **CP05**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336883.01 - 347740.53	Hole Type CP
Location: Wrexham		Level: 41.65	Scale 1:25
Client: Net World Sports		Dates: 12/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.60 5.60 - 6.05	SPTL S	N=13 (2,2/3,3,3,4)				
		6.60 6.60 - 7.05	SPTL S	N=15 (4,3/3,4,4,4)				
		7.70 7.70 - 8.15	SPTL S	N=19 (3,3/4,5,5,5)				
		9.00 - 9.45	U					
		9.50	D					

6 7 8 9 10

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 2.30m and 5.00m bgl as slow ingress 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m

Borehole Log

Borehole No. **CP05**

Sheet 3 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336883.01 - 347740.53	Hole Type CP
Location: Wrexham		Level: 41.65	Scale 1:25
Client: Net World Sports		Dates: 12/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.30 10.30 - 10.75	SPTL S	N=16 (3,3/3,4,4,5)	10.75	30.90		End of borehole at 10.75 m

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Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 2.30m and 5.00m bgl as slow ingress 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m

Borehole Log

Borehole No. **CP06**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336787.42 - 347797.34	Hole Type CP
Location: Wrexham		Level: 41.43	Scale 1:25
Client: Net World Sports		Dates: 12/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.30	D		0.40	41.03		Dark brown, slightly silty, sandy CLAY with rare rootlets. Sand is fine. TOPSOIL
		1.00	D					Loose, light orangish brown, silty, very gravelly, fine to coarse SAND. Gravel is subrounded to rounded, fine to coarse, iron rich sandstone, quartz and sandstone. TILL
		1.20						
		1.20 - 1.65	SPTLS	N=10 (2,3/3,2,3,2)				
		2.00	D		2.00	39.43		Soft, light brown slightly silty, sandy CLAY. Sand is fine. TILL
		2.00						
		2.00 - 2.45	SPTLS	N=7 (1,2/2,1,2,2)				
		3.00	D		2.50	38.93		Firm to stiff, light brown, mottled grey, silty CLAY. TILL
		3.00						
		3.00 - 3.45	SPTLS	N=11 (1,2/2,3,3,3)				
		4.00 - 4.45	U					
		4.50	D					
		5.00	D					

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 7.00m as slight seepage. 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.50m

Borehole Log

Borehole No. **CP06**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336787.42 - 347797.34	Hole Type CP
Location: Wrexham		Level: 41.43	Scale 1:25
Client: Net World Sports		Dates: 12/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00		N=12 (2,3/3,3,3,3)				
		5.00 - 5.45	SPTL S					
		6.00 - 6.45	U					
		6.50	D					
		7.00		N=15 (3,3/3,4,4,4)				
		7.00 - 7.45	SPTL S					
		8.00	D					*becoming stiff at 8.00m bgl*
		8.00		N=17 (5,5/4,4,4,5)				
		8.00 - 8.45	SPTL S					
		9.00	D					
		9.00		N=20 (5,4/5,5,5,5)				
		9.00 - 9.45	SPTL S					
		10.00		N=22 (3,4/5,6,5,6)				

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 7.00m as slight seepage. 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.50m

Borehole Log

Borehole No. **CP06**

Sheet 3 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336787.42 - 347797.34	Hole Type CP
Location: Wrexham		Level: 41.43	Scale 1:25
Client: Net World Sports		Dates: 12/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.00 - 10.45	SPTL S		10.45	30.98		End of borehole at 10.45 m

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Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 7.00m as slight seepage. 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.50m

Borehole Log

Borehole No. **CP07**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336880.90 - 347831.16	Hole Type CP
Location: Wrexham		Level: 40.56	Scale 1:25
Client: Net World Sports		Dates: 13/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	D		0.30	40.26		Dark brown, slightly silty, sandy CLAY with rare rootlets. Sand is fine. TOPSOIL
		0.50	D					Firm, light orangish brown, slightly silty, slightly gravelly, sandy CLAY. Sand is fine to medium, gravel is subrounded to rounded, fine to coarse iron rich sandstone, mudstone and quartz. TILL
		1.20 1.20 - 1.65	SPTL S	N=12 (1,2/3,3,3,3)				
		2.20 2.20 - 2.65	SPTL S	N=14 (2,2/3,3,4,4)	2.20	38.36		Firm, light brown silty CLAY TILL
		3.20 3.20 - 3.65	SPTL S	N=10 (1,2/2,2,3,3)				
		3.50	D					
		4.40 4.40 - 4.85	SPTL S	N=15 (2,2/3,3,4,5)	4.20	36.36		Firm to stiff, light brown mottled grey silty CLAY. TILL
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 2.50m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m

Borehole Log

Borehole No. **CP07**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336880.90 - 347831.16	Hole Type CP
Location: Wrexham		Level: 40.56	Scale 1:25
Client: Net World Sports		Dates: 13/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.70 5.70 - 6.15	SPTL S	N=13 (2,2/3,3,3,3,4)				
		6.50 - 6.95	U					
		7.00	D					*becoming stiff at 7.00m bgl*
		7.60 7.60 - 8.05	SPTL S	N=17 (2,3/4,4,4,5)				
		8.70 8.70 - 9.15	SPTL S	N=18 (3,3/4,4,5,5)				
		9.70 - 10.15	U					

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 2.50m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m

Borehole Log

Borehole No.
CP07
Sheet 3 of 3

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	336880.90 - 347831.16	Hole Type CP
Location:	Wrexham		Level:	40.56	Scale 1:25
Client:	Net World Sports		Dates:	13/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.20	D		10.20	30.36		End of borehole at 10.20 m

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Remarks
1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 2.50m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m

AGS

Borehole Log

Borehole No. **CP08**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336776.52 - 347910.92	Hole Type CP
Location: Wrexham		Level: 41.31	Scale 1:25
Client: Net World Sports		Dates: 13/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.30	D		0.40	40.91		Dark brown, slightly silty, sandy CLAY with rare rootlets. Sand is fine. TOPSOIL
		1.00	D					Loose, dark yellowish brown, very silty, clayey, fine to medium SAND. Becoming slightly gravelly at 1.60m. Gravel is fine to medium, subrounded to rounded of sandstone, mudstone and quartz. TILL
		1.20 1.20 - 1.65	SPTL S	N=8 (2,2/2,2,2,2)				
		2.00 2.00 - 2.45	D U		2.00	39.31		Soft to firm, dark brown mottled grey silty CLAY TILL
		2.50	D					
		3.00 3.00 3.00 - 3.45	D SPTL S	N=7 (1,2/2,1,2,2)				
		4.00 4.00 4.00 - 4.45	D SPTL S	N=9 (2,2/2,3,2,2)				
		5.00 - 5.45	U		4.50	36.81		Firm, greyish brown, silty CLAY with occasional sand lenses. TILL

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 2.20m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination. 5) Cased to 7.50m

Borehole Log

Borehole No. **CP08**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336776.52 - 347910.92	Hole Type CP
Location: Wrexham		Level: 41.31	Scale 1:25
Client: Net World Sports		Dates: 13/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		5.50	D						
		6.00 6.00 6.00 - 6.45	D SPTL S	N=12 (2,3/3,3,3,3)					6
		7.00 7.00 7.00 - 7.45	D SPTL S	N=18 (2,3/4,4,5,5)	7.00	34.31		Stiff, greyish brown silty CLAY. TILL	7
		8.00 8.00 8.00 - 8.45	D SPTL S	N=19 (2,3/4,4,5,6)					8
		9.00 9.00 9.00 - 9.45	D SPTL S	N=21 (3,4/5,5,5,6)					9
		10.00		N=23 (3,4/5,6,6,6)					10

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 2.20m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination. 5) Cased to 7.50m

Borehole Log

Borehole No. **CP08**

Sheet 3 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336776.52 - 347910.92	Hole Type CP
Location: Wrexham		Level: 41.31	Scale 1:25
Client: Net World Sports		Dates: 13/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.00 - 10.45	SPTL S		10.45	30.86		End of borehole at 10.45 m

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Remarks
1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 2.20m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination. 5) Cased to 7.50m

Borehole Log

Borehole No. **CP09**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336957.45 - 347969.54	Hole Type CP
Location: Wrexham		Level: 38.63	Scale 1:25
Client: Net World Sports		Dates: 13/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	D		0.40	38.23		Dark brown, slightly silty, sandy CLAY with rare rootlets. Sand is fine. TOPSOIL
		0.60	D					Stiff, dark orangish brown, slightly gravelly, sandy CLAY. Sand is fine to medium. Gravel is fine to medium, subrounded to rounded of sandstone and iron rich sandstone and quartz. TILL
		0.90	ES					
		1.20 - 1.65	U					
		1.70	D					
		2.30		N=18 (2,3/4,4,5,5)	2.30	36.33		
		2.30 - 2.75	SPTLS					Firm to stiff, dark brown, mottled grey, silty CLAY turning stiff at 8.50m TILL
		3.40		N=16 (3,3/3,4,4,5)				
		3.40 - 3.85	SPTLS					
		4.50		N=16 (3,4/3,4,4,5)				
		4.50 - 4.95	SPTLS					

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination.

Borehole Log

Borehole No. **CP09**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336957.45 - 347969.54	Hole Type CP
Location: Wrexham		Level: 38.63	Scale 1:25
Client: Net World Sports		Dates: 13/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.60 5.60 - 6.05	SPTL S	N=14 (3,3/3,3,4,4)				
		6.70 - 7.10	U					
		7.20	D					
		7.80 7.80 - 8.25	SPTL S	N=14 (2,3/3,3,4,4)				
		8.90 8.90 - 9.35	SPTL S	N=15 (3,3/3,4,4,4)				
		9.20	D					
		10.00		N=16 (3,4/4,4,4,4)				

6 7 8 9 10

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination.

AGS

Borehole Log

Borehole No. **CP09**

Sheet 3 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336957.45 - 347969.54	Hole Type CP
Location: Wrexham		Level: 38.63	Scale 1:25
Client: Net World Sports		Dates: 13/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.00 - 10.45	SPTL S		10.45	28.18		End of borehole at 10.45 m

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Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination.

Borehole Log

Borehole No. **CP10**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337034.15 - 347891.39	Hole Type CP
Location: Wrexham		Level: 39.46	Scale 1:25
Client: Net World Sports		Dates: 10/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	D		0.30	39.16		Soft, dark brown, slightly sandy, silty CLAY. Sand is fine to coarse with rare rootlets. TOPSOIL
		0.70	D					Stiff, light orangish brown, slightly silty CLAY TILL
		1.20 - 1.65	U					
		1.70	D		1.70	37.76		Firm, light brown, slightly silty CLAY TILL
		2.20 2.20 - 2.65	SPTL S	N=21 (3,4/5,5,5,6)				*Stiff between 2.2m and 3m bgl.*
		3.30 3.30 - 3.75	SPTL S	N=11 (2,2/3,3,2,3)				
		4.30 4.30 - 4.75	SPTL S	N=9 (1,1/2,2,2,3)				
								Continued on next sheet

1 2 3 4 5

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m 6) Installed and Backfilled

Borehole Log

Borehole No. **CP10**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337034.15 - 347891.39	Hole Type CP
Location: Wrexham		Level: 39.46	Scale 1:25
Client: Net World Sports		Dates: 10/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.50 5.50 - 5.95	SPTL S	N=11 (2,2/3,3,2,3)				
		6.50 6.50 - 6.95	SPTL S	N=11 (2,2/2,3,3,3)				
		7.70 7.70 - 8.15	SPTL S	N=15 (2,2/3,3,4,5)				
		8.60 - 9.05	U					
		9.10	D					
		9.70 9.70 - 10.15	SPTL S	N=15 (2,3/3,3,4,5)				

6 7 8 9 10

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m 6) Installed and Backfilled

Borehole Log

Borehole No. **CP10**

Sheet 3 of 3

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	337034.15 - 347891.39	Hole Type CP
Location:	Wrexham		Level:	39.46	Scale 1:25
Client:	Net World Sports		Dates:	10/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					10.15	29.31		End of borehole at 10.15 m

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Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m 6) Installed and Backfilled

Borehole Log

Borehole No. **CP11**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337119.21 - 347965.86	Hole Type CP
Location: Wrexham		Level: 37.57	Scale 1:25
Client: Net World Sports		Dates: 09/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.30	37.27		Soft, dark brown, slightly sandy, silty CLAY. Sand is fine to coarse with rare rootlets. TOPSOIL
		1.00	D					Firm, light brown, mottled grey, slightly silty CLAY TILL
		1.20		N=9 (1,1/1,2,3,3)				
		1.20 - 1.65	SPTL S					
		2.00 - 2.45	U					
		2.50	D					
		3.00	D		3.00	34.57		
		3.00		N=12 (1,2/3,3,3,3)				Firm, light reddish brown, slightly silty CLAY TILL
		3.00 - 3.45	SPTL S					
		4.00 - 4.45	U					
		4.50	D					
		5.00	D					

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.50m 6) Installed and backfilled.

Borehole Log

Borehole No. **CP11**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337119.21 - 347965.86	Hole Type CP
Location: Wrexham		Level: 37.57	Scale 1:25
Client: Net World Sports		Dates: 09/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		5.00 5.00 - 5.45	SPTL S	N=12 (2,3/3,3,3,3)					6
					6.50	31.07		Soft, dark brown, slightly silty CLAY TILL	
		7.00 7.00 7.00 - 7.45	D SPTL S	 N=19 (2,3/4,5,5,5)	7.00	30.57		Firm to stiff, dark brown, slightly silty CLAY TILL	7
		8.00 - 8.45	U						8
		8.50	D						
		9.00 9.00 9.00 - 9.45 9.00 - 9.45	D SPTL S SPTL S	 N=23 (4,5/5,6,6,6)					9
		10.00	D						10

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.50m 6) Installed and backfilled.

Borehole Log

Borehole No. **CP11**

Sheet 3 of 3

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	337119.21 - 347965.86	Hole Type CP
Location:	Wrexham		Level:	37.57	Scale 1:25
Client:	Net World Sports		Dates:	09/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.00 10.00 - 10.45	SPTL S	N=24 (4,5/6,6,6,6)	10.45	27.12		End of borehole at 10.45 m

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Remarks

1) Hand dug pit to 1.20m 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.50m 6) Installed and backfilled.

Borehole Log

Borehole No. **CP12**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336903.52 - 348034.51	Hole Type CP
Location: Wrexham		Level: 38.12	Scale 1:25
Client: Net World Sports		Dates: 16/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	D					Dark brown, slightly silty, sandy CLAY with rare rootlets. Sand is fine. TOPSOIL
					0.50	37.62		
		0.70	D					Dark yellowish brown, slightly silty, slightly gravelly clayey, fine to medium SAND. Gravel is fine to medium, subrounded to rounded of sandstone and quartz. TILL
					1.00	37.12		
		1.20 - 1.65	U					Firm to stiff, light greyish brown, silty CLAY becoming firm at 2.20m TILL
		1.70	D					
		2.30 2.30 - 2.75	SPTL S	N=14 (3,3/3,3,4,4)				
		3.30 3.30 - 3.75	SPTL S	N=16 (3,3/3,4,4,5)				
		4.40 - 4.85	U					
		4.90	D					

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 6.00m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 7.50m

Borehole Log

Borehole No. **CP12**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336903.52 - 348034.51	Hole Type CP
Location: Wrexham		Level: 38.12	Scale 1:25
Client: Net World Sports		Dates: 16/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.50 5.50 - 5.95	SPTL S	N=11 (2,2/2,3,3,3)				
		6.60 6.60 - 7.05	SPTL S	N=14 (2,2/3,3,4,4)	6.60	31.52		Firm to stiff, light greyish brown, slightly sandy, silty CLAY. Sand is fine TILL
		7.80 7.80 - 8.25	SPTL S	N=18 (3,4/4,4,5,5)				
		8.80 8.80 - 9.25	SPTL S	N=17 (3,3/4,4,4,5)				
		9.60 9.60 - 10.05	SPTL S	N=13 (3,3/3,3,3,4)				

Continued on next sheet

6 7 8 9 10

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 6.00m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 7.50m

Borehole Log

Borehole No. **CP12**

Sheet 3 of 3

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	336903.52 - 348034.51	Hole Type CP
Location:	Wrexham		Level:	38.12	Scale 1:25
Client:	Net World Sports		Dates:	16/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					10.05	28.07		End of borehole at 10.05 m

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Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 6.00m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 7.50m

Borehole Log

Borehole No. **CP13**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336786.60 - 348095.29	Hole Type CP
Location: Wrexham		Level: 38.41	Scale 1:25
Client: Net World Sports		Dates: 16/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.30	D		0.40	38.01		Dark brown, slightly silty, sandy CLAY with rare rootlets. Sand is fine. TOPSOIL
		1.00 1.00	D ES					Soft, light orangish brown, mottled grey, silty CLAY turning firm at 2.40m TILL
		1.20 1.20 - 1.65	SPTL S	N=7 (1,2/2,1,2,2)				
		2.00 - 2.45	U					
		2.50	D					
		3.00 3.00 3.00 - 3.45	D SPTL S	N=8 (1,2/2,2,2,2)				*Firm below 3.5m bgl.*
		4.00 4.00 4.00 - 4.45	D SPTL S	N=10 (2,1/2,3,2,3)				
		5.00 - 5.45	U		4.80	33.61		Soft, light brown mottled grey, silty CLAY with rare sand bands

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m

Borehole Log

Borehole No. **CP13**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336786.60 - 348095.29	Hole Type CP
Location: Wrexham		Level: 38.41	Scale 1:25
Client: Net World Sports		Dates: 16/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.50	D		5.80	32.61		TILL
		6.00 6.00 6.00 - 6.45	D SPTL S	N=13 (2,3/3,3,3,4)				Firm, light brown mottled grey, silty CLAY TILL
		7.00 7.00 7.00 - 7.45	D SPTL S	N=15 (3,3/3,4,4,4)				
		8.00 8.00 8.00 - 8.45	D SPTL S	N=17 (3,4/4,4,4,5)				*Stiff below 8m bgl.*
		9.00 9.00 9.00 - 9.45	D SPTL S	N=22 (3,4/5,5,6,6)				
		10.00		N=23 (4,5/5,6,6,6)				

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m

Borehole Log

Borehole No. **CP13**

Sheet 3 of 3

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	336786.60 - 348095.29	Hole Type CP
Location:	Wrexham		Level:	38.41	Scale 1:25
Client:	Net World Sports		Dates:	16/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.00 - 10.45	SPTL S		10.45	27.96		End of borehole at 10.45 m

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Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m

Borehole Log

Borehole No. **CP14** Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336787.52 - 348242.61	Hole Type CP
Location: Wrexham		Level: 36.52	Scale 1:25
Client: Net World Sports		Dates: 17/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.30	D		0.40	36.12		Dark brown, slightly silty, sandy CLAY with rare rootlets. Sand is fine. TOPSOIL
		1.00	D					Firm, dark orangish brown, slightly sandy, gravelly, silty CLAY. Sand is fine. Gravel is subrounded to rounded, fine to medium of sandstone, mudstone and quartz. Cobble encountered at 1.00m being pushed down to 3.00m. Cobbles are 10 x 0.6 x 0.5 cm TILL
		1.20 1.20 - 1.65	SPTL S	N=13 (2,3/3,4,3,3)				
		2.00 2.00 2.00 - 2.45	D SPTL S	N=19 (7,6/5,5,4,5)	2.00	34.52		Firm, light greyish brown, sandy, silty CLAY. Sand is fine with occasional sand pockets. TILL
		3.00 3.00 3.00 - 3.45	D SPTL S	N=10 (3,2/2,3,2,3)				
		4.00 - 4.45	U					
		4.50	D					
		5.00		N=12 (3,3/3,3,3,3)				

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 7.00m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination. 5) Installed and Backfilled. 6) Cased to 9.00m

Borehole Log

Borehole No. **CP14**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336787.52 - 348242.61	Hole Type CP
Location: Wrexham		Level: 36.52	Scale 1:25
Client: Net World Sports		Dates: 17/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		5.00 - 5.45	SPTL S						
		5.50	D						
		6.00 - 6.45	U						6
		6.50	D						
		7.00	D		7.00	29.52			7
		7.00		N=9 (2,1/2,2,3,2)				Loose, dark brown, silty fine SAND TILL	
		7.00 - 7.45	SPTL S						
		8.00	D						8
		8.00		N=5 (1,1/1,1,1,2)					
		8.00 - 8.45	SPTL S						
		9.00	D		9.00	27.52			9
		9.00		N=13 (2,3/3,3,3,4)				Firm, dark brown slightly sandy, silty CLAY. Sand is fine TILL	
		9.00 - 9.45	SPTL S						
								Continued on next sheet	10

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 7.00m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination. 5) Installed and Backfilled. 6) Cased to 9.00m

Borehole Log

Borehole No.
CP14
Sheet 3 of 3

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	336787.52 - 348242.61	Hole Type CP
Location:	Wrexham		Level:	36.52	Scale 1:25
Client:	Net World Sports		Dates:	17/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					10.45	26.06		End of borehole at 10.45 m

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Remarks
1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 7.00m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination. 5) Installed and Backfilled. 6) Cased to 9.00m

Borehole Log

Borehole No. **CP15**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336902.58 - 348163.06	Hole Type CP
Location: Wrexham		Level: 36.32	Scale 1:25
Client: Net World Sports		Dates: 17/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	D		0.40	35.92		Dark brown, slightly silty, sandy CLAY with rare rootlets. Sand is fine. TOPSOIL
		0.50	D					Medium dense, light orangish brown, slightly gravelly, slightly clayey, silty, fine to medium SAND. Gravel is fine to coarse, subrounded to rounded of sandstone and mudstone. Turning dark orangish brown at 1.00m TILL
		0.80	ES					
		1.20 1.20 - 1.65	SPTL S	N=12 (2,2/3,3,3,3)				
		2.20 2.20 - 2.65	SPTL S	N=15 (3,3/3,4,4,4)	2.20	34.12		Firm, dark greyish brown, slightly sandy, silty CLAY. Sand is fine. TILL
		3.30 - 3.75	U					
		3.80	D					
		4.50 4.50 - 4.95	SPTL S	N=11 (2,2/2,2,3,4)				
								Continued on next sheet

1 2 3 4 5

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 6.00m as slow ingress 3) Terminated at target depth 4) No visual or olfactory evidence of contamination. 5) Backfilled and installed. 6) Cased to 6.00m

Borehole Log

Borehole No. **CP15**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336902.58 - 348163.06	Hole Type CP
Location: Wrexham		Level: 36.32	Scale 1:25
Client: Net World Sports		Dates: 17/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.50 5.50 - 5.95 5.60	SPTL S D	N=12 (3,3/3,3,3,3)				
		6.60 6.60 - 7.05	SPTL S	N=16 (3,4/4,4,4,4)				*Stiff below 6.6m bgl.*
		7.60 - 8.05	U					
		8.10	D					
		8.70 8.70 - 9.15	SPTL S	N=16 (3,3/4,4,4,4)				
		9.70 9.70 - 10.15	SPTL S	N=18 (3,4/4,5,5)				

6 7 8 9 10

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 6.00m as slow ingress 3) Terminated at target depth 4) No visual or olfactory evidence of contamination. 5) Backfilled and installed. 6) Cased to 6.00m

Borehole Log

Borehole No. **CP15**

Sheet 3 of 3

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	336902.58 - 348163.06	Hole Type CP
Location:	Wrexham		Level:	36.32	Scale 1:25
Client:	Net World Sports		Dates:	17/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					10.15	26.16		End of borehole at 10.15 m

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Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 6.00m as slow ingress 3) Terminated at target depth 4) No visual or olfactory evidence of contamination. 5) Backfilled and installed. 6) Cased to 6.00m

Borehole Log

Borehole No. **CP16**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337057.59 - 348190.07	Hole Type CP
Location: Wrexham		Level: 34.70	Scale 1:25
Client: Net World Sports		Dates: 06/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	D		0.30	34.40		Dark brown, slightly sandy, silty CLAY with rare rootlets. Sand is fine to coarse TOPSOIL
		0.50	D					Stiff, orangish brown, mottled grey, slightly silty CLAY TILL
		1.20 1.20 - 1.85	SPTL S	N=19 (3,4/4,5,5,5)				
		2.20 2.20 - 2.65	SPTL S	N=12 (2,2/3,3,3,3)	2.20	32.50		Firm, dark greyish brown, slightly silty CLAY TILL
		3.10 3.10 - 3.55	SPTL S	N=10 (2,3/3,2,3,2)				
					3.55	31.15		Firm to stiff, dark brown CLAY TILL
		4.30 - 4.75	U					
		4.80	D					
								Continued on next sheet

1 2 3 4 5

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 3.20m as slow ingress. 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m.

Borehole Log

Borehole No. **CP16**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337057.59 - 348190.07	Hole Type CP
Location: Wrexham		Level: 34.70	Scale 1:25
Client: Net World Sports		Dates: 06/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.40 5.40 - 5.85	SPTL S	N=12 (2,2/3,3,3,3)				
		6.50 6.50 - 6.95	SPTL S	N=15 (3,2/4,3,4,4)				
		7.50 - 7.95	U					
		8.00	D					
		8.60 8.60 - 9.05	SPTL S	N=15 (3,3/3,4,4,4)				
		9.70 9.70 - 10.15	SPTL S	N=16 (3,3/4,4,4,4)				

6 7 8 9 10

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 3.20m as slow ingress. 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m.

Borehole Log

Borehole No. **CP16**

Sheet 3 of 3

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	337057.59 - 348190.07	Hole Type CP
Location:	Wrexham		Level:	34.70	Scale 1:25
Client:	Net World Sports		Dates:	06/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					10.15	24.55		End of borehole at 10.15 m

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Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 3.20m as slow ingress. 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m.

Borehole Log

Borehole No. **CP17**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336985.16 - 348124.89	Hole Type CP
Location: Wrexham		Level: 35.98	Scale 1:25
Client: Net World Sports		Dates: 06/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	D		0.30	35.68		Dark brown, slightly sandy, silty CLAY with rare rootlets. Sand is fine to coarse TOPSOIL
		0.70	D					Stiff, orangish brown, slightly silty, slightly sandy CLAY, becoming mottled grey at 1.70m. TILL
		1.20 - 1.65	U					
		1.70	D					
		2.20		N=10 (1,1/2,2,3,3)	2.20	33.78		
		2.20 - 2.65	SPTL S					Firm, light brown, slightly silty CLAY TILL
		3.30		N=11 (2,2/3,2,3,3)				
		3.30 - 3.75	SPTL S					
		4.40		N=11 (2,2/2,3,3,3)	4.40	31.58		
		4.40 - 4.85	SPTL S					Firm to stiff, light brown CLAY TILL

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m

Borehole Log

Borehole No. **CP17**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336985.16 - 348124.89	Hole Type CP
Location: Wrexham		Level: 35.98	Scale 1:25
Client: Net World Sports		Dates: 06/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.50 5.50 - 5.95	SPTL S	N=15 (3,3/3,4,4,4)				
		6.50 - 6.95	U					
		7.00	D					
		7.60 7.60 - 8.05	SPTL S	N=17 (3,3/4,4,4,5)				
		8.50 8.50 - 8.95	SPTL S	N=17 (3,4/4,4,4,5)				
		9.80 9.80 - 10.25	SPTL S	N=18 (3,4/4,4,5,5)				

6 7 8 9 10

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m

Borehole Log

Borehole No. **CP17**

Sheet 3 of 3

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	336985.16 - 348124.89	Hole Type CP
Location:	Wrexham		Level:	35.98	Scale 1:25
Client:	Net World Sports		Dates:	06/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					10.25	25.73		End of borehole at 10.25 m

Remarks

1) Hand dug pit to 1.20m 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 6.00m

Borehole Log

Borehole No. **CP18**

Sheet 1 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337051.88 - 348068.79	Hole Type CP
Location: Wrexham		Level: 36.35	Scale 1:25
Client: Net World Sports		Dates: 09/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	D		0.30	36.05		Soft, dark brown, slightly sandy, silty CLAY. Sand is fine to coarse with rare rootlets. TOPSOIL
		0.60	D					Stiff, reddish brown, mottled grey, silty CLAY TILL
		1.20 1.20 - 1.65	SPTL S	N=20 (3,3/5,5,5,5)				
		2.20 2.20 - 2.65	SPTL S	N=18 (3,5/4,4,5,5)	2.05	34.30		Firm, light reddish brown, slightly silty CLAY TILL
		3.20 - 3.65	U					
		3.70	D					
		4.50 4.50 - 4.75	SPTL S	N=10 (2,2/2,2,3,3)				
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Installed and backfilled.

Borehole Log

Borehole No. **CP18**

Sheet 2 of 3

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337051.88 - 348068.79	Hole Type CP
Location: Wrexham		Level: 36.35	Scale 1:25
Client: Net World Sports		Dates: 09/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.40 5.40 - 5.85	SPTL S	N=12 (2,2/3,3,3,3)				
		6.50 6.50 - 6.95	SPTL S	N=11 (2,2/3,2,3,3)				
		7.50 7.50 - 7.95	SPTL S	N=16 (3,3/4,4,4,4)				*Becoming stiff at 7.50m*
		8.70 8.70 - 9.15 8.80	SPTL S D	N=16 (3,4/4,4,4,4)				
		10.00 - 10.45	U					

6 7 8 9 10

Continued on next sheet

Remarks

1) Hand dug pit to 1.20m 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Installed and backfilled.

Borehole Log

Borehole No. **CP18**

Sheet 3 of 3

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	337051.88 - 348068.79	Hole Type CP
Location:	Wrexham		Level:	36.35	Scale 1:25
Client:	Net World Sports		Dates:	09/12/2024 -	Logged By JL

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.50	D		10.50	25.85		End of borehole at 10.50 m

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Remarks

1) Hand dug pit to 1.20m 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Installed and backfilled.

Trial Pit Log

Trialpit No **TP01**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336836.51 - 347731.23 Level: 41.98	Date 02/12/2024
Location: Wrexham		Dimensions (m): 2.5 x 0.9 Depth 3.00	Scale 1:25
Client: Net World Sports			Logged GF

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.30	41.68		Dark brown silty CLAY with rare rootlets TOPSOIL
	1.10	B					Reddish brown, silty, fine to medium SAND TILL
▼				1.45	40.53		Grey, slightly cobbly, silty, very gravelly, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse, iron rich sandstone, quartzite and sandstone. Cobbles are subrounded to rounded of quartzite (90mm x 70mm x 20mm) TILL
	1.95	B	HVR=130	1.90	40.08		Stiff, reddish brown, mottled pale grey silty CLAY with occasional rootlets TILL
	2.20	D					
				3.00	38.98		End of pit at 3.00 m

1 2 3 4 5

Remarks: 1) Groundwater encountered at 1.70m bgl as moderate inflow. 2) Terminated at target depth 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings.

Stability: Unstable at 0.1-1.9m

Trial Pit Log

Trialpit No **TP02**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336992.04 - 347724.58 Level: 43.45	Date 02/12/2024
Location: Wrexham		Dimensions (m): 2.8 × 0.6, Depth 3.00	Scale 1:25
Client: Net World Sports			Logged GF

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.25	43.20		Dark brown, silty CLAY with rare rootlets TOPSOIL
							Reddish brown, silty, clayey, fine to medium SAND TILL
	1.20	B					*Becoming reddish brown, mottled grey at 1.30m bgl.*
	2.00	B					
▼			HVR=130	2.70	40.75		Stiff, reddish brown, mottled pale grey, silty CLAY with occasional rootlets. TILL
				3.00	40.45		End of pit at 3.00 m

Remarks: 1) Groundwater encountered at 2.90m bgl as moderate ingress 2) Terminated at target depth. 3) Backfilled with arisings 4) No visual or olfactory evidence of contamination.

Stability: Stable

Trial Pit Log

Trialpit No **TP03**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337062.73 - 347720.68 Level: 44.09	Date 02/12/2024
Location: Wrexham		Dimensions (m): 2.5 × 0.7, Depth 3.00	Scale 1:25
Client: Net World Sports			Logged GF

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	43.79		Dark brown, silty CLAY with rare rootlets TOPSOIL
	0.55	B	HVR=72 HVR=71 HVR=82				Stiff, yellowish brown, slightly sandy CLAY. Sand is fine. TILL *Becoming reddish brown, mottled pale grey at 0.55m bgl.*
			HVR=125				
	1.50	B	HVR=110				
			HVR=118				*Becoming bluish grey, mottled reddish brown at 2.00m*
			HVR=110				
				3.00	41.09		End of pit at 3.00 m

Remarks: 1) No groundwater encountered 2) Terminated at target depth 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings 5) Ceramic land drain encountered at 0.30m bgl East to West.

Stability: Stable

Trial Pit Log

Trialpit No **TP04**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336880.27 - 347791.21 Level: 40.89	Date 02/12/2024
Location: Wrexham		Dimensions (m): 2.6 × 0.8, Depth 3.20	Scale 1:25
Client: Net World Sports			Logged JL

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	40.59		Dark brown, silty CLAY with rare rootlets TOPSOIL
	0.50	B					Yellowish brown becoming reddish brown at 0.65m bgl, slightly silty, fine to medium SAND TILL
				0.95	39.94		Grey, slightly cobbly, very silty, gravelly, fine to coarse SAND. Gravel is rounded to subrounded, fine to coarse of quartzite. Cobbles are rounded to subrounded (80mm x 65mm x 50mm) TILL
▼	1.50	B					
	2.00	D	HVR=62 HVR=84 HVR=92	1.95	38.94		Stiff, reddish brown, slightly silty, slightly gravelly CLAY. Gravel is subangular, fine to medium mudstone. TILL
			HVR=78 HVR=68 HVR=60				*Becoming firm and silty at 2.50m bgl.*
			HVR=25 HVR=40 HVR=40	3.20	37.69		*Becoming soft at 3.10m bgl.* End of pit at 3.20 m

Remarks: 1) Groundwater encountered at moderate influx at 1.70m bgl. 2) Terminated at target depth 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings.

Stability: Unstable at 0.75m to 1.80m

Trial Pit Log

Trialpit No **TP05** Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336865.78 - 347869.60 Level: 40.14	Date 02/12/2024
Location: Wrexham		Dimensions (m): 2.4 × 0.9, Depth 3.10	Scale 1:25
Client: Net World Sports			Logged GF

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.25	39.89		Dark brown, silty CLAY with rare rootlets TOPSOIL
	0.80	B					Brown, slightly gravelly, clayey, fine to coarse SAND. Gravel is subrounded, fine to coarse of quartzite. TILL
				1.10	39.04		
	1.20	D	HVR=130 HVR=130 HVR=130				Very stiff, reddish brown mottled pale grey, slightly silty CLAY. TILL
	1.80	B	HVR=125 HVR=130 HVR=124				*Stiff below 1.8m bgl.*
			HVR=78 HVR=79 HVR=130				*Becoming very silty at 2.50m bgl*
			HVR=39 HVR=53 HVR=47				*Becoming firm at 2.80m bgl*
				3.10	37.04		End of pit at 3.10 m

Remarks: 1) No groundwater encountered 2) Terminated at target depth 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings

Stability: Stable

Trial Pit Log

Trialpit No **TP06**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337006.42 - 347932.40 Level: 38.64	Date 02/12/2024
Location: Wrexham	Dimensions (m): Depth 2.40	2.4 × 0.8	Scale 1:25
Client: Net World Sports			Logged GF

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	38.34		Dark brown, silty CLAY with rare rootlets TOPSOIL
	0.85	B					Yellowish brown, clayey, very silty, fine to medium SAND TILL
				1.35	37.28		Grey, slightly clayey, slightly cobbly, very sandy, subangular to subrounded, fine to coarse GRAVEL of quartz. Cobbles are subrounded (90mm x 80mm x 70mm) TILL
▼	1.80	B					
				2.40	36.24		End of pit at 2.40 m

1 2 3 4 5

Remarks: 1) Groundwater encountered at 1.90m bgl as fast ingress 2) Terminated due to wall collapse 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings.

Stability: Unstable between 0.8-2.4m in eastern pit wall and 1.45-2.3m in the western pit wall.

Trial Pit Log

Trialpit No **TP07**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337071.13 - 347932.41 Level: 38.51	Date 02/12/2024
Location: Wrexham		Dimensions (m): 2.5 × 0.8, Depth 2.00	Scale 1:25
Client: Net World Sports			Logged JL

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	38.21		Dark brown, silty CLAY with rare rootlets TOPSOIL
	0.50	B					Reddish brown, slightly silty, fine to medium SAND TILL
				1.00	37.51		Light brown, slightly clayey, silty, sandy, slightly cobbly GRAVEL. Sand is find to coarse, gravel is fine to medium rounded to subangular of mudstone and quartzite. Cobbles are rounded (120mm x 62mm x 70mm) TILL
	1.50	B					
			HVR=118 HVR=130	1.65	36.86		Stiff, reddish brown, mottled grey, slightly silty, slightly gravelly CLAY. Gravel is angular to subrounded, medium to coarse of quartzite TILL
				2.00	36.51		End of pit at 2.00 m

1 2 3 4 5

Remarks: 1) No groundwater encountered 2) Terminated due to fast inflow of water from land drain at 1.00m east to west. 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings.

Stability: Stable

Trial Pit Log

Trialpit No **TP08**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336852.83 - 348076.03 Level: 38.20	Date 03/12/2024
Location: Wrexham		Dimensions (m): 2.5 × 0.7 Depth 2.90	Scale 1:25
Client: Net World Sports			Logged GF

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	37.90		Dark brown, silty CLAY with rare rootlets. TOPSOIL
	0.60	B					Reddish brown, slightly gravelly, slightly cobbly very silty, fine to coarse SAND. Gravel is subrounded, fine of quartzite. Cobbles are subrounded (90mm x 60mm x 50mm). TILL
▼							*Becoming slightly silty, gravelly and cobbly at 1.30m bgl*
				1.80	36.40		Stiff, reddish brown, mottled grey, slightly gravelly, silty CLAY. Gravel is subangular to rounded, fine to coarse of quartzite and sandstone. TILL
			HVR=80				
				2.50	35.70		Grey, brownish grey and reddish brown, clayey SILT with layers TILL
			HVR=80 HVR=74 HVR=72				
				2.90	35.30		End of pit at 2.90 m

Remarks: 1) Groundwater encountered at 1.45m bgl as slow ingress 2) Terminated at target depth 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings.

Stability: Unstable between 1.30 and 1.95m

Trial Pit Log

Trialpit No **TP09**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336857.98 - 348192.74 Level: 36.26	Date 03/12/2024
Location: Wrexham		Dimensions (m): 2.4 × 0.75, Depth 3.00	Scale 1:25
Client: Net World Sports			Logged GF

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.40	35.86		Dark brown, silty CLAY with rare rootlets TOPSOIL
	0.60	B					Orangish brown, slightly cobbly, silty, very clayey, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse of flint and quartzite. Cobbles are subrounded (110mm x 60mm x 60mm) TILL
	1.00	B		1.10	35.16		Stiff, reddish brown, mottled grey, slightly gravelly, slightly sandy, silty CLAY. Gravel is subrounded to rounded, fine to coarse of quartzite and sandstone. TILL
			HVR=90 HVR=104 HVR=90	2.60	33.66		Grey, brownish grey and reddish brown, clayey SILT with layers TILL
				3.00	33.26		End of pit at 3.00 m

Remarks: 1) Groundwater not encountered 2) Terminated at target depth. 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings

Stability: Stable

Trial Pit Log

Trialpit No **TP10**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336815.99 - 348211.39 Level: 36.48	Date 03/12/2024
Location: Wrexham		Dimensions (m): 2.7 × 0.75, Depth 3.00	Scale 1:25
Client: Net World Sports			Logged AM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.35	36.13		Dark brown, silty CLAY with rare rootlets TOPSOIL
	0.50	B					Orangish brown, slightly cobbly, silty, very clayey, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse of flint and quartzite. Cobbles are subrounded (110mm x 60mm x 60mm) TILL
	0.90	B		0.95	35.53		Stiff, reddish brown, mottled grey, slightly gravelly, silty CLAY. Gravel is subangular to sounded, fine to coarse as quartzite and sandstone. TILL
			HVR=110 HVR=130 HVR=130				
				2.30	34.18		Firm, brownish grey and reddish brown, thickly laminated clayey SILT. TILL
			HVR=50 HVR=69				
				3.00	33.48		End of pit at 3.00 m

1 2 3 4 5

Remarks: 1) No groundwater encountered 2) Terminated at target depth 3) backfilled with arisings.

Stability: Stable

AGS

Trial Pit Log

Trialpit No **TP11**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336906.99 - 348211.56 Level: 35.58	Date 03/12/2024
Location: Wrexham		Dimensions (m): 2.5 × 0.75, Depth 3.00	Scale 1:25
Client: Net World Sports			Logged GF

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	35.28		Dark brown, silty CLAY with rare rootlets TOPSOIL
	0.80	B					Orangish brown, slightly cobbly, silty, very clayey, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse of flint and quartzite. Cobbles are subrounded (110mm x 60mm x 60mm) TILL
	1.30	B					
▼				1.50	34.08		Grey, brownish grey and reddish brown, slightly sandy, clayey SILT with layers. Sand is fine. TILL
				3.00	32.58		End of pit at 3.00 m

1 2 3 4 5

Remarks: 1) Groundwater encountered at 1.80m bgl as slight seepage 2) Terminated at target depth 3) Backfilled with arisings.

Stability: Unstable between 1.70 to 2.20m bgl

Trial Pit Log

Trialpit No **TP12**

Sheet 1 of 1

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336989.78 - 348021.38 Level: 37.78
Date	03/12/2024		
Location:	Wrexham	Dimensions (m):	2.7 × 0.75, Depth 3.10
Scale	1:25		
Client:	Net World Sports		
Logged	GF		

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	37.48		Dark brown, silty CLAY with rare rootlets TOPSOIL
	0.50	B	HVR=60 HVR=75 HVR=78				Firm, reddish brown, mottled grey, slightly sandy, slightly silty CLAY. Sand is fine to medium. TILL
	1.00	B					
				1.90	35.88		Dark grey, thickly laminated, clayey SILT. TILL
				3.10	34.68		End of pit at 3.10 m

Remarks: 1) No groundwater encountered 2) Terminated at target depth 3) Backfilled with arisings 4) Land drain encountered at 0.70m bgl orientation North East to South West.

Stability: Stable

Trial Pit Log

Trialpit No **TP13**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337030.74 - 348102.52 Level: 35.95	Date 03/12/2024
Location: Wrexham		Dimensions (m): 2.4 × 0.7, Depth 3.00	Scale 1:25
Client: Net World Sports			Logged GF

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							Dark brown, silty CLAY with rare rootlets TOPSOIL
				0.40	35.55		Orangish brown, slightly gravelly, slightly cobbly, very clayey, fine to coarse SAND. Gravel is rounded to subrounded, fine to coarse of quartzite. Cobbles are rounded (70mm x 90mm x 40mm) TILL *Becoming slightly clayey, very gravelly at 0.65m*
				0.95	35.00		Stiff, reddish, brown, mottled grey, slightly gravelly, silty CLAY. Gravel is subangular to rounded, fine to coarse as quartzite and sandstone. TILL
			HVR=130 HVR=120 HVR=130				
			HVR=100 HVR=100 HVR=68				
				2.30	33.65		Grey, brownish grey and reddish brown, clayey SILT with layers. TILL
				3.00	32.95		End of pit at 3.00 m

Remarks: 1) No groundwater encountered 2) Terminated target depth 3) Backfilled with arisings.

Stability: Stable

Trial Pit Log

Trialpit No **TP14**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337063.25 - 348124.95 Level: 35.53	Date 03/12/2024
Location: Wrexham		Dimensions (m): 2.6 × 0.7 Depth 3.00	Scale 1:25
Client: Net World Sports			Logged GF

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.35	35.18		Dark brown, silty CLAY with rare rootlets TOPSOIL
				0.75	34.78		Orangish brown, slightly cobbly, very clayey, fine to coarse SAND. Cobbles are rounded (70mm x 90mm x 40mm) TILL
			HVR=110 HVR=115 HVR=120 HVR=80	2.30	33.23		Stiff, reddish, brown, mottled grey, slightly gravelly, silty CLAY. Gravel is subangular to rounded, fine to coarse as quartzite and sandstone. TILL
			HVR=60 HVR=66 HVR=58	3.00	32.53		Firm, grey, brownish grey and reddish brown, clayey SILT with layers. TILL End of pit at 3.00 m

Remarks: 1) No groundwater encountered 2) Terminated at target depth 3) Backfilled with arisings.

Stability: Stable

Trial Pit Log

Trialpit No **TP15**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337117.52 - 347834.96 Level: 41.07	Date 02/12/2024
Location: Wrexham		Dimensions (m): 2.4 × 0.7, Depth 2.80	Scale 1:25
Client: Net World Sports			Logged GF

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	40.76		Dark brown, silty CLAY with rare rootlets TOPSOIL
	0.50	B	HVR=75 HVR=86 HVR=80				Stiff, reddish brown, silty CLAY TILL
							Becoming mottled grey at 0.80m bgl
	1.80	B	HVR=120 HVR=130 HVR=130				*Becoming very silty at 1.80m bgl.*
			HVR=125 HVR=130 HVR=120				
			HVR=110 HVR=108 HVR=126				
				2.80	38.26		End of pit at 2.80 m

Remarks: 1) No groundwater encountered 2) Terminated at target depth 3) No visual or olfactory evidence of contamination 4) BAckfilled with arisings.

Stability: Stable

Trial Pit Log

Trialpit No **TP16**

Sheet 1 of 1

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337153.95 - 347850.04 Level: 40.88
Location:	Wrexham	Dimensions (m): Depth 3.10	3 × 0.7
Client:	Net World Sports		

Date 02/12/2024

Scale 1:25

Logged GF

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.35	40.53		Dark brown, silty CLAY with rare rootlets TOPSOIL
			HVR=110 HVR=120 HVR=105				Stiff, reddish brown, slightly silty CLAY TILL
	1.00	B	HVR=80				
	1.50	B	HVR=130 HVR=80 HVR=130				
			HVR=125 HVR=130 HVR=130				*Becoming silty at 2.00m*
			HVR=123 HVR=130 HVR=130				
			HVR=122 HVR=130 HVR=116	3.10	37.78		End of pit at 3.10 m

Remarks: 1) No groundwater encountered 2) Terminated at target depth 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings.

Stability: Stable

Trial Pit Log

Trialpit No **TP17**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337111.00 - 348028.02 Level: 36.18	Date 03/12/2024
Location: Wrexham		Dimensions (m): 2.9 × 0.75, Depth 3.00	Scale 1:25
Client: Net World Sports			Logged GF

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	35.88		MADE GROUND: Dark brown, silty CLAY with rare rootlets. (TOPSOIL). MADE GROUND
				0.60	35.58		MADE GROUND: Light brown, slightly silty, slightly gravelly, fine to coarse SAND. Gravel is subangular to subrounded, medium to coarse of mudstone and quartz. MADE GROUND
	0.90	ES		1.10	35.08		MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with organic odour. Gravel is subrounded to rounded, mudstone, and plastic. MADE GROUND
				1.55	34.63		MADE GROUND: Dark grey, silty, angular to rounded cobbles of brick, china and tile. MADE GROUND
	1.60	ES					Dark brown fibrous PEAT
	2.00	ES					*Branch encountered at 2.00m bgl*
	2.20	ES		2.10	34.08		Very soft, greyish brown organic clayey SILT
			HVR=4 HVR=18 HVR=10	3.00	33.18		End of pit at 3.00 m

Remarks: 1) No groundwater encountered 2) Terminated at target depth 3) Backfilled with arisings

Stability: Stable

Trial Pit Log

Trialpit No **TP18**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336862.42 - 347974.53 Level: 39.42	Date 03/12/2024
Location: Wrexham		Dimensions (m): 2.2 × 0.6, Depth 3.00	Scale 1:25
Client: Net World Sports			Logged JL

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	39.12		MADE GROUND: Dark brown, silty CLAY with rare rootlets. MADE GROUND
	0.50	B					MADE GROUND: Light reddish brown, silty, fine to medium SAND. MADE GROUND
▼				0.80	38.62		MADE GROUND: Light brown, slightly silty, slightly clayey, fine to medium, sandy, subrounded to subangular GRAVEL of mudstone and quartzite. MADE GROUND
	1.50 1.50	B ES		1.50	37.92		MADE GROUND: Light yellowish brown, slightly silty, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded, fine to coarse of quartzite and mudstone. MADE GROUND
				2.00	37.42		MADE GROUND: Dark brown, slightly gravelly, slightly clayey SAND with organic odour. MADE GROUND
	2.20	B	HVR=16 HVR=14 HVR=15	2.50	36.92		Dark brown fibrous PEAT
	2.80	ES		2.70	36.72		Soft, dark greyish brown CLAY with organic odour.
				3.00	36.42		End of pit at 3.00 m

Remarks: 1) Groundwater encountered at 1.10m bgl as slow ingress 2) Terminated at target depth 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings.

Stability: Unstable at 0.70m to 1.60m bgl

Borehole Log

Borehole No. **WS01**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336945.19 - 347738.42	Hole Type WS
Location: Wrexham		Level: 41.88	Scale 1:25
Client: Net World Sports		Dates: 04/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.00 - 0.30	ES		0.30	41.58		Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone TOPSOIL
		1.20 1.20	SPTL S	N=9 (3,2/2,2,2,3)				Loose, light brown, slightly silty, very clayey, fine to medium SAND. TILL
	▼				1.70	40.18		
		2.00 2.00	SPTL S	N=8 (1,1/1,2,2,3)				Loose. dark brown, slightly silty, very clayey, gravelly, fine to coarse SAND. Gravel is subrounded to subangular, fine to medium of sandstone, mudstone, quartz and flint. TILL
					2.30	39.58		
		3.00 3.00	SPTL S	N=50 (5,8/50 for 275mm)				Very dense, dark brown, slightly silty, very clayey, sandy, fine to medium, subangular to subrounded GRAVEL of mudstone, flint and quartz. TILL
					3.40	38.48		End of borehole at 3.40 m

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 1.80m bgl 3) Terminated on SPT refusal 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings.

Borehole Log

Borehole No. **WS02**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337031.71 - 347687.21	Hole Type WS
Location: Wrexham		Level: 44.67	Scale 1:25
Client: Net World Sports		Dates: 04/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.00 - 0.35	ES					Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone TOPSOIL
					0.35	44.32		Light brown, slightly gravelly, very clayey SAND. Sand is fine to coarse, gravel is fine to medium, subrounded of quartzite and mudstone. TILL
					0.60	44.07		Firm to stiff, orangish brown CLAY with frequent lenses of grey SILT. TILL
		1.20 1.20	SPTL S	N=17 (4,4/4,4,4,5)				
		2.00 2.00	SPTL S	N=20 (4,4/4,4,5,7)				
		3.00 3.00	SPTL S	N=22 (4,4/4,5,6,7)				
					3.60	41.07		Stiff, greyish brown, slightly silty CLAY TILL
		4.00 4.00	SPTL S	N=23 (4,4/5,5,6,7)				
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS02**

Sheet 2 of 2

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	337031.71 - 347687.21	Hole Type WS
Location:	Wrexham		Level:	44.67	Scale 1:25
Client:	Net World Sports		Dates:	04/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=23 (4,4/5,6,6,6)	5.45	39.22		End of borehole at 5.45 m

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS03**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337096.88 - 347726.73	Hole Type WS
Location: Wrexham		Level: 44.47	Scale 1:25
Client: Net World Sports		Dates: 04/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.00 - 0.30	ES		0.30	44.17		Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone TOPSOIL
		1.20 1.20	SPTL S	N=14 (2,4/3,4,3,3,4)	0.60	43.87		Light brown, slightly gravelly, very clayey SAND. Sand is fine to coarse, gravel is fine to medium subrounded to quartzite and mudstone. TILL
		2.00 2.00	SPTL S	N=19 (3,3/4,4,5,6)				Firm to stiff, orangish brown CLAY with frequent lenses of grey SILT. TILL
		3.00 3.00	SPTL S	N=16 (3,3/3,4,4,5)	2.90	41.57		Stiff, grey, mottled orange, clayey SILT. TILL
		4.00 4.00	SPTL S	N=15 (2,3/3,3,4,5)	3.80	40.67		Stiff, orangish brown, mottled grey CLAY TILL
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Installed and backfilled.

Borehole Log

Borehole No. **WS03**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337096.88 - 347726.73	Hole Type WS
Location: Wrexham		Level: 44.47	Scale 1:25
Client: Net World Sports		Dates: 04/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=17 (3,4/4,4,4,4,5)	5.45	39.02		End of borehole at 5.45 m

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Installed and backfilled.

Borehole Log

Borehole No. **WS04**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336776.23 - 347855.10	Hole Type WS
Location: Wrexham		Level: 41.26	Scale 1:25
Client: Net World Sports		Dates: 06/12/2024 -	Logged By GF

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.25	41.01		Dark brown, slightly gravelly, slightly sandy, silty CLAY with occasional rootlets. Sand is fine to coarse. Gravel is subrounded, fine to medium of quartzite. (TOPSOIL) TOPSOIL
								Orangish brown, slightly silty, gravelly, very clayey, fine to coarse SAND. Gravel is subrounded, fine to coarse of quartzite. TILL
					0.80	40.46		Soft, reddish brown, very silty CLAY. TILL
		1.20 1.20	SPTL S	N=7 (1,2/2,2,1,2)				
		2.00 2.00 2.00	D SPTL S	N=15 (3,3/4,4,3,4)				*Becoming firm to stiff at 2.00m*
				HVR=54				*Becoming grey at 2.50m*
				HVR=38				*Becoming soft to firm at 2.90m*
		3.00 3.00	SPTL S	N=8 (1,2/2,2,2,2)				
				HVR=20				
				HVR=4				
		4.00 4.00	SPTL S	N=9 (1,2/2,3,2,2)				
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m 2) No groundwater encountered 3) Terminated at target depth 4) Cased to 1.00m 5) No visual or olfactory evidence of contamination.

Borehole Log

Borehole No. **WS04**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336776.23 - 347855.10	Hole Type WS
Location: Wrexham		Level: 41.26	Scale 1:25
Client: Net World Sports		Dates: 06/12/2024 -	Logged By GF

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=9 (2,2/2,3,2,2)	5.45	35.81		End of borehole at 5.45 m

6

7

8

9

10

Remarks

1) Hand dug pit to 1.20m 2) No groundwater encountered 3) Terminated at target depth 4) Cased to 1.00m 5) No visual or olfactory evidence of contamination.

Borehole Log

Borehole No. **WS05**

Sheet 1 of 1

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336963.70 - 347911.35	Hole Type WS
Location: Wrexham		Level: 39.30	Scale 1:25
Client: Net World Sports		Dates: 03/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.00 - 0.30	ES					Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite, brick, plastic and sandstone TOPSOIL
					0.30	39.00		Orangish brown, clayey, gravelly SAND. Sand is fine to medium, gravel is fine to coarse subangular to subrounded of sandstone, quartzite and mudstone. TILL
					0.60	38.70		Loose, light grey, mottled orange, sandy, slightly gravelly SILT. Sand is fine, gravel is fine to medium, subangular of sandstone. TILL
		1.20 1.20	SPTL S	N=10 (2,2/3,2,2,3)				
					1.70	37.60		Loose, orangish brown, slightly clayey SAND. Sand is fine to coarse. TILL
		2.00 2.00	SPTL S	N=8 (3,2/1,2,3,2)				
		3.00 3.00	SPTL S	N=11 (2,3/3,2,3,3)	3.00	36.30		Medium dense, orangish brown, clayey, gravelly SAND. Sand is fine to coarse, gravel is fine to coarse, subangular to well rounded of quartzite, sandstone and mudstone. TILL
		4.00 4.00	SPTL S	N=14 (2,2/3,3,4,4)				
					4.45	34.85		End of borehole at 4.45 m

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 1.70m bgl 3) Terminated due to sand and gravel 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m bgl 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS06**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337110.23 - 347891.78	Hole Type WS
Location: Wrexham		Level: 39.67	Scale 1:25
Client: Net World Sports		Dates: 03/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.00 - 0.30	ES		0.30	39.37		Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone. TOPSOIL
					0.90	38.77		Orangish brown, clayey, gravelly SAND. Sand is fine to medium, gravel is fine to coarse subangular to subrounded of sandstone, quartzite and mudstone. TILL
		1.20 1.20	SPTL S	N=8 (2,2/2,2,2,2)	1.20	38.47		Soft, orangish brown, mottled grey CLAY. TILL
		2.00 2.00	SPTL S	N=18 (4,3/3,4,5,6)				Soft to stiff, orangish brown CLAY with frequent lenses of grey SILT. TILL
		3.00 3.00	SPTL S	N=11 (2,2/2,3,3,3)	3.20	36.47		Medium dense, grey, slightly clayey SILT TILL
		4.00 4.00	SPTL S	N=9 (2,2/2,2,2,3)	4.10	35.57		Firm, greyish brown, slightly silty CLAY TILL
		5.00		N=14 (2,3/3,3,4,4)				Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Terminated at target depth 3) No visual or olfactory evidence of contamination 4) Installed and backfilled 5) Cased to 2.00m

Borehole Log

Borehole No. **WS06**

Sheet 2 of 2

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	337110.23 - 347891.78	Hole Type WS
Location:	Wrexham		Level:	39.67	Scale 1:25
Client:	Net World Sports		Dates:	03/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					5.45	34.22		End of borehole at 5.45 m

Remarks

1) Hand dug pit to 1.20m bgl 2) Terminated at target depth 3) No visual or olfactory evidence of contamination 4) Installed and backfilled 5) Cased to 2.00m

Borehole Log

Borehole No. **WS07**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337036.30 - 347960.47	Hole Type WS
Location: Wrexham		Level: 37.87	Scale 1:25
Client: Net World Sports		Dates: 03/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.00 - 0.30	ES					Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone. (TOPSOIL)
					0.30	37.57		TOPSOIL
								Soft to firm, orangish brown, clayey, gravelly SAND. Sand is fine to medium, gravel is fine to coarse subangular to subrounded of sandstone, quartzite and mudstone. TILL
	▼	1.20 1.20	SPTL S	N=11 (2,2/2,2,3,4)				
					1.40	36.47		Soft to firm, orangish brown CLAY with frequent lenses of grey SILT. TILL
		2.00 2.00	SPTL S	N=12 (2,2/3,3,3,3)				
		3.00 3.00	SPTL S	N=7 (1,1/1,2,2,2)				
					3.80	34.07		Loose, grey, slightly clayey SILT TILL
		4.00 4.00	SPTL S	N=8 (1,2/1,2,2,3)				
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 1.30m bgl 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings

Borehole Log

Borehole No. **WS07**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337036.30 - 347960.47	Hole Type WS
Location: Wrexham		Level: 37.87	Scale 1:25
Client: Net World Sports		Dates: 03/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=8 (1,1/2,2,2,2)	5.45	32.42		End of borehole at 5.45 m

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 1.30m bgl 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings

Borehole Log

Borehole No. **WS08**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336786.75 - 348035.19	Hole Type WS
Location: Wrexham		Level: 39.75	Scale 1:25
Client: Net World Sports		Dates: 06/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.00 - 0.30	ES		0.30	39.45		Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone TOPSOIL
					0.85	38.90		Orangish brown slightly gravelly, very clayey SAND with moderate cobble content. Sand is fine to medium, gravel is fine to coarse, subangular to subrounded of quartzite, sandstone and mudstone. Cobble is subangular of quartzite. TILL
		1.20 1.20	SPTL S	N=6 (3,2/1,2,2,1)				Soft to firm, orangish brown, mottled grey, very silty CLAY TILL
		2.00 2.00	SPTL S	N=9 (3,3/2,2,2,3)				
		3.00 3.00	SPTL S	N=6 (1,1/2,1,1,2)				
		4.00 4.00	SPTL S	N=10 (2,2/3,2,3,2)	3.80	35.95		Soft to firm, light grey, slightly silty CLAY TILL
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 5.00m bgl 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m

Borehole Log

Borehole No. **WS08**

Sheet 2 of 2

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	336786.75 - 348035.19	Hole Type WS
Location:	Wrexham		Level:	39.75	Scale 1:25
Client:	Net World Sports		Dates:	06/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=6 (1,1/2,2,1,1)	5.50	34.25		End of borehole at 5.50 m

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 5.00m bgl 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m

Borehole Log

Borehole No. **WS09**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336897.51 - 348087.67	Hole Type WS
Location: Wrexham		Level: 37.41	Scale 1:25
Client: Net World Sports		Dates: 09/12/2024 -	Logged By GF

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.25	37.16		Dark brown, slightly gravelly, slightly sandy, silty CLAY with occasional rootlets. Sand is fine to coarse. Gravel is subrounded, fine to medium of quartzite. (TOPSOIL) TOPSOIL
								Reddish brown, slightly gravelly, very clayey, fine to coarse SAND. Gravel is subrounded, fine to medium of quartzite. TILL
					1.00	36.41		Firm grey, mottled reddish brown silty CLAY TILL
		1.20 1.20	SPTL S	N=9 (1,1/1,2,3,3)				*Becoming grey mottled yellowish brown at 1.20m*
		1.50	D	HVR=40				
		2.00 2.00	SPTL S	N=11 (2,2/2,3,3,3)				*Becoming very silty at 1.90m*
								Becoming brown at 2.30m
		3.00 3.00	SPTL S	N=9 (1,2/2,2,2,3) HVR=50				
		4.00 4.00	SPTL S	N=11 (2,2/3,3,2,3)				
								Continued on next sheet

1 2 3 4 5

Remarks

1) Hand dug pit to 1.20m 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m

Borehole Log

Borehole No. **WS09**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336897.51 - 348087.67	Hole Type WS
Location: Wrexham		Level: 37.41	Scale 1:25
Client: Net World Sports		Dates: 09/12/2024 -	Logged By GF

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=10 (3,2/2,3,2,2,3)	5.45	31.96		End of borehole at 5.45 m

Remarks

1) Hand dug pit to 1.20m 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m

Borehole Log

Borehole No. **WS10**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336778.67 - 348160.23	Hole Type WS
Location: Wrexham		Level: 37.35	Scale 1:25
Client: Net World Sports		Dates: 09/12/2024 -	Logged By GF

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.30	37.05		Dark brown, slightly gravelly, slightly sandy, silty CLAY with occasional rootlets. Sand is fine to coarse. Gravel is subrounded, fine to medium of quartzite. (TOPSOIL) TOPSOIL
		1.20 1.20	SPTL S	N=11 (2,3/2,3,3,3)				Soft to firm, orangish brown, slightly gravelly, very sandy CLAY. Sand is fine to coarse. Gravel is subangular, fine to coarse of limestone and quartzite. TILL
		1.60	D		1.40	35.95		Firm, reddish brown mottled grey, very silty CLAY TILL *Becoming brown at 1.60m*
		2.00 2.00	SPTL S	N=14 (3,3/3,4,3,4)				
				HVR=50				
		3.00 3.00	SPTL S	HVR=58 N=8 (1,1/2,2,2,2)				*Becoming soft at 3.00m*
▼		4.00 4.00	SPTL S	HVR=28 N=6 (1,1/2,1,2,1)	4.00	33.35		Soft, brown, slightly sandy, slightly clayey SILT. Sand is fine. TILL
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 3.60m 3) Terminated at target depth. 4) No visual or olfactory evidence of contamination 5) Cased to 1.00m 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS10**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336778.67 - 348160.23	Hole Type WS
Location: Wrexham		Level: 37.35	Scale 1:25
Client: Net World Sports		Dates: 09/12/2024 -	Logged By GF

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=12 (1,2/3,3,3,3)				*Becoming firm at 5.00m*
					5.45	31.90		End of borehole at 5.45 m

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 3.60m 3) Terminated at target depth. 4) No visual or olfactory evidence of contamination 5) Cased to 1.00m 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS11**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336854.72 - 348243.41	Hole Type WS
Location: Wrexham		Level: 35.71	Scale 1:25
Client: Net World Sports		Dates: 02/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.00 - 0.30	ES		0.30	35.41		Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone TOPSOIL
		1.20 1.20	SPTL S	N=11 (3,2/3,2,3,3)				Medium dense, orangish brown, slightly sandy, clayey GRAVEL. Sand is fine to coarse, gravel is fine to coarse, subangular to angular of sandstone, mudstone and quartzite. TILL
		2.20 2.20	SPTL S	N=12 (3,2/3,3,3,3)	1.40	34.31		Firm, orangish brown CLAY TILL
		3.20 3.20	SPTL S	N=6 (1,1/1,1,2,2)	2.50	33.21		Soft to firm, orangish brown SILT TILL
		4.20 4.20	SPTL S	N=8 (2,2/2,2,2,2)				
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 3.50m bgl 3) Terminated at target depth 4) No visual or olfactory evidence of contamination. 5) Backfilled with arisings.

Borehole Log

Borehole No. **WS11**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336854.72 - 348243.41	Hole Type WS
Location: Wrexham		Level: 35.71	Scale 1:25
Client: Net World Sports		Dates: 02/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.20 5.20	SPTL S	N=10 (2,2/2,2,3,3)	5.50	30.21		End of borehole at 5.50 m

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 3.50m bgl 3) Terminated at target depth 4) No visual or olfactory evidence of contamination. 5) Backfilled with arisings.

Borehole Log

Borehole No. **WS12**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336897.43 - 348244.77	Hole Type WS
Location: Wrexham		Level: 35.24	Scale 1:25
Client: Net World Sports		Dates: 02/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.00 - 0.35	ES		0.35	34.89		Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone TOPSOIL
		1.20 1.20	SPTL S	N=12 (2,2/2,3,3,4)				Medium dense, orangish brown, slightly sandy, clayey GRAVEL. Sand is fine to coarse, gravel is fine to coarse, subangular to angular of sandstone, mudstone and quartzite. TILL
		2.00 2.00	SPTL S	N=14 (3,4/4,4,3,3)	1.70	33.54		Soft to firm, orangish brown CLAY TILL
	▼	3.00 3.00	SPTL S	N=6 (1,1/2,1,2,1)	3.60	31.64		Soft to firm, orangish brown SILT TILL
		4.00 4.00	SPTL S	N=8 (1,1/2,2,2,2)				
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 3.60m 3) Terminated at target depth 4) Installed and backfilled. 5) Cased to 2.00m bgl 6) Unstable, silt infilling borehole from 3.80m bgl.

Borehole Log

Borehole No. **WS12**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336897.43 - 348244.77	Hole Type WS
Location: Wrexham		Level: 35.24	Scale 1:25
Client: Net World Sports		Dates: 02/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=9 (1,1/2,2,2,3)	5.50	29.74		End of borehole at 5.50 m

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 3.60m 3) Terminated at target depth 4) Installed and backfilled. 5) Cased to 2.00m bgl 6) Unstable, silt infilling borehole from 3.80m bgl.

Borehole Log

Borehole No. **WS13**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336972.71 - 348186.20	Hole Type WS
Location: Wrexham		Level: 35.25	Scale 1:25
Client: Net World Sports		Dates: 02/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.00 - 0.30	ES					Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone TOPSOIL
					0.30	34.94		Soft to firm, orangish brown, slightly sandy, very gravelly CLAY. Sand is fine to coarse, gravel is fine to coarse, subangular to subrounded of sandstone, mudstone and quartzite. TILL
		1.20 1.20	SPTL S	N=12 (2,2/3,3,3,3)				
					1.60	33.65		Firm, orangish brown CLAY TILL
		2.00 2.00	SPTL S	N=11 (2,2/2,3,3,3)				
					2.20	33.04		Soft, orangish brown, mottled grey CLAY with frequent lenses of silt. TILL
		3.00 3.00	SPTL S	N=7 (1,1/1,2,2,2)				
		4.00 4.00	SPTL S	N=9 (2,2/2,2,2,3)				
					4.20	31.04		Firm, orangish brown SILT TILL
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination. 5) Backfilled with arisings. 6) Cased to 2.00m bgl

Borehole Log

Borehole No. **WS13**

Sheet 2 of 2

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	336972.71 - 348186.20	Hole Type WS
Location:	Wrexham		Level:	35.25	Scale 1:25
Client:	Net World Sports		Dates:	02/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=14 (2,3/3,3,4,4)	5.45	29.80		End of borehole at 5.45 m

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination. 5) Backfilled with arisings. 6) Cased to 2.00m bgl

Borehole Log

Borehole No. **WS14**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337014.88 - 348184.36	Hole Type WS
Location: Wrexham		Level: 35.04	Scale 1:25
Client: Net World Sports		Dates: 02/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.00 - 0.30	ES					Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone TOPSOIL
					0.30	34.74		Soft to firm, orangish brown, slightly sandy, very gravelly CLAY. Sand is fine to coarse, gravel is fine to coarse, subangular to subrounded of sandstone, mudstone and quartzite. TILL
					0.90	34.14		Soft, orangish brown, mottled grey CLAY with frequent lenses of silt. TILL
		1.20 1.20	SPTL S	N=10 (1,2/2,2,3,3)				
		2.00 2.00	SPTL S	N=7 (2,1/1,2,2,2)				
		3.00 3.00	SPTL S	N=5 (1,1/1,1,1,2)	3.00	32.04		Soft orangish brown SILT TILL
		4.00 4.00	SPTL S	N=6 (1,1/2,1,2,1)				
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m bgl 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS14**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337014.88 - 348184.36	Hole Type WS
Location: Wrexham		Level: 35.04	Scale 1:25
Client: Net World Sports		Dates: 02/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=6 (1,1/2,1,1,2)	5.50	29.54		End of borehole at 5.50 m

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m bgl 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS15**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337006.35 - 348152.27	Hole Type WS
Location: Wrexham		Level: 35.49	Scale 1:25
Client: Net World Sports		Dates: 02/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.00 - 0.40	ES					Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone TOPSOIL
					0.40	35.08		Soft, orangish brown, slightly sandy, very gravelly CLAY. Sand is fine to coarse, gravel is fine to coarse, subangular to subrounded of sandstone, mudstone and quartzite. TILL
					0.70	34.78		Soft to firm, orangish brown, mottled grey CLAY with frequent lenses of silt. TILL
		1.20 1.20	SPTL S	N=11 (2,2/3,3,2,3)				
					1.60	33.88		Soft to firm, orangish brown SILT TILL
		2.00 2.00	SPTL S	N=9 (1,2/2,2,3,2)				
		3.00 3.00	SPTL S	N=6 (1,1/2,1,2,1)				
		4.00 4.00	SPTL S	N=6 (1,1/2,1,2,1)				
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS15**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337006.35 - 348152.27	Hole Type WS
Location: Wrexham		Level: 35.49	Scale 1:25
Client: Net World Sports		Dates: 02/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=7 (1,2/1,2,2,2)	5.45	30.04		End of borehole at 5.45 m

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS16**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337038.54 - 348149.55	Hole Type WS
Location: Wrexham		Level: 35.34	Scale 1:25
Client: Net World Sports		Dates: 03/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.00 - 0.30	ES		0.30	35.04		Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone TOPSOIL
		1.20 1.20	SPTL S	N=11 (3,2/2,3,3,3)	1.20	34.14		Orangish brown, clayey, gravelly SAND. Sand is fine to medium, gravel is fine to coarse, subangular to subrounded of sandstone, quartzite and mudstone. TILL
		2.00 2.00	SPTL S	N=11 (2,1/2,3,3,3)	2.30	33.04		Firm, orangish brown, mottled grey CLAY with frequent lenses of silt. TILL
	▼	3.00 3.00	SPTL S	N=10 (2,2/2,2,3,3)	4.40	30.94		Firm, orangish brown SILT TILL
		4.00 4.00	SPTL S	N=10 (2,2/2,2,3,3)				Soft, orangish brown, mottled grey CLAY with frequent lenses of silt. TILL
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 3.00m bgl 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS16**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337038.54 - 348149.55	Hole Type WS
Location: Wrexham		Level: 35.34	Scale 1:25
Client: Net World Sports		Dates: 03/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=5 (1,1/1,1,2,2,1)				
					5.45	29.89		End of borehole at 5.45 m

6

7

8

9

10

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 3.00m bgl 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS17**

Sheet 1 of 2

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	337093.53 - 348114.20	Hole Type WS
Location:	Wrexham		Level:	35.33	Scale 1:25
Client:	Net World Sports		Dates:	03/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.40	34.93		Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone TOPSOIL
		1.20 1.20	SPTL S	N=13 (2,1/2,4,4,3)				Medium dense, orangish brown, clayey, gravelly SAND. Sand is fine to medium, gravel is fine to coarse, subangular to subrounded of sandstone, quartzite and mudstone. TILL
		2.00 2.00	SPTL S	N=15 (9,3/3,4,4,4)				
	▼				2.80	32.53		Soft to firm, orangish brown SILT TILL
	▽	3.00 3.00	SPTL S	N=9 (1,2/2,2,2,3)				
		4.00 4.00	SPTL S	N=9 (1,2/2,2,2,3)				
								Continued on next sheet

1 2 3 4 5

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 3.00m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings. 7) Poor recovery between 1.20m and 2.00m due to suspected cobble being pushed down.

Borehole Log

Borehole No. **WS17**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337093.53 - 348114.20	Hole Type WS
Location: Wrexham		Level: 35.33	Scale 1:25
Client: Net World Sports		Dates: 03/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=10 (2,2/2,3,2,3)	5.45	29.88		End of borehole at 5.45 m

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 3.00m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings. 7) Poor recovery between 1.20m and 2.00m due to suspected cobble being pushed down.

Borehole Log

Borehole No. **WS18**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337095.33 - 348035.88	Hole Type WS
Location: Wrexham		Level: 36.40	Scale 1:25
Client: Net World Sports		Dates: 03/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.35	36.05		Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone TOPSOIL
					0.70	35.70		Soft, orangish brown, slightly sandy, very gravelly CLAY. Sand is fine to coarse, gravel is fine to coarse, subangular to subrounded of sandstone, mudstone and quartzite. TILL
		1.20 1.20	SPTL S	N=14 (2,2/3,3,4,4)				Soft to firm, orangish brown, mottled grey CLAY TILL
		2.00 2.00	SPTL S	N=15 (3,3/3,3,4,5)				
					2.30	34.10		Firm, orangish brown, mottled grey CLAY with frequent lenses of silt. TILL
		3.00 3.00	SPTL S	N=14 (2,3/3,3,4,4)				
					3.85	32.55		Firm, grey, mottled orange SILT TILL
		4.00		N=10 (2,2/2,2,3,3)				
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS18**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337095.33 - 348035.88	Hole Type WS
Location: Wrexham		Level: 36.40	Scale 1:25
Client: Net World Sports		Dates: 03/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=11 (2,2/2,2,3,4)	5.45	30.95		End of borehole at 5.45 m

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS19**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336937.23 - 347816.45	Hole Type WS
Location: Wrexham		Level: 40.37	Scale 1:25
Client: Net World Sports		Dates: 04/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.30	40.07		Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone. (TOPSOIL). TOPSOIL
		1.20 1.20	SPTL S	N=11 (2,2/3,2,3,3)				Medium dense, light brown, slightly silty, very clayey, fine to medium SAND. TILL
	▼				1.80	38.57		
		2.00 2.00	SPTL S	N=10 (2,2/2,2,3,3)				Medium dense, dark brown, slightly silty, very clayey, gravelly, fine to coarse SAND. Gravel os subrounded to subangular, fine to medium of sandstone, mudstone, quartz and flint. TILL
					2.40	37.97		Soft orangish brown, mottled grey CLAY TILL
		3.00 3.00	SPTL S	N=8 (2,1/2,2,2,2)				
		4.00 4.00	SPTL S	N=7 (1,2/1,2,2,2)				
		4.49 4.49	SPTL S	N=7 (2,2/2,2,1,2)				
		4.90 4.90	SPTL S	N=8 (2,2/2,2,2,2)				
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 1.80m bgl 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings. 7) Poor recovery between 1.80m and 5.50m due to sand infilling.

Borehole Log

Borehole No. **WS19**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336937.23 - 347816.45	Hole Type WS
Location: Wrexham		Level: 40.37	Scale 1:25
Client: Net World Sports		Dates: 04/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					5.50	34.87		End of borehole at 5.50 m

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 1.80m bgl 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings. 7) Poor recovery between 1.80m and 5.50m due to sand infilling.

Borehole Log

Borehole No. **WS20**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337172.37 - 347796.47	Hole Type WS
Location: Wrexham		Level: 44.02	Scale 1:25
Client: Net World Sports		Dates: 04/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.25	43.77		Dark brown, slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is fine to medium, subangular to subrounded of quartzite and sandstone TOPSOIL
		1.20 1.20	SPTL S	N=10 (1,2/2,2,3,3)				Loose, orangish brown, slightly clayey SAND. Sand is fine to coarse. TILL
	▼				1.80	42.22		Firm, orangish brown, mottled grey CLAY TILL
		2.00 2.00	SPTL S	N=15 (3,3/3,3,4,5)				
		3.00 3.00	SPTL S	N=13 (2,3/3,3,3,4)				
		4.00 4.00	SPTL S	N=9 (1,2/2,2,2,3)				
								Continued on next sheet

1 2 3 4 5

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 1.80m bgl 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS20**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 337172.37 - 347796.47	Hole Type WS
Location: Wrexham		Level: 44.02	Scale 1:25
Client: Net World Sports		Dates: 04/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=9 (2,2/2,2,2,3)	5.50	38.52		End of borehole at 5.50 m

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 1.80m bgl 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 2.00m 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS21**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336835.67 - 347776.33	Hole Type WS
Location: Wrexham		Level: 41.24	Scale 1:25
Client: Net World Sports		Dates: 06/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.25	40.99		Dark brown, slightly gravelly, slightly sandy, silty CLAY with occasional rootlets. Sand is fine to coarse. Gravel is subrounded, fine to medium of quartzite. (TOPOSIL). TOPSOIL
		1.20 1.20	SPTL S	N=6 (2,2/1,1,2,2)	1.20	40.04		Orangish brown, slightly silty, gravelly, very clayey, fine to coarse SAND. Gravel is subrounded, fine to coarse of quartz. TILL
		2.00 2.00 2.00	D SPTL S	N=18 (4,4/4,4,5,5)	1.90	39.34		Stiff becoming firm, reddish brown, very silty CLAY. TILL *Becoming grey at 2.20m*
				HVR=52				
		3.00 3.00	SPTL S	N=9 (2,2/2,2,3,2)				*Becoming firm at 3.00m*
				HVR=44				
		4.00 4.00	SPTL S	N=14 (3,3/4,3,3,4)				
				HVR=47				
								Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.00m 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS21**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336835.67 - 347776.33	Hole Type WS
Location: Wrexham		Level: 41.24	Scale 1:25
Client: Net World Sports		Dates: 06/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					5.45	35.79		End of borehole at 5.45 m

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater encountered 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Cased to 1.00m 6) Backfilled with arisings.

Borehole Log

Borehole No. **WS22**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336820.54 - 347886.07	Hole Type WS
Location: Wrexham		Level: 40.57	Scale 1:25
Client: Net World Sports		Dates: 06/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.25	40.32		Dark brown, slightly gravelly, slightly sandy, silty CLAY with occasional rootlets. Sand is fine to coarse. Gravel is subrounded, fine to medium of quartz. (TOPSOIL). TOPSOIL
		1.20 1.20	SPTL S	N=8 (1,2/2,2,2,2)	1.00	39.57		Orangish brown, slightly silty, gravelly, very clayey fine to coarse SAND. Gravel is subrounded, fine to coarse of quartz. TILL
					1.40	39.17		Soft to firm, grey, red, orangish brown and greenish grey slightly gravelly, sandy CLAY. Sand is fine to coarse, gravel is subangular to subrounded, fine to medium of quartz. TILL
		1.90	D	HVR=95	1.80	38.77		Grey, slightly gravelly, fine to coarse SAND. Gravel is rounded to subrounded, fine to coarse of quartz. TILL
		2.00 2.00	SPTL S	N=18 (4,4/4,4,4,6)				Stiff becoming soft, reddish brown, very silty CLAY TILL
								Becoming grey at 2.50m
		3.00 3.00	SPTL S	N=6 (1,2/1,2,1,2)				*Becoming soft at 3.00m*
		4.00 4.00	SPTL S	N=6 (1,2/2,1,1,2)				
				HVR=26				
								Continued on next sheet

Remarks

1) Groundwater encountered at 3.00m and 5.00m 2) Terminated at target depth 3) No visual or olfactory evidence of contamination 4) Cased to 1.00m 5) Backfilled with arisings.

Borehole Log

Borehole No. **WS22**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336820.54 - 347886.07	Hole Type WS
Location: Wrexham		Level: 40.57	Scale 1:25
Client: Net World Sports		Dates: 06/12/2024 -	Logged By AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=5 (1,2/1,2,1,1)	5.45	35.12		End of borehole at 5.45 m

Remarks

1) Groundwater encountered at 3.00m and 5.00m 2) Terminated at target depth 3) No visual or olfactory evidence of contamination 4) Cased to 1.00m 5) Backfilled with arisings.

Borehole Log

Borehole No. **WS23**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336904.92 - 347955.99	Hole Type WS
Location: Wrexham		Level: 39.63	Scale 1:25
Client: Net World Sports		Dates: 09/12/2024 -	Logged By GF

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.30	39.33		Dark brown, slightly gravelly, slightly sandy, silty CLAY with occasional rootlets. Sand is fine to coarse. Gravel is subrounded, fine to medium of quartzite. (TOPSOIL). TOPSOIL
		1.20 1.20	SPTL S	N=9 (2,2/2,2,2,3)	1.80	37.83		Loose, reddish brown, slightly gravelly, very clayey, fine to coarse SAND. Gravel is subrounded, fine to medium of quartzite. TILL
		2.00 2.00 2.00	D SPTL S	N=23 (3,3/5,5,6,7)	2.00	37.63		Stiff becoming firm, reddish brown, slightly gravelly, very sandy CLAY. Sand is fine to coarse, gravel is subrounded, fine to medium of quartzite. TILL
		2.70 2.70	SPTL S	N=15 (3,3/4,4,3,4)				Stiff, reddish brown, silty CLAY. Subangular cobble of limestone at 2.10m (70mm x 50mm x 45mm) TILL
								Becoming grey at 3.50m
		3.80 3.80	SPTL S	N=12 (2,2/2,3,3,4)				*Becoming firm at 3.80m*
		4.90 4.90	SPTL S	N=15 (3,3/3,4,4,4)				Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 5.30m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings. 6) Cased to 1.00m

Borehole Log

Borehole No. **WS23**

Sheet 2 of 2

Project Name:	Plot 2 Marchwiel	Project No. TE1890	Co-ords:	336904.92 - 347955.99	Hole Type WS
Location:	Wrexham		Level:	39.63	Scale 1:25
Client:	Net World Sports		Dates:	09/12/2024 -	Logged By GF

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
	▼				5.45	34.18		End of borehole at 5.45 m

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater encountered at 5.30m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings. 6) Cased to 1.00m

Borehole Log

Borehole No. **WS24**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336842.04 - 348149.68	Hole Type WS
Location: Wrexham		Level: 37.01	Scale 1:25
Client: Net World Sports		Dates: 09/12/2024 -	Logged By GF

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.25	36.76		Dark brown, slightly gravelly, slightly sandy, silty CLAY with occasional rootlets. Sand is fine to coarse. Gravel is subrounded, fine to medium of quartzite. (TOPSOIL). TOPSOIL
					0.60	36.41		Orangish brown, slightly gravelly, fine to coarse SAND. Gravel is subrounded, fine to medium SANDSTONE TILL
								Yellowish brown, slightly gravelly, silty, very clayey, fine to coarse SAND. gravel is subrounded, fine to medium of sandstone. TILL
		1.20 1.20	SPTL S	N=11 (2,3/3,3,2,3)	1.20	35.81		Firm, grey mottled reddish brown, silty CLAY TILL
		1.70	D					
		2.00 2.00	SPTL S	N=12 (2,2/2,3,3,4)				*Becoming brown and very silty at 2.00m*
		3.00 3.00	SPTL S	N=9 (1,1/2,2,2,3)				
		4.00 4.00	SPTL S	N=4 (1,1/1,1,1,1)	4.00	33.01		Soft, brown, slightly sandy, slightly clayey SILT. Sand is fine. TILL
								Continued on next sheet

Remarks

1) Groundwater encountered at 4.00m bgl 2) Terminated at target depth 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings 5) Cased to 1.00m.

Borehole Log

Borehole No. **WS24**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336842.04 - 348149.68	Hole Type WS
Location: Wrexham		Level: 37.01	Scale 1:25
Client: Net World Sports		Dates: 09/12/2024 -	Logged By GF

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=6 (2,0/1,1,2,2)				
					5.45	31.56		End of borehole at 5.45 m

Remarks

1) Groundwater encountered at 4.00m bgl 2) Terminated at target depth 3) No visual or olfactory evidence of contamination 4) Backfilled with arisings 5) Cased to 1.00m.

Borehole Log

Borehole No. **WS25**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336957.16 - 348231.31	Hole Type WS
Location: Wrexham		Level: 34.81	Scale 1:25
Client: Net World Sports		Dates: 09/12/2024 -	Logged By GF

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.25	34.56		Dark brown, slightly gravelly, slightly sandy, silty CLAY with occasional rootlets. Sand is fine to coarse. Gravel is subrounded, fine to medium of quartzite. (TOPSOIL). TOPSOIL
					0.90	33.91		Reddish brown, clayey, gravelly, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse of quartzite and limestone. TILL
		1.20 1.20	SPTL S	N=11 (1,2/2,3,3,3)				Firm, grey mottled reddish brown, silty CLAY with occasional relict rootlets. TILL
		1.50	D					
		2.00 2.00	SPTL S	N=15 (3,3/3,4,4,4)	2.00	32.81		Firm to stiff, dark grey, clayey SILT with layering. TILL
		3.00 3.00	SPTL S	HVR=95 N=8 (1,2/2,2,2,2) HVR=79	3.05	31.76		Soft, reddish brown, very silty CLAY TILL
					3.80	31.01		Soft, reddish brown clayey SILT TILL
		4.00 4.00	SPTL S	N=8 (1,2/2,2,2,2)				
	▼							Continued on next sheet

Remarks

1) Hand dug pit to 1.20m bgl 2) groundwater encountered at 3.70m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings. 6) Cased to 1.00m

Borehole Log

Borehole No. **WS25**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336957.16 - 348231.31	Hole Type WS
Location: Wrexham		Level: 34.81	Scale 1:25
Client: Net World Sports		Dates: 09/12/2024 -	Logged By GF

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=9 (1,2/2,2,2,3)				*Becoming firm at 5.00m*
					5.45	29.36		End of borehole at 5.45 m

Remarks

1) Hand dug pit to 1.20m bgl 2) groundwater encountered at 3.70m 3) Terminated at target depth 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings. 6) Cased to 1.00m

Borehole Log

Borehole No. **WS26**

Sheet 1 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336948.02 - 348072.79	Hole Type WS
Location: Wrexham		Level: 37.08	Scale 1:25
Client: Net World Sports		Dates: 09/12/2024 -	Logged By GF

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.30	36.78		Dark brown, slightly gravelly, slightly sandy, silty CLAY with occasional rootlets. Sand is fine to coarse. Gravel is subrounded, fine to medium of quartzite. (TOPSOIL). TOPSOIL
	▼	1.20 1.20	SPTL S	N=11 (3,3/3,2,3,3)	1.20	35.88		Reddish brown, clayey, gravelly, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse of quartzite and limestone. TILL
		1.50	D					
		2.00 2.00	SPTL S	HVR=57 N=12 (2,3/3,2,3,4)	2.00	35.08		Firm, reddish brown, mottled grey, very silty CLAY. TILL
		3.00 3.00	SPTL S	N=12 (2,2/2,3,3,4)				Firm, dark grey, clayey SILT with layering TILL
		4.00 4.00	SPTL S	N=10 (2,1/2,2,3,3)	4.10	32.98		*Silt band at 4.00m to 4.10m* Firm, brown very silty CLAY TILL
								Continued on next sheet

1 2 3 4 5

Remarks

1) hand dug pit to 1.20m bgl 2) Groundwater encountered at 1.20m 3) Terminated at target depth 4) Backfilled with arisings 5) Cased to 1.00m.

Borehole Log

Borehole No. **WS26**

Sheet 2 of 2

Project Name: Plot 2 Marchwiel	Project No. TE1890	Co-ords: 336948.02 - 348072.79	Hole Type WS
Location: Wrexham		Level: 37.08	Scale 1:25
Client: Net World Sports		Dates: 09/12/2024 -	Logged By GF

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00 5.00	SPTL S	N=11 (1,2/2,2,3,4)	5.45	31.63		End of borehole at 5.45 m

Remarks

1) hand dug pit to 1.20m bgl 2) Groundwater encountered at 1.20m 3) Terminated at target depth 4) Backfilled with arisings 5) Cased to 1.00m.

Carter Jonas