



## Drainage Strategy

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Hanmer Arms, Hanmer

**Carlton Holdings Ltd**

MAN.244.002.HY.R.001.C



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### Hanmer Arms, Hanmer

|           |                                                            |
|-----------|------------------------------------------------------------|
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## Executive Summary

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This report presents a Drainage Strategy exercise for a proposed touring park development, located on land north of the Hanmer Arms, Hanmer.

The report has included an assessment of the surface water drainage requirements of the Site and details the flood risk and how this could be managed and mitigated to allow the Site to be developed in support of the planning application. The FRA has demonstrated the following:

- The 1.5ha wider Site comprises an agricultural land.
- The soils and geology indicate a low infiltration potential. It is assumed that drainage is primarily via overland flow, following the topography of the Site to the topographic low point (unnamed land drain). Infiltration-based SuDS should be utilised in the first instance however the infiltration potential suggests they would not be feasible on this Site (this would need confirming through soakaway testing).
- The unnamed land drain conveys flows just outside the northeast of the Site but within the wider land ownership.

The Drainage Strategy has considered the potential impact of the development on surface water runoff rates, given the increase in impermeable areas post-development. It has been demonstrated that surface water runoff will have a negligible increase, runoff will be managed through outfall to swale and, in turn, the unnamed land drain.

Foul water will discharge to the foul sewer within Hanmer Road to the south east of the Site.

The report demonstrates that the proposed development would be operated with minimal risk from flooding and would not increase flood risk elsewhere. The development should therefore not be precluded on the grounds of flood risk, as well as surface water and foul drainage.

## 1.0 Introduction

---

### 1.1 Background

- 1.1.1 Enzygo Ltd was commissioned by Carlton Holdings Ltd to carry out an Drainage Strategy for a touring park development located on land north of Hanmer Arms, Hanmer (the 'Site').

### 1.2 Purpose

- 1.2.1 The purpose of this report is to understand the baseline conditions and drainage issues, advise of additional works that may be required in support of the proposed development and identify potential constraints and opportunities when considering the wider development area.

- 1.2.2 Since initial submission correspondence from Wrexham County Borough Council (REF: HANP/3030/0100) conditioned:

*'No development shall commence until a foul water drainage scheme for the site has been submitted to and approved in writing by the local planning authority. The scheme shall provide for the disposal of foul water flows and thereafter implemented in accordance with the approved details prior to the occupation of the development.'*

- 1.2.3 This drainage strategy has been updated to address these comments.

### 1.3 Scope of Works

- 1.3.1 The scope of work includes:

- Site walkover to observe current land use, topography and drainage features.
- Undertake a desktop study of OS mapping, soils and geology map, borehole records and flood/catchment mapping.
- Review online drainage policy and guidance documents.
- Consult with the LLFA/SAB.
- Obtain Welsh Water asset plans [including manhole/invert levels and pipe sizes].
- Undertake a pre-development enquiry with Welsh Water if an outfall to sewer is pursued. The pre-development enquiry is required to agree a point of outfall and allowable discharge rate.
- Obtain catchment descriptors from the Flood Estimation Handbook [FEH] Web Service.
- Undertake an assessment of the potential surface water and foul drainage from the proposed development that will aim to identify: an appropriate discharge rate; discharge point[s]; storage requirement; pipe sizes and Sustainable Drainage System [SuDS] options.
- Develop a drainage strategy for the proposed development.

## **1.4 Report Structure**

### **1.4.1 This report is structured as follows:**

- Section 2 provides a summary of national, regional and local drainage policy/guidance.
- Section 3 describes the baseline conditions for the existing Site.
- Section 4 scopes the baseline surface water drainage arrangement, potential impacts of the proposed development on surface water drainage and potential mitigation for those effects; and
- Section 5 presents a summary, conclusions and recommendations.

## 2.0 Planning Context

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### 2.1 Introduction

- 2.1.1 This section sets out the national, regional and local planning policy and guidance relevant to the management of surface water and flooding applicable to the proposed development.

### 2.2 National Policy & Guidance

- Welsh Government (2016) *Flood Consequence Assessments: Climate Change Allowances*. Making an allowance for climate change in a Flood Consequence Assessment will help to minimise vulnerability and provide resilience to flooding and coastal change in the future. The climate change allowances are produced by the Natural Resources Wales and are predictions of anticipated change for:

- peak river flow by river basin district
- peak rainfall intensity
- sea level rise
- offshore wind speed and extreme wave height

They are based on climate change projections and different scenarios of carbon dioxide (CO<sub>2</sub>) emissions to the atmosphere. There are allowances for different periods of time over the next century.

- Welsh Government (2018) *Planning Policy Wales (PPW)*. The PPW was published in December 2018; it sets out the Government planning policies for Wales and outlines how these are expected to be applied. Paragraphs 6.6 of the PPW is relevant to flooding and drainage.

Welsh Assembly Government (2004) *Planning Policy Wales Technical Advice Note 15: Development and Flood Risk*. Technical guidance which supports policy set out in PPW and provides framework for flooding from rivers and the sea.

### 2.3 Regional/Local Policy and Guidance

- Wrexham County Borough Council (2013) *Local Flood Risk Management Strategy*.

### 2.4 Best Practice and Guidance

- *UK Sustainable Drainage Guidance*. The UK SUDS Tools website <http://www.uksuds.com/drainagecalculation-tools/greenfield-runoff-rate-estimation> provides estimation tools for the design and evaluation of surface water management systems. The website has been developed and is supported by HR Wallingford. The website provides estimates for greenfield runoff and storage analysis.
- *BS 8582:2013 Code of practice for surface water management for development sites*. The British Standard gives recommendation on the planning, design, construction and maintenance of surface water management systems for new development and redevelopment sites in minimizing and/or mitigating flooding and maximizing the social and environmental benefits.

- *Welsh Government Sustainable Drainage (SuDS) Statutory Guidance* (2019). For local authorities on the implementation of Schedule 3 to the Flood and Water Management Act 2010, the mandatory use of SuDS on new developments and approval and adoption by the SuDS approving body (the SAB).
- *CIRIA SUDS Manual (C753), 2015*. This guidance document provides comprehensive information on the all aspects of the life cycle of sustainable drainage from initial planning, design through to construction and management including landscaping, waste management and costs.
- *BRE Digest 365 (2016) Soakaway Design*. Provides guidance for designers to support planning and development applications.
- *WRc (2012) Sewers for Adoption (7th Edition)*: Contains guidance for the design and construction of sewers that are adoptable by Sewerage Undertakers in England and Wales in accordance with Section 104 of the Water Industry Act 1991. In areas covered by Water and Sewerage Companies where Section 42 of the Flood and Water Management Act has not been implemented, the existing Sewers for Adoption 6th edition is still applicable.

## 3.0 Site Location and Description

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### 3.1 Location

- 3.1.1 The Site is located on land north of the Hanmer Arms, Hanmer, SY13 3DE and is centred on National Grid Reference (NGR) 345438, 339975.
- 3.1.2 The 1.5ha wider land ownership boundary (blue line) and Site boundary (red line) is shown in Figure 3.1.

### 3.2 Land Use

- 3.2.1 The land use is comprised of an agricultural (grazing) field, bordered by hedgerows and mature trees (Figures 3.1 and 3.2).
- 3.2.2 The Site is bounded by the A539 to the northwest, Hanmer Village Road to the northeast, a road leading to Hanmer Arms to the southeast and agricultural land to the southwest.
- 3.2.3 Access is currently via gated access off the A539 to the northwest of the Site and via the private road leading to the Hanmer Arms to the south east.
- 3.2.4 A Site walkover was undertaken during July 2019 to confirm the above observations and descriptions throughout this report.

**Figure 3.1: Aerial Image of the Site**



*Image © 2019 Digital Globe.*

**Figure 3.2: General Photographs of the Site**

**Top:** View looking north from southern Site entrance. **Bottom:** View looking south from central northern boundary

### 3.3 Topographic Information

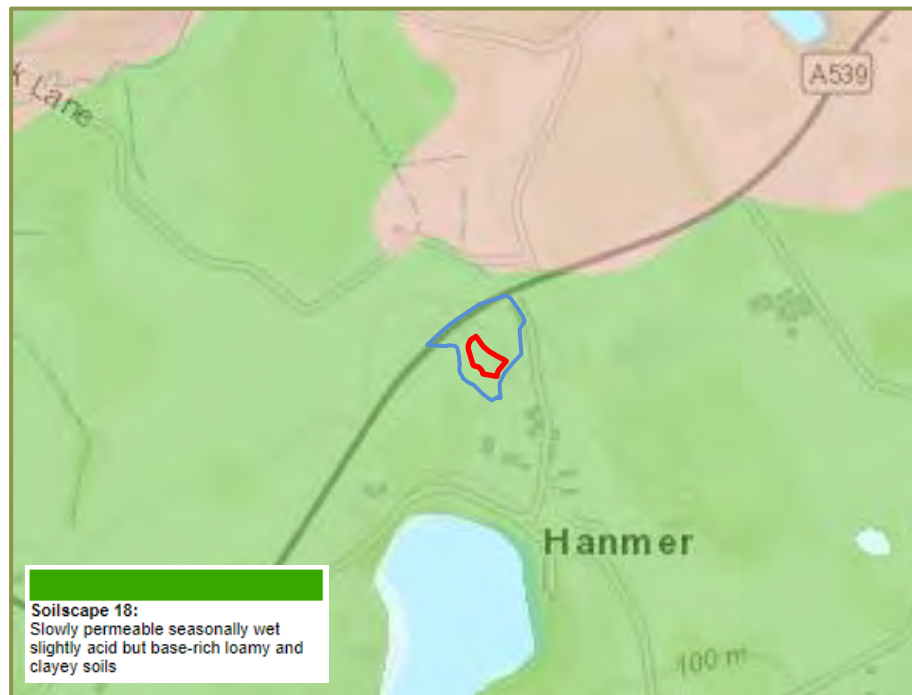
- 3.3.1 A detailed topographic survey was carried out during September 2018 and a copy is included as (Appendix 1). The wider Site has a topographical high point within the north west corner of the Site at 83.04m metres Above Ordnance Datum (m AOD) from here the Site slopes in an easterly direction to a depression within the north west of the Site at 78.95mAOD. A fall of 4.09m over 40m (1:10). The wider Site climbs to a second peak of 82.18m within the north centre of the Site.
- 3.3.2 The Site slopes west, east and south from the peak. Overall the Site slopes east from here to a low point of 75.45 mAOD (north east corner) The fall of 6.73m over 90m gives a gradient of 1:13.

### 3.4 Soils and Geology

#### Soils Mapping

- 3.4.1 The Soilsmap online soils map viewer (Figure 3.3) shows the Site is underlain by slowly permeable, seasonally wet loamy and clayey soils. The soils are indicative of low infiltration potential.

**Figure 3.3: Soils Mapping**

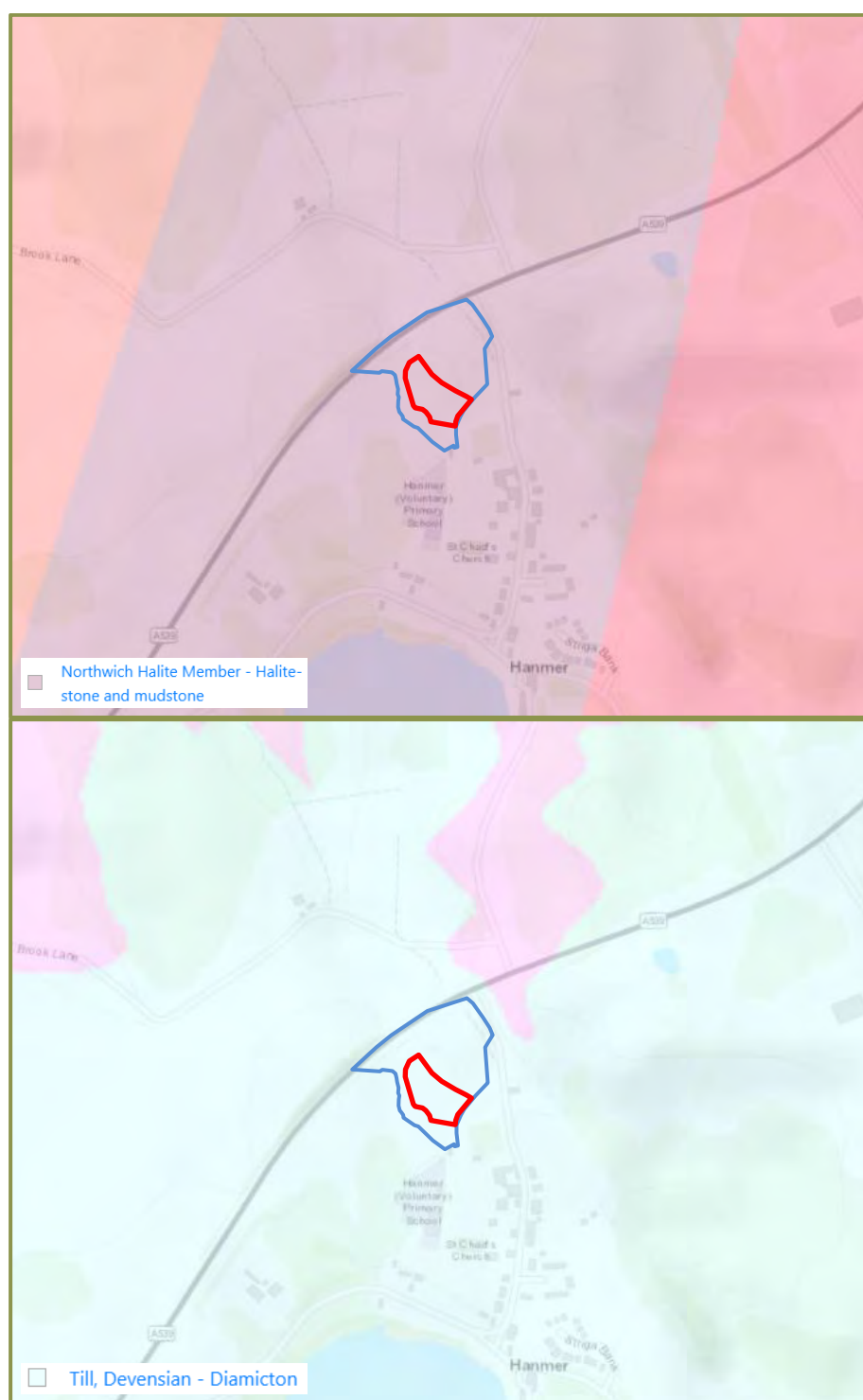


*Soils Data © Cranfield University (NSRI) and for the Controller of HMSO [2019].*

#### Geology Mapping

- 3.4.2 The Geology of Britain online map viewer (Figure 3.4) shows the Site is underlain by Till, Devensian - Diamicton superficial deposits.
- 3.4.3 The bedrock beneath the Site (Figure 3.4) is Northwich Halite Member - Halite-stone and mudstone.
- 3.4.4 It is recommended that trial pits and geology logging is undertaken as part of any onsite soakaway testing to confirm the onsite geology.

**Figure 3.4: Geology Mapping**



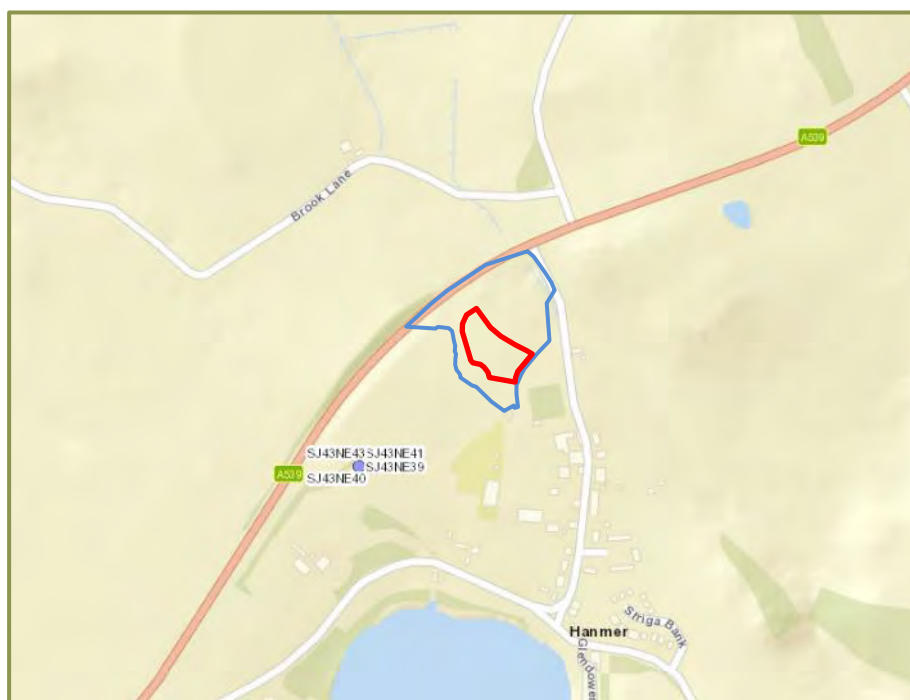
*Top: Bedrock Geology Bottom: Superficial Deposits. Contains British Geological Survey materials © NERC [2019].*

#### BGS Borehole Logs

- 3.4.5 The Geology of Britain online map viewer (Figure 3.5) shows there are no records of boreholes within the Site boundary.
- 3.4.6 The nearest five boreholes are located to the southwest of the Site, within the same mapped superficial deposits and bedrock as the Site. A summary of the borehole logs is included in

Table 3.1 and a copy of the logs are included in Appendix 2. The mudstone bedrock was not encountered any of the boreholes to depths of 3.66mbgl.

**Figure 3.5: Borehole Mapping**



*Contains British Geological Survey materials © NERC [2019].*

**Table 3.1: BGS Borehole Data**

| Reference | Summary of Strata                                          | Depth (m bgl) | Groundwater Depth (m bgl) |
|-----------|------------------------------------------------------------|---------------|---------------------------|
| SJ43NE39  | 0.00 - 0.56m = topsoil.<br>0.56 - 3.66m = sand.            | 3.66          | Not encountered           |
| SJ43NE40  | 0.00 - 0.41m = topsoil.<br>0.41 - 3.66m = sand and gravel. | 3.66          | Not encountered           |
| SJ43NE41  | 0.00 - 0.15m = topsoil.<br>0.15 - 3.66m = sand.            | 3.66          | Not encountered           |
| SJ43NE42  | 0.00 - 0.18m = topsoil.<br>0.18 - 3.66m = sand.            | 3.66          | Not encountered           |
| SJ43NE43  | 0.00 - 0.25m = topsoil.<br>0.25 - 3.66m = sand.            | 3.66          | Not encountered           |

*Contains British Geological Survey materials © NERC [2019].*

### 3.5 Hydrogeology

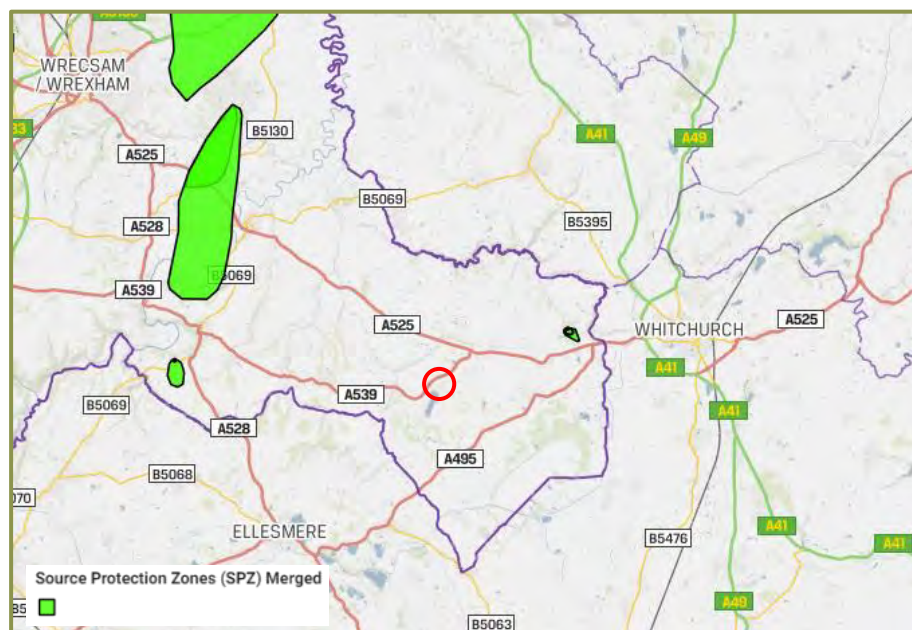
#### Borehole Logs

- 3.5.1 Groundwater ingress was not encountered in the nearest five borehole logs (Figure 3.5 and Table 3.1).
- 3.5.2 The infiltration potential of the soils and geology is likely to be low given the mudstone bedrock and till superficial deposits, however this would need to be confirmed through soakaway testing.

#### Defra Magic Map

- 3.5.3 Natural Resources Wales online mapping (Figure 3.6) shows the Site is not located in a groundwater Source Protection Zone (SPZ). These zones show the risk of contamination to public water supply (PWS) from any activities that might cause pollution in the area. The closer the activity, the greater the risk. The risk to any PWS is assessed as negligible.

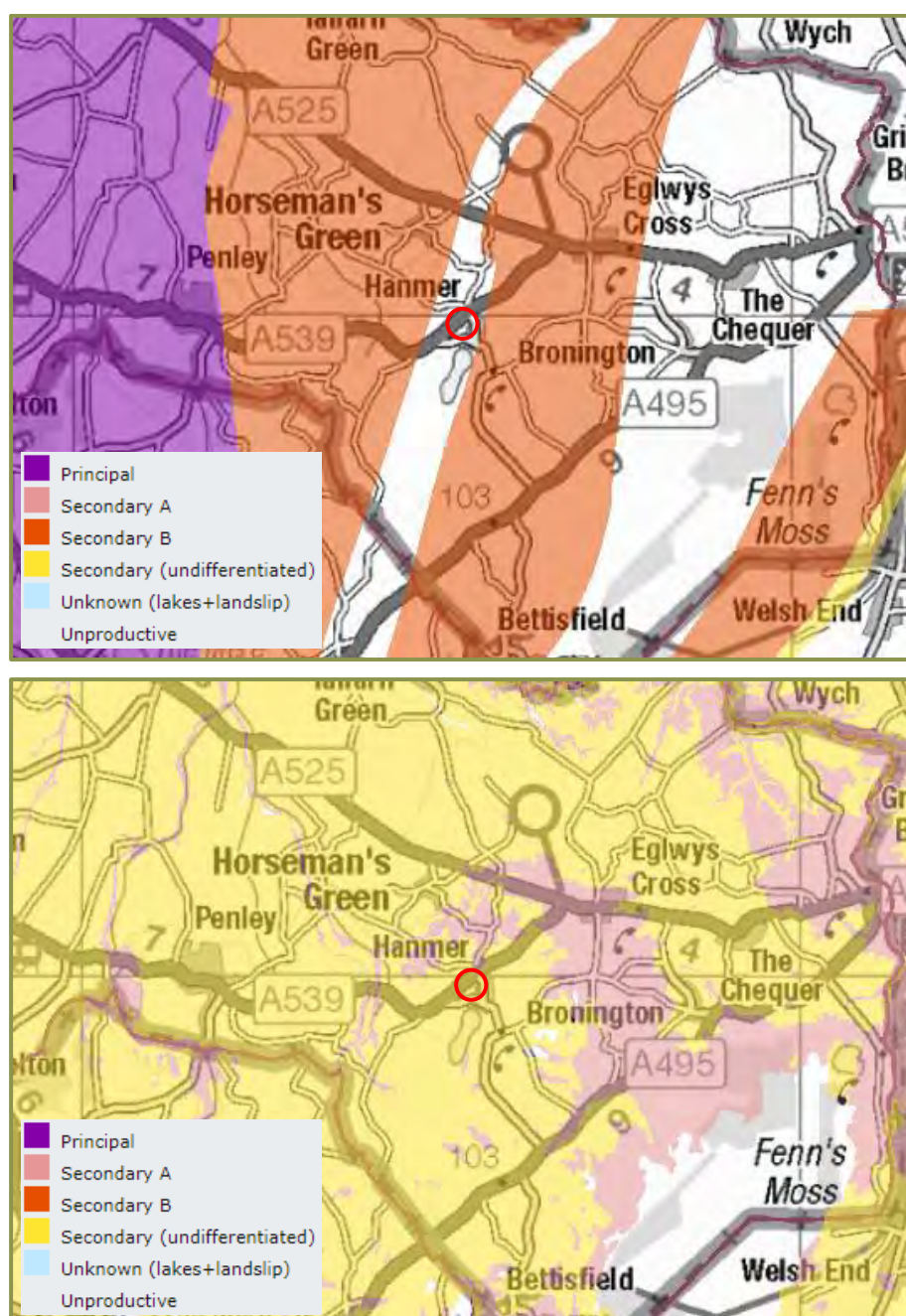
**Figure 3.6: Source Protection Zone Map**



*Contains Natural Resources Wales information © Natural Resources Wales and database right.*

- 3.5.4 Defra Magic Map online mapping (Figure 3.7) shows the Site is located above a Secondary Undifferentiated aquifer (superficial deposits).

Figure 3.7: Aquifer Designation Map



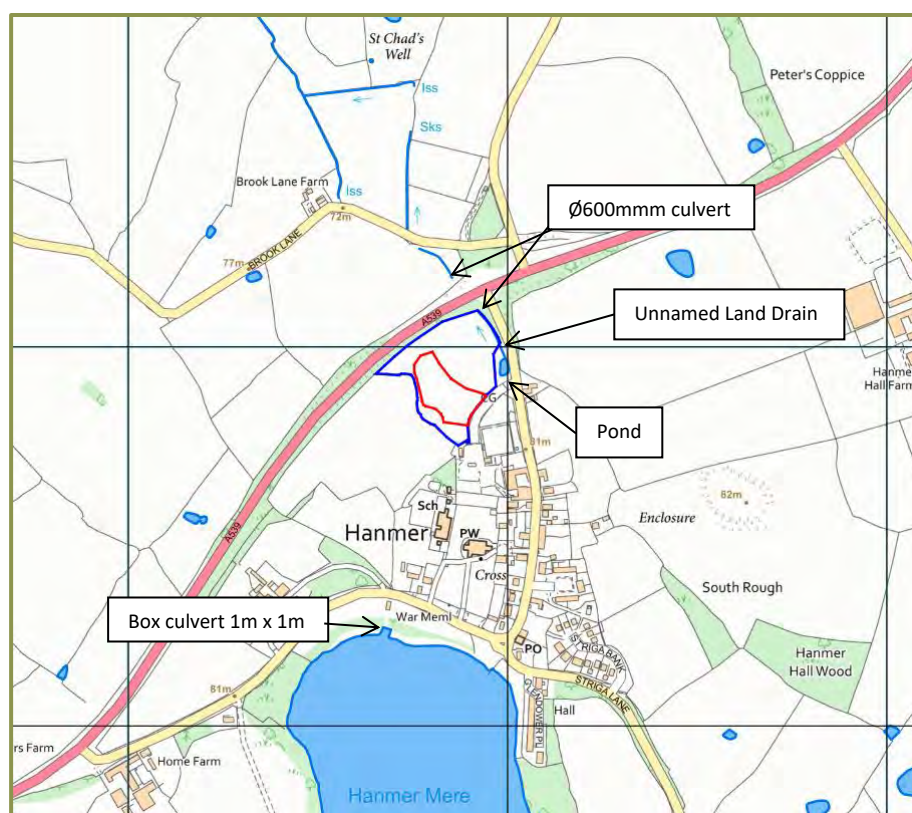
Top: Aquifer Designation (bedrock). Bottom: Aquifer Designation (superficial deposits). From Magic Map. Contains Natural Resources Wales information © Natural Resources Wales and database right [2019].

### 3.6 Catchment Hydrology

## OS Mapping

- 3.6.1 OS mapping (Figure 3.8) shows an unnamed land drain conveying flows northwest along the north-eastern wider ownership Site boundary. The land drain appears to convey flow from a small pond which is located just outside the south eastern wider Site boundary. The land drain appears to culvert under the A539 and continue to convey flow north.
- 3.6.2 OS mapping also shows Hanmer Mere, which is located 230m south of the Site. The mere may have a connection to the pond / land drain.

### Figure 3.8: Map of Watercourses



### Site Walkover Observations

- 3.6.3 A Site walkover was undertaken during July 2019. Below is a summary of the Site walkover observations, supported by photographs.
- 3.6.4 The land drain identified on OS mapping was observed along the eastern wider Site boundary (Figure 3.9). The drain was heavily vegetated carrying low flows (~150mm). The drain was approximately 1.5m deep, with a 0.5m bed width and 1:2 side slopes.
- 3.6.5 The land drain originated from a pond just outside the south east of the wider Site (Figure 3.11).
- 3.6.6 At the northern boundary of the wider Site the land drain entered a Ø600mm culvert (Figure 3.10) which conveyed flow beneath the A539. On the northern side of the A539 the channel outfalls through a Ø600mm culvert and continues to convey flow north in open channel.

- 3.6.7 Hanmer Mere is located 230m to the south of Site. The mere enters a 1x1m box culvert covered with a trash screen on its northern boundary. It is not known if this has connectivity to the pond / land drain within the Site.

**Figure 3.9: Land drain along eastern boundary**



**Figure 3.10: Ø600mm culvert conveying flow beneath A539.**



**Figure 3.11: Pond outside south eastern boundary.**



**Figure 3.12: View of Hanmer Mere and Box Culvert to the north of the mere**



**Left: Hanmer Mere Right: 1m x 1m Box Culvert to north of mere**

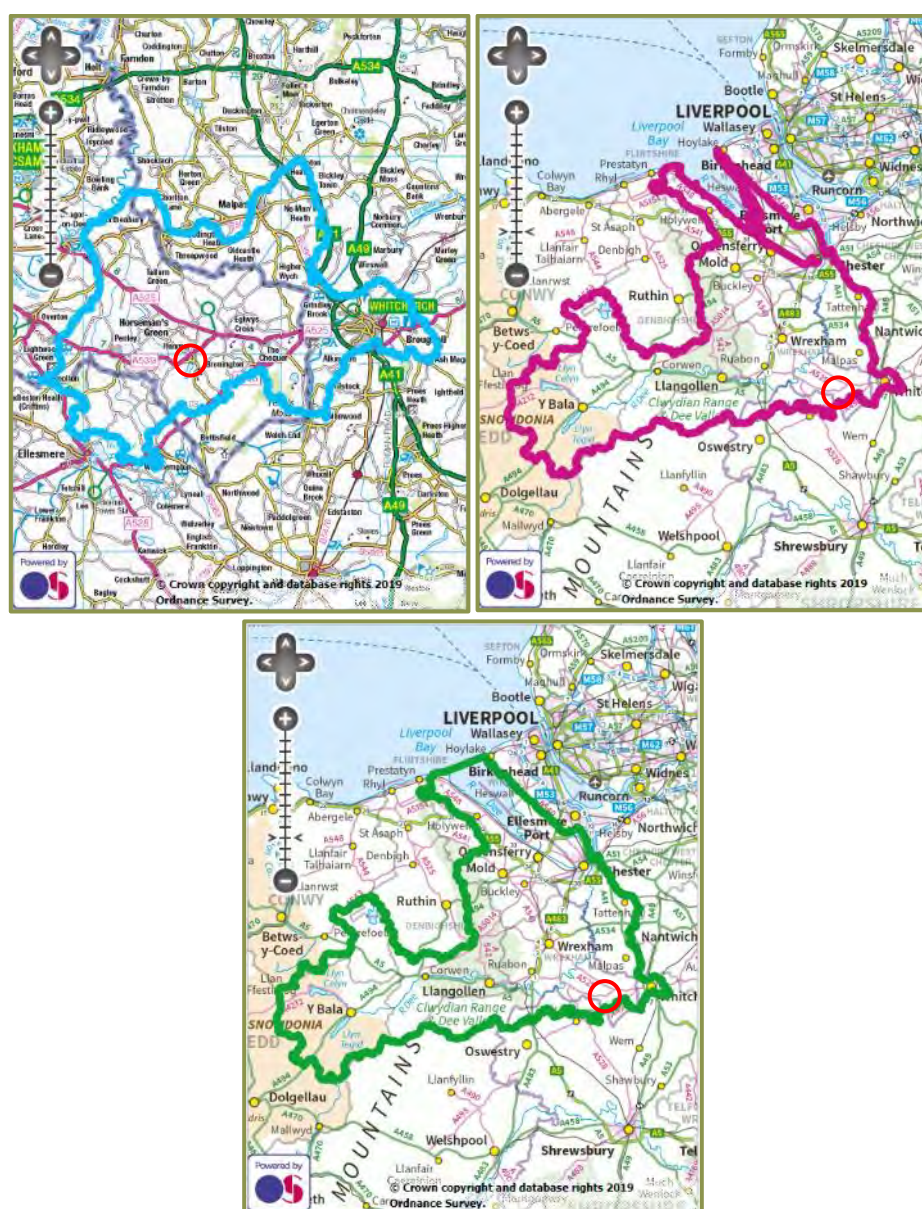
#### Main River Map

- 3.6.8 The Natural Resources Wales main river map (Figure 3.13) shows no Main Rivers within the Site or its immediate vicinity (within 1km).

#### Environment Agency Catchment Data Explorer Mapping

- 3.6.9 Natural Resources Wales mapping shows that the Site is in the Worthenbury Operational Catchment, Dee Management Catchment and Dee River Basin District (Figure 3.13).

Figure 3.13: Catchment Data Explorer



Top Left: Worthenbury Operational Catchment. Top Right: Dee Management Catchment. Bottom: Dee River Basin District. Contains Natural Resources Wales information © Natural Resources Wales and database right [2018].

### Climate Change Allowances

3.6.10 The climate change allowances applicable to peak river flows in the Dee River Basin District are included in Table 3.2. These apply to peak flows within the onsite and nearby watercourses.

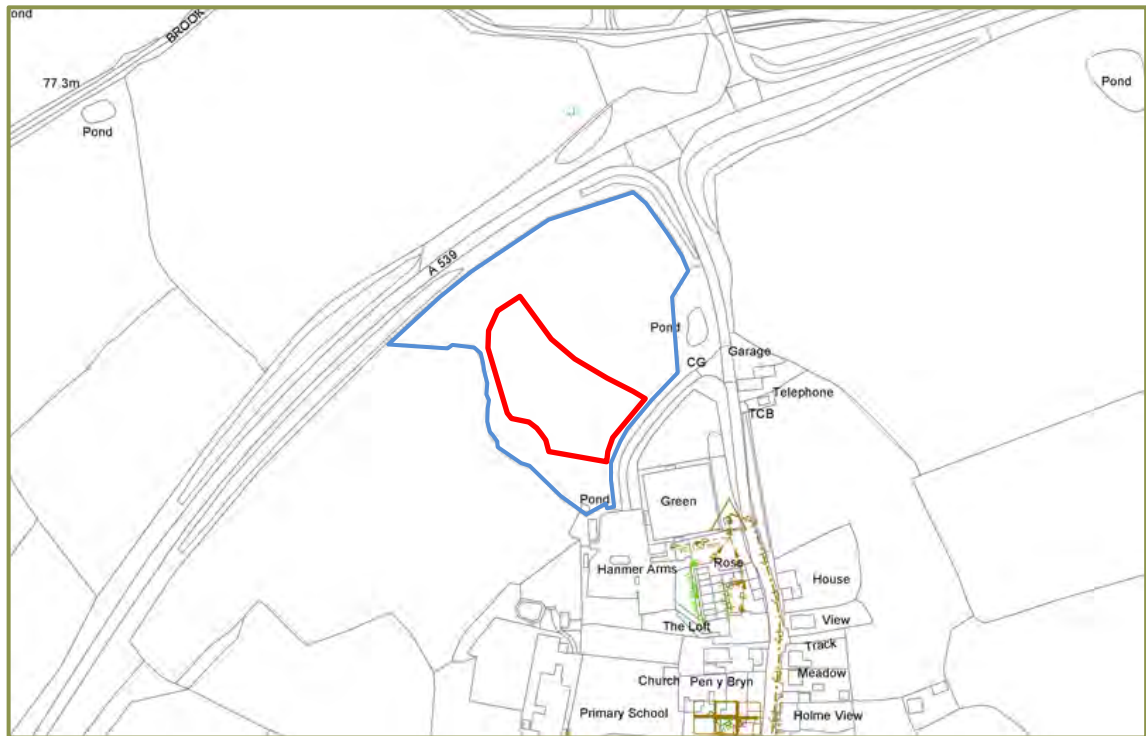
Table 3.2: Peak River Flow Allowances

| Allowance Category | Total Potential Change Anticipated for the '2080s' (2070 to 2115) |
|--------------------|-------------------------------------------------------------------|
| Upper End          | 45%                                                               |
| Central            | 20%                                                               |

### 3.7 Sewerage Assets

- 3.7.1 Welsh Water sewer asset plans (Figure 3.14 and Appendix 3) show that there is private foul sewer conveying flow south 100m south east of the Site. There are no surface water sewers within the immediate vicinity of the Site.

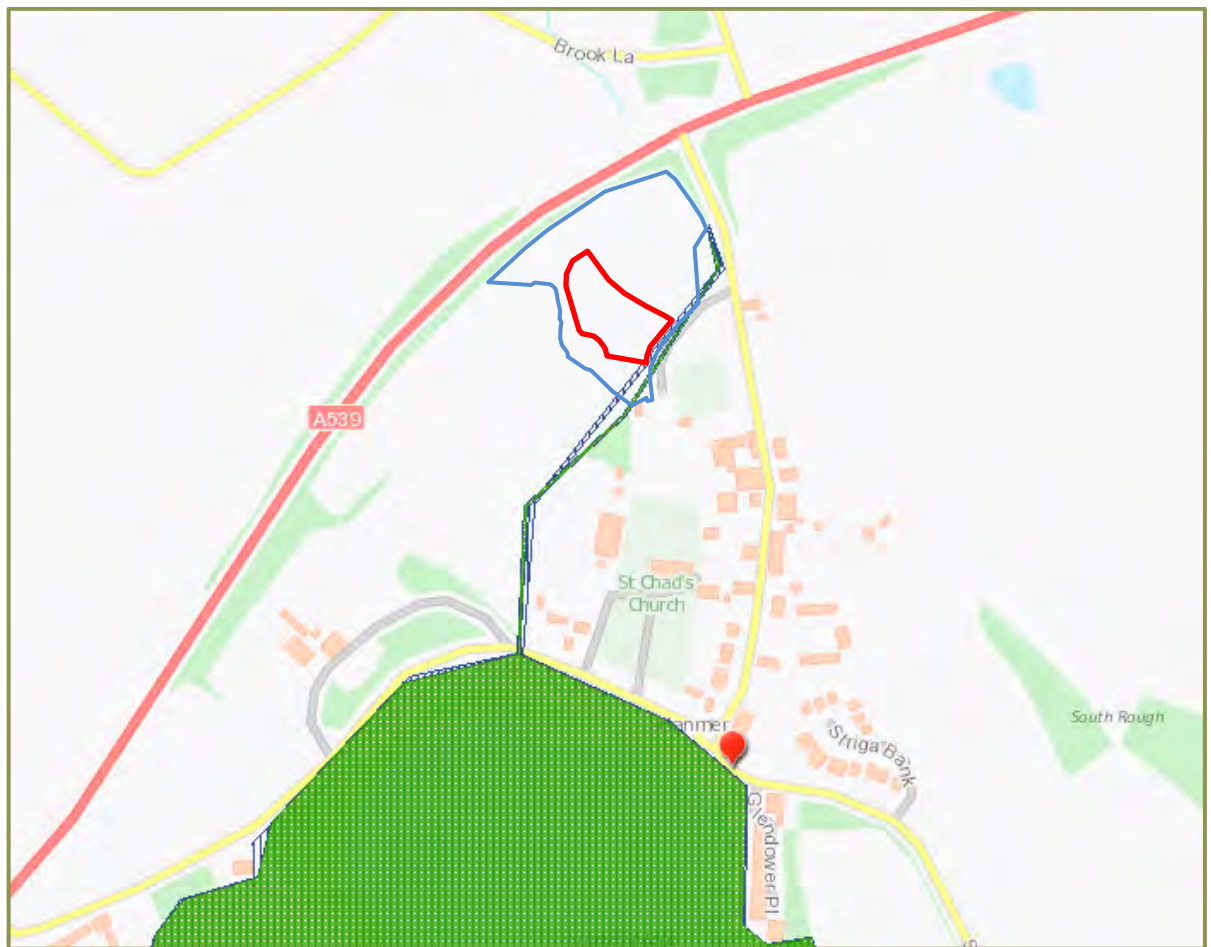
**Figure 3.14: Sewer Asset Plans**



### 3.8 Designated Sites

- 3.8.1 The DEFRA Magic Map (England and Wales) (Figure 3.15) shows the Midland Meres & Mosses (Site of Special Scientific Interest [SSSI] and Ramsar site) is located within the east of the Site associated with the pond / watercourse. Consequently, it is proposed that surface water quality is improved through the utilisation of SuDS features (see Section 6). The Hanmer Mere SSSI is also located 220m to the south of the Site, upstream of the Site.
- 3.8.2 The fact the SSSI / Ramsar site is shown to extend from Hanmer Mere to the pond / watercourse suggests that there is connectivity between the two.

**Figure 3.15: Designated Sites**



*From Magic Map. Contains Natural Resources Wales information © Natural Resources Wales and database right [2019].*

## 4.0 Site Drainage

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### 4.1 Surface Water Drainage

- 4.1.1 The alteration of natural surface water flow patterns through developments can lead to problems elsewhere in a catchment, particularly flooding downstream; and replacing permeable vegetated areas with low permeability roofs, roads and other paved areas will increase the speed, volume and peak flow of surface water runoff. The reception will be built on foundations however the lodges will be built on a series of concrete pads and therefore the majority of the Site will remain permeable.
- 4.1.2 A surface water management strategy for the development is proposed to manage and reduce the flood risk posed by surface water runoff from the Site. The developer will be required to ensure that any scheme for surface water should build in sufficient capacity for the entire Site.
- 4.1.3 The surface water drainage arrangements for any development Site should be such that the volume and peak flow rates of surface water leaving a developed Site are no greater than the rates prior to the proposed development, unless specific off-Site arrangements are made and result in the same net effect.
- 4.1.4 An assessment of the surface water runoff rates was undertaken to determine the surface water options and attenuation requirements for the Site.

### 4.2 Existing Drainage System

- 4.2.1 The 1.5ha wider Site land use comprises agricultural (grazing) land.
- 4.2.2 The Site is underlain by impermeable soils and bedrock. It is likely that drainage is predominantly via overland flow, following the topography of the Site to the topographic low points, with a small amount of infiltration to bedrock, and throughflow to watercourse.
- 4.2.3 There is currently no foul water discharging from the undeveloped Site.

### 4.3 Developable and Impermeable Areas

- 4.3.1 The proposal is for 10 touring pitches with an associated amenity block. The amenity block comprises 100m<sup>2</sup> roof area. The touring pitches and road will be gravelled and therefore permeable. As such there will be a 100m<sup>2</sup> increase in impermeable area from the amenity block.

### 4.4 Sustainable Drainage Options (SuDS)

#### Feasibility of SuDS

- 4.4.1 The soils and geology mapping are indicative of low infiltration potential. It is therefore assumed that the use of infiltration-based SuDS would not be feasible. This assumption would need to be confirmed through soakaway testing.

#### Choice of SuDS Options

- 4.4.2 Sustainable water management measures should be used to control the surface water runoff from the proposed development Site, thereby managing the flood risk to the Site and surrounding areas from surface water runoff. These measures will also improve the quality of water discharged from the Site.

- 4.4.3 Current guidance promotes sustainable water management using SuDS. Options applicable to this Site are identified in Table 4.3.

**Table 4.3: SuDS Options**

|                      |                     |
|----------------------|---------------------|
| Green roofs          | Infiltration basins |
| Water butts          | Detention basins    |
| Permeable paving     | Oversized pipes     |
| Rainwater harvesting | Brown roofs         |
| Filter strips        | Swales              |
| Wetland Areas        | Cellular Storage    |

*Note: SuDS appropriate to the development are highlighted green.*

- 4.4.4 A hierarchy of SuDS techniques is identified<sup>1</sup>:

- 1. Prevention** – the use of good Site design and housekeeping measures on individual Sites to prevent runoff and pollution (e.g. minimise areas of hard standing).
- 2. Source Control** – control of runoff at or very near its source (such as the use of rainwater harvesting).
- 3. Site Control** – management of water from several sub-catchments (including routing water from roofs and car parks to one/several large soakaways for the whole Site).
- 4. Regional Control** – management of runoff from several Sites, typically in a detention pond or wetland.

- 4.4.5 Using SuDS as opposed to conventional drainage systems provides several benefits by:

- reducing peak flows to watercourses or sewers and potentially reducing the risk of flooding downstream;
- reducing the volumes and frequency of water flowing directly to watercourses or sewers from developed Sites;
- improving water quality over conventional surface water sewers by removing pollutants from diffuse pollutant sources;
- reducing potable water demand through rainwater harvesting;
- improving amenity through the provision of public open spaces and wildlife habitat; and
- replicating natural drainage patterns, including the recharge of groundwater so that base flows are maintained.

#### SuDS Maintenance

- 4.4.6 A swale will form the main attenuation feature within the development Site.

<sup>1</sup> CIRIA (2004) Report C609, Sustainable Drainage Systems – Hydraulic, Structural and Water Quality advice.

- 4.4.7 Maintenance of the SuDS features would be in line with the SuDS Manual (CIRIA C753, 2015), as detailed in Figure 4.1. The maintenance would be undertaken by a private maintenance company.
- 4.4.8 It is standard for SuDS features within a new development to be maintained by a private maintenance company, unless the council adopt it. If the maintenance company goes into administration, the Site will be contracted to a new maintenance company. Residents will pay a surcharge to the maintenance company and a number of them would be appointed to its board. This will ensure maintenance throughout the lifetime of the development.
- 4.4.9 Details of other SuDS features, and maintenance would be considered further at detailed design, when a detailed layout has been produced. The level of detail provided within this FRA should be sufficient at outline stage to demonstrate that SuDS would be deliverable.

**Figure 4.1: Swale Operation and Maintenance Requirements (Table 17.1 of the SuDS Manual)**

| <b>TABLE 17.1 Operation and maintenance requirements for swales</b> |                             |                                                                                                                                        |                                                                                     |
|---------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                     | <b>Maintenance schedule</b> | <b>Required action</b>                                                                                                                 | <b>Typical frequency</b>                                                            |
| Regular maintenance                                                 |                             | Remove litter and debris                                                                                                               | Monthly, or as required                                                             |
|                                                                     |                             | Cut grass – to retain grass height within specified design range                                                                       | Monthly (during growing season), or as required                                     |
|                                                                     |                             | Manage other vegetation and remove nuisance plants                                                                                     | Monthly at start, then as required                                                  |
|                                                                     |                             | Inspect inlets, outlets and overflows for blockages, and clear if required                                                             | Monthly                                                                             |
|                                                                     |                             | Inspect infiltration surfaces for ponding, compaction, silt accumulation, record areas where water is ponding for > 48 hours           | Monthly, or when required                                                           |
|                                                                     |                             | Inspect vegetation coverage                                                                                                            | Monthly for 6 months, quarterly for 2 years, then half yearly                       |
|                                                                     |                             | Inspect inlets and facility surface for silt accumulation, establish appropriate silt removal frequencies                              | Half yearly                                                                         |
| Occasional maintenance                                              |                             | Re-seed areas of poor vegetation growth, alter plant types to better suit conditions, if required                                      | As required or if bare soil is exposed over 10% or more of the swale treatment area |
| Remedial actions                                                    |                             | Repair erosion or other damage by re-turfing or re-seeding                                                                             | As required                                                                         |
|                                                                     |                             | Re-level uneven surfaces and reinstate design levels                                                                                   | As required                                                                         |
|                                                                     |                             | Scarify and spike topsoil layer to improve infiltration performance, break up silt deposits and prevent compaction of the soil surface | As required                                                                         |
|                                                                     |                             | Remove build-up of sediment on upstream gravel trench, flow spreader or at top of filter strip                                         | As required                                                                         |
|                                                                     |                             | Remove and dispose of oils or petrol residues using safe standard practices                                                            | As required                                                                         |

## 4.5 Surface Water Management Strategy

### Hierarchy of Discharge

- 4.5.1 In accordance with requirement H3 of the Building Regulations 2002 rainwater runoff must discharge to one of the following, listed in order of priority:

<sup>2</sup> Office of the Deputy Prime Minister, The Building Regulations 2000.

- 1. An adequate soakaway or some other adequate infiltration system; or, where that is not reasonably practicable:** The use of infiltration-based SuDS is not feasible due to low infiltration potential (to be confirmed by soakaway testing).
  - 2. A watercourse; or where that is not reasonably practicable:** An unnamed land drain conveys flows south-west along the south-east wider Site boundary.
  - 3. A sewer:** There are no public surface water sewers located within the immediate vicinity of the Site.
- 4.5.2 The potential route to discharge from the existing Site will be by outfall to the unnamed land drain.

#### Drainage Design

- 4.5.3 Surface water runoff would be directed to a swale through drainage gullies located around the perimeter of the amenity block.
- 4.5.4 The areas for the pitches and road would be comprised of gravel and as such would infiltrate and require no formal drainage system.
- 4.5.5 Landscaped areas should be incorporated into the layout where possible, and unit will allow a proportion of the rainfall to infiltrate into the soil substrate.
- 4.5.6 The swale would be positioned and contoured to achieve a gravity fed connection to the land drain. It is proposed a free discharge into the swale given the negligible runoff rate as a result of the amenity block.
- 4.5.7 An indicative drainage layout is in Drawing 004.

#### Water Quality

- 4.5.8 The surface water will discharge into an unnamed land drain. The unnamed land drain is part of the Hanmer Mere SSSI and Ramsar Site. It is proposed that the water quality associated with the development runoff is managed through the utilisation of a swale. Swales are effective at removing polluting suspended solids through filtration and sedimentation. The vegetation traps organic and mineral particles that are then incorporated into the soil, while the vegetation takes up any nutrients.
- 4.5.9 Enzygo carried out a Habitat Regulations Assessment Screening Report (HRA) for the above Site. The report outlines mitigation measures required to avoid impact to the designated Site during the construction and operational phases, including those outlined above.
- 4.5.10 The HRA concludes there will be no anticipated significant effect on the proposals on the Midland Meres and Mosses Phase 2 Ramsar (or the overlapping Hanmer Mere SSSI). A full copy of the report can be found in MAN.244.002.EC.R.002.

#### **4.6 Exceedance Routes**

- 4.6.1 A storm event in excess of this design standard would be extreme and would cause the swale to overtop (with no sudden deluge) and would then shed overland following the topography (towards the watercourse, as per existing conditions).
- 4.6.2 Finished floor levels will be set above external levels, which will mitigate the residual risk of overtopping.

#### **4.7 Foul Drainage**

- 4.7.1 The Site is not currently served by a foul drainage network.
- 4.7.2 It is proposed that foul flow from the amenity block is discharged to the Ø150mm private foul sewer within the Hanmer Arms.
- 4.7.3 A predevelopment enquiry was undertaken during August 2020. The predevelopment enquiry stated that foul flows could be accommodated within the public sewerage system and flows should be connected to the foul sewer downstream of manhole SJ45395754 to the south east of the Site. A copy of the predevelopment enquiry is included within Appendix 3.
- 4.7.4 All foul sewerage should be designed in accordance with Building Regulations Part H. In areas where sewers are to be adopted by Welsh Water, sewerage should be designed in accordance with Sewers for Adoption (7th Edition) and supplemented with additional standards provided by Welsh Water. An application to enter into a Section 104 agreement for sewer adoption must be made in writing to Welsh Water prior to any works commencing on Site. A connection point should be agreed with Welsh Water.

## 5.0 Summary, Conclusions and Recommendations

---

### 5.1 Introduction

- 5.1.1 A Drainage Strategy has been undertaken for a proposed touring park, located on land north of Hanmer Arms, Hanmer.

### 5.2 Drainage Strategy

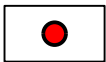
- 5.2.1 The Drainage Strategy has identified the following:

- The soils and geology indicate a low infiltration potential. It is assumed that drainage is primarily via overland flow, following the topography of the Site to the topographic low points (unnamed land drain). Infiltration-based SuDS should be utilised in the first instance however the infiltration potential suggests they would not be feasible on this Site (this would need confirming through soakaway testing).
- The unnamed land drain conveys flows northwest along the north-eastern wider Site boundary. A positive outfall to watercourse would be feasible.
- The proposed development will have a negligible increase in the area of impermeable surfaces.
- Surface water from the development would be directed to a swale which would discharge into the unnamed land drain. The runoff rate would be so small it is proposed that there is no formal hydrobrake / discharge rate into the swale.
- Foul sewerage would be directed to the public foul sewer to the south east of the Site.





Key

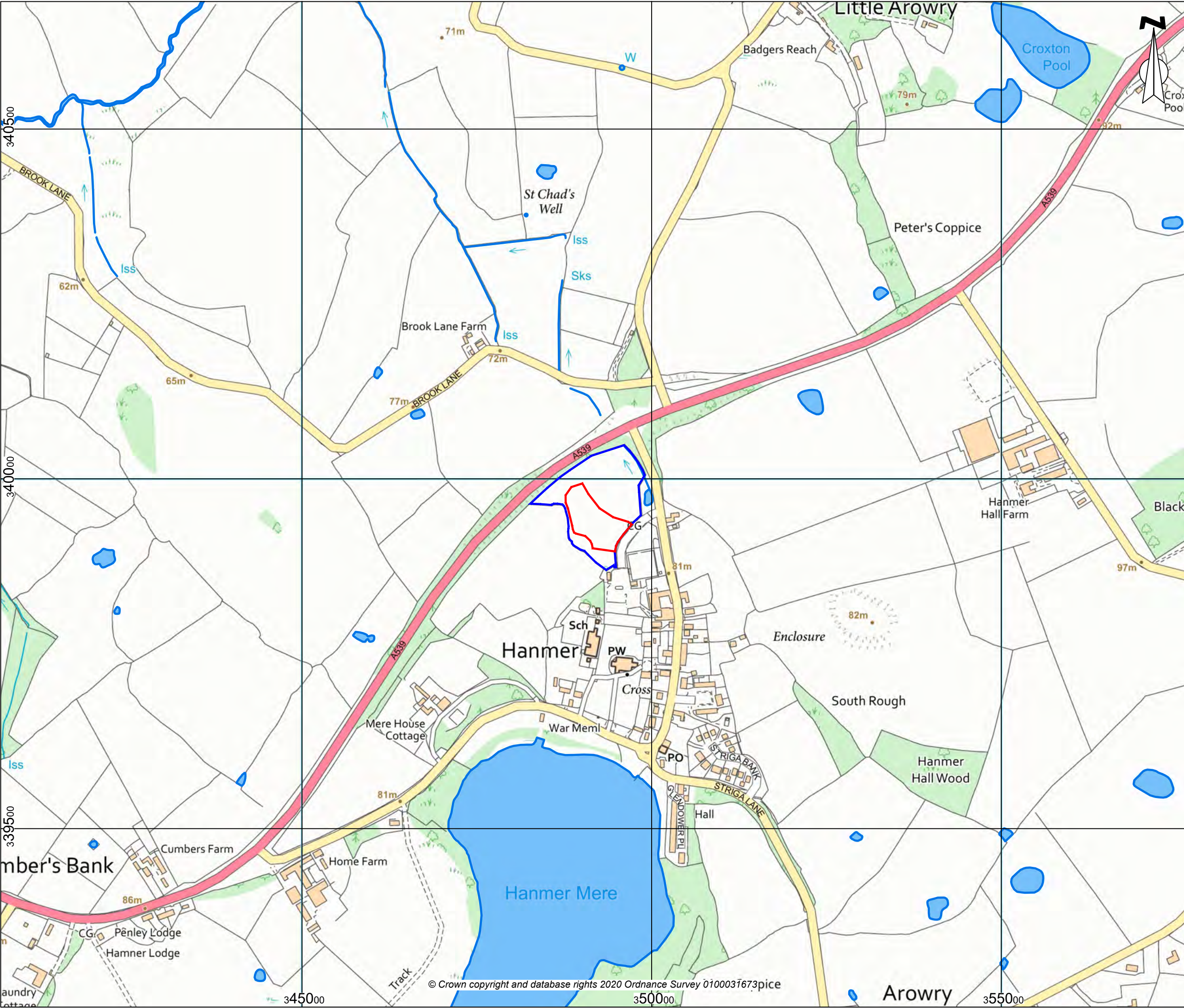


Site Location  
(SJ 4543 3996)

enzygo  
environmental consultants

Samuel House, 5 Fox Valley Way, Stocksbridge, Sheffield, S36 2AA

|                              |              |                    |
|------------------------------|--------------|--------------------|
| CLIENT:                      |              | PROJECT REF:       |
| Carlton Holdings Partnership |              | MAN.244.002        |
| SCALE:                       | DATE:        |                    |
| 1:20,000@A3                  | January 2020 |                    |
| DRAWN:                       | CHECKED:     |                    |
| CH                           | MG           |                    |
| PROJECT:                     |              | TITLE:             |
| Hanmer Arms, Hanmer          |              | Site Location Plan |
| DRAWING NO:                  |              |                    |
| MAN.244.002.HY.D.001         |              |                    |



Key

Site Boundary

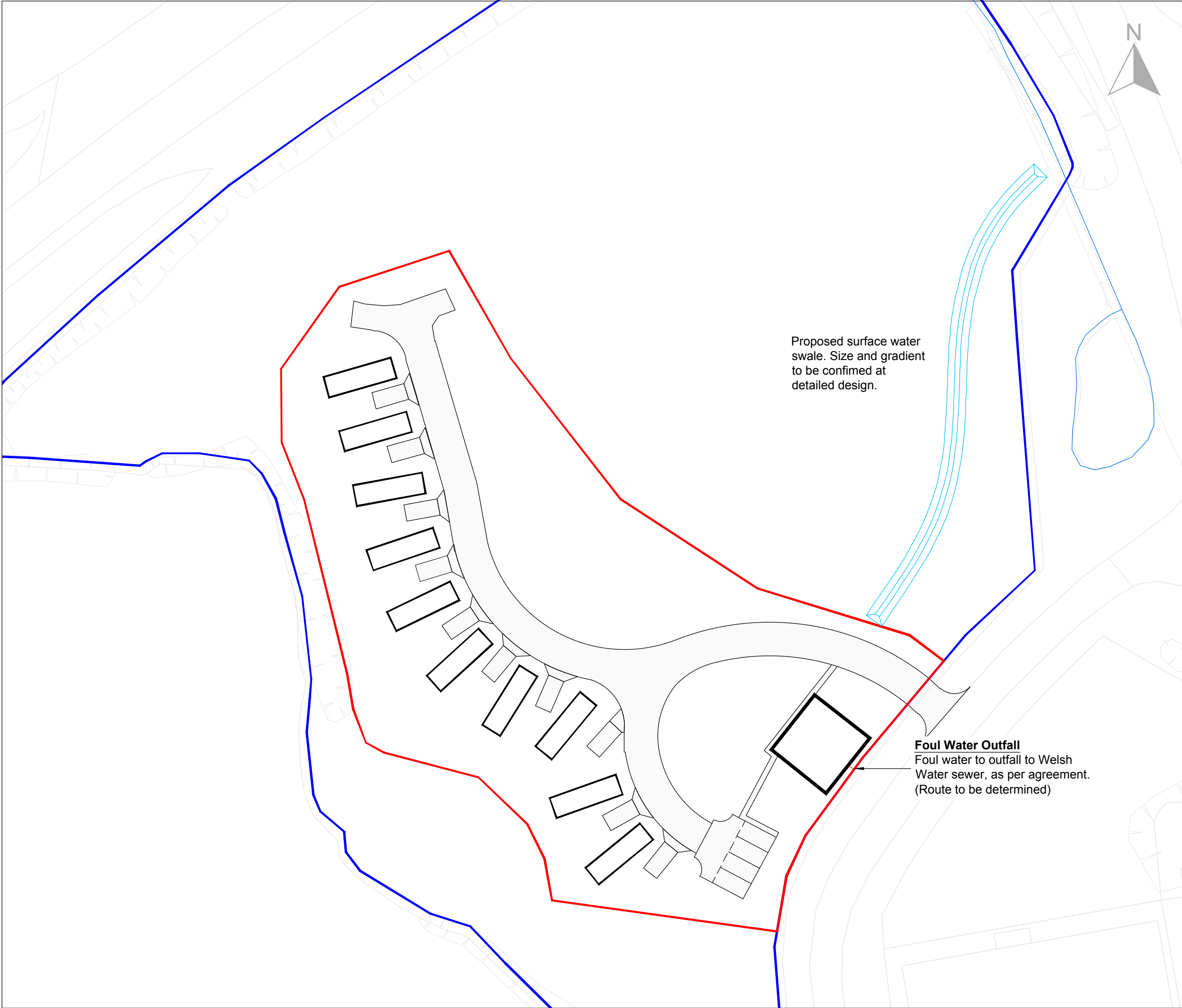
Surface Water Features

enzygo

environmental consultants

Samuel House, 5 Fox Valley Way, Stocksbridge, Sheffield, S36 2AA

|                                         |                             |                       |
|-----------------------------------------|-----------------------------|-----------------------|
| CLIENT:<br>Carlton Holdings Partnership |                             |                       |
| SCALE:<br>1:5,000@A3                    | PROJECT REF:<br>MAN.244.002 |                       |
| DRAWN:<br>CH                            | CHECKED:<br>MG              | DATE:<br>January 2020 |
| PROJECT:<br>Hanmer Arms, Hanmer         |                             |                       |
| TITLE:<br>Surface Water Features        |                             |                       |
| DRAWING NO:<br>MAN.244.002.HY.D.002     |                             |                       |



Proposed surface water  
swale. Size and gradient  
to be confined at  
detailed design.

**Foul Water Outfall**  
Foul water to outfall to Welsh  
Water sewer, as per agreement.  
(Route to be determined)

NOTES

- 1. Do not scale from this drawing
- 2. All dimensions are in meters unless stated otherwise
- 3. This drawing is to be read in conjunction with all relevant drawings and documents associated with this project.
- 4. All surveyed information including levels and layout is provided by others
- 5. All existing and proposed dimensions, levels and locations to be checked and verified by the main contractor on site prior to the commencement of the works and any anomalies reported to the engineer.
- 6. All works, workmanship and materials on private drainage to be in accordance with the civil engineering specification for water industry 7th edition published by the water research council.

| Key         |                         |
|-------------|-------------------------|
| <div></div> | Site Boundary           |
| <div></div> | Site Ownership Boundary |

|      |          |                                      |      |      |      |
|------|----------|--------------------------------------|------|------|------|
| P03  | 11/09/20 | Foul drainage added.                 | CH   | EO'C | EO'C |
| P02  | 31/01/20 | Drainage updated to suit new layout. | CH   | MGg  | EO'C |
| P01  | 20/08/19 | First Issue                          | CH   | MGg  | EO'C |
| REV: | DATE:    | DETAIL:                              | DES: | CHK: | APP: |



Samuel House, 5 Fox Valley Way, Stocksbridge, Sheffield, S36 2AA

CLIENT:  
Carlton Holdings Partnership

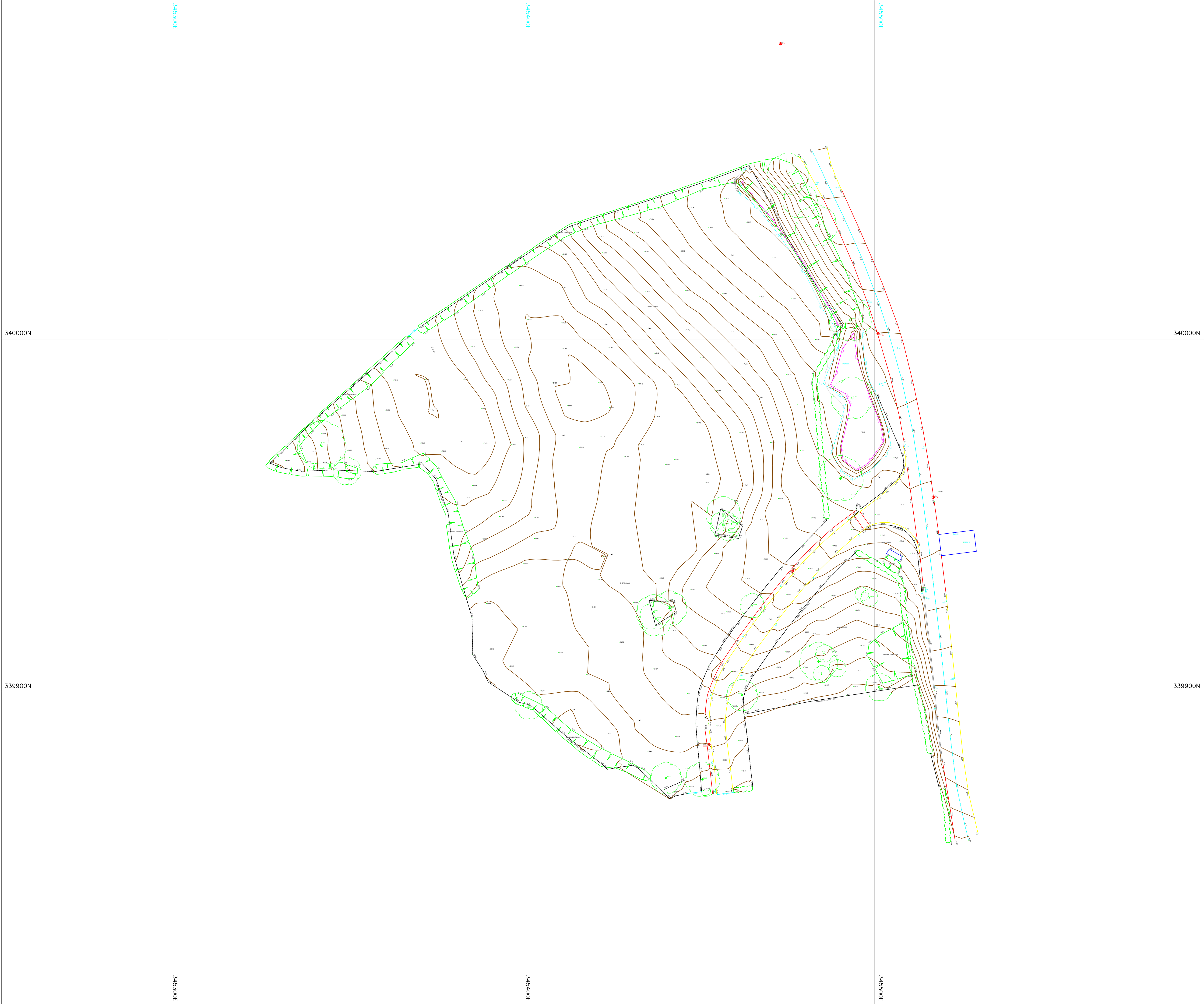
PROJECT:  
Hanmer Arms, Hanmer

DRAWING TITLE:  
SW and FW Drainage Strategy

|                 |              |          |           |
|-----------------|--------------|----------|-----------|
| DRAWN:          | DESIGNED:    | CHECKED: | APPROVED: |
| CH              | CH           | MGg      | EO'C      |
| DATE:           | SCALE @ A3:  |          |           |
| 20/08/2019      | 1:500        |          |           |
| PROJECT NO.:    | DRAWING NO.: |          |           |
| MAN.244.002     | 101          |          |           |
| DRAWING STATUS: | ISSUE:       |          |           |
| Preliminary     | P03          |          |           |

## Appendix 1 – Topographical Survey

---



| COORDINATED STATIONS |            |            |           |
|----------------------|------------|------------|-----------|
| STATION              | EASTING    | NORTHING   | LEVEL (m) |
| A                    | 345516.492 | 339955.187 | 77.099    |
| B                    | 345476.596 | 339934.224 | 78.587    |
| C                    | 345500.912 | 340001.463 | 77.493    |
| D                    | 345473.264 | 340083.653 | 80.773    |
| E                    | 345452.996 | 339885.056 | 82.061    |

ABBREVIATIONS

|     |                  |     |                     |
|-----|------------------|-----|---------------------|
| AV  | AIR VALVE/VENT   | IC  | INSPECT CHAMBER     |
| BOL | BOLLARD          | IL  | INVERT LEVEL        |
| BB  | BELISHA BEACON   | JKW | JAPANESE KNOTT WEED |
| BM  | BENCH MARK       | LH  | LAMP HOLE           |
| BL  | BED LEVEL        | LP  | LAMP POST           |
| BS  | BUS STOP         | NP  | NAME PLATE          |
| BT  | BRITISH TELECOM  | MH  | MANHOLE             |
| CL  | COVER LEVEL      | PS  | POST/SIGN POST      |
| DI  | DIAPHRAGM        | PB  | POST BOX            |
| Dis | DISUSED          | PX  | UNKNOWN SERVICE     |
| EL  | EAVES LEVEL      | RE  | RODDING EYE         |
| ELE | ELEC JUNCT. BOX  | RL  | RIDGE LEVEL         |
| EP  | ELECTRICITY POLE | RS  | ROAD SIGN           |
| FH  | FIRE HYDRANT     | ST  | STOP TAP            |
| FL  | FLOOR LEVEL      | TH  | TRIAL HOLE          |
| FOS | FULL OF SEDIMENT | TL  | TRAFFIC LIGHT       |
| FP  | FLAG POLE        | TP  | TELEGRAPH POLE      |
| G   | GULLY            | TV  | CABLE TV BOX        |
| GM  | GAS METER        | UH  | UNABLE TO LIFT      |
| GV  | GAS VALVE        | WM  | WATER METER         |

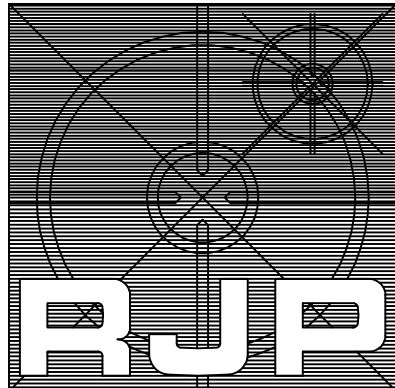
SYMBOLS

|  |                |  |            |
|--|----------------|--|------------|
|  | SURVEY STATION |  | TREE       |
|  | O/H ELEC CABLE |  | BENCH MARK |
|  | O/H PHONE LINE |  | TRIAL PIT  |
|  | CANOPY/HEDGE   |  | BOREHOLE   |

NOTES

- A) ONLY MANHOLES AND SERVICES VISIBLE AT TIME OF SURVEY SHOWN
- B) O/S USED AND ORIENTATED TO TRUE NORTH
- C) LEVELS IN METRES RELATED TO G.P.S.
- D) DRAINAGE INFORMATION TAKEN FROM LOCAL AUTHORITY RECORDS. INFORMATION MUST BE CHECKED PRIOR TO WORK COMMENCING

| Rev                                           | Description | Date           |
|-----------------------------------------------|-------------|----------------|
| PROPOSED DEVELOPMENT AT HANMER ARMS, PLANNING |             |                |
| RICHARD LEE PROJECT PLANNING                  |             |                |
| TOPOGRAPHICAL SURVEY                          |             |                |
| RLP001/T00                                    | Drawn       | S. FAIRHURST   |
|                                               | Date        | SEPTEMBER 2018 |
|                                               | Scale       | 1:500 @ A1     |



RJP

Surveying Consultants Ltd

LAND SURVEYORS & SITE ENGINEERS

AYREFIELD COTTAGE

AYREFIELD ROAD

ROBY MILL

UPHOLLAND

LANCASHIRE

WN8 0QP

TEL: 01257 251554

MOBILE: 07710 308709

WEBSITE : [www.rjpsurveyors.co.uk](http://www.rjpsurveyors.co.uk)

E-MAIL: [mail@rjpsurveyors.co.uk](mailto:mail@rjpsurveyors.co.uk)

## Appendix 2 – Borehole Logs

---

# Geo - Civil

(Gusterson Limited)

Hilton Hotels.

**7.11 Bury Road, Redcliffe, Lancs.**

**Telephone 061-724 6421**

Date .....

28.11.75

Date ..... 1:55

Scale ..... 1:50

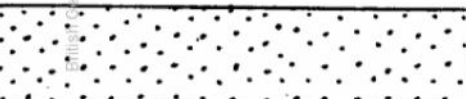
Job No. .... GC.75100/WM12

Location HANMER

Diameter 76mm

Ground level

Date .....

| Description of Strata              | Legend                                                                              | Depth | Thick-<br>ness | Sample |       | SPT<br>'N' Value | Water levels and<br>General Remarks |
|------------------------------------|-------------------------------------------------------------------------------------|-------|----------------|--------|-------|------------------|-------------------------------------|
|                                    |                                                                                     |       |                | Type   | Depth |                  |                                     |
| TOPSOIL                            |   | 0.56  | 0.56           |        |       |                  |                                     |
| COMPACT REDDISH BROWN<br>FINE SAND |  |       |                | SPT    | 0.91  | 15               |                                     |
|                                    |                                                                                     |       |                | SPT    | 1.82  | 19               |                                     |
|                                    |                                                                                     |       |                | SPT    | 2.74  | 22               |                                     |
| BOREHOLE COMPLETE                  |                                                                                     | 3.66  | 3.10           |        |       |                  | B.H. DRY                            |

# Geo - Civil

**Telephone 061-724 6421**

Diameter ..... 100mm

Date .....

**Ground level**

| Description of Strata                | Legend                                                                            | Depth | Thick-<br>ness | Sample |       | SPT<br>'N'<br>Value | Water levels and<br>General Remarks |
|--------------------------------------|-----------------------------------------------------------------------------------|-------|----------------|--------|-------|---------------------|-------------------------------------|
|                                      |                                                                                   |       |                | Type   | Depth |                     |                                     |
| TOPSOIL                              |  | 0.41  | 0.41           |        |       |                     |                                     |
| COMPACT BEDDISH GRAVEL<br>INCLUSIONS |  | 0.84  | 0.43           |        |       |                     |                                     |
|                                      |                                                                                   |       |                | SPT    | 0.91  | 12                  |                                     |
|                                      |                                                                                   |       |                | SPT    | 1.82  | 18                  |                                     |
|                                      |                                                                                   |       |                | SPT    | 2.74  | 21                  |                                     |
|                                      |                                                                                   | 3.66  | 2.82           |        |       |                     | B.H. DRY                            |
| BOREHOLE COMPLETE                    |                                                                                   |       |                |        |       |                     |                                     |

55432641  
45253980

## BOREHOLE RECORD SHEET No. 3

28.11.75

Scale 1:50

GC.75100/WM12

Location: HANMER

Location ..... 76mm

Ground level .....

| Description of Strata           | Legend | Depth | Thickness | Sample |       | SPT 'N' Value | Water levels and General Remarks |
|---------------------------------|--------|-------|-----------|--------|-------|---------------|----------------------------------|
|                                 |        |       |           | Type   | Depth |               |                                  |
| TOPSOIL                         |        | 0.15  | 0.15      |        |       |               |                                  |
| COMPACT REDDISH BROWN FINE SAND |        |       |           | SPT    | 0.91  | 10            |                                  |
|                                 |        |       |           | SPT    | 1.82  | 14            |                                  |
|                                 |        |       |           | SPT    | 2.74  | 19            |                                  |
| BOREHOLE COMPLETE               |        | 3.66  | 3.51      |        |       |               | B.H. ORY                         |

## BOREHOLE RECORD SHEET No. 4

**Telephone 081-724 8421**

**Ground level** .....

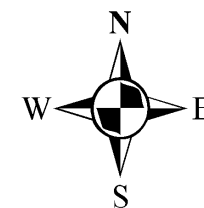
| Description of Strata           | Legend                                                                            | Depth | Thickness | Sample |       | SPT 'N' Value | Water levels and General Remarks |
|---------------------------------|-----------------------------------------------------------------------------------|-------|-----------|--------|-------|---------------|----------------------------------|
|                                 |                                                                                   |       |           | Type   | Depth |               |                                  |
| CLAY SOIL                       |  | 0.18  | 0.18      |        |       |               |                                  |
| COMPACT REDDISH BROWN FINE SAND |  |       |           | SPT    | 0.91  | 10            |                                  |
|                                 |                                                                                   |       |           | SPT    | 1.82  | 15            |                                  |
|                                 |                                                                                   |       |           | SPT    | 2.74  | 21            |                                  |
|                                 |                                                                                   | 3.66  | 3.48      |        |       |               | B.H. DRY                         |
| BOREHOLE COMPLETE               |  |       |           |        |       |               |                                  |
|                                 |                                                                                   |       |           |        |       |               |                                  |
|                                 |                                                                                   |       |           |        |       |               |                                  |



## Appendix 3 – Welsh Water

---

Land off Hanmer Arms



**LEGEND(Representative of most common features)**

|                         |                         |                        |                                                       |
|-------------------------|-------------------------|------------------------|-------------------------------------------------------|
| <b>Waste network:</b>   |                         |                        |                                                       |
| Foul chamber            | Surface water chamber   | Outfall                | Lamphole                                              |
| Combined chamber        | Combined sewer overflow | Storm Overflow         | Rising main                                           |
| Special purpose chamber | Gravity sewer           | Private sewer          | Private sewer subject to Sect. 104 adoption agreement |
| Treatment works         | Pumping station         | Private Sewer Transfer | Lateral Drain                                         |
| Inspection Chamber      |                         |                        |                                                       |

NB: Sewer symbol colour indicates the type.  
RED - Combined  
GREEN - Surface Water  
BROWN - Foul  
Purple - Former S24 sewers (for indicative purposes only)

**Notes:**

Whilst every reasonable effort has been taken to correctly record the pipe material of DCWW assets, there is a possibility that in some cases pipe material (other than Asbestos Cement or Pitch Fibre) may be found to be asbestos cement (AC) or Pitch Fibre (PF). It is therefore advisable that the possible presence of AC or PF pipes be anticipated and considered as part of any risk assessment prior to excavation.

Dŵr Cymru Cyfyngedig ('the Company') gives this information as to the position of its underground apparatus by way of general guidance only and on the strict understanding that it is based on the best information available and no warranty as to its correctness is relied upon in the event of excavations or other works made in the vicinity of the company's apparatus. The onus of locating apparatus before carrying out any excavations rests entirely on you. The information which is supplied by the Company, is done so in accordance with statutory requirements of sections 198 and 199 of the Water Industry Act 1991 which is based upon the best information available and, in particular, but without prejudice to the generality of the foregoing, it should be noted that the records that are available to the Company may not disclose the existence of a water main, service pipe, sewer, lateral drain or disposal main and any associated apparatus laid before 1 September 1989, or, if they do, the particulars thereof including their position underground may not be accurate. It must be understood that the furnishing of this information is entirely without prejudice to the provision of the New Roads and Street Works Act 1991 and the Company's right to be compensated for any damage to its apparatus.

Service pipes are not generally shown but their presence should be anticipated.

**EXACT LOCATIONS OF ALL APPARATUS  
TO BE DETERMINED ON SITE.**

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Map Ref: 345389,339879  
Map scale: 1:2500  
Printed by: John Emma  
Printed on: 19 Jul 2019

Mr Eric O'Connor  
Enzygo Ltd  
Stocksbridge  
South Yorkshire  
S36 2AA

**Date: 28/08/2020**  
**Our Ref: PPA0005093**

Dear Mr O'Connor

**Site Address: Land at Hanmer Arms, Hanmer, Whitchurch**  
**Development: 10 Residential Dwellings**

I refer to your pre-planning enquiry received relating to the above site, seeking our views on the capacity of our network of assets and infrastructure to accommodate your proposed development. Having reviewed the details submitted I can provide the following comments which should be taken into account within any future planning application for the development.

**APPRAISAL**

Firstly, we note that the proposal relates to touring park for 10 dwellings at Land at Hanmer Arms and acknowledge that the site comprises of a potential windfall development with no allocated status in the Local Development Plan (LDP). Accordingly, whilst it does not appear an assessment has been previously undertaken of the public sewerage system, we offer the following comments as part of our appraisal of this development.

**Public Sewerage Network**

The proposed development site is located in the immediate vicinity of a separate sewerage system, comprising foul and surface water public sewers, which drains to Penley Wastewater Treatment Works (WwTW)

**Standard Advisory Note**

You are also advised that some public sewers and lateral drains may not be recorded on our maps of public sewers because they were originally privately owned and were transferred into public ownership by nature of the Water Industry (Schemes for Adoption of Private Sewers) Regulations 2011. The presence of such assets may affect the proposal. In order to assist you may contact Dwr Cymru Welsh Water on 0800 085 3968 to establish the location and status of the apparatus in and around your site. Please be mindful that under the Water Industry Act 1991 Dwr Cymru Welsh Water has rights of access to its apparatus at all times.

## **Surface Water Drainage**

With respect to the disposal of surface water flows from the proposed development, the developer is required to explore and fully exhaust all surface water drainage options outlined under Sections 3.2 and 3.4 of Part H of the publication 'Building Regulations 2000. Disposal should be made through the hierarchical approach, preferring infiltration and, where infiltration is not possible, disposal to watercourses in liaison with the Land Drainage Authority, Natural England and/or the Environment Agency. Discharge of surface water to the public sewer is only to be made as a last resort.

In addition, please note that no highway or land drainage run-off will be permitted to discharge directly or indirectly into the public sewerage system.

## **Foul Water Drainage – Sewerage Network**

We have considered the impact of foul flows generated by the proposed development and concluded that flows can be accommodated within the public sewerage system. We advise that the flows should be connected to the foul sewer downstream of manhole SJ45395754 located to the South East of the site.

Should a planning application be submitted for this development we will seek to control these points of communication via appropriate planning conditions and therefore recommend that any drainage layout or strategy submitted as part of your application takes this into account. However, should you wish for an alternative connection point to be considered please provide further information to us in the form of a drainage strategy, preferably in advance of a planning application being submitted.

## **Standard Advisory Note**

You may need to apply to Dwr Cymru Welsh Water for any connection to the public sewer under Section 106 of the Water Industry Act 1991. However, if the connection to the public sewer network is either via a lateral drain (i.e. a drain which extends beyond the connecting property boundary) or via a new sewer (i.e. serves more than one property), it is now a mandatory requirement to first enter into a Section 104 Adoption Agreement (Water Industry Act 1991). The design of the sewers and lateral drains must also conform to the Welsh Ministers Standards for Foul Sewers and Lateral Drains, and conform with the publication "Sewers for Adoption"- 7th Edition. Further information can be obtained via the Developer Services pages of [www.dwrcymru.com](http://www.dwrcymru.com).

## **WATER SUPPLY**

We do not serve this area with a potable water supply, we advise the applicant to discuss development proposals with the local water provider

## **SEWAGE TREATMENT**



Welsh Water is owned by Glas Cymru – a 'not-for-profit' company.  
Mae Dwr Cymru yn eiddo i Glas Cymru – cwmni 'nid-er-elw'.

We welcome correspondence in  
Welsh and English

Dŵr Cymru Cyf, a limited company registered in  
Wales no 2366777. Registered office: Pentwyn Road,  
Nelson, Treharris, Mid Glamorgan CF46 6LY

Rydym yn croesawu gohebiaeth yn y  
Gymraeg neu yn Saesneg

Dŵr Cymru Cyf, cwmni cyfyngedig wedi'i gofrestru yng  
Nghymru rhif 2366777. Swyddfa gofrestredig: Heol Pentwyn  
Nelson, Treharris, Morgannwg Ganol CF46 6LY.

No problems are envisaged with the Waste Water Treatment Works for the treatment of domestic discharges from this site. No chemical toilet waste from touring caravans to be disposed of to sewer.

I trust the above information is helpful and will assist you in forming water and drainage strategies that should accompany any future planning application. I also attach copies of our water and sewer extract plans for the area, and a copy of our Planning Guidance Note which provides further information on our approach to the planning process, making connections to our systems and ensuring any existing public assets or infrastructure located within new development sites are protected.

Please note that our response is based on the information provided in your enquiry and should the information change we reserve the right to make a new representation. Should you have any queries or wish to discuss any aspect of our response please do not hesitate to contact our dedicated team of planning officers, either on 0800 917 2652 or via email at [developer.services@dwrcymru.com](mailto:developer.services@dwrcymru.com)

Please quote our reference number in all communications and correspondence.

Yours faithfully,



**Owain George**  
**Planning Liaison Manager**  
**Developer Services**

***Please Note that demands upon the water and sewerage systems change continually; consequently the information given above should be regarded as reliable for a maximum period of 12 months from the date of this letter.***

## **Consultation Details**

### **Consultation#1**

Consultee: Rhodri Perry

Consultation Date: 26/08/2020

Consultation Outcome:

### **Consultation#2**

Consultee: Rhodri Perry

Consultation Date: 27/08/2020



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We welcome correspondence in  
Welsh and English

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Wales no 2366777. Registered office: Pentwyn Road,  
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## Consultation Outcome: APPRAISAL

Firstly, we note that the proposal relates to touring park for 10 dwellings at Land at Hanmer Arms and acknowledge that the site comprises of a potential windfall development with no allocated status in the Local Development Plan (LDP). Accordingly, whilst it does not appear an assessment has been previously undertaken of the public sewerage system, we offer the following comments as part of our appraisal of this development.

### Public Sewerage Network

The proposed development site is located in the immediate vicinity of a separate sewerage system, comprising foul and surface water public sewers, which drains to Penley Wastewater Treatment Works (WwTW)

### 3. Standard Advisory Note

You are also advised that some public sewers and lateral drains may not be recorded on our maps of public sewers because they were originally privately owned and were transferred into public ownership by nature of the Water Industry (Schemes for Adoption of Private Sewers) Regulations 2011. The presence of such assets may affect the proposal. In order to assist you may contact Dwr Cymru Welsh Water on 0800 085 3968 to establish the location and status of the apparatus in and around your site. Please be mindful that under the Water Industry Act 1991 Dwr Cymru Welsh Water has rights of access to its apparatus at all times.

### Surface Water Drainage

With respect to the disposal of surface water flows from the proposed development, the developer is required to explore and fully exhaust all surface water drainage options outlined under Sections 3.2 and 3.4 of Part H of the publication 'Building Regulations 2000. Disposal should be made through the hierarchical approach, preferring infiltration and, where infiltration is not possible, disposal to watercourses in liaison with the Land Drainage Authority, Natural England and/or the Environment Agency. Discharge of surface water to the public sewer is only to be made as a last resort.

In addition, please note that no highway or land drainage run-off will be permitted to discharge directly or indirectly into the public sewerage system.

### Foul Water Drainage – Sewerage Network



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We have considered the impact of foul flows generated by the proposed development and concluded that flows can be accommodated within the public sewerage system. We advise that the flows should be connected to the foul sewer downstream of manhole SJ45395754 located [in highway/road] to the South East of the site.

Should a planning application be submitted for this development we will seek to control these points of communication via appropriate planning conditions and therefore recommend that any drainage layout or strategy submitted as part of your application takes this into account. However, should you wish for an alternative connection point to be considered please provide further information to us in the form of a drainage strategy, preferably in advance of a planning application being submitted.

#### Standard Advisory Note

You may need to apply to Dwr Cymru Welsh Water for any connection to the public sewer under Section 106 of the Water Industry Act 1991. However, if the connection to the public sewer network is either via a lateral drain (i.e. a drain which extends beyond the connecting property boundary) or via a new sewer (i.e. serves more than one property), it is now a mandatory requirement to first enter into a Section 104 Adoption Agreement (Water Industry Act 1991). The design of the sewers and lateral drains must also conform to the Welsh Ministers Standards for Foul Sewers and Lateral Drains, and conform with the publication "Sewers for Adoption"- 7th Edition. Further information can be obtained via the Developer Services pages of [www.dwrcymru.com](http://www.dwrcymru.com).

#### Consultation#3

Consultee: Louise Gaskin

Consultation Date: 17/08/2020

Consultation Outcome:

#### Consultation#4

Consultee: [CONSULTEE4]

Consultation Date: [CONSULTATION\_DATE4]

Consultation Outcome: [CONSULTATION\_OUTCOME4]

#### Consultation#5

Consultee: [CONSULTEE5]

Consultation Date: [CONSULTATION\_DATE5]

Consultation Outcome: [CONSULTATION\_OUTCOME5]

#### Consultation#6



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Consultee: [CONSULTEE6]  
Consultation Date: [CONSULTATION\_DATE6]  
Consultation Outcome: [CONSULTATION\_OUTCOME6]

#### **Consultation#7**

Consultee: [CONSULTEE7]  
Consultation Date: [CONSULTATION\_DATE7]  
Consultation Outcome: [CONSULTATION\_OUTCOME7]

#### **Consultation#8**

Consultee: [CONSULTEE8]  
Consultation Date: [CONSULTATION\_DATE8]  
Consultation Outcome: [CONSULTATION\_OUTCOME8]

#### **Consultation#9**

Consultee: [CONSULTEE9]  
Consultation Date: [CONSULTATION\_DATE9]  
Consultation Outcome: [CONSULTATION\_OUTCOME9]

#### **Consultation#10**

Consultee: [CONSULTEE10]  
Consultation Date: [CONSULTATION\_DATE10]  
Consultation Outcome: [CONSULTATION\_OUTCOME10]

#### **Consultation#11**

Consultee: [CONSULTEE11]  
Consultation Date: [CONSULTATION\_DATE11]  
Consultation Outcome: [CONSULTATION\_OUTCOME11]

#### **Consultation#12**

Consultee: [CONSULTEE12]  
Consultation Date: [CONSULTATION\_DATE12]  
Consultation Outcome: [CONSULTATION\_OUTCOME12]



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## **Appendix 4 – Wrexham Borough Council Correspondence**

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In pursuance of its powers under the Acts and Orders referred to below, the County Borough Council as Local Planning Authority, hereby determines your application in accordance with the particulars and plans comprising the application

|                  |                                                                                               |                      |                 |
|------------------|-----------------------------------------------------------------------------------------------|----------------------|-----------------|
| <b>Applicant</b> | MR SCHOFIELD CARLTON HOLDINGS                                                                 | <b>Code Number</b>   | HAN P/2020/0100 |
| <b>Agent</b>     | RICHARD LEE PROJECT PLANNING<br>MR RICHARD LEE<br>29<br>CLONNERS FIELD<br>NANTWICH<br>CW5 7GU | <b>Date Received</b> | 13/03/2020      |
|                  |                                                                                               | <b>Decision Date</b> | 27/07/2020      |

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### **Town and Country Planning Act, 1990**

#### **Location of application**

LAND TO THE NORTH OF, HANMER ARMS, HANMER VILLAGE ROAD, HANMER, WHITCHURCH, SY13 3DE

#### **Description of application**

CHANGE OF USE OF LAND TO PROVIDE A TOURING CARAVAN PARK, AMENITY BUILDING AND ASSOCIATED WORKS

In reaching this decision the Council has had regard to the relevant policies in the Wrexham Unitary Development Plan which are as follows:-

| Revision | Date | Description of Decision    |
|----------|------|----------------------------|
| 0        |      | Planning permission issued |

#### **Particulars of decision that permission be GRANTED**

##### **Subject to the following:-**

#### **Condition(s)**

1. The development hereby permitted shall be commenced before the expiry of five years from the date of this permission.
2. The development shall only be carried out in strict accordance with the details shown on the approved drawing(s) numbered 1:1250 Site Location Plan Rev D, 1:500 Proposed Site Plan, 1:50 Elevations & Floor Plans Amenity Building, 1:500 Location of Site Sections Plan, 1:500 Site Sections Plan and as contained within the application documentation.
3. This permission shall operate between the months of April 1st and October 1st only.
4. The site shall be used for touring purposes only and shall not be used for the storage of caravans which are not in use.

|                  |                                                                                                  |                          |                 |
|------------------|--------------------------------------------------------------------------------------------------|--------------------------|-----------------|
| <b>Applicant</b> | MR SCHOFIELD<br>CARLTON HOLDINGS                                                                 | <b>Code<br/>Number</b>   | HAN P/2020/0100 |
| <b>Agent</b>     | RICHARD LEE PROJECT<br>PLANNING<br>MR RICHARD LEE<br>29<br>CLONNERS FIELD<br>NANTWICH<br>CW5 7GU | <b>Date<br/>Received</b> | 13/03/2020      |
|                  |                                                                                                  | <b>Decision<br/>Date</b> | 27/07/2020      |

5. No part of the development shall commence until full details of both hard and soft landscape works, to include some native planting has been submitted to and approved in writing by the Local Planning Authority. The plan shall include a timescale for the implementation of works, and shall provide for ecological improvement / habitat creation and enhancement in the soft landscape areas for the benefit of biodiversity conservation specifically tailored to the landscape features.

6. The landscaping scheme submitted and approved in connection with condition no. 5 shall be fully implemented in all respects within the agreed timescale and in strict accordance with the approved scheme.

7. Prior to their use on the development samples of all external facing and roofing materials shall be submitted to and approved in writing by the Local Planning Authority. The development shall only be carried out in strict accordance with such details as are approved.

8. Prior to commencement of development, details of the materials and finish used for the access road, all vehicular parking area and footpath within the site shall be submitted to and approved in writing by the Local Planning Authority. The development shall only be carried out in strict accordance with such details as are approved.

9. The existing vehicular access located north of the application site and adjacent to the A539 shall be permanently closed up prior to first use of the new vehicular access hereby approved.

10. No part of the development shall commence until a scheme detailing the construction of the following has been submitted to and approved in writing by the Local Planning Authority:

1) Detailed layout, design, drainage and construction of the proposed new footway

The scheme as is approved shall be fully implemented prior to first use of the development.

11. No development shall commence until a foul water drainage scheme for the site has been submitted to and approved in writing by the local planning authority. The scheme shall provide for the disposal of foul water flows and thereafter implemented in accordance with the approved details prior to the occupation of the development.

12. Within 3 months of commencement of development a scheme of external lighting shall be submitted to and approved in writing by the Local Planning Authority. The lighting as is approved shall be installed in strict accordance with the scheme prior to first use of the development and shall thereafter be permanently retained in a fully operational condition.

|                  |                                                                                                  |                          |                 |
|------------------|--------------------------------------------------------------------------------------------------|--------------------------|-----------------|
| <b>Applicant</b> | MR SCHOFIELD<br>CARLTON HOLDINGS                                                                 | <b>Code<br/>Number</b>   | HAN P/2020/0100 |
| <b>Agent</b>     | RICHARD LEE PROJECT<br>PLANNING<br>MR RICHARD LEE<br>29<br>CLONNERS FIELD<br>NANTWICH<br>CW5 7GU | <b>Date<br/>Received</b> | 13/03/2020      |
|                  |                                                                                                  | <b>Decision<br/>Date</b> | 27/07/2020      |

13. Prior to commencement of development, full details of the Great Crested Newt Mitigation Plan shall be submitted to and approved in writing by the Local Planning Authority. The report shall include an Ecological Method Statement demonstrating / identifying any measures of protection / compensation / mitigation and demonstrate management in the short or long term. The recommendations as approved shall be implemented in strict accordance with timescales to be agreed.

14. No part of the development shall commence until a detailed Arboricultural Method Statement has been submitted to and approved in writing by the Local Planning Authority. No development or other operations shall take place except in strict accordance with the Method Statement as is approved. The Method Statement shall include the following:

- a) A specification for tree protection fencing and ground protection measures that comply with British Standard 5837:2012;
- b) A Tree Protection Plan showing the location of the trees to be removed and retained with their crown spreads, Root Protection Areas, Construction Exclusion Zones, and location of protective fencing and ground protection measures accurately plotted;
- c) A full specification for any access, driveway, path, underground services or wall foundations within retained tree Root Protection Areas or Construction Exclusion Zone, including any related sections and method for avoiding damage to retained trees;
- d) Details of general arboricultural matters including proposed practices with regards to cement mixing, material storage and fires;
- e) Details of the frequency of supervisory visits and procedures for notifying the findings of such visits to the Local Planning Authority;
- f) Method for protecting retained trees during demolition works;
- g) Details of all proposed tree works, including felling and pruning.

### **Reason(s)**

1. To comply with Section 91(3) of the Town and Country Planning Act, 1990.
2. To comply with section 71ZA (2) of the Town and Country Planning Act 1990.
3. In the interest of safeguarding the visual amenity of the area in accordance with UDP Policy GDP1.
4. In the interest of safeguarding the visual amenity of the area in accordance with UDP Policy GDP1.

|                  |                                                                                                  |                          |                 |
|------------------|--------------------------------------------------------------------------------------------------|--------------------------|-----------------|
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|                  |                                                                                                  | <b>Decision<br/>Date</b> | 27/07/2020      |

5. To protect Great Crested Newts which would otherwise be damaged / lost by the development hereby permitted in accordance with Policies GDP1 and EC6 of the Wrexham Unitary Development Plan.
6. To ensure a satisfactory standard of appearance of the development in the interests of the visual amenities of the area in accordance with Policies GDP1 and PS2 of the Wrexham Unitary Development Plan.
7. To ensure a satisfactory standard of appearance of the development in the interests of the visual amenities of the area in accordance with Policies GDP1 and PS2 of the Wrexham Unitary Development Plan.
9. In the interests of highway safety in accordance with Policy GDP1 of the Wrexham Unitary Development Plan.
10. In the interests of highway safety in accordance with Policy GDP1 of the Wrexham Unitary Development Plan.
11. Reason: To prevent hydraulic overloading of the public sewerage system, to protect the health and safety of existing residents and ensure no pollution of or detriment to the environment.
12. To safeguard the character and appearance of the Conservation Area in accordance with UDP Policy EC7.
13. To protect Great Crested Newts which would otherwise be damaged / lost by the development hereby permitted in accordance with Policies GDP1 and EC6 of the Wrexham Unitary Development Plan.
14. To ensure the work is carried out to accepted arboricultural practices for the long term wellbeing of the tree(s) in accordance with Policies GDP1, PS2 and EC4 of the Wrexham Unitary Development Plan.

### **Note(s) to applicant**

The applicant is advised that subject to planning permission being granted, prior to use the applicant/site owner must apply for a Caravan Site licence under the Caravan Sites and Control of Development Act 1960. An application can be made online at:

[https://www.wrexham.gov.uk/english/env\\_services/licensing/eu\\_directive/caravan\\_and\\_camping\\_site\\_licence.htm](https://www.wrexham.gov.uk/english/env_services/licensing/eu_directive/caravan_and_camping_site_licence.htm)

To obtain further information on site conditions imposed on caravan sites please contact Health and Housing

Team [healthandhousing@wrexham.gov.uk](mailto:healthandhousing@wrexham.gov.uk) or call 01978 292040.

|                  |                                                                                                  |                          |                 |
|------------------|--------------------------------------------------------------------------------------------------|--------------------------|-----------------|
| <b>Applicant</b> | MR SCHOFIELD<br>CARLTON HOLDINGS                                                                 | <b>Code<br/>Number</b>   | HAN P/2020/0100 |
| <b>Agent</b>     | RICHARD LEE PROJECT<br>PLANNING<br>MR RICHARD LEE<br>29<br>CLONNERS FIELD<br>NANTWICH<br>CW5 7GU | <b>Date<br/>Received</b> | 13/03/2020      |
|                  |                                                                                                  | <b>Decision<br/>Date</b> | 27/07/2020      |



**Officer Appointed for this purpose  
Chief Officer Planning & Regulatory**

Refer to Statement of Applicant's Rights and General Information on our planning web site at:-

[http://www.wrexham.gov.uk/english/planning\\_portal/publications/info\\_sheets.htm](http://www.wrexham.gov.uk/english/planning_portal/publications/info_sheets.htm)



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