



# **Mallard Pass**

Solar Farm

## **Mallard Pass Solar Farm**

**Scoping Report**

**Technical Appendices**

**February 2022**



# **Mallard Pass**

Solar Farm

## **Mallard Pass Solar Farm**

**Scoping Report**

**Appendix 6.1: EIA Regulations,  
Schedule 4 - Information For  
Inclusion in Environmental Statements**

**February 2022**

- (a) the magnitude and spatial extent of the impact (for example geographical area and size of the population likely to be affected);
- (b) the nature of the impact;
- (c) the transboundary nature of the impact;
- (d) the intensity and complexity of the impact;
- (e) the probability of the impact;
- (f) the expected onset, duration, frequency and reversibility of the impact;
- (g) the cumulation of the impact with the impact of other existing and/or approved development;
- (h) the possibility of effectively reducing the impact.

## SCHEDULE 4

Regulation 18(3)

### INFORMATION FOR INCLUSION IN ENVIRONMENTAL STATEMENTS

**1.** A description of the development, including in particular:

- (a) a description of the location of the development;
- (b) a description of the physical characteristics of the whole development, including, where relevant, requisite demolition works, and the land-use requirements during the construction and operational phases;
- (c) a description of the main characteristics of the operational phase of the development (in particular any production process), for instance, energy demand and energy used, nature and quantity of the materials and natural resources (including water, land, soil and biodiversity) used;
- (d) an estimate, by type and quantity, of expected residues and emissions (such as water, air, soil and subsoil pollution, noise, vibration, light, heat, radiation and quantities and types of waste produced during the construction and operation phases.

**2.** A description of the reasonable alternatives (for example in terms of development design, technology, location, size and scale) studied by the developer, which are relevant to the proposed project and its specific characteristics, and an indication of the main reasons for selecting the chosen option, including a comparison of the environmental effects.

**3.** A description of the relevant aspects of the current state of the environment (baseline scenario) and an outline of the likely evolution thereof without implementation of the development as far as natural changes from the baseline scenario can be assessed with reasonable effort on the basis of the availability of environmental information and scientific knowledge.

**4.** A description of the factors specified in regulation 4(2) likely to be significantly affected by the development: population, human health, biodiversity (for example fauna and flora), land (for example land take), soil (for example organic matter, erosion, compaction, sealing), water (for example hydromorphological changes, quantity and quality), air, climate (for example greenhouse gas emissions, impacts relevant to adaptation), material assets, cultural heritage, including architectural and archaeological aspects, and landscape.

**5.** A description of the likely significant effects of the development on the environment resulting from, inter alia:

- (a) the construction and existence of the development, including, where relevant, demolition works;
- (b) the use of natural resources, in particular land, soil, water and biodiversity, considering as far as possible the sustainable availability of these resources;

- (c) the emission of pollutants, noise, vibration, light, heat and radiation, the creation of nuisances, and the disposal and recovery of waste;
- (d) the risks to human health, cultural heritage or the environment (for example due to accidents or disasters);
- (e) the cumulation of effects with other existing and/or approved projects, taking into account any existing environmental problems relating to areas of particular environmental importance likely to be affected or the use of natural resources;
- (f) the impact of the project on climate (for example the nature and magnitude of greenhouse gas emissions) and the vulnerability of the project to climate change;
- (g) the technologies and the substances used.

The description of the likely significant effects on the factors specified in regulation 4(2) should cover the direct effects and any indirect, secondary, cumulative, transboundary, short-term, medium-term and long-term, permanent and temporary, positive and negative effects of the development. This description should take into account the environmental protection objectives established at Union or Member State level which are relevant to the project, including in particular those established under Council Directive 92/43/EEC(a) and Directive 2009/147/EC(b).

**6.** A description of the forecasting methods or evidence, used to identify and assess the significant effects on the environment, including details of difficulties (for example technical deficiencies or lack of knowledge) encountered compiling the required information and the main uncertainties involved.

**7.** A description of the measures envisaged to avoid, prevent, reduce or, if possible, offset any identified significant adverse effects on the environment and, where appropriate, of any proposed monitoring arrangements (for example the preparation of a post-project analysis). That description should explain the extent, to which significant adverse effects on the environment are avoided, prevented, reduced or offset, and should cover both the construction and operational phases.

**8.** A description of the expected significant adverse effects of the development on the environment deriving from the vulnerability of the development to risks of major accidents and/or disasters which are relevant to the project concerned. Relevant information available and obtained through risk assessments pursuant to EU legislation such as Directive 2012/18/EU(c) of the European Parliament and of the Council or Council Directive 2009/71/Euratom(d) or UK environmental assessments may be used for this purpose provided that the requirements of this Directive are met. Where appropriate, this description should include measures envisaged to prevent or mitigate the significant adverse effects of such events on the environment and details of the preparedness for and proposed response to such emergencies.

**9.** A non-technical summary of the information provided under paragraphs 1 to 8.

**10.** A reference list detailing the sources used for the descriptions and assessments included in the environmental statement.

## **EXPLANATORY NOTE**

*(This note is not part of the Regulations)*

These Regulations consolidate with amendments the provisions of the Town and Country Planning (Environmental Impact Assessment) Regulations 2011(e) (“the 2011 Regulations”) and subsequent amending instruments.

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(a) OJ No. L 206, 22.7.1992, p.7.  
 (b) OJ No. L 20, 26.1.2010, p.7.  
 (c) OJ No. L 197, 24.7.2012, p. 1.  
 (d) OJ No. L 172, 2.7.2009, p. 18.  
 (e) S.I. 2011/1824.

These Regulations also implement amendments to Directive 2011/92/EU of the European Parliament and of the Council of 13 December 2011 on the assessment of the effects of certain public and private projects on the environment<sup>(a)</sup> (“the Directive”) which were made by Directive 2014/52/EU<sup>(b)</sup>.

These Regulations implement the Directive in respect of the town and country planning system in England only. Regulations 60, 61 and 62 extend to Scotland, Wales and Northern Ireland respectively; they enable the Secretary of State to exempt developments having national defence as their sole purpose from the environmental impact assessment (“EIA”) procedures which would ordinarily be applicable under the town and country planning systems in each of the devolved administrations.

The main changes from the 2009 Regulations are:

- to the circumstances in which a project may be exempt from the EIA process;
- to the introduction of co-ordinated procedures for projects which are also subject to assessment under Council Directive 92/43/EEC<sup>(c)</sup> on the conservation of natural habitats and of wild fauna and flora or Directive 2009/147/EC of the European Parliament and of the Council on the conservation of Wild Birds<sup>(d)</sup>;
- to the list of environmental factors to be considered as part of the EIA process;
- to the information to be provided to inform a screening decision and the criteria to be applied when making a screening decision;
- to the way in which an environmental statement is to be prepared, including an amendment to the information to be included in it, the introduction of a requirement that it be based upon a scoping opinion (where one has been obtained) and a requirement that it be prepared by a competent expert;
- to the means by which the public is to be informed of projects which are subject to the EIA process; and
- the introduction of a requirement for decision-makers to avoid conflicts of interest.

These Regulations were notified to the European Commission in accordance with Article 2 of Directive 2014/52/EU<sup>(e)</sup>.

It is normal practice to make available to Parliament, alongside primary or secondary legislation giving effect to European Directives, a Transposition Note that sets out how the Government will transpose the main elements of those Directives into UK law. The Transposition Note accompanying the Explanatory Memorandum to these Regulations is available from [legislation.gov.uk](http://legislation.gov.uk).

A full regulatory impact assessment has not been produced for this instrument as no impact on the private or voluntary sectors is foreseen.

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(a) OJ No. L 26, 28.1.2012, p. 1-21.  
(b) OJ No. L 124, 25.4.2014, p. 1-18.  
(c) OJ No. L 206, 22.7.1992, p.7.  
(d) OJ No. L 20, 26.1.2010, p. 7.  
(e) OJ No. L 124, 25.4.2014, p. 1-18.





# **Mallard Pass**

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## **Mallard Pass Solar Farm**

**Scoping Report**

**Appendix 6.2: Transboundary  
Effects Screening Proforma**

**February 2022**

## 6.2. Transboundary Effects Screening Proforma

- 6.2.1. Regulation 32 of the Infrastructure Planning (EIA) Regulations, 2017 require the consideration of any likely significant effects in the environment of another European Economic Area (EEA) member state.
- 6.2.2. Guidance of the consideration of transboundary effects is provided in PINS' Advice Note 12 'Transboundary Impacts and Process', published in December 2020.
- 6.2.3. Annex 1 of Advice Note Twelve sets out the transboundary screening proforma for potential effects on the environment on another EEA member state. The following screening matrix provides the consideration of transboundary effects for the Proposed Development, guided by PINS' Advice Note Twelve.

Transboundary Screening Criteria	Commentary
<p><b>Characteristics of the Development:</b></p> <ul style="list-style-type: none"> <li>• Size of the development</li> <li>• Use of natural resources</li> <li>• Production of waste</li> <li>• Pollution and Nuisances</li> <li>• Risk of accidents</li> <li>• Use of technologies</li> </ul>	<p>The resources required for the construction of the Proposed Development are likely to be obtained from the global market but it is anticipated that construction materials will be obtained locally wherever possible. No waste, nuisances or accidents are likely and would not extend beyond the UK boarder. Technologies adopted for the Proposed Development are not anticipated to generate transboundary effects.</p>
<p><b>Location of the Development (including existing use) and Geographical area:</b></p> <ul style="list-style-type: none"> <li>• What is the existing use?</li> <li>• What is the distance to the EEA states?</li> <li>• What is the extent of the area of a likely impact under the jurisdiction of an EEA state?</li> </ul>	<p>The nearest EEA to the Site is France, which is located approximately 243km, at its closest point to the south-east of the Site.</p> <p>No impacts are likely to extend beyond the jurisdiction of the UK, with the exception of potential greenhouse gas (GHG) emissions. The Proposed Development will not emit GHG emissions during its operation (except for any GHG emissions associated with occasional maintenance vehicles travelling to and from the Site).</p>
<p><b>Environmental Importance:</b></p> <ul style="list-style-type: none"> <li>• Are particular environmental values (e.g. protected areas) likely to be affected?</li> </ul>	<p>There are two European designated ecological sites within 10km of the Site.</p> <p>The potential for significant effects relating to these designated sites will be accounted for as part of the EIA process. However, it is not anticipated that there is potential for</p>



<b>Transboundary Screening Criteria</b>	<b>Commentary</b>
<ul style="list-style-type: none"> <li>Capacity of the natural environment.</li> <li>Wetlands, coastal zones, mountain and forest areas, nature reserves and parks, Natura 2000 sites, areas where environmental quality standards already exceeded, densely populated areas, landscapes of historical, cultural or archaeological significance.</li> </ul>	<p>transboundary effects (and therefore any effects on important environmental receptors beyond the UK).</p>
<p><b>Potential impacts and Carrier:</b></p> <ul style="list-style-type: none"> <li>By what means could impacts be spread (i.e. what pathways)?</li> </ul>	<p>GHG emissions is the only likely potential transboundary environmental impact. GHG emissions would be spread by atmospheric processes. The Proposed Development is expected to offset GHG emissions through the generation of clean electricity, that otherwise would have been generated from a typical fuel mix comprising technologies such as gas fired power stations.</p>
<p><b>Extent:</b></p> <ul style="list-style-type: none"> <li>What is the likely extent of the impact (geographical area and size of the affected population)?</li> </ul>	<p>The only potential transboundary environmental impact which is considered likely is from GHG emissions, which are known to contribute to changes on climate on a global scale and therefore has the potential to (beneficially) impact all EEA member states.</p>
<p><b>Magnitude:</b></p> <ul style="list-style-type: none"> <li>What will the likely magnitude of the change in relevant variables relative to the status quo, taking into account the sensitivity of the variable?</li> </ul>	<p>The impact of GHG emissions is considered irreversible within human lifetimes; however, the emissions generated by the Proposed Development are expected to be minimal during construction (approximately 24 months duration) and decommissioning (approximately six to</p>

**Transboundary Screening Criteria**

**Commentary**

**Probability:**

- What is the degree of probability of the impact?
- Is the impact likely to occur as a consequence of normal conditions or exceptional situations, such as accidents?

twelve months duration) and is expected to lead to a beneficial contribution to UK GHG emissions during its operation. The temporal pattern of GHG emissions is likely to be similar during the construction and decommissioning phases of the Proposed Development

**Duration:**

- What is the degree of probability of the impact?
- Is the impact likely to occur as a consequence of normal conditions or exceptional situations, such as accidents?

Due to the global nature of climate change impacts, transboundary impacts will be considered within the climate change chapter of the ES. However, the emissions generated by the Proposed Development are expected to be minimal during the construction and decommissioning phases (24 months and six to twelve months, respectively) and is anticipated to result in an overall beneficial contribution to the UK's GHG emissions during its operation. The GHG emissions offset through the production of cleaner electricity during the operation of the Proposed Development will be accounted for within the GHG emissions assessment.

**Frequency:**

- What is likely to be the temporal pattern of the impact?

The receptor for GHG emissions is the global atmosphere rather than individual countries, and it is not currently possible to determine if GHG emissions would change atmospheric processes or affect a particular country or state. There is therefore no potential for significant effects on the environment of any EEA State or group of EEA States resulting from GHG emissions from the Proposed Development. The assessment will present the GHG emissions and compare them with the UK national emissions inventory; transboundary effects from GHG emissions will not be considered further in the EIA.

**Reversibility:**

- Is the impact likely to be reversible or irreversible?

**Cumulative Impacts:**

- Are other major developments close by?

Other schemes within 10km of the Site will be taken into consideration in the EIA process. However, it is not anticipated that there is potential for significant cumulative transboundary effects.





# **Mallard Pass**

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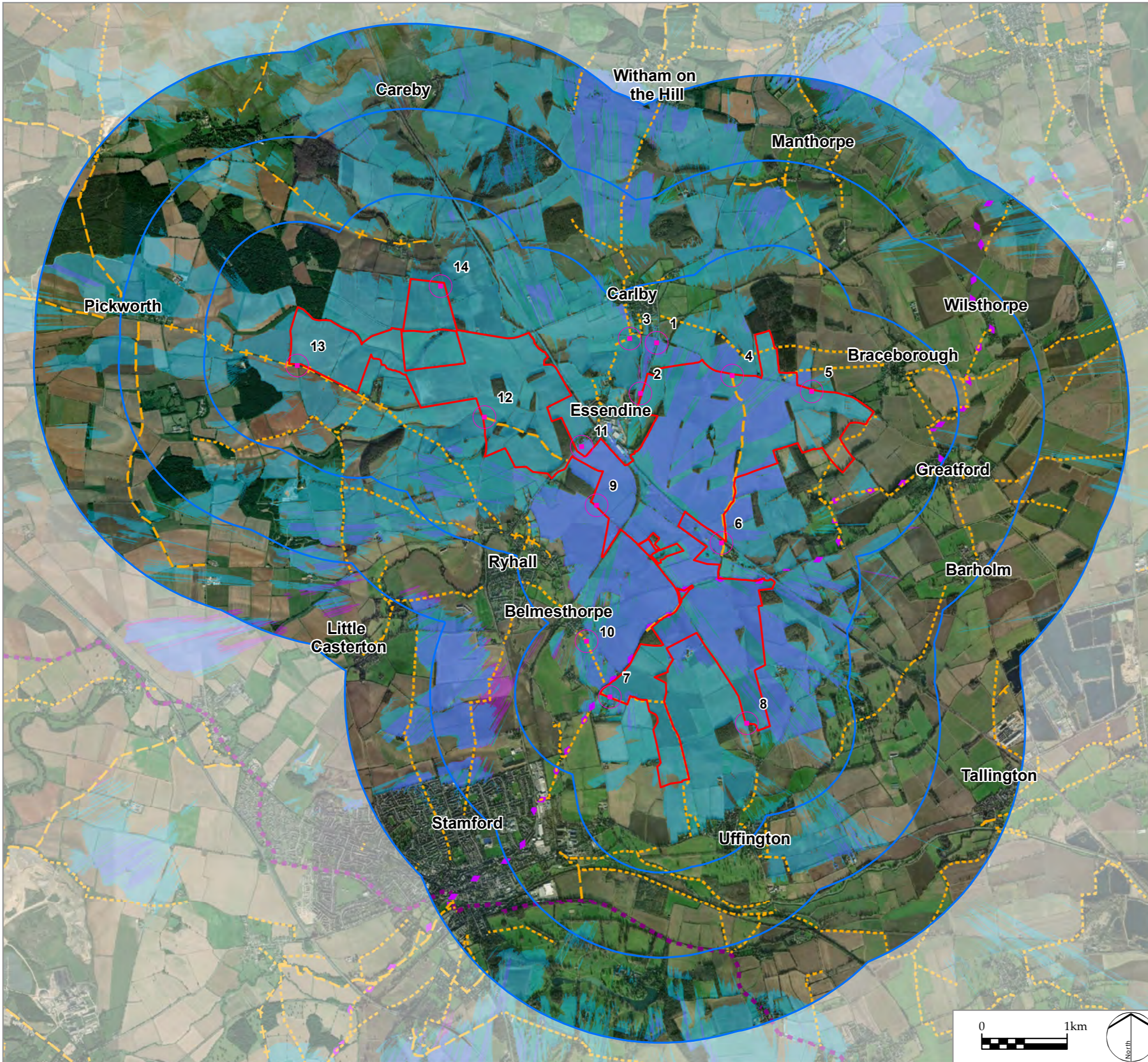
**Scoping Report**

**Appendix 7.1: Zone of Theoretical  
Visibility (ZTV) and Viewpoint**

**Location Plan**

**February 2022**

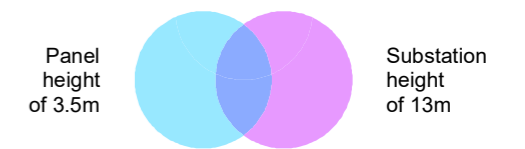
Z:\17863\_NSIP\_SOLAR\_FARM\_CONFIDENTIAL\GIS\PROJECTS\7863\_100\_LVIA\_ZTV\_PROPOSED\_VIEWPOINTS.MXD



LEGEND

- Solar PV Site boundary
- Distance from Site boundary (1, 2 and 3km)
- Representative Viewpoint
- Public Rights of Way
  - Footpath
  - Bridleway
  - +++ Byway open to all traffic
  - ++ Restricted Byway
  - ◆ Macmillan Way Long Distance Path
  - National Cycle Network Route

Zone of Theoretical Visibility (ZTV) (computer generated)



This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the viewshed routine in the ESRI ArcGIS Suite. The areas shown are the maximum theoretical visibility, taking into account topography, vegetation and buildings which have been included in the model with the heights obtained from a LiDAR digital surface model.

Due to its resolution, the surface model does not take into account every localised feature such as walls, small hedgerows or small trees and therefore only gives an impression of the extent of visibility.

The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on LiDAR terrain data with a 2m<sup>2</sup> resolution.

# LDĀDESIGN

PROJECT TITLE

MALLARD PASS

DRAWING TITLE

Zone of Theoretical Visibility (ZTV) Study Including Woodlands and Settlements - Proposed Viewpoints

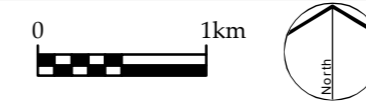
ISSUED BY	Peterborough	T: 01733 310471
DATE	Dec 2021	DRAWN VW
SCALE @A3	1:45,000	CHECKED GE
STATUS	Draft	APPROVED RP

**DWG. NO. 7863\_100**

No dimensions are to be scaled from this drawing.  
 All dimensions are to be checked on site.  
 Area measurements for indicative purposes only.

© LDA Design Consulting Ltd. Quality Assured to BS EN ISO 9001 : 2015

Sources: Esri, NextMap25, Environment Agency,  
 National Tree Mapping - © Bluesky International Limited







# **Mallard Pass**

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## **Mallard Pass Solar Farm**

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**Appendix 7.2: Ecological Baseline  
Report**

**February 2022**

**Mallard Pass Solar Farm**  
Ecological Baseline Report



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<b>Client</b>	LDA Design
<b>Project</b>	Mallard Pass Solar Farm
<b>Version</b>	FINAL
<b>Project number</b>	P21-135 Ecology baseline report

	<b>Name</b>	<b>Position</b>	<b>Date</b>
<b>Originated</b>	Philip Chapman	Ecologist	04 November 2021
<b>Reviewed</b>	John Baker	Principal Ecologist	17 January 2022
<b>Reviewed</b>	Peter Shepherd	Director	17 January 2022
<b>Approved for issue to client</b>	Peter Shepherd	Director	17 January 2022
<b>Issued to client</b>	John Baker	Principal Ecologist	17 January 2022

### Disclaimer

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# 1 Introduction

## Background to commission

- 1.1 BSG Ecology was commissioned by LDA design in March 2021 to conduct ecological surveys at an area of land surrounding Essendine on the Lincolnshire-Rutland border, to support a planning application for a solar farm.

## Site description

- 1.2 The "Site" comprises approximately 880 ha of predominantly arable agricultural land east of Stamford, Rutland (see Figure 1 for the Site boundary). The Site surrounds the small village of Essendine and straddles the boundary between Rutland and Lincolnshire. Also included within the Site are a range of small areas of woodland, hedgerows, field margins and other patches of grassland, farm buildings, ditches, ponds and a section of the West Glen River.
- 1.3 The Site is surrounded by predominantly flat or gently undulating agricultural land of similar character. The town of Stamford is approximately 1.1 km to the south west, and two relatively large areas of woodland, Newell Wood and Braceborough Wood are directly adjacent to the north-west and north, respectively. The East Coast main railway line bisects the Site in a north-west to south-east direction.

## Description of project

- 1.4 The Site is being brought forward for development of a solar farm together with associated access routes, transformer/inverter infrastructure and landscaping. The proposed development is being put forward for planning permission under Development Consent Order (DCO) as a Nationally Significant Infrastructure Project.

## Scope of Study

- 1.5 This Ecological Baseline Report presents the methods and results of a desk study, extended Phase 1 habitat survey, badger survey, breeding bird survey and great crested newt survey conducted in 2021 by BSG Ecology. Winter bird surveys are also ongoing at the Site. This report presents the baseline ecological condition of the Site and is intended to inform subsequent assessment of ecological impacts of the proposed development in the Ecological Statement of an Environmental Impact Assessment.

## 2 Methods

### Desk study

- 2.1 A desk study was carried out to gather existing records and information on designated sites and protected or otherwise notable<sup>1</sup> species within the local area.
- 2.2 Information on non-statutory designated sites, protected, notable and invasive species within a 2 km radius of the Site boundary was obtained from the Lincolnshire Environmental Records Centre (LRC) and from the Leicestershire and Rutland Environmental Records Centre (LRERC). Data were received on 04 May 2021. Due to a change in the Site boundary, additional data on Local Wildlife Sites within 2km of the additional area (Ryhall Road) were requested from LRERC on 7 January 2022,
- 2.3 The Multi-Agency Geographic Information for the Countryside (MAGIC) database (Defra, 2021; accessed most recently 17 November 2021) and Natural England's designated site information (Natural England, 2021) were also consulted to establish the ecological context of the Site and to search for information on internationally important designated sites up to 10 km from the Site and other statutory designated sites within 2 km.
- 2.4 Mapping available on MAGIC was also used to identify ponds within 500 m of the main part of the Site.
- 2.5 Additional information pertaining to species recorded along the Drift, a openly accessible lane adjacent to the western site boundary, was supplied by Tom Tew of NatureSpace Partnership in an email dated 2 January 2022. This information has been considered where relevant below.
- 2.6 Detail of the legal and policy protection afforded to relevant protected and notable species and designated sites is provided in Appendix 2.

### Field survey

#### Extended Phase 1 habitat survey

- 2.7 The majority of the Phase 1 habitat survey was undertaken by Jamie Peacock BSc GradCIEEM, Ecologist at BSG Ecology, and Peter Newbold BSc MEnvSci MCIEEM CEcol, Principal Ecologist at BSG Ecology and Dr Philip Chapman Ecologist at BSG Ecology. All three are capable and experienced habitat surveyors and field botanists.
- 2.8 Due to the size of the main part of the Site it was surveyed in sections over three dates: 30 March, 31 March and 29 April 2021. This survey involved a walkover with reference to the industry standard guidance (JNCC, 2010), during which the habitats present were recorded and mapped, with notes made on the species present and any features of ecological interest. Photographs were taken to provide supporting evidence (see Section 7). Two fields in the north-western part of the Site were covered on a visit in December 2021 as these were subsequently added to the Site.
- 2.9 The Phase 1 habitat survey was "extended" to include an assessment of the potential of the survey area to support protected and other species of conservation importance. This included an assessment of habitat suitability for bats, hazel dormouse, reptiles and amphibians.
- 2.10 A preliminary ground-level roost assessment of the trees and buildings within the Site was carried out with reference to industry standard guidance (Collins, 2016). The surveyors searched for Potential Roost such as slipped roof tiles, woodwork rot holes and wall cavities (buildings) or knot holes, lightning scars and lifted bark (trees) which could provide roosting space for bats.

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<sup>1</sup> Notable species here include those of national or local conservation interest. Species of national conservation interest are Species of Principal Importance (Section 41 of the NERC Act), those listed in Red Data Lists for England or the UK, red-listed species in *Birds of Conservation Concern* list (Eaton *et al.*, 2015), and species designated Nationally Scarce or Nationally Notable. Species of local conservation interest are those for which Leicestershire and Rutland or Lincolnshire have Biodiversity Action Plans.

### Water vole and otter

- 2.11 To determine whether water vole *Arvicola amphibius* is present along the Wests Glen River along the northern boundary of the Site and in wet ditches onsite, a water vole survey was undertaken on 09 July 2021 by Peter Newbold, with reference to industry standard guidance (Strachan *et al.* 2011). Peter is an experienced mammal surveyor and is capable of identifying all field signs of water vole confidently.
- 2.12 This guidance recommends two survey visits during the best period for determining presence, with one survey in spring-early summer and a second visit (if required, e.g. if presence is not confirmed during the first visit) between late summer and mid-autumn. Due to the confirmation of presence of water vole on the West Glen River during the early summer visit and the classification of the onsite ditches as unsuitable (see "Results" below), the second visit was not considered to be required.
- 2.13 During the survey visit, the surveyor slowly walked along the banks (both sides) and waded within the channel (where accessible and safe to do so). The surveys covered the 1.48 km course of the West Glen River where it crosses the Site south of the railway line. The survey also covered all ditches on Site which held water at the time of survey. Evidence and potential evidence of water vole was noted, and the locations of field signs were marked on an annotated map.
- 2.14 Evidence of water vole can include droppings, latrines (used to mark territory boundaries or close to burrows), feeding signs (neat piles of vegetation close to the water's edge with a 45° cut at the end), footprints and burrows (typically a series of holes along the water's hedge, but occasionally up to 3 m up the bankside).
- 2.15 Due to the suitability of the West Glen River, for otter *Lutra lutra*, this watercourse was also concurrently searched for evidence of this species during the water vole surveys. Evidence of otter can include droppings, footprints, holts, feeding remains (chewed fish debris), and characteristic muddy slides used to access the water.

### Badger

- 2.16 A survey for badger *Meles meles* was undertaken by Peter Newbold and Jamie Peacock in 2021 during the extended Phase 1 habitat survey. Both surveyors have extensive experience of surveying for badger. This survey included searching suitable habitats within the Site for evidence of badgers (setts, paths, latrines, foraging holes). The survey covered all linear features and open areas. The inner parts of larger woodland parcels were not surveyed as these are all to be retained and no setts directly impacted on.
- 2.17 Any setts located were recorded with information on number of entrances, extent of apparent activity in the vicinity and the presence of paths or latrines noted. This information was then used to determine the likely nature of the setts and whether they are in current use.
- 2.18 The setts have been classified based on the following adapted definitions from Neal and Cheeseman (1996) and Harris *et al.* (1994):
- Main sett - Normally where cubs are raised and in continuous and regular use throughout the year. Typified by large spoil heaps/mounds and well-trodden paths. There can be many entrances to the sett (often with some of these disused), although a main sett can sometimes only have a single entrance. There may be a scratching tree or playing area near the sett and usually a sizable latrine nearby.
  - Annexe sett - Intermediate-sized and may be used by breeding badgers. Normally close (<150m) to a main sett and connected to it by obvious paths. They may not be in use all the time, even if the main sett is very active but will be most of the time. May support a second litter if there is one.
  - Subsidiary sett - Similar to annexe setts but are likely to be further away (at least 50 m from the main sett) and not as well connected to the main sett as annexe setts. May only be used intermittently.

- Outlier sett - Small setts with one or two entrance holes which are used sporadically by badgers as a temporary refuge (Neal & Cheeseman, 1996). Spoil heaps are likely to be small and there may not be obvious paths connecting to other setts.

### Breeding bird surveys

- 2.19 To determine the value of the Site for breeding birds, four breeding bird surveys were undertaken in April, June and July 2021. Surveys were undertaken by Peter Newbold, assisted by Joe Bishop BSc qualCIEEM, Dr. Philip Chapman BA MSc PhD qualCIEEM (both Ecologists at BSG Ecology) and Stuart Elsom, an independent ornithological surveyor. All personnel are experienced ornithological surveyors and can identify all UK species likely to be encountered by sight and sound.
- 2.20 Due to the size of the Site and the need to focus survey effort on the morning peak activity period of most bird species, the Site was covered simultaneously by a pair of surveyors. Survey dates and weather conditions recorded during the surveys are summarised in Table 1. The weather conditions during all survey visits were suitable (i.e. no rain or strong winds and good visibility).

*Table 1: Dates, personnel and conditions of breeding bird survey visits*

<i>Date</i>	<i>Personnel</i>	<i>Conditions</i>
29/04/2021	Peter Newbold and Philip Chapman	7°C, light wind, partial cloud, dry
11/06/2021	Peter Newbold and Stuart Elsom	16 °C, light wind, partial cloud, dry
09/07/2021	Peter Newbold and Joe Bishop	14 °C, light wind, cloudy, dry
23/07/2021	Peter Newbold and Joe Bishop	15 °C, light wind, overcast, dry

- 2.21 During each visit the Site was walked at a slow pace to enable all birds detected to be identified and located. Frequent stops were made to scan suitable habitats and to listen for singing and calling birds. All areas of suitable breeding habitat within the Site boundary and immediately adjacent areas were approached to within 50 m.
- 2.22 During the survey the location and activity of each bird detected (including those seen or heard) was recorded and mapped using standard two-letter British Trust for Ornithology (BTO) species codes combined with activity symbols.
- 2.23 Birds exhibiting breeding behaviour were assigned to one of two categories as part of the interpretation carried out after the surveys: likely breeding or confirmed breeding:
- Likely breeding: birds heard singing or alarm calling or simply present in suitable breeding habitat on one of the survey visits; a pair of birds present in suitable breeding habitat; a repeat observation of territorial behaviour (song or alarm calling) on two or more different visits in the same location; courtship behaviour or display in suitable breeding habitat; birds apparently visiting a nest site; or evidence of nest building (including excavation of a hole).
  - Confirmed breeding: one or more adults undertaking a distraction display; the presence of a used nest or eggshells; the presence of recently fledged or downy young (that are clearly of local origin); apparently incubating adults or adults commuting to and from a nest hole; adult birds carrying faecal sacs or food for young; or a nest with eggs or young present.

### Wintering Birds

- 2.24 The Site has also been subject to ongoing wintering birds surveys to identify the levels of use of the Site by notable species of wintering birds, such as high numbers of farmland passerines, waders or wildfowl. Two visits per month are being carried out between November 2021 to March 2022 and on each visit, an experienced ornithologist is surveying all onsite fields and adjoining fields, where possible, and recording the presence of any waders, any wildfowl, and notable passerines if present in significant numbers (e.g. over 30 individuals of a SPI). Each visit is either split over two days or

two surveyors are covering approximately half of the survey area each. All survey visits were carried out in suitable weather conditions (i.e. avoiding high winds, rain or mist which would limit visibility).

2.25 The surveys have been undertaken on the following dates:

- 24 and 25 November 2021.
- 29 and 30 November 2021
- 6 and 7 December 2021.
- 14 December.

### **Great crested newt**

#### ***HSI assessment***

2.26 To determine the suitability of onsite and offsite ponds for great crested newt *Triturus cristatus* (GCN; see “*Amphibians*” under Results below) they were subject to a Habitat Suitability Index (HSI) assessment, with reference to industry standard guidance (Oldham, 2000; ARG UK, 2010). The HSI assessment was carried out by Peter Newbold and Jamie Peacock on 21 May 2021 during the Phase 1 habitat survey visit. Both surveyors are experienced at carrying out HSI assessments.

2.27 The HSI assessment method involves allocating scores to features associated with a pond such as size, quality of surrounding habitat and presence of fish. These scores are then combined to calculate the overall HSI score for each pond as a number between 0 and 1, with 0 being the least suitable and 1 being the most suitable. The HSI score allows each pond to be placed in one of five pre-defined categories defining its suitability for great crested newt as follows: <0.5: poor; 0.5–0.59: below average; 0.6–0.69: average; 0.7 – 0.79: good; >0.80: excellent.

#### ***eDNA survey***

2.28 Following the HSI assessment and identification of suitable waterbodies on Site for GCN, an environmental DNA (eDNA) survey was conducted on 29 April 2021 by Peter Newbold (Natural England Licence 2015-18530-CLS-CLS) and Jamie Peacock (Natural England Licence 2016-20471-CLS-CLS) with reference to industry standard guidance (Biggs *et al.*, 2014).

2.29 This survey involved collection of water samples from each suitable waterbody and subsequent analysis by an approved laboratory (Surescreen Scientifics Ltd). Online weather forecasts were monitored during the fortnight preceding the eDNA sample collection, which confirmed that the weather had been suitable for great crested newt survey throughout this period (i.e. overnight temperatures generally above 5°C). Following collection of the eDNA samples they were returned to the laboratory. The analysis was undertaken by Surescreen and the results returned on 06 May 2021.

#### ***Other protected species surveys***

2.30 Surveys for foraging and commuting bats, roosting bats, hazel dormouse, reptiles, invertebrates and plants (detailed botanical survey) were not undertaken, despite some habitats on Site being suitable for these species (see “Results” below). The proposed solar farm will retain all woody habitats (including scattered trees and hedgerows) with a buffer to include existing field margins, as well as trees, ponds, and ditches. Since the remaining habitats on Site (arable farmland) are of negligible value to these species, further protected species surveys were not considered proportionate.

#### **Limitations to methods of field surveys**

2.31 A total of 24 ponds were identified within the Site or within 500 m of the Site. Of the offsite ponds 13 (see Figure 2) were not accessed for eDNA survey. Two of these ponds (Ponds 12 and 24) are over 250 m from the Site boundary, and if great crested newt is present and breeding in these ponds, terrestrial newts are considered unlikely to be using the Site. The remaining 11 ponds range from 50 to 240 m from the Site boundary, and if GCN are present and breeding within these ponds, individual



terrestrial-phase newts may be found within grassland (including field margins) and hedgerows in the nearby areas of the Site. Additional surveys of these ponds (eDNA) will be carried out in 2022 with additional surveys (population estimates) to be carried out if needed.

- 2.32 As part of the badger surveys, the inner parts of larger woodland parcels were not surveyed. This is not likely to be a significant limitation as the woodlands are all to be retained and no setts were present on the edges of the woodland, therefore no setts directly impacted on. Even if setts are present within these woodlands, fragmentation will be avoided with measures intended to keep the proposed development permeable by creating gaps accessible by badgers in security fencing.
- 2.33 No other limitations were identified for the field surveys.

### 3 Results and Evaluation

#### Designated sites

- 3.1 Two international designated sites are present within 10 km of the Site: the Rutland Water Special Protection Area (SPA) and Ramsar Site, which are located approximately 8.65 km to the south-west.
- 3.2 A total of seven national statutory designated sites are present within 2 km of the Site. All these are Sites of Special Scientific Interest (SSSIs) (see Figure 1).
- 3.3 Ryhall Pasture and Little Warren Verges SSSI is directly adjacent to three parcels of land within the north-west of the Site. This SSSI includes an area of one of the semi-natural unimproved limestone grassland which is one of the best examples remaining in Leicestershire and features a characteristic calcareous plant community. This site also includes with adjacent species-rich roadside verges which fall within Lincolnshire.
- 3.4 Newell Wood SSSI is 340 m north-west of the Site. This SSSI comprises an area of semi-natural woodland on the site of former clay pits. The woodland is dominated by pedunculate oak *Quercus robur* and silver birch *Betula pendula* with a predominantly acidic ground flora, although some open areas with distinctly calcareous plant species are also present.
- 3.5 Great Casterton Road Banks SSSI is located 915m from the Site. This comprises a small area of calcareous grassland with a mosaic of open grassland and scrub.
- 3.6 Tolethorpe Road Verges SSSI comprises the verges on both sides of Ryhall Road along the site boundary north-east of Great Casterton. These verges support species-rich calcareous grassland.
- 3.7 Tickencote Marsh SSSI is located approximately 1 km west of the site boundary and Great Casterton. This supports species rich grazing marsh.
- 3.8 Bloody Oaks Quarry SSSI is located approximately 430 m west of the site at the junction included in the site boundary on the A1. This supports species-rich calcareous grassland.
- 3.9 East Wood, Great Casterton SSSI is located approximately 1.3 km north west of the site boundary. It supports ash-oak-wych elm woodland with a rich flora typical of ancient woodland.
- 3.10 A total of 98 non-statutory sites designated as Local Wildlife Sites (LWS) are present within 2 km of the Site. The majority of these are designated for habitats (predominantly hedgerows, grassland and woodland) with many also featuring locally or nationally scarce species. These LWS are listed in Table A in Annex 1 and shown in Figure 1.
- 3.11 Nine of these LWSs are located wholly or in part within the site boundary. These are:
- Carlby/Essendine Verge LWS. 1
  - Essendine Dismantled Railway Embankment LWS. 2
  - Essendine, Hedgerow S side MacMillan Way LWS.7
  - Ryhall/Essendine SE of the Freewards (south side) LWS. 5
  - Ryhall/Essendine Hedge SE of the Freewards (south side) LWS. 24
  - Essendine Verge SE of The Freewards (north side) LWS. 23
  - Ryhall RVNR: Crossroads to the Drift junction (west side) LWS. 6
  - Ryhall Verge (B1176): from crossroads to Ryhall Farm Cott track (east side) LWS. 8
  - Essendine, Hedgerow N side MacMillan Way LWS. 13
- 3.12 An additional 26 LWS are directly adjacent to the Site boundary or within 10 m (generally separated by a minor road). Most of these sites are protected hedgerows of lengths of road verge.

3.13 The remaining sites are between 15 m and 2 km from the Site boundary.

### Habitats

3.14 Habitats present at the Site are shown in Figure 3 and described in Table 2 below.

3.15 Some areas of woodland on Site, together with all the boundary and internal hedgerows, qualify as Habitats of Principal Importance (HPI)<sup>2</sup>. Depending on hydrological characteristics and aquatic species present, the West Glen River and the onsite ponds have the potential to be HPI.

3.16 *Table 2. Habitats present at the Site.*

Habitat	Description/notes
Broadleaved semi-natural woodland	<p>There are multiple parcels of woodland distributed across the Site, some of which are semi-natural broadleaved woodland (see Photographs 1-2). These woodlands are dominated by pedunculate oak <i>Quercus robur</i> and ash <i>Fraxinus excelsior</i>, but silver birch <i>Betula pendula</i>, willow <i>Salix</i> sp., hybrid black poplar <i>Populus x euramericana</i> and alder <i>Alnus glutinosa</i> are present. Most woodland parcels feature a relatively dense understorey, consisting predominantly of hazel <i>Corylus avellana</i>, holly <i>Ilex aquifolium</i>, elder <i>Sambucus nigra</i> and hawthorn <i>Crataegus monogyna</i>.</p> <p>Ground flora is relatively diverse, with species including bluebell <i>Hyacinthoides non-scripta</i>, ground ivy <i>Glechoma hederacea</i>, dog's mercury <i>Mercurialis perennis</i>, lords and ladies <i>Arum maculatum</i>, wood sorrel <i>Oxalis acetosella</i>, ragged robin <i>Silene flos-cuculi</i>, spurge laurel <i>Daphne laureola</i>, wood anemone <i>Anemone nemorosa</i> and foxglove <i>Digitalis purpurea</i>.</p> <p>Some of these species are ancient woodland indicator species, however MAGIC does not identify any of the woodlands as ancient semi-natural woodland. This woodland meets the definition of the <i>Lowland mixed deciduous woodland</i> HPI (Maddock, 2011).</p>
Hedgerows	<p>Most external boundaries and some internal boundaries of the Site feature native hedgerows (Photographs 3-4).</p> <p>Some species-rich sections are present with over 5 woody species per 30 m section. These include hawthorn, blackthorn <i>Prunus spinosa</i>, field maple <i>Acer campestre</i>, holly, elder, hazel, cherry <i>Prunus</i> sp., bramble <i>Rubus fruticosus</i>, wych elm <i>Ulmus glabra</i>, field elm <i>Ulmus minor</i> with occasional dog rose <i>Rosa canina</i>. The majority of hedgerows on Site are species-poor, and formed by one to three woody species, usually blackthorn and/or hawthorn.</p> <p>Many hedgerows across the Site feature one or several standard trees, including mature pedunculate oak <i>Quercus robur</i>, beech <i>Fagus sylvatica</i>, ash, hybrid black poplar, and various willow species <i>Salix</i> spp. (Photograph 4).</p> <p>The hedgerow bases largely support common species such as lords and ladies, dog's mercury, common nettle <i>Urtica dioica</i>, cleavers <i>Galium aparine</i>, ground-ivy and common hogweed <i>Heracleum sphondylium</i>, however the first two species are indicative of older hedgerows and predominantly only present in the species rich hedgerows.</p> <p>Most hedgerows, particularly in the east of the Site, are intensively managed by cutting and show structural indicators of poor condition (abundant horizontal and vertical gaps), with some hedgerows defunct and/or left to grow out into scrubby treelines.</p> <p>All the hedgerows on Site are considered to meet the description of the <i>Hedgerows</i> HPI (Maddock, 2011).</p>

<sup>2</sup> As defined under Section 41 of the Natural Environment and Rural Communities Act 2006. See Appendix 2

Ponds	<p>An analysis of aerial imagery and mapping revealed the presence of 24 ponds on Site or within 500 m of it. There are nine ponds on the Site or on its boundary, with an additional 13 ponds within 500 m of the Site boundary (see Figure 2).</p> <p>Of the nine ponds present within the Site or on its boundary, six held water (including Pond 3 in Photograph 5 - see Figure 2). The majority of these ponds are situated at the edge of pockets of woodland and are heavily shaded, although most ponds had aquatic and marginal vegetation present. These ponds are described in detail under “<i>Amphibians</i>” below. All the ponds on Site holding water have potential to meet the description of the <i>Ponds</i> HPI (Maddock, 2011) based on the presence of aquatic species and water quality parameters. With the exception of the eDNA survey (see below) these was not assessed in detail.</p>
Flowing water	<p>The West Glen River flows through the west of the Site (Photographs 6-7). This watercourse features a natural river channel dominated by marginal vegetation, predominantly common reed <i>Phragmites australis</i> and bulrush <i>Typha latifolia</i>. Emergent/submerged plants were also present in patches, but a detailed survey was not undertaken to identify these down to species level.</p> <p>The banks of the river comprise of a mosaic of species poor semi-improved grassland, semi-improved neutral grassland (see below), scattered scrub and tall ruderal.</p> <p>The river has the potential to meet the description of the <i>Rivers</i> HPI (Maddock, 2011) based on the presence of aquatic species and water quality and hydrological parameters, although this was not assessed in detail.</p>
Arable farmland	<p>The majority of the Site consists of arable farmland (Photographs 8-9). This is largely in intensive agricultural management, with the majority of field margins measuring less than 1 m in width, particularly in the west and east of the Site. Many fields are very large (the largest being over 58 ha),. The fields supported a very low diversity of arable weed species.</p> <p>During the surveys, the fields were either bare having recently been ploughed, supported cereal stubble or young crops.</p> <p>The arable fields are of low intrinsic ecological value and are not HPIs. The intense nature of the agricultural practice and very limited margins mean they are not considered to be ecologically valuable.</p>
Improved grassland	<p>Areas of improved grassland are present across the Site, predominantly forming margins to arable fields. (All arable field margins are this habitat type or poor semi-improved grassland as described below; only margins over 1 m in width are mapped as grassland on Figure 1).</p> <p>Improved grassland areas are dominated by perennial rye grass <i>Lolium perenne</i> with very few herbs present (predominantly white clover <i>Trifolium repens</i> and creeping buttercup <i>Ranunculus repens</i>). At the time of the survey, these areas were unmanaged and had relatively long sward (averaging approximately 25 cm).</p> <p>This grassland does not meet the description of any HPIs.</p>
Poor improved grassland	<p>Areas of species-poor semi-improved grassland are present across the Site (Photograph 10), predominantly forming margins to arable fields (see above). These support a slightly higher plant species diversity, and in addition to the species described above, contain grasses such as cock’s-foot <i>Dactylis glomerata</i>, false oat grass <i>Arrhenatherum elatius</i> and red fescue <i>Festuca rubra</i>. Herbaceous species include greater plantain <i>Plantago major</i>, broadleaved dock <i>Rumex obtusifolium</i>, chickweed <i>Stellaria media</i>, dandelion <i>Taraxacum</i> agg., groundsel <i>Senecio vulgaris</i>, spear thistle <i>Cirsium vulgare</i>, yarrow <i>Achillea millefolium</i>, ragwort <i>Jacobaea vulgaris</i>, and common mouse-ear <i>Cerastium fontanum</i> and creeping thistle <i>Cirsium arvense</i>.</p>

	This grassland does not meet the description of any HPIs.
Semi-improved neutral grassland	<p>Slightly more diverse grassland is present in the west of the Site, adjacent to the river and in two small fields either side of the Essendine Dismantled Railway Embankment LWS (Photograph 11). This is considered to be semi-improved neutral grassland. In addition to the grassland species listed above, additional grass species such as common bent <i>Agrostis capillaris</i>, crested dog's-tail <i>Cynosurus cristatus</i> and rough meadow grass <i>Poa trivialis</i> are also present. Additional herbaceous species include ribwort plantain <i>Plantago lanceolata</i>, meadow buttercup <i>Ranunculus acris</i> and red clover <i>Trifolium pratense</i>.</p> <p>Due to the relatively low species richness and absence of indicator species for lowland meadows, this grassland does not meet the description of the <i>Lowland Meadows</i> HPI (Maddock, 2011).</p>
Broadleaved plantation woodland	Many of the broadleaved woodland parcels on Site show clear evidence of recent planting (tree guards, regular lines of young or semi-mature trees) or have been visibly recently planted on historic aerial imagery (Photograph 12). The majority of plantation woodland is broadleaved, with a mixture of similar native species to the semi-natural woodland. Due to the recent age of the plantations, the understorey layer is poorly developed or absent, and the ground layer is species-poor. This woodland does not qualify as an HPI.
Coniferous plantation woodland	Approximately 0.2 ha of woodland towards the east of the Site is dominated by planted non-native coniferous trees including spruce <i>Picea</i> sp. and fir <i>Abies</i> sp. This woodland does not qualify as an HPI.
Dense scrub	<p>A former railway embankment in the west of the Site (designated as the Essendine Dismantled Railway Embankment LWS) features dense mixed scrub of comparative high species richness (Photograph 13). Woody species include hawthorn, blackthorn, field maple, holly, elder, hazel, cherry <i>Prunus</i> sp., bramble, wych elm <i>Ulmus glabra</i>, and occasional dog rose <i>Rosa canina</i> all present. The ground flora was diverse with bluebell, dog's mercury, lords and ladies, wood sorrel, and foxglove all present.</p> <p>Other patches of dense scrub were also present across the western half of the site, these were all species-poor and often dominated by a single species, generally either bramble, hawthorn or blackthorn. The ground flora within these patches was either non-existent or very sparse and lacking in diversity.</p>
Tall ruderal vegetation	Small pockets of tall ruderal vegetation are present, particularly in the western half of the Site. These are too small to map (and are not shown on Figure 3) and often form transitional areas between other habitat types. Species noted included common nettle, broad-leaved dock and common hogweed. This habitat does not meet the description of any HPIs.
Ditches	A mixture of dry and wet field ditches are present across the Site (Photograph 14). These generally did not feature aquatic vegetation, with any vegetation present reflecting the surrounding habitat (generally species-poor grassland field margins as described above). This habitat does not meet the description of any HPIs.
Scattered trees	A variety of scattered mature trees are located across the Site. These are dominated by pedunculate oak and ash, and often indicate the lines of former hedgerows. In one location in the east of the Site two lines of planted oaks form an avenue each side of a farm track (Photograph 18). Many of these trees have suitability for roosting bats as discussed below.
Bare ground	Some access tracks and an area around farm buildings in the east of the Site are compacted gravel with little or no vegetation and are classified as bare ground. This habitat does not meet the description of any HPIs.

Buildings	Nine farm buildings are present in the Site. These are discussed in detail under “Bats” below”. This habitat does not meet the description of any HPIs.
Hardstanding	Parts of the area around the buildings in the east of the Site and short sections of metalled road within the Site boundary are classed as hardstanding. This habitat does not meet the description of any HPIs.

## Protected species

### Bats

- 3.17 All bats and their roosts are a European Protected Species (see Appendix 2). Seven species area also SPIs and local BAPs exist for these species in Lincolnshire, Leicestershire and Rutland.
- 3.18 Combined, the records centres returned 205 records of at least eight bat species from within 2 km of the Site. Of these, 96 were identified to species level. These comprised brown long-eared bat *Plecotus auritus* (28 records), common pipistrelle *Pipistrellus pipistrellus* (19), soprano pipistrelle *Pipistrellus pygmaeus* (17), Daubenton’s bat *Myotis daubentonii* (ten), noctule *Nyctalus noctula* (nine), Natterer’s bat *Myotis nattereri* (five), Leisler’s bat *Nyctalus leisleri* (four), barbastelle *Barbastella barbastellus* (three) and whiskered bat *Myotis mystacinus* (one).
- 3.19 The remaining records comprised unknown bat species (79 records), unidentified *Pipistrellus* species (18) and unidentified *Myotis* species (11).
- 3.20 The closest record of a bat to the Site was a roost of an unknown bat species recorded from droppings 120 m west of Site boundary near Essendine Church in 2005. All bats are European protected species (see Appendix 2) while soprano pipistrelle, Barbastelle and brown long-eared bat are additionally Species of Principal Importance (SPI)<sup>3</sup>.

### Roosting

- 3.21 The southern group of three buildings in the east of the Site (B1-B3) are agricultural barns built around a steel frame with corrugated asbestos cement and/or corrugated steel cladding. These barns were not accessed internally during the Phase 1 habitat survey, however no PRFs were visible externally and given the structure of the buildings they are considered unlikely to present any roosting opportunities internally. These buildings have Negligible suitability for roosting bats.
- 3.22
- 3.23 A total of 163 field and hedgerow trees across the Site were assessed as having at least Low suitability for roosting bats, although due to the scale of the Site and the fact that all mature trees are proposed for retention in the development, detailed identification of potential roost features and grading of suitability was not carried out. Trees with bat suitability are shown in Figure 4. Additionally, mature patches of woodland on Site are likely to contain further trees with roosting opportunities for bats.

### Foraging and commuting

- 3.24 The intensively-managed arable fields which make up the great majority of the Site are likely to be of very low value for foraging bats.
- 3.25 The parcels of woodland (particularly areas of mature woodland with large trees) have suitability for foraging, as do hedgerows, scrub and lines of trees, especially where mature trees and other features such as ponds are present and the boundary features are reasonably continuous. Small pockets of semi-improved neutral grassland also have moderate suitability for foraging, especially where these are associated with hedgerows or other woody features.

<sup>3</sup> As defined under Section 41 of the Natural Environment and Rural Communities Act 2006. See Appendix 2.

- 3.26 Hedgerows and lines of trees (as well as linear scrub features such as the Essendine Dismantled Railway Embankment LWS) may also provide important commuting routes for bats, especially where they form continuous corridors across the site or between woodland patches, and/or have wide grassland margins. The West Glen River represents a High Suitability feature for both foraging and commuting bats.
- 3.27 Due to the likely retention in the proposed development of all buildings, mature trees, woodland, scrub and hedgerows and the likely enhancements associated with conversion of intensively-managed arable land to grazed grassland around the solar panels plus additional landscaping and planting, further survey for bats was not considered proportionate.

### **Badger**

- 3.28 Badger is protected under the Protection of Badgers Act 1992 (see Appendix 2).
- 3.29 Combined, the records centres returned 98 records of badger *Meles meles* from within 2 km of the Site. Seven records originated from the Site, five of which relate to sets within the Essendine Dismantled Railway Embankment LWS in the centre of the Site.
- 3.30 The intensively-managed arable fields which make up the great majority of the Site are of low value for foraging badgers. However, the woodland, hedgerows, scrub and other woody features have suitability for foraging and sett-building this species, and patches of non-woody, semi-natural habitats such as grassland field margins and tall ruderal vegetation provide additional suitable habitat.
- 3.31 A total of 18 badger setts were located across the Site (see Confidential Figure 7). The details are given in Confidential Appendix 4.

### **Hazel Dormouse**

- 3.32 Hazel dormouse is a European Protected Species (see Appendix 2) as well as an SPI and local BAP species in Leicestershire and Rutland.
- 3.33 The records centres returned no records of hazel dormouse *Muscardinus avellanus* from within 2 km of the Site. This species is rare but present in Rutland and Lincolnshire. The hedgerows and woodland patches provide suitable habitat for this species, although the relatively poor connectivity of hedgerows (particularly in the eastern part of the Site where hedgerows have frequent gaps) limit the suitability of the Site at a landscape level. It is therefore possible that this species is present on Site.

### **Water vole**

- 3.34 Water voles and their burrows are fully protected under the Wildlife and Countryside Act 1981 (as amended - see Appendix 2) and are an SPI and a local BAP species in Lincolnshire and Leicestershire and Rutland.
- 3.35 The records centres returned 12 records of water vole *Arvicola amphibius* from within 2 km of the Site. The closest record of this species to the Site was approximately 40 m west of the Site boundary in the West Glen River near Essendine and dates from 1996.
- 3.36 During the water vole survey visit, the field ditches on site were found to be unsuitable for water vole. Most of those which held water during the extended Phase 1 habitat survey were dry at the time of the water vole survey visit and all ditches are intensively managed, with only narrow margins of short semi-improved grassland and an absence of suitable dense aquatic or marginal vegetation (such as rushes, sedges or reeds) that could provide cover either for feeding water voles, or for water vole burrows. The arable farmland and woodland that comprises the majority of the Site is not suitable for water vole.
- 3.37 The West Glen River does feature extensive cover of aquatic and marginal plants and is suitable habitat for water vole. During the survey visit, evidence of the presence of water voles was found

along a stretch of the West Glen River measuring approximately 180 m where it crosses the Site. This comprised six burrows, five latrines and four feeding stations (see Figure 5).

### **Otters**

- 3.38 Otter is a European protected species (see Appendix 2) and a local BAP species in Lincolnshire and Leicestershire and Rutland.
- 3.39 The records centres returned 20 records of otter *Lutra lutra*. The closest record of an otter to the Site was an observation approximately 15 m north of the Site boundary on the West Glen River west of Carlby in 2009.
- 3.40 The West Glen River has suitability for this species, with areas of dense cover for holt-building. No evidence of otter was returned from the West Glen River during the otter and water vole survey visits, however this species may be present along this water course.

### **Other mammals**

- 3.41 Combined, the records centres returned 82 records of three other protected and notable mammal species from within 2 km of the Site. These comprise brown hare *Lepus europaeus* (41 records), hedgehog *Erinaceus europaeus* (38), and harvest mouse *Micromys minutus* (three).
- 3.42 One record of brown hare from 1977 was returned within the Site, although this record was only returned to 2 km precision and may or may not correspond to this species on Site. The next closest record of a brown hare to the Site was 250 m south-west of the Site in 1977. The arable land comprising the majority of the Site, as well as smaller parcels of grassland, are suitable habitat for this species and it was recorded during all breeding bird survey visits with a peak count of 17 individuals on 09 July. Brown hare is an SPI and a local BAP species in Lincolnshire.
- 3.43 The closest record of a hedgehog to the Site was 30 m north, to the east of Braceborough Grange, in 2015. The Site has some suitable habitat for hedgehog in the hedgerows, woodland, and grassland therefore this species may be present on Site. Hedgehog is an SPI.
- 3.44 The closest record of a harvest mouse originates from 1.0 km west of the Site in 1977, and all three records are over 40 years old. The intensive arable farmland which dominates the Site represents sub-optimal habitat for this species, with the poor semi-improved grassland patches and field margins providing habitat of a higher suitability. No evidence of harvest mouse was detected during the extended Phase 1 habitat survey, although this species is hard to detect and may be present on Site. Harvest mouse is an SPI.
- 3.45 No records of polecat *Mustela putorius* were returned by the LRC or LRERC but this species is reportedly present on the western edge of the Site along the Drift (information supplied by Tom Tew). This is an SPI.

### **Birds - breeding**

- 3.46 All wild birds, their nests, eggs and young are protected under the Wildlife and Countryside Act 1981 (as amended; see Appendix 2).
- 3.47 Combined, the records centres returned 1,775 records of birds from within 2 km of the Site, comprising 80 species.
- 3.48 Of these, the Site has suitability for breeding for three species specially protected under schedule 1 of the Act: red kite *Milvus milvus* (116 records), kingfisher *Alcedo atthis* (66) and barn owl *Tyto alba* (30).
- 3.49 The woodland, farm buildings and mature trees are suitable for barn owl; the closest records of this species were onsite south-west and north-west of Essendine in 2001 and 2010 respectively. The woodland and mature trees are suitable for red kite, although this species is gradually expanding its



range and is still scarce as a breeding species in Northamptonshire. The closest record of this species was onsite south-west of Essendine in 2019. The West Glen river corridor is suitable for kingfisher; the closest record of this species was 50 m east of the Site near Banthorpe Lodge in 2017.

- 3.50 In addition, the Site has suitability for 15 species listed as SPI: starling *Sturnus vulgaris* (189), lapwing *Vanellus vanellus* (93), skylark *Alauda arvensis* (73), house sparrow *Passer domesticus* (68), linnets *Linaria cannabina* (35), yellowhammer *Emberiza citrinella* (32), song thrush *Turdus philomenos* (27), yellow wagtail *Motacilla flava* (21), reed bunting *Emberiza schoeniclus* (19), turtle dove *Streptopelia turtur* (14), tree sparrow *Passer montanus* (12), bullfinch *Pyrrhula pyrrhula* (10), cuckoo *Cuculus canorus* (10), corn bunting *Emberiza calandra* (nine) and grey partridge *Perdix perdix* (seven).
- 3.51 The arable farmland on Site is suitable for breeding by skylark, lapwing, yellow wagtail and grey partridge, which are ground nesting species. Suitable habitat for the remaining SPI species listed above is confined to the woodland, hedgerows and scrub.
- 3.52 Records of bullfinch, corn bunting, lapwing, linnets, skylark, turtle dove, yellow wagtail and yellowhammer were returned from onsite, although the majority of returned records were to 1km of 2km precision so these may or may not correspond to actual observation from within the Site boundary.

### Breeding bird survey

- 3.53 A total of 48 bird species were recorded during the bird survey as either confirmed or likely breeding on Site. These are listed in Table 9. The indicative central point of each territory or location of individual bird records is shown in Figure 6.

Table 9: Summary results of breeding bird survey

Common name	Scientific name	Breeding Status		Total pairs
		Confirmed	Likely	
Blackbird	<i>Turdus merula</i>		✓	32
Blackcap	<i>Sylvia atricapilla</i>		✓	21
Blue tit	<i>Cyanistes caeruleus</i>	✓	✓	63
Carrion crow	<i>Corvus corone</i>	✓	✓	11
Chaffinch	<i>Fringilla coelebs</i>		✓	28
Chiffchaff	<i>Phylloscopus collybita</i>	✓	✓	42
Coal tit	<i>Parus ater</i>		✓	11
Collared Dove	<i>Streptopelia decaocto</i>		✓	3
Dunnock	<i>Prunella modularis</i>		✓	20
Garden warbler	<i>Sylvia borin</i>		✓	1
Goldcrest	<i>Regulus regulus</i>		✓	4
Goldfinch	<i>Carduelis carduelis</i>		✓	15
Great spotted woodpecker	<i>Dendrocopos major</i>		✓	1
Great tit	<i>Parus major</i>		✓	24
Greenfinch	<i>Chloris chloris</i>		✓	3
Green woodpecker	<i>Picus viridis</i>		✓	3
Heron	<i>Ardea cinerea</i>		✓	1
House sparrow	<i>Passer domesticus</i>		✓	4
Jackdaw	<i>Coloeus monedula</i>	✓	✓	6
Jay	<i>Garrulus glandarius</i>		✓	1

Kestrel	<i>Falco tinnunculus</i>	✓	✓	4
Lapwing	<i>Vanellus vanellus</i>		✓	1
Lesser whitethroat	<i>Curruca curruca</i>		✓	1
Linnet	<i>Linaria cannabina</i>		✓	12
Little Egret	<i>Egretta garzetta</i>		✓	1
Long-tailed tit	<i>Aegithalos caudatus</i>	✓	✓	2
Magpie	<i>Pica pica</i>	✓	✓	8
Mistle thrush	<i>Turdus viscivorus</i>		✓	4
Nuthatch	<i>Sitta europaea</i>		✓	3
Pheasant	<i>Phasianus colchicus</i>		✓	10
Pied wagtail	<i>Motacilla alba</i>		✓	1
Raven	<i>Corvus corax</i>		✓	1
Red kite	<i>Milvus milvus</i>	✓	✓	3
Red-legged partridge	<i>Alectoris rufa</i>		✓	2
Reed bunting	<i>Emberiza schoeniclus</i>		✓	6
Robin	<i>Erithacus rubecula</i>		✓	37
Rook	<i>Corvus frugilegus</i>		✓	1
Skylark	<i>Alauda arvensis</i>	✓	✓	58
Song thrush	<i>Turdus philomelos</i>		✓	11
Starling	<i>Sturnus vulgaris</i>		✓	7
Stock dove	<i>Columba oenas</i>		✓	3
Treecreeper	<i>Certhia familiaris</i>		✓	1
Whitethroat	<i>Curruca communis</i>	✓	✓	36
Willow warbler	<i>Phylloscopus trochilus</i>		✓	1
Woodpigeon	<i>Columba palumbus</i>	✓	✓	31
Wren	<i>Troglodytes troglodytes</i>		✓	58
Yellow wagtail	<i>Motacilla flava</i>		✓	2
Yellowhammer	<i>Emberiza citrinella</i>		✓	35

3.54 In addition to the above, a further 12 bird species were recorded during the survey visits for which no evidence of breeding was noted. This included individuals flying over the Site or species which may breed locally but for which suitable nesting habitat either does not occur on Site, or where no behaviour suggesting breeding was recorded. These species are summarised in Table 10 below together with notes on use of the Site.

Table 10: Non-breeding bird species recorded during surveys.

Common name	Species name	Notes
Barn owl	<i>Tyto alba</i>	Pellets in a barn immediately adjacent to the Site boundary east of Ryhall, however this appears to be a roost with no indication of breeding.
Black-headed gull	<i>Chroicocephalus ridibundus</i>	Occasional flyovers. No suitable breeding habitat.
Buzzard	<i>Buteo buteo</i>	Occasional hunting or roosting birds in eastern parts of the Site. Suitable breeding habitat (mature trees) but no breeding behaviour noted.
Grey partridge	<i>Perdix perdix</i>	Two flushed from the eastern part of the Site close to the railway on the April visit. Suitable

		habitat present and may breed but no breeding behaviour noted.
House martin	<i>Delichon urbicum</i>	Observed foraging close to the Site boundary south of Essendine village on the early July visit. Some suitable habitat present (old farm buildings) but no breeding behaviour noted.
Mallard	<i>Anas platyrhynchos</i>	Three flushed from pond in east of Site on April visit. Suitable breeding habitat present (river edges, ponds) and may breed but no breeding behaviour observed.
Moorhen	<i>Gallinula chloropus</i>	One individual calling from West Glen River on early July visit. Suitable breeding habitat present (river edges, ponds) and may breed but no breeding behaviour observed.
Siskin	<i>Spinus spinus</i>	One flyover during April visit. Small pockets of suitable habitat present (coniferous/mixed woodland) but no breeding behaviour noted.
Spotted flycatcher	<i>Muscicapa striata</i>	Observed in vicinity of farm buildings in east of Site on both July visit. Possibly breeds but no breeding behaviour observed.
Swallow	<i>Hirundo rustica</i>	Many foraging flyovers during later visits. Some suitable habitat present (old farm buildings) but no breeding behaviour noted.
Swift	<i>Apus apus</i>	One flyover during second July visit. Some suitable habitat present (old farm buildings) but no breeding behaviour noted.
Wheatear	<i>Oenanthe oenanthe</i>	Male observed on April visit in east of Site. No suitable habitat and probably a migrant.

3.55 Of the 48 species of bird recorded as breeding within or adjacent to the Site, 15 appear on one or more schedules or lists of species of conservation importance (see Table 11).

3.56 *Table 11: Birds of conservation importance breeding on Site.*

Species	WCA Schedule 1	SPI	Red List <sup>1</sup>	Amber List <sup>1</sup>
Dunnock		✓		✓
Greenfinch			✓	
House sparrow		✓	✓	
Kestrel				✓
Lapwing		✓	✓	
Linnet		✓	✓	
Mistle thrush			✓	
Moorhen				✓
Red kite	✓			
Reed bunting		✓		✓
Skylark		✓	✓	
Song thrush		✓		✓
Starling		✓	✓	
Stock dove				✓
Whitethroat				✓
Willow warbler				✓
Woodpigeon				✓

Species	WCA Schedule 1	SPI	Red List <sup>1</sup>	Amber List <sup>1</sup>
Wren				✓
Yellow wagtail		✓	✓	
Yellowhammer		✓	✓	

<sup>1</sup> Species of high (red list) and medium (amber list) conservation concern included in Birds of Conservation Concern 4 (Eaton *et al.*, 2015)

- 3.57 The surveys have recorded several breeding bird species listed as SPIs, and species which are local BAP species in Lincolnshire and Leicestershire and Rutland.

### **Birds-wintering**

- 3.58 Of the 1775 birds of 80 species returned by the records centres, the arable farmland on Site has suitability to support some wintering waterbirds. Due to the relatively dry, undulating topography of the Site and lack of low-lying areas prone to flooding, suitability is likely to be confined to wader species preferring open dry ground such as lapwing (93 records) and golden plover (no records). One record of lapwing from 2019 was on Site south of Essendine. The Site is also suitable for loafing gulls such as herring gull *Larus argentatus*, lesser black-backed gull *Larus fuscus* and black-headed gull *Chroicocephalus ridibundus*, although no records were returned of these species.
- 3.59 The Site is not considered suitable supporting habitat for any of the species listed under the designation of the Rutland Water SPA and Ramsar site (see “Designated Sites” above) all of which require extensive areas of aquatic habitats not present on Site.
- 3.60 The Site supports a small number of larger fields, but these are largely in intensive arable use. Therefore, there is potential for wintering species to include species such as lapwing and golden plover *Apicaria pluvialis* as well as very small numbers of ducks. However, given that the larger fields are limited in number and that there are no SPAs for these species in the vicinity, the winter usage of the Site by waders and wildfowl is likely to be very limited.
- 3.61 , The wintering bird surveys carried out up to the first January visit have recorded a very limited number of species wintering on the Site, above the species listed above which are residents. Of note have been small flocks of yellowhammer with a peak of 45 individuals, skylark with a peak of 40 individuals, redwing with a peak of 80, fieldfare with a peak of 450 (but much lower numbers at other times). Waders have been observed very infrequently with a lapwing being present twice (both single individuals) in flight and golden plover (11 individuals) recorded on one occasion.
- 3.62 A larger flock of starling estimated at 3,000 individuals was noted feeding on 24 November 2021 in a field which was recently ploughed located in the centre of the Site, immediately east of the railway. It should be noted however that this large flock was mobile and only much smaller flocks have been recorded on other occasions..

### **Reptiles**

- 3.63 All reptiles are fully protected under the Wildlife and Countryside Act 1981 (as amended; see Appendix 2) and all six species are also SPIs.
- 3.64 Combined, the records centres returned 43 records of three reptile species from within 2 km of the Site: common lizard *Zootoca vivipara* (22 records), grass snake *Natrix helvetica* (19) and slow worm *Anguis fragilis* (two). Two records of common lizard originate from within the Site, one adjacent to an isolated patch of woodland in the east of the Site in 2020, and one adjacent to a road in the north-west of the Site in 1996.
- 3.65 The Site has some suitable habitat for reptiles, predominantly longer and less-managed grassland forming field margins to arable fields. The riparian vegetation along the banks of the West Glen River are also suitable for grass snake.

### Amphibians

- 3.66 GCN is a European protected species and an SPI as well as a local BAP species in Lincolnshire, while common toad is an SPI.
- 3.67 Combined, the records centres returned 34 records of amphibians from within 2 km of the Site. These included 10 records of great crested newt *Triturus cristatus* (GCN) and five records of common toad *Bufo bufo*. The closest record of a GCN to the Site was 470 m north-east of the Site in Braceborough during 2013. The closest record of a common toad was 350 m from the Site boundary in Essendine during 2000. The remaining records related to the common and widespread common frog *Rana temporaria* and smooth newt *Lissotriton vulgaris*.
- 3.68 An analysis of aerial imagery and mapping revealed the presence of nine ponds on site, with an additional 13 ponds offsite but within 500 m of the Site (see Figure 2). Of the on site ponds, three were found to be dry or absent altogether (ponds 18, 19 and 20) during the extended Phase 1 habitat survey. The remaining six onsite ponds (Ponds 3, 4, 5, 6, 7 and 8) held water and these, plus two offsite ponds which were immediately adjacent to the Site boundary and accessible from the Site (Ponds 1 and 2), were surveyed using HSI and eDNA.
- 3.69 Of these ponds, six were scored as “poor” or “below average” using the Habitat Suitability Indicators, while one scored “average” and another scored “good” (see Table 3)

3.70 *Table 3. Description and HSI results of onsite and adjacent ponds*

Pond	Description	HSI score	HSI classification
1	Small isolated field pond surrounded by scrub, trees and grassland, heavily shaded and likely to dry frequently. No wildfowl or fish present. Moderate water quality and 75% aquatic vegetation cover.	0.48	Poor
2	Large pond or small lake (old flooded pit). Minimal shading, moderate terrestrial habitat surrounding the pond. Abundant wildfowl and fish likely to impede survival of GCN. Good water quality, 5% aquatic vegetation cover.	0.32	Poor
3	Moderately-sized pond in woodland near edge. Completely shaded and likely to dry frequently. Good terrestrial habitat around pond. No fish and low numbers of wildfowl but water quality poor and minimal aquatic vegetation.	0.37	Poor
4	Large pond in woodland near edge. 50% shaded, likely to dry occasionally. Good terrestrial habitat around pond. No fish and low numbers of wildfowl, water quality moderate. 25% aquatic vegetation cover.	0.77	Good
5	Small pond at edge of wooded strip at field boundary with minimal shading. Likely to dry frequently. Some surrounding grassland and other nearby woodland (good terrestrial habitat surrounding pond). No wildfowl or fish, water quality good. 75% aquatic vegetation cover.	0.56	Below average
6	Moderate to large pond in small pocket of woodland by farm buildings used for rearing of captive wildfowl. Heavily shaded, unlikely to dry. Poor terrestrial habitat surrounding (small amount of surrounding woodland heavily disturbed by wildfowl and game rearing, minimal cover). Fish likely absent but abundant	0.24	Poor

Pond	Description	HSI score	HSI classification
	wildfowl. Water quality very poor and no aquatic vegetation.		
7	Small to moderate pond at edge of hedgerow otherwise surrounded by arable field. 45% shaded, likely to dry occasionally. Moderate terrestrial habitat surrounding (hedgerow, arable margin, small pocket of scrub/grassland). Fish and wildfowl absent, water quality moderate. 45% aquatic vegetation cover.	0.63	Average
8	Small pond at edge of woodland strip. Heavily shaded, likely to dry occasionally. Good terrestrial habitat surrounding (adjacent woodland). Fish and wildfowl absent, water quality moderate. Negligible aquatic vegetation cover.	0.48	Poor

- 3.71 Ponds 1-8 were accessed for eDNA survey. The results for all eight ponds were negative (Appendix 3) indicating that GCN are likely absent from these ponds.
- 3.72 Ponds 12 and 24 (see Figure 2) are 430 m and 360 m respectively from the Site boundary and surrounded by good terrestrial habitat. GCN from these ponds (if present) are unlikely to be using the Site. Ponds 21, 22 and 23 form a small cluster on the far side of a water course with the closest pond (Pond 21) being 230 m from the Site and are also surrounded by suitable terrestrial habitat, meaning any newts present are unlikely to then be present on the Site.
- 3.73 The remaining nine offsite ponds (Ponds 9, 10, 11, 13, 14, 15, 16, 17, 21, 22 and 23) vary between 50 m and 250 m from the Site boundary and were not accessed for survey.

#### ***Invertebrates***

- 3.74 Combined, the records centres returned 681 records of 47 invertebrate species from within 2 km of the Site. The Site generally offers poor or very poor habitat for invertebrates due to the intensive management of the arable land, and the majority of habitats are unlikely to support any notable populations or assemblages of invertebrates. The more mature woodland areas and veteran trees within field boundary features may support some saproxylic (dead wood-reliant) species, while the aquatic habitats (particularly the West Glen River) may support notable aquatic species.

#### ***Plants***

- 3.75 The LRC and LRERC returned 1,200 records of 251 plant species within 2km of the Site. This includes a range of notable species which are typical of more diverse grassland such as bee orchid *Ophrys apifera*, man orchid *Orchis anthropophora*, and arable weeds including corn chamomile *Anthemis arvensis*, hound's -tongue *Cynoglossum officinale*, night-flowering catchfly *Silene noctiflora*, sharp-leaved fluellen *Kickxia elatine*, sulphur clover *Trifolium ochroleucon* and venus' looking-glass *Triodanis perfoliata*.
- 3.76 The majority of the Site comprises intensively managed, species-poor habitats of low or very low value for plant diversity, and is unlikely to support any notable populations or assemblages of plants. The more mature woodland areas and aquatic habitats may support some notable species.

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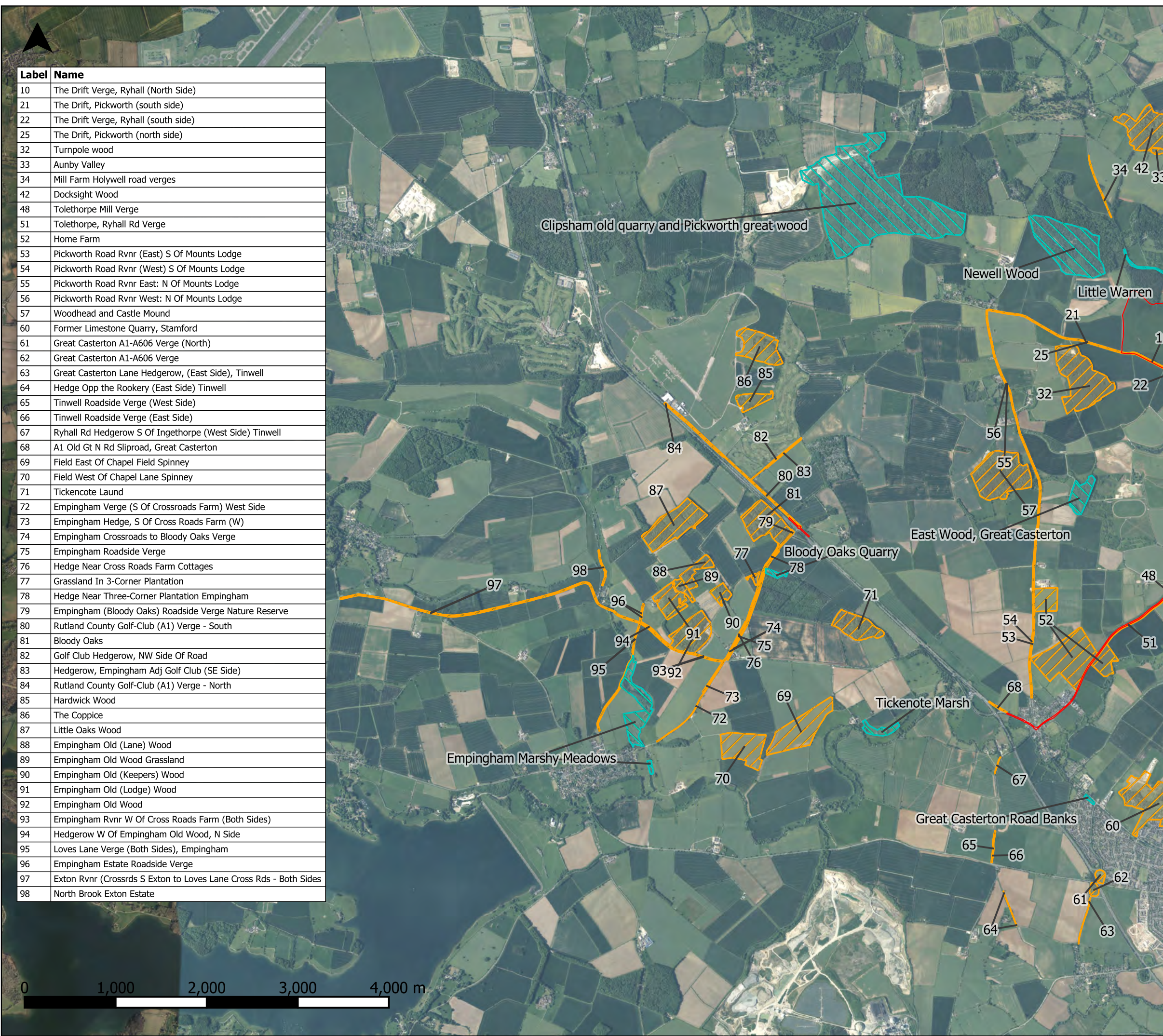
## 5 Figures

Figure 1. Site boundary and location of designated sites

Figure 2. Ponds within 500 m of the Site

Figure 3. Phase 1 habitats plan.





Label	Name
10	The Drift Verge, Ryhall (North Side)
21	The Drift, Pickworth (south side)
22	The Drift Verge, Ryhall (south side)
25	The Drift, Pickworth (north side)
32	Turnpole wood
33	Aunby Valley
34	Mill Farm Holywell road verges
42	Docksight Wood
48	Tolethorpe Mill Verge
51	Tolethorpe, Ryhall Rd Verge
52	Home Farm
53	Pickworth Road Rvnr (East) S Of Mounts Lodge
54	Pickworth Road Rvnr (West) S Of Mounts Lodge
55	Pickworth Road Rvnr East: N Of Mounts Lodge
56	Pickworth Road Rvnr West: N Of Mounts Lodge
57	Woodhead and Castle Mound
60	Former Limestone Quarry, Stamford
61	Great Casterton A1-A606 Verge (North)
62	Great Casterton A1-A606 Verge
63	Great Casterton Lane Hedgerow, (East Side), Tinwell
64	Hedge Opp the Rookery (East Side) Tinwell
65	Tinwell Roadside Verge (West Side)
66	Tinwell Roadside Verge (East Side)
67	Ryhall Rd Hedgerow S Of Ingethorpe (West Side) Tinwell
68	A1 Old Gt N Rd Sliproad, Great Casterton
69	Field East Of Chapel Field Spinney
70	Field West Of Chapel Lane Spinney
71	Tickencote Laund
72	Empingham Verge (S Of Crossroads Farm) West Side
73	Empingham Hedge, S Of Cross Roads Farm (W)
74	Empingham Crossroads to Bloody Oaks Verge
75	Empingham Roadside Verge
76	Hedge Near Cross Roads Farm Cottages
77	Grassland In 3-Corner Plantation
78	Hedge Near Three-Corner Plantation Empingham
79	Empingham (Bloody Oaks) Roadside Verge Nature Reserve
80	Rutland County Golf-Club (A1) Verge - South
81	Bloody Oaks
82	Golf Club Hedgerow, NW Side Of Road
83	Hedgerow, Empingham Adj Golf Club (SE Side)
84	Rutland County Golf-Club (A1) Verge - North
85	Hardwick Wood
86	The Coppice
87	Little Oaks Wood
88	Empingham Old (Lane) Wood
89	Empingham Old Wood Grassland
90	Empingham Old (Keepers) Wood
91	Empingham Old (Lodge) Wood
92	Empingham Old Wood
93	Empingham Rvnr W Of Cross Roads Farm (Both Sides)
94	Hedgerow W Of Empingham Old Wood, N Side
95	Loves Lane Verge (Both Sides), Empingham
96	Empingham Estate Roadside Verge
97	Exton Rvnr (Crossrds S Exton to Loves Lane Cross Rds - Both Sides)
98	North Brook Exton Estate

- Legend
- Local Wildlife Site (LWS)
  - Sites of Special Scientific Interest (SSSI)



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PROJECT TITLE  
**MALLARD PASS SOLAR FARM**

DRAWING TITLE  
**Figure 1: Site boundary and location of designated sites**  
 Map 1 of 2

DATE: 31/01/2022      CHECKED: JB      SCALE: 1:40000  
 DRAWN: MSG      APPROVED: PS      VERSION: 1.5

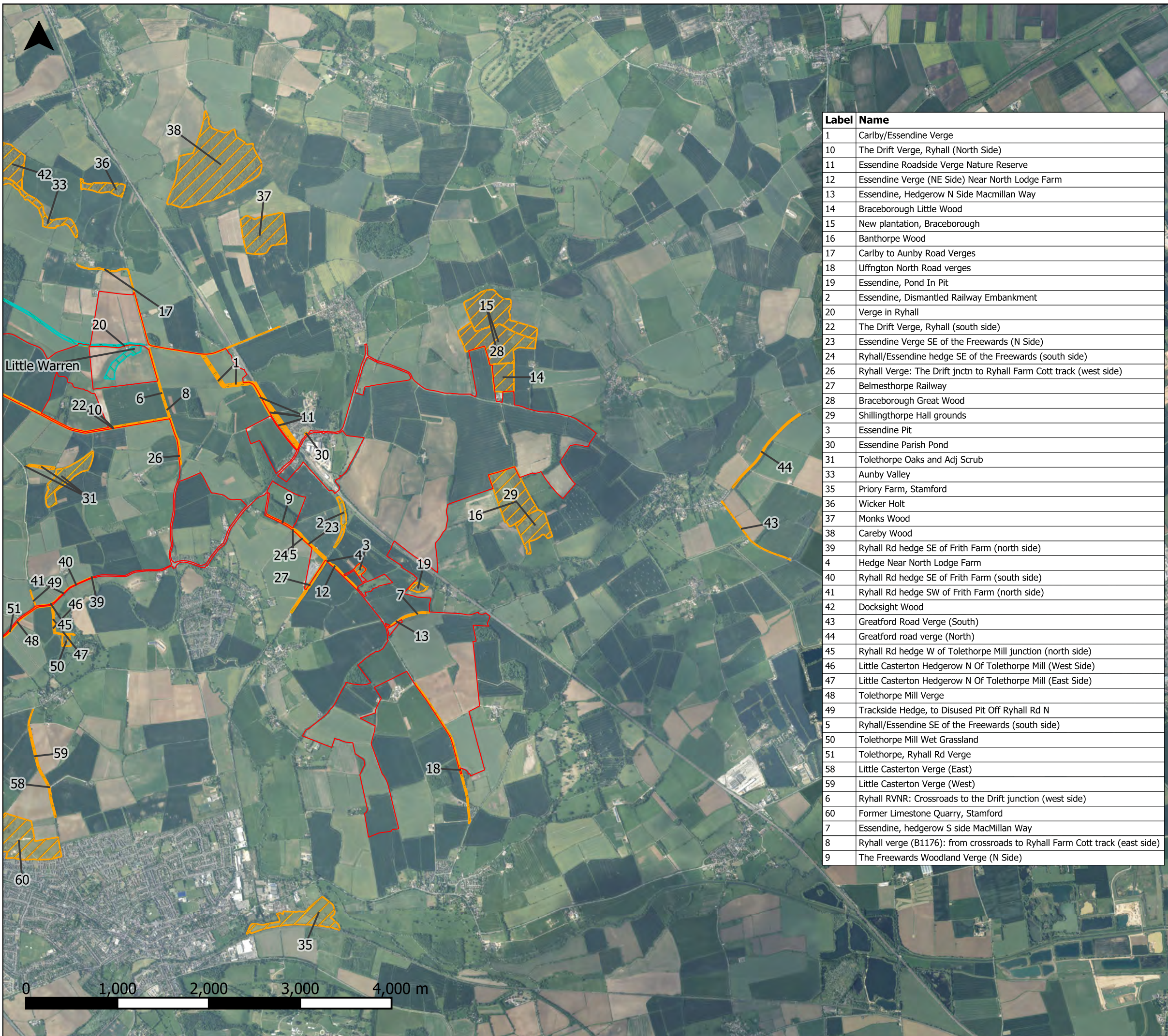
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

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 All dimensions are to be checked on site.  
 Area measurements for indicative purposes only.

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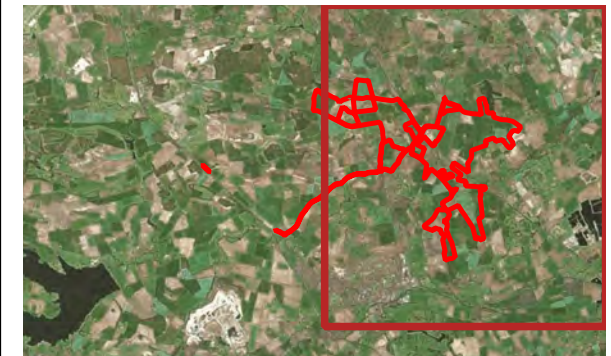
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Sources: BSG Ecology survey data



- Legend
-  Local Wildlife Site (LWS)
  -  Sites of Special Scientific Interest (SSSI)

Label	Name
1	Carlby/Essendine Verge
10	The Drift Verge, Ryhall (North Side)
11	Essendine Roadside Verge Nature Reserve
12	Essendine Verge (NE Side) Near North Lodge Farm
13	Essendine, Hedgerow N Side Macmillan Way
14	Braceborough Little Wood
15	New plantation, Braceborough
16	Banthorpe Wood
17	Carlby to Aunby Road Verges
18	Uffington North Road verges
19	Essendine, Pond In Pit
2	Essendine, Dismantled Railway Embankment
20	Verge in Ryhall
22	The Drift Verge, Ryhall (south side)
23	Essendine Verge SE of the Freewards (N Side)
24	Ryhall/Essendine hedge SE of the Freewards (south side)
26	Ryhall Verge: The Drift jcnctn to Ryhall Farm Cott track (west side)
27	Belmesthorpe Railway
28	Braceborough Great Wood
29	Shillingthorpe Hall grounds
3	Essendine Pit
30	Essendine Parish Pond
31	Tolethorpe Oaks and Adj Scrub
33	Aunby Valley
35	Priory Farm, Stamford
36	Wicker Holt
37	Monks Wood
38	Careby Wood
39	Ryhall Rd hedge SE of Frith Farm (north side)
4	Hedge Near North Lodge Farm
40	Ryhall Rd hedge SE of Frith Farm (south side)
41	Ryhall Rd hedge SW of Frith Farm (north side)
42	Docksight Wood
43	Greatford Road Verge (South)
44	Greatford road verge (North)
45	Ryhall Rd hedge W of Tolethorpe Mill junction (north side)
46	Little Casterton Hedgerow N Of Tolethorpe Mill (West Side)
47	Little Casterton Hedgerow N Of Tolethorpe Mill (East Side)
48	Tolethorpe Mill Verge
49	Trackside Hedge, to Disused Pit Off Ryhall Rd N
5	Ryhall/Essendine SE of the Freewards (south side)
50	Tolethorpe Mill Wet Grassland
51	Tolethorpe, Ryhall Rd Verge
58	Little Casterton Verge (East)
59	Little Casterton Verge (West)
6	Ryhall RVNR: Crossroads to the Drift junction (west side)
60	Former Limestone Quarry, Stamford
7	Essendine, hedgerow S side MacMillan Way
8	Ryhall verge (B1176): from crossroads to Ryhall Farm Cott track (east side)
9	The Freewards Woodland Verge (N Side)



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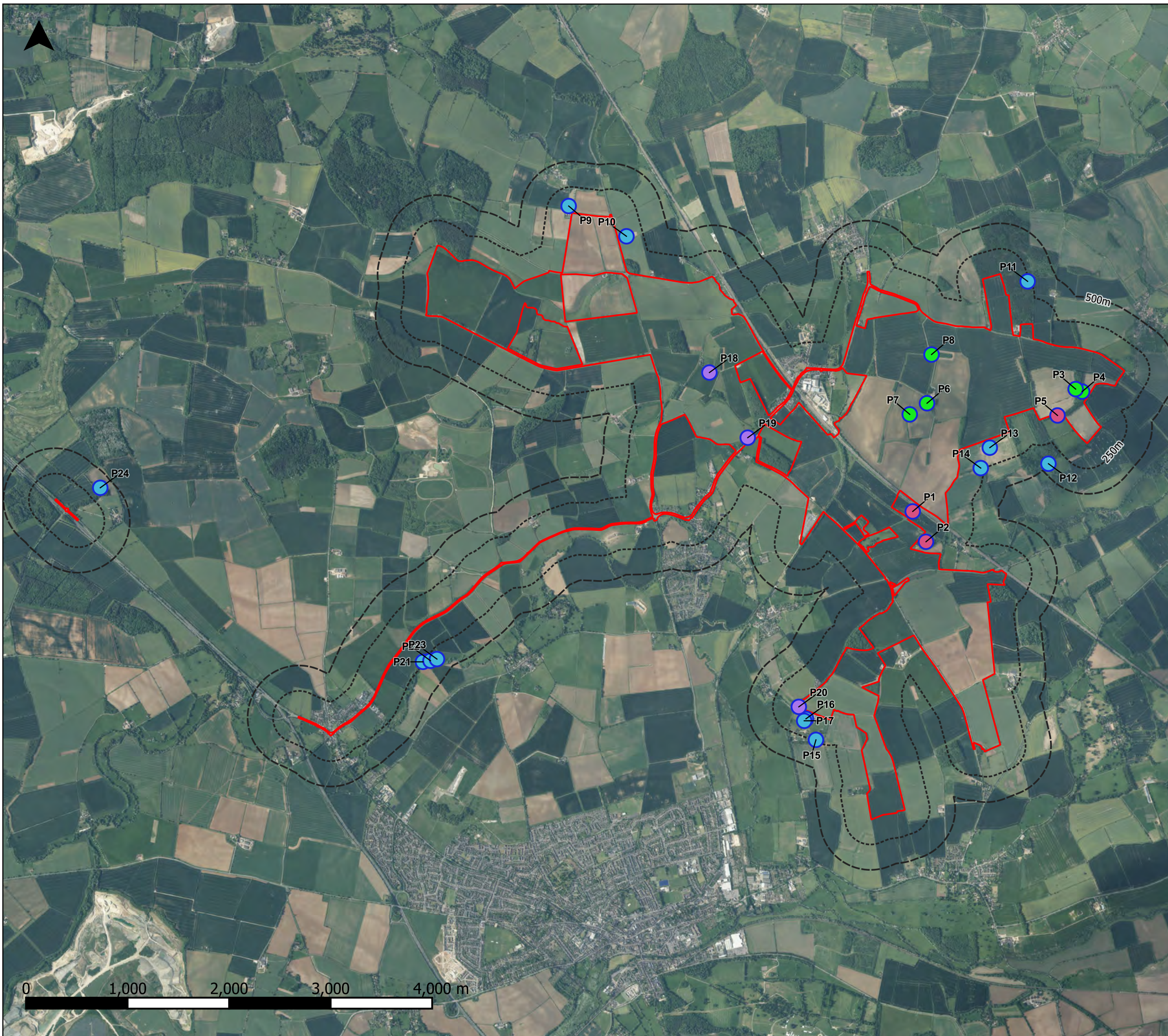
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**MALLARD PASS SOLAR FARM**

DRAWING TITLE  
**Figure 1: Site boundary and location of designated sites**  
 Map 2 of 2

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- Legend
- Onsite pond sampled for eDNA
  - Offsite pond sampled for eDNA
  - Offsite pond not sampled for eDNA
  - Onsite pond dry or absent
  - Site boundary
  - 250m buffer
  - 500m buffer



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PROJECT TITLE  
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DRAWING TITLE  
 Figure 2: Ponds within 500m of the site

DATE: 31/01/2022      CHECKED: JB      SCALE: 1:36000  
 DRAWN: MSG      APPROVED: PS      VERSION: 1.3

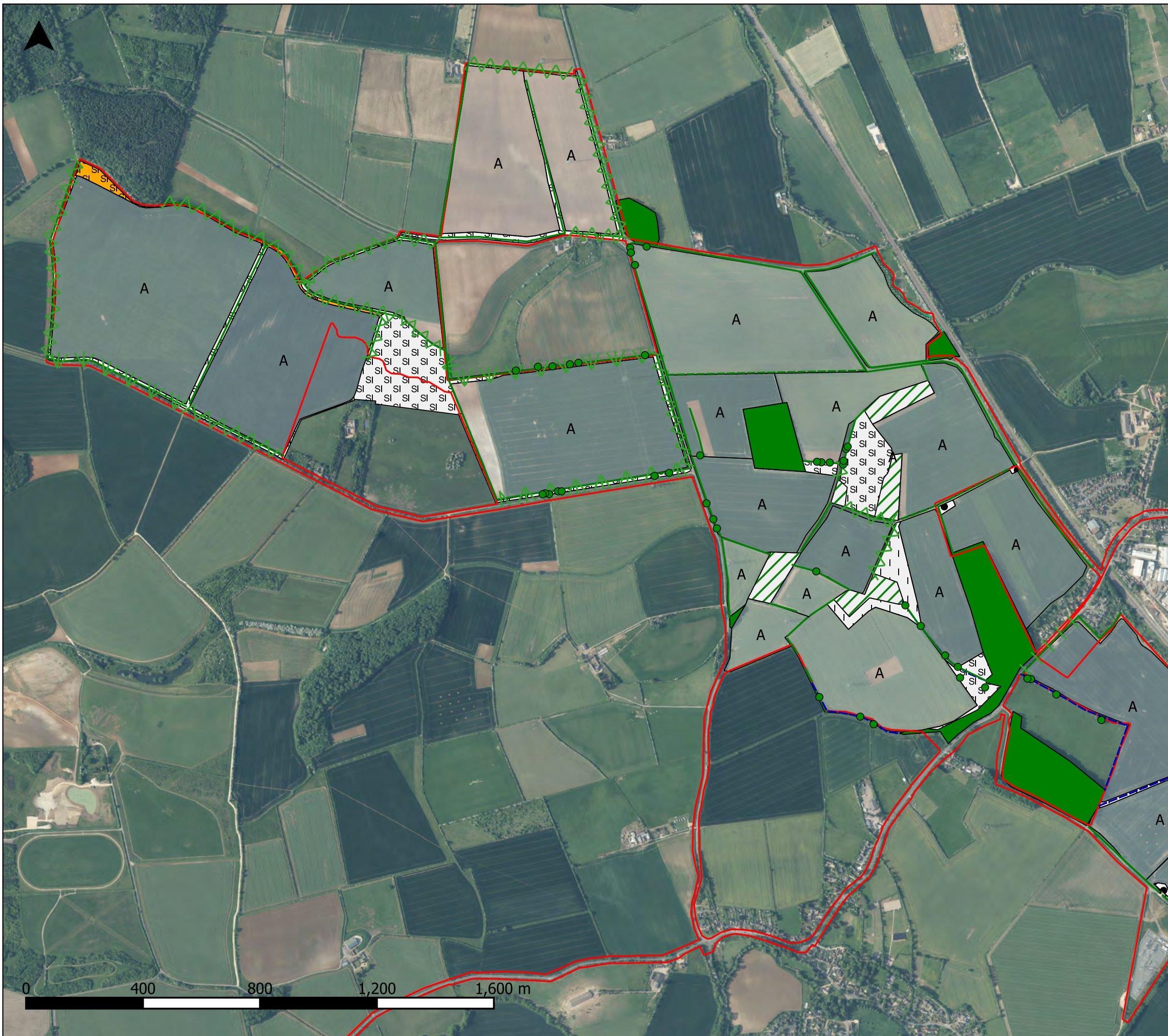
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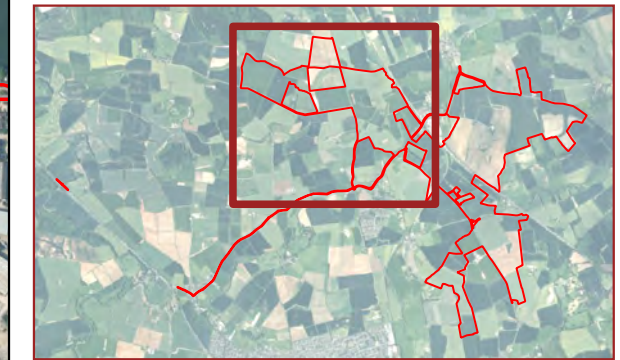
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- Legend
- Scattered trees
  - ▲ J2.1.1 - Intact hedge - native species-rich
  - J2.1.2 - Intact hedge - species-poor
  - - - J2.2.2 - Defunct hedge - species-poor
  - ▼ J2.3.1 - Hedge with trees - native species-rich
  - ⊥ J2.3.2 - Hedge with trees - species-poor
  - - - J2.6 - Dry ditch
  - A1.1.1 - Broadleaved woodland - semi-natural
  - ▨ A1.1.2 - Broadleaved woodland - plantation
  - ⊠ A2.1 - Scrub - dense/continuous
  - B2.2 - Neutral grassland - semi-improved
  - B4 - Improved grassland
  - B6 - Poor semi-improved grassland
  - Matrix of semi-improved neutral grassland, poor semi-improved grassland, tall ruderal vegetation and scattered scrub
  - A J1.1 - Cultivated/disturbed land - arable
  - J4 - Bare ground
  - Site boundary



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**MALLARD PASS SOLAR FARM**

DRAWING TITLE  
**Figure 3: Phase 1 habitats plan**  
 Map 1 of 3

DATE: 27/01/2022      CHECKED: JB      SCALE: 1:12500  
 DRAWN: MSG      APPROVED: PS      VERSION: 1.2

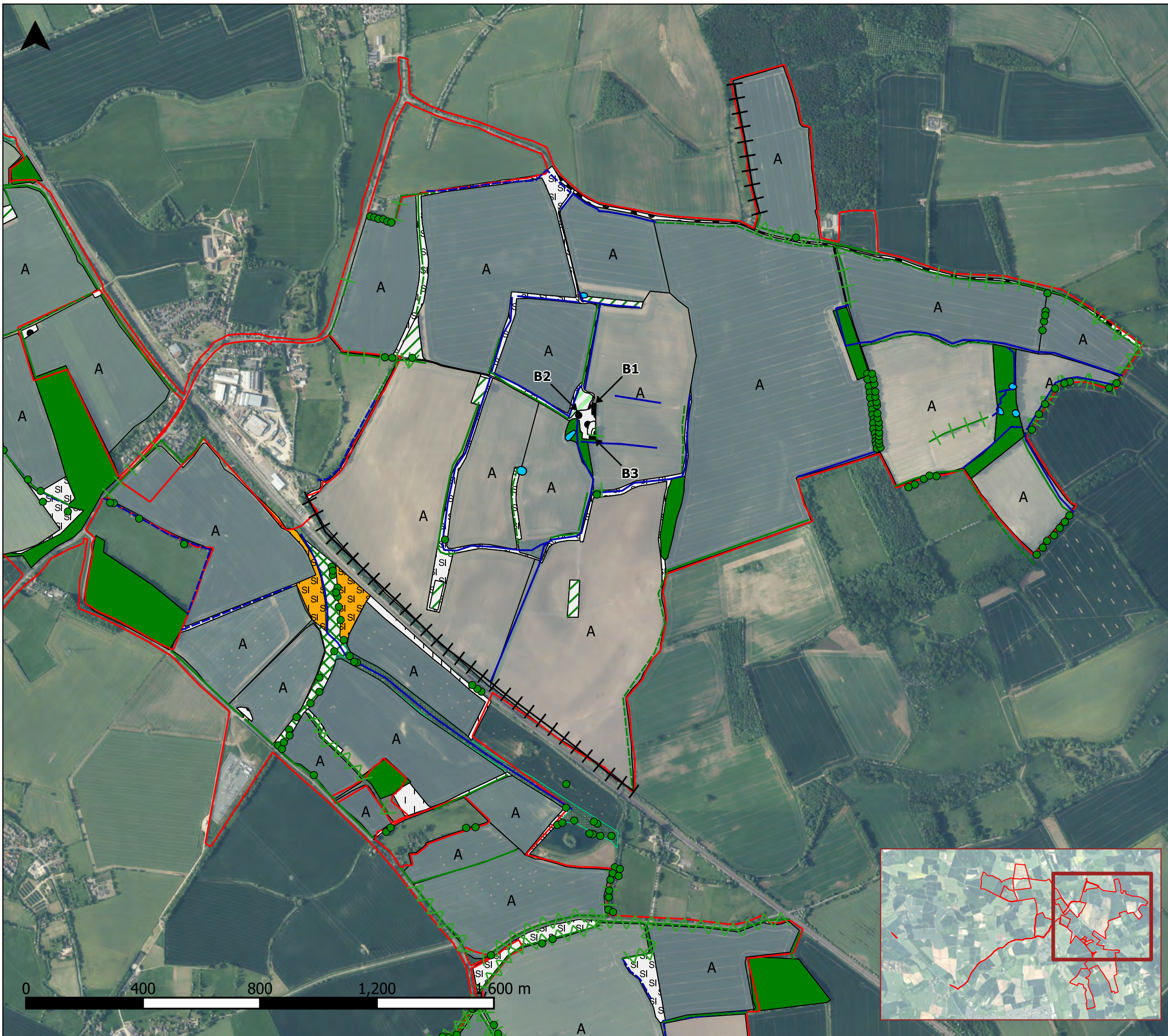
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Sources: BSG Ecology survey data



- Legend
- Scattered trees
  - G2 - Running water
  - ▲▲ J2.1.1 - Intact hedge - native species-rich
  - J2.1.2 - Intact hedge - species-poor
  - - - J2.2.2 - Defunct hedge - species-poor
  - ▼ J2.3.1 - Hedge with trees - native species-rich
  - J2.3.2 - Hedge with trees - species-poor
  - ⊥ J2.4 - Fence
  - - - J2.6 - Dry ditch
  - A1.1.1 - Broadleaved woodland - semi-natural
  - ▨ A1.1.2 - Broadleaved woodland - plantation
  - ▨ A1.2.2 - Coniferous woodland - plantation
  - ⊠ A2.1 - Scrub - dense/continuous
  - B2.2 - Neutral grassland - semi-improved
  - B4 - Improved grassland
  - B6 - Poor semi-improved grassland
  - Matrix of semi-improved neutral grassland, poor semi-improved grassland, tall ruderal vegetation and scattered scrub
  - G1 - Standing water
  - A J1.1 - Cultivated/disturbed land - arable
  - J4 - Bare ground
  - J3.6 - Buildings
  - Site boundary



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PROJECT TITLE  
 MALLARD PASS SOLAR FARM

DRAWING TITLE  
 Figure 3: Phase 1 habitats plan  
 Map 2 of 3

DATE: 02/02/2022      CHECKED: JB      SCALE: 1:12500  
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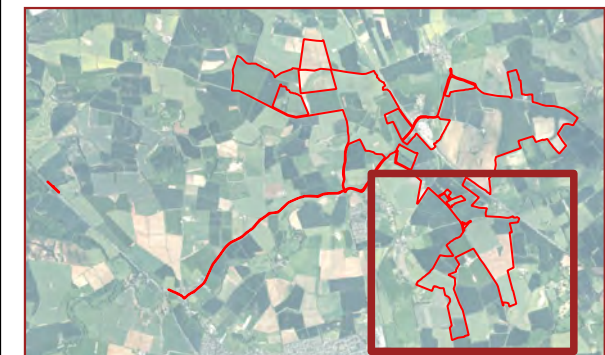
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Sources: BSG Ecology survey data



- Legend
- Scattered trees
  - G2 - Running water
  - ▲▲ J2.1.1 - Intact hedge - native species-rich
  - J2.1.2 - Intact hedge - species-poor
  - - - J2.2.2 - Defunct hedge - species-poor
  - ▼▲ J2.3.1 - Hedge with trees - native species-rich
  - J2.3.2 - Hedge with trees - species-poor
  - ⊥ J2.4 - Fence
  - - - J2.6 - Dry ditch
  - A1.1.1 - Broadleaved woodland - semi-natural
  - ▨ A1.1.2 - Broadleaved woodland - plantation
  - ▩ A2.1 - Scrub - dense/continuous
  - B4 - Improved grassland
  - ▩ B6 - Poor semi-improved grassland
  - ▩ Matrix of semi-improved neutral grassland, poor semi-improved grassland, tall ruderal vegetation and scattered scrub
  - A J1.1 - Cultivated/disturbed land - arable
  - J4 - Bare ground
  - Site boundary



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PROJECT TITLE  
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DRAWING TITLE  
 Figure 3: Phase 1 habitats plan  
 Map 3 of 3

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## 5 Figures

Figure 4. Trees with bat roost suitability.

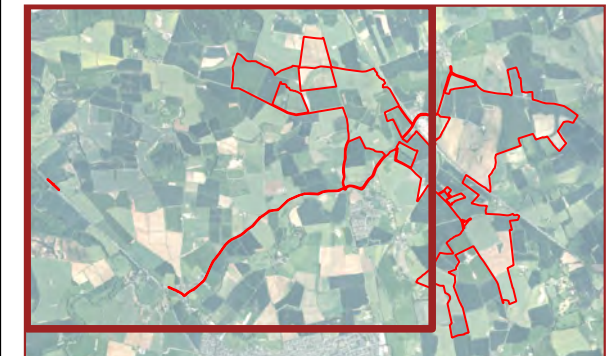
Figure 5. Water vole evidence

Figure 6. Breeding bird indicative territory map



Legend

- Trees with bat roost suitability
- Site boundary



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PROJECT TITLE  
MALLARD PASS SOLAR FARM

DRAWING TITLE  
Figure 4: Trees with bat roost suitability  
Map 1 of 2

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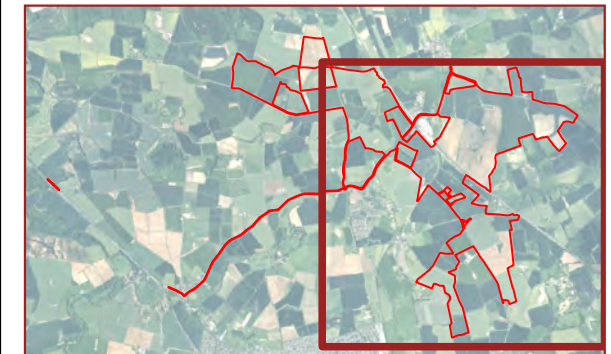
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- Legend
- Trees with bat roost suitability
  - Site boundary



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MALLARD PASS  
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DRAWING TITLE  
 Figure 4: Trees with bat roost suitability  
 Map 2 of 2

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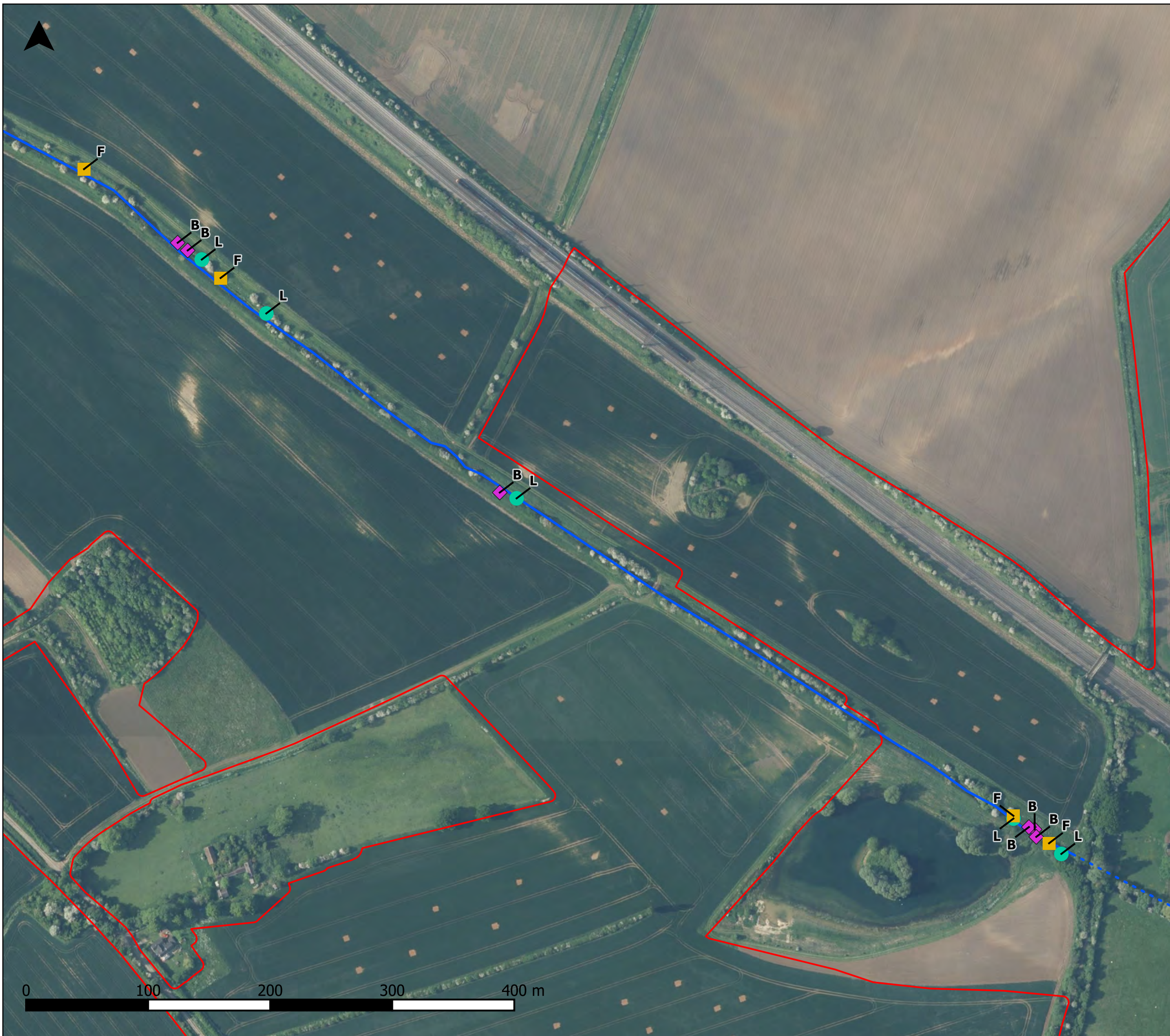
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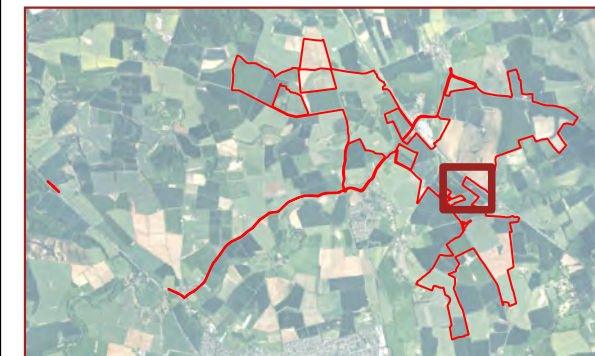
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0      700      1,400      2,100      2,800 m



- Legend
- Feeding station
  - ◆ Burrow
  - Latrine
  - River surveyed for water vole
  - - - River not surveyed for water vole
  - Site boundary



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PROJECT TITLE  
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DRAWING TITLE  
 Figure 5: Water vole evidence

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Legend

**Birds of Conservation Concern (BoCC) Status**

- Red
- Amber
- Green
- Site boundary

BTO code	Common name	Scientific name
B.	Blackbird	Turdus merula
BC	Blackcap	Sylvia atricapilla
WR	Wren	Troglodytes troglodytes
D.	Dunnock	Prunella modularis
R.	Robin	Erithacus rubecula
GO	Goldfinch	Carduelis carduelis
S.	Skylark	Alauda arvensis
WH	Common Whitethroat	Sylvia communis
CH	Chaffinch	Fringilla coelebs
BT	Blue Tit	Cyanistes caeruleus
GC	Goldcrest	Regulus regulus
CC	Chiffchaff	Phylloscopus collybita
Y.	Yellowhammer	Emberiza citrinella
PH	Pheasant	Phasianus colchicus
WP	Woodpigeon	Columba palumbus
J.	Jay	Garrulus glandarius
GS	Great Spotted Woodpecker	Dendrocopos major
CT	Coal Tit	Periparus ater
SG	Common Starling	Sturnus vulgaris
GT	Great Tit	Parus major
LI	Linnet	Carduelis cannabina
C.	Carrion Crow	Corvus corone
JD	Jackdaw	Corvus monedula
PW	Pied/White Wagtail	Motacilla alba



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PROJECT TITLE  
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DRAWING TITLE  
 Figure 6: Breeding bird indicative territory map  
 Map 1 of 5

DATE: 31/01/2022      CHECKED: JB      SCALE: 1:10000  
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Legend

**Birds of Conservation Concern (BoCC) Status**

- Red
- Amber
- Green
- Site boundary

BTO code	Common name	Scientific name
WH	Common Whitethroat	<i>Sylvia communis</i>
Y.	Yellowhammer	<i>Emberiza citrinella</i>
BT	Blue Tit	<i>Cyanistes caeruleus</i>
WR	Wren	<i>Troglodytes troglodytes</i>
RL	Red-legged Partridge	<i>Alectoris rufa</i>
RB	Reed Bunting	<i>Emberiza schoeniclus</i>
CC	Chiffchaff	<i>Phylloscopus collybita</i>
CH	Chaffinch	<i>Fringilla coelebs</i>
S.	Skylark	<i>Alauda arvensis</i>
LT	Long-tailed Tit	<i>Aegithalos caudatus</i>
ST	Song Thrush	<i>Turdus philomelos</i>
K.	Common Kestrel	<i>Falco tinnunculus</i>
R.	Robin	<i>Erithacus rubecula</i>
H.	Grey Heron	<i>Ardea cinerea</i>
MG	Magpie	<i>Pica pica</i>
B.	Blackbird	<i>Turdus merula</i>
GO	Goldfinch	<i>Carduelis carduelis</i>
D.	Dunnock	<i>Prunella modularis</i>
WP	Woodpigeon	<i>Columba palumbus</i>
C.	Carrion Crow	<i>Corvus corone</i>
PH	Pheasant	<i>Phasianus colchicus</i>
GT	Great Tit	<i>Parus major</i>
G.	Green Woodpecker	<i>Picus viridis</i>
KT	Red Kite	<i>Milvus milvus</i>
LI	Linnet	<i>Carduelis cannabina</i>
WW	Willow Warbler	<i>Phylloscopus trochilus</i>
BC	Blackcap	<i>Sylvia atricapilla</i>
CT	Coal Tit	<i>Periparus ater</i>



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PROJECT TITLE  
 MALLARD PASS SOLAR FARM

DRAWING TITLE  
 Figure 6: Breeding bird indicative territory map  
 Map 4 of 5

DATE: 31/01/2022      CHECKED: JB      SCALE: 1:7000  
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Legend

**Birds of Conservation Concern (BoCC) Status**

- Red
- Amber
- Green
- Site boundary

BTO code	Common name	Scientific name
S.	Skylark	<i>Alauda arvensis</i>
WP	Woodpigeon	<i>Columba palumbus</i>
BT	Blue Tit	<i>Cyanistes caeruleus</i>
CH	Chaffinch	<i>Fringilla coelebs</i>
B.	Blackbird	<i>Turdus merula</i>
WH	Common Whitethroat	<i>Sylvia communis</i>
WR	Wren	<i>Troglodytes troglodytes</i>
Y.	Yellowhammer	<i>Emberiza citrinella</i>
BC	Blackcap	<i>Sylvia atricapilla</i>
R.	Robin	<i>Erithacus rubecula</i>
LI	Linnet	<i>Carduelis cannabina</i>
GO	Goldfinch	<i>Carduelis carduelis</i>
KT	Red Kite	<i>Milvus milvus</i>
CT	Coal Tit	<i>Periparus ater</i>
GT	Great Tit	<i>Parus major</i>
ST	Song Thrush	<i>Turdus philomelos</i>
NH	Eurasian Nuthatch	<i>Sitta europaea</i>
CC	Chiffchaff	<i>Phylloscopus collybita</i>
C.	Carrion Crow	<i>Corvus corone</i>
HS	House Sparrow	<i>Passer domesticus</i>
RN	Raven	<i>Corvus corax</i>
CD	Collared Dove	<i>Streptopelia decaocto</i>
G.	Green Woodpecker	<i>Picus viridis</i>
D.	Dunnock	<i>Prunella modularis</i>
M.	Mistle Thrush	<i>Turdus viscivorus</i>
MG	Magpie	<i>Pica pica</i>
JD	Jackdaw	<i>Corvus monedula</i>
SG	Common Starling	<i>Sturnus vulgaris</i>



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PROJECT TITLE  
 MALLARD PASS SOLAR FARM

DRAWING TITLE  
 Figure 6: Breeding bird indicative territory map  
 Map 5 of 5

DATE: 31/01/2022      CHECKED: JB      SCALE: 1:7000  
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## 6 Photographs

<p><b>Photograph 1: Patch of broadleaved semi-natural woodland in the west of the Site.</b></p>	<p><b>Photograph 2: Typical understorey and ground vegetation in broadleaved woodland in south of the Site.</b></p>
	
<p><b>Photograph 3: Hedgerow in the west of the Site.</b></p>	<p><b>Photograph 4: Typical hedgerow with standard trees.</b></p>
	
<p><b>Photograph 5: Pond 3, located in the east of the Site.</b></p>	<p><b>Photograph 6: West Glen River in the centre and west of the Site showing well-vegetated banks suitable for water vole.</b></p>
	
<p><b>Photograph 7: Photograph 6: West Glen River in the centre and west of the Site.</b></p>	<p><b>Photograph 8: Intensively managed arable farmland.</b></p>





**Photograph 9: Intensively-managed arable farmland.**



**Photograph 10: Poor semi-improved grassland forming an arable field margin.**



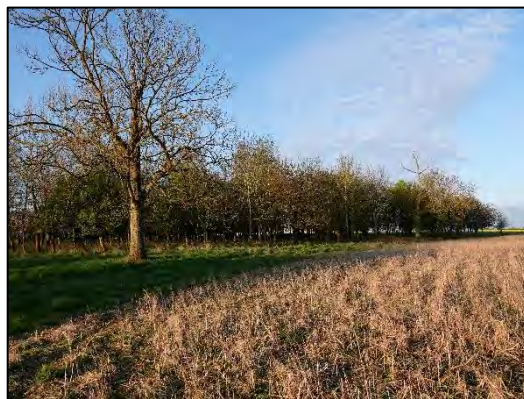
**Photograph 11: Good semi-improved neutral grassland adjacent to the Essendine Dismantled Railway Embankment LWS.**



**Photograph 12: Broadleaved plantation woodland in the west of the Site.**



**Photograph 13: Dense scrub along Essendine Dismantled Railway Embankment LWS.**



**Photograph 14: Typical dry ditch in south of the Site.**



## Annex 1. Local Wildlife Sites within 2 km of the Site boundary

Number on Figure 1	Site name	Note/reasons for designation <sup>4</sup>
1	Carlby/Essendine Verge	Calcareous grassland and Red Data Book species.
2	Essendine, Dismantled Railway Embankment	Stream and Red Data Book species, with scrub and calcareous grassland.
3	Essendine Pit	Red Data Book species present in mesotrophic grassland.
4	Hedge Near North Lodge Farm	Species-rich hedgerow
5	Ryhall/Essendine SE of the Freewards (south side)	Mesotrophic grassland.
6	Ryhall RVNR: Crossroads to the Drift junction (west side)	Transitional calcareous/mesotrophic grassland.
7	Essendine, hedgerow S side MacMillan Way	Species-rich hedgerow.
8	Ryhall verge (B1176): from crossroads to Ryhall Farm Cott track (east side)	Calcareous grassland.
9	The Freewards Woodland Verge (N Side)	Red Data Book species present in mesotrophic grassland.
10	The Drift Verge, Ryhall (North Side)	Calcareous grassland.
11	Essendine Roadside Verge Nature Reserve	Mesotrophic grassland and Red Data Book species.
12	Essendine Verge (NE Side) Near North Lodge Farm	Mesotrophic grassland and Red Data book species.
13	Essendine, Hedgerow N Side Macmillan Way	Species-rich hedgerow.

<sup>4</sup> From information provided by LRERC and LERC

14	Braceborough Little Wood	
15	New plantation, Braceborough	
16	Banthorpe Wood	
17	Carlby to Aunby Road Verges	
18	Uffington North Road verges	
19	Essendine, Pond In Pit	Pond in disused pit with <i>Potamogeton crispus</i> and <i>Myriophyllum</i> sp.
20	Verge in Ryhall	Calcareous grassland
21	The Drift, Pickworth (south side)	Transitional mesotrophic/calcareous grassland.
22	The Drift Verge, Ryhall (south side)	Calcareous grassland and Red Data Book species.
23	Essendine Verge SE of the Freewards (N Side)	Mesotrophic grassland
24	Ryhall/Essendine hedge SE of the Freewards (south side)	Species-rich hedgerow.
25	The Drift, Pickworth (north side)	Transitional mesotrophic/calcareous grassland and Red Data Book species.
26	Ryhall Verge: The Drift jnctn to Ryhall Farm Cott track (west side)	Calcareous grassland.
27	Belmesthorpe Railway	Red Data Book species present in scrub, adjacent to other LWS.
28	Braceborough Great Wood	
29	Shillingthorpe Hall grounds	
30	Essendine Parish Pond	Red Data Book species present in pond.
31	Tolethorpe Oaks and Adj Scrub	No recent survey information
32	Turnpole wood	No recent survey information
33	Aunby Valley	
34	Mill Farm Holywell road verges	
35	Priory Farm, Stamford	

36	Wicker Holt	
37	Monks Wood	
38	Careby Wood	
39	Ryhall Rd hedge SE of Frith Farm (north side)	Species-rich hedgerow.
40	Ryhall Rd hedge SE of Frith Farm (south side)	Species-rich hedgerow.
41	Ryhall Rd hedge SW of Frith Farm (north side)	Species-rich hedgerow.
42	Docksight Wood	
43	Greatford Road Verge (South)	
44	Greatford road verge (North)	
45	Ryhall Rd hedge W of Tolethorpe Mill junction (north side)	Species-rich hedgerow.
46	Little Casterton Hedgerow N Of Tolethorpe Mill (West Side)	Species-rich hedgerow.
47	Little Casterton Hedgerow N Of Tolethorpe Mill (East Side)	Species-rich hedgerow.
48	Tolethorpe Mill Verge	Calcareous grassland
49	Trackside Hedge, to Disused Pit Off Ryhall Rd N	Species-rich hedgerow.
50	Tolethorpe Mill Wet Grassland	Wet grassland, with pond.
51	Tolethorpe, Ryhall Rd Verge	Calcareous grassland.
52	Home Farm	Arable plant community and Red Data Book species.
53	Pickworth Road Rvnr (East) S Of Mounts Lodge	Calcareous grassland and Red Data Book species.
54	Pickworth Road Rvnr (West) S Of Mounts Lodge	Calcareous grassland.
55	Pickworth Road Rvnr East: N Of Mounts Lodge	Transitional mesotrophic/calcareous grassland.

56	Pickworth Road Rvnr West: N Of Mounts Lodge	Mesotrophic grassland.
57	Woodhead and Castle Mound	No recent survey information
58	Little Casterton Verge (East)	Transitional mesotrophic/calcareous grassland.
59	Little Casterton Verge (West)	Transitional mesotrophic/calcareous grassland.
60	Former Limestone Quarry, Stamford	Mesotrophic and wet grassland, ponds, woodland scrub and early successional communities in former quarry; Great Crested Newt; Orchids, Sulphur clover, Narrow-lvd Birdsfoot Trefoil, Grass Vetchling
61	Great Casterton A1-A606 Verge (North)	Calcareous grassland.
62	Great Casterton A1-A606 Verge	Calcareous grassland.
63	Great Casterton Lane Hedgerow, (East Side), Tinwell	Species-rich hedgerow.
64	Hedge Opp the Rookery (East Side) Tinwell	Species-rich hedgerow.
65	Tinwell Roadside Verge (West Side)	Transitional mesotrophic/calcareous grassland and Red Data Book species.
66	Tinwell Roadside Verge (East Side)	Transitional mesotrophic/calcareous grassland and Red Data Book species.
67	Ryhall Rd Hedgerow S Of Ingethorpe (West Side) Tinwell	Species-rich hedgerow.
68	A1 Old Gt N Rd Sliproad, Great Casterton	Calcareous grassland.
69	Field East Of Chapel Field Spinney	Arable field margin; Valerianella dentata, Legousia hybrida
70	Field West Of Chapel Lane Spinney	Arable Field margin; Valerianella dentata, Viola tricolor
71	Tickencote Laund	No recent survey information
72	Empingham Verge (S Of Crossroads Farm) West Side	Calcareous grassland.
73	Empingham Hedge, S Of Cross Roads Farm (W)	Hedgerow

74	Empingham Crossroads to Bloody Oaks Verge	Transitional calcareous/mesotrophic grassland.
75	Empingham Roadside Verge	Calcareous grassland
76	Hedge Near Cross Roads Farm Cottages	Species-rich hedgerow.
77	Grassland In 3-Corner Plantation	Calcareous grassland.
78	Hedge Near Three-Corner Plantation Empingham	Hedgerow
79	Empingham (Bloody Oaks) Roadside Verge Nature Reserve	Calcareous grassland.
80	Rutland County Golf-Club (A1) Verge - South	Calcareous grassland and Red Data Book species.
81	Bloody Oaks	Ancient semi-natural woodland.
82	Golf Club Hedgerow, NW Side Of Road	Species-rich hedgerow.
83	Hedgerow, Empingham Adj Golf Club (SE Side)	Species-rich hedgerow.
84	Rutland County Golf-Club (A1) Verge - North	Transitional calcareous/mesotrophic grassland.
85	Hardwick Wood	No recent survey information
86	The Coppice	No recent survey information
87	Little Oaks Wood	Woodland closely associated with other woodland LWS.
88	Empingham Old (Lane) Wood	Ancient semi-natural woodland, with adjacent plantation.
89	Empingham Old Wood Grassland	Transitional mesotrophic/wet grassland and Red Data Book species.
90	Empingham Old (Keepers) Wood	Ancient semi-natural woodland.
91	Empingham Old (Lodge) Wood	Ancient semi-natural woodland.
92	Empingham Old Wood	Ancient semi-natural woodland.

93	Empingham Rvnr W Of Cross Roads Farm (Both Sides)	Transitional calcareous/mesotrophic grassland.
94	Hedgerow W Of Empingham Old Wood, N Side	Hedgerow
95	Loves Lane Verge (Both Sides), Empingham	Mesotrophic grassland.
96	Empingham Estate Roadside Verge	Calcareous grassland.
97	Exton Rvnr (Crossrds S Exton to Loves Lane Cross Rds - Both Sides	Calcareous grassland.
98	North Brook Exton Estate	Small stream with Water Vole



## Annex 2: Summaries of Relevant Policy, Legislation and Other Instruments

This section briefly summarises the legislation, policy and related issues that are relevant to the main text of the report. The following text does not constitute legal or planning advice.

### National Planning Policy Framework (England)

The Government issued the National Planning Policy Framework (NPPF) in July 2021. Text excerpts from the NPPF are shown where they may be relevant to planning applications and biodiversity including protected sites, habitats and species.

The Government sets out the three objectives for sustainable development (economy, social and environmental) at paragraphs 8-10 to be delivered through the plan preparation and implementation level and 'are not criteria against which every decision can or should be judged' (paragraph 9). The planning system's environmental objective is 'to protect and enhance our natural, built and historic environment; including making effective use of land, improving biodiversity...' (paragraph 8c).

In conserving and enhancing the natural environment, the NPPF (Paragraph 174) states that 'planning policies and decisions should contribute to and enhance the natural and local environment' by:

- Protecting and enhancing...sites of biodiversity value... '(in a manner commensurate with their statutory status or identified quality in the development plan)'.
- Recognising the wider benefits from natural capital and ecosystem services including trees and woodland.
- Minimising impacts on and providing net gains for biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures.
- Preventing both new and existing development from contributing to or being put at unacceptable risk from, or being adversely affected by unacceptable levels of soil, air, water or noise pollution or land instability.

In respect of protected sites, at paragraph 175, the NPPF requires local planning authorities to distinguish, at the plan level, '...between the hierarchy of international, national and locally designated sites; allocate land with the least environmental or amenity value...take a strategic approach to maintaining and enhancing networks of habitats and green infrastructure; and plan for the enhancement of natural capital at a catchment or landscape scale across local authority boundaries.' A footnote to paragraph 175 refers to the preferred use of agricultural land of poorer quality if significant development of agricultural land is to take place.

Paragraph 179 refers to how plans should aim to protect and enhance biodiversity. Plans should: 'identify, map and safeguard components of local wildlife-rich habitats and wider ecological networks, including the hierarchy of international, national and locally designated sites of importance for biodiversity [a footnote refers to ODPM Circular 06/2005 for further guidance in respect of statutory obligations for biodiversity in the planning system], wildlife corridors and stepping stones that connect them and areas identified by national and local partnerships for habitat management, enhancement, restoration or creation;' and to 'promote the conservation, restoration and re-creation of priority habitats, ecological networks and the protection and recovery of priority species; and identify and pursue opportunities for securing measurable net gains for biodiversity.'

Paragraph 180 advises that, when determining planning applications, '...local planning authorities should apply the following principles:

- if significant harm to biodiversity resulting from a development cannot be avoided (through locating on an alternative site with less harmful impacts), adequately mitigated, or, as a last resort, compensated for, then planning permission should be refused;
- development on land within or outside a Site of Special Scientific Interest, and which is likely to have an adverse effect on it (either individually or in combination with other developments) should not normally be permitted. The only exception is where the benefits of the development in the location proposed clearly outweigh both its likely impact on the features of the site that make it of

special scientific interest, and any broader impacts on the national network of Sites of Special Scientific Interest;

- development resulting in the loss or deterioration of irreplaceable habitats, (such as ancient woodland and ancient or veteran trees) should be refused, unless there are wholly exceptional reasons and a suitable compensation strategy exists; and
- development whose primary objective is to conserve or enhance biodiversity should be supported; while opportunities to improve biodiversity in and around developments should be integrated as part of their design, especially where this can secure measurable net gains for biodiversity or enhance public access to nature where this is appropriate.'

In paragraph 181, the following should be given the same protection as habitats sites:

- potential Special Protection Areas and possible Special Areas of Conservation;
- listed or proposed Ramsar sites; and
- sites identified, or required, as compensatory measures for adverse effects on habitats sites, potential Special Protection Areas, possible Special Areas of Conservation, and listed or proposed Ramsar sites.'

In paragraph 182 the NPPF refers back to sustainable development in relation to appropriate assessment and states: 'the presumption in favour of sustainable development does not apply where the plan or project is likely to have a significant effect on a habitats site (either alone or in combination with other plans or projects), unless an appropriate assessment has concluded that the plan or project will not adversely affect the integrity of the habitats site'.

In paragraph 183, the NPPF refers to planning policies and decisions taking account of ground conditions and risks arising from land instability and contamination at sites. In relation to risks associated with land remediation account is to be taken of 'potential impacts on the natural environment' that arise from land remediation.

In paragraph 185 the NPPF states that planning policies and decisions should ensure that development is appropriate to the location and take into account likely effects (including cumulative) on the natural environment and, in doing so, they 'should limit the impact of light pollution from artificial light on local amenity, intrinsically dark landscapes and nature conservation' (paragraph 185c).

### **Government Circular ODPM 06/2005 Biodiversity and Geological Conservation (England only)**

Paragraph 98 of Government Circular 06/2005 advises that "the presence of a protected species is a material consideration when a planning authority is considering a development proposal that, if carried out, would be likely to result in harm to the species or its habitat. Local authorities should consult Natural England before granting planning permission. They should consider attaching appropriate planning conditions or entering into planning obligations under which the developer would take steps to secure the long-term protection of the species. They should also advise developers that they must comply with any statutory species' protection provisions affecting the site concerned..."

Paragraph 99 of Government Circular 06/2005<sup>5</sup> advises that "it is essential that the presence or otherwise of protected species, and the extent that they may be affected by the proposed development, is established before the planning permission is granted, otherwise all relevant material considerations may not have been addressed in making the decision. The need to ensure ecological surveys are carried out should therefore only be left to coverage under planning conditions in exceptional circumstances, with the result that the surveys are carried out after planning permission has been granted".

### **Standing Advice (GOV.UK - England only)**

The GOV.UK website provides information regarding protected species and sites in relation to development proposals: 'Local planning authorities should take advice from Natural England or the Environment Agency

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<sup>5</sup> ODPM Circular 06/2005. *Government Circular: Biodiversity and Geological Conservation – Statutory Obligations and their Impacts within the Planning System* (2005). HMSO Norwich.

about planning applications for developments that may affect protected species.' GOV.UK advises that 'some species have standing advice which you can use to help with planning decisions. For others you should contact Natural England or the Environment Agency for an individual response.'

The standing advice (originally from Natural England and now held and updated on GOV.UK<sup>6</sup>) provides advice to planners on deciding if there is a 'reasonable likelihood' of protected species being present. It also provides advice on survey and mitigation requirements.

When determining an application for development that is covered by standing advice, in accordance with guidance in Government Circular 06/2005, Local planning authorities are required to take the standing advice into account. In paragraph 82 of the aforementioned Circular, it is stated that: 'The standing advice will be a material consideration in the determination of the planning application in the same way as any advice received from a statutory consultee...it is up to the planning authority to decide the weight to be attached to the standing advice, in the same way as it would decide the weight to be attached to a response from a statutory consultee.'

### **Natural Environment and Rural Communities (NERC) Act 2006 – Habitats and species of principal importance (England)**

The Natural Environment and Rural Communities (NERC) Act came into force on 1st October 2006. Section 41 (S41) of the Act require the Secretary of State to publish a list of habitats and species which are of principal importance for the conservation of biodiversity in England. The list has been drawn up in consultation with Natural England as required by the Act. In accordance with the Act the Secretary of State keeps this list under review and will publish a revised list if necessary, in consultation with Natural England.

The S41 list is used to guide decision-makers such as public bodies, including local authorities and utilities companies, in implementing their duty under Section 40 of the NERC Act 2006, to have regard to the conservation of biodiversity in England, when carrying out their normal functions, including development control and planning. This is commonly referred to as the 'Biodiversity Duty.'

Guidance for public authorities on implementing the Biodiversity Duty<sup>7</sup> has been published by Defra. One of the key messages in this document is that 'conserving biodiversity includes restoring and enhancing species populations and habitats, as well as protecting them.' In England the administration of the planning system and licensing schemes are highlighted as having a 'profound influence on biodiversity conservation.' Local authorities are required to take measures to "promote the preservation, restoration and re-creation of priority habitats, ecological networks and the protection and recovery of priority species. The guidance states that 'the duty aims to raise the profile and visibility of biodiversity, clarify existing commitments with regard to biodiversity, and to make it a natural and integral part of policy and decision making.'

In 2007, the UK Biodiversity Action Plan (BAP) Partnership published an updated list of priority UK species and habitats covering terrestrial, freshwater and marine biodiversity to focus conservation action for rarer species and habitats in the UK. The UK Post-2010 Biodiversity Framework<sup>8</sup>, which covers the period from 2011 to 2020, now succeeds the UK BAP. The UK priority list contained 1150 species and 65 habitats requiring special protection and has been used as a reference to draw up the lists of species and habitats of principal importance in England.

In England, there are 56 habitats of principal importance and 943 species of principal importance on the S41 list. These are all the habitats and species found in England that were identified as requiring action in the UK BAP and which continue to be regarded as conservation priorities in the subsequent UK Post-2010 Biodiversity Framework.

### **European protected species (Animals)**

The Conservation of Habitats and Species Regulations 2017 (as amended) consolidates various amendments that have been made to the original (1994) Regulations which transposed the EC Habitats Directive on the Conservation of Natural Habitats and of Wild Fauna and Flora (Council Directive 92/43/EEC) into national law.

<sup>6</sup> <https://www.gov.uk/guidance/protected-species-how-to-review-planning-applications#standing-advice-for-protected-species>

<sup>7</sup> Defra, 2007. *Guidance for Public Authorities on Implementing The Biodiversity Duty*. (<http://www.defra.gov.uk/publications/files/pb12585-pa-guid-english-070516.pdf>)

<sup>8</sup> JNCC and Defra (on behalf of the Four Countries' Biodiversity Group). 2012. *UK Post-2010 Biodiversity Framework*. July 2012. (<http://jncc.defra.gov.uk/page-6189>)

“European protected species” (EPS) of animal are those which are shown on Schedule 2 of the Conservation of Habitats and Species Regulations 2017 (as amended). They are subject to the provisions of Regulation 43 of those Regulations. All EPS are also protected under the Wildlife and Countryside Act 1981 (as amended). Taken together, these pieces of legislation make it an offence to:

- a. Intentionally or deliberately capture, injure or kill any wild animal included amongst these species
- b. Possess or control any live or dead specimens or any part of, or anything derived from a these species
- c. deliberately disturb wild animals of any such species
- d. deliberately take or destroy the eggs of such an animal, or
- e. intentionally, deliberately or recklessly damage or destroy a breeding site or resting place of such an animal, or obstruct access to such a place

For the purposes of paragraph (c), disturbance of animals includes in particular any disturbance which is likely—

- a. to impair their ability—
  - i. to survive, to breed or reproduce, or to rear or nurture their young, or
  - ii. in the case of animals of a hibernating or migratory species, to hibernate or migrate; or
- b. to affect significantly the local distribution or abundance of the species to which they belong.

Although the law provides strict protection to these species, it also allows this protection to be set aside (derogated) through the issuing of licences. The licences in England are currently determined by Natural England (NE) for development works and by Natural Resources Wales in Wales. In accordance with the requirements of the Regulations (2017, as amended), a licence can only be issued where the following requirements are satisfied:

- a. The proposal is necessary ‘to preserve public health or public safety or other imperative reasons of overriding public interest including those of a social or economic nature and beneficial consequences of primary importance for the environment’
- b. ‘There is no satisfactory alternative’
- c. The proposals ‘will not be detrimental to the maintenance of the population of the species concerned at a favourable conservation status in their natural range.’

### **Definition of breeding sites and resting places**

Guidance for all European Protected Species of animal, including bats and great crested newt, regarding the definition of breeding and of breeding and resting places is provided by The European Council (EC) which has prepared specific guidance in respect of the interpretation of various Articles of the EC Habitats Directive.<sup>9</sup> Section II.3.4.b) provides definitions and examples of both breeding and resting places at paragraphs 57 and 59 respectively. This guidance states that ‘The provision in Article 12(1)(d) [of the EC Habitats Directive] should therefore be understood as aiming to safeguard the ecological functionality of breeding sites and resting places.’ Further the guidance states: ‘It thus follows from Article 12(1)(d) that such breeding sites and resting places also need to be protected when they are not being used, but where there is a reasonably high probability that the species concerned will return to these sites and places. If for example a certain cave is used every year by a number of bats for hibernation (because the species has the habit of returning to the same winter roost every year), the functionality of this cave as a hibernating site should be protected in summer as well so that the bats can re-use it in winter. On the other hand, if a certain cave is used only occasionally for breeding or resting purposes, it is very likely that the site does not qualify as a breeding site or resting place.’

<sup>9</sup> Guidance document on the strict protection of animal species of Community interest under the Habitats Directive 92/43/EEC. (February 2007), EC.

## Competent authorities

Under Regulation 7 of the Conservation of Habitats and Species Regulations 2017 (as amended) a “competent authority” includes “any Minister of the Crown..., government department, statutory undertaker, public body of any description or person holding a public office.

In accordance with Regulation 9, “a competent authority must exercise their functions which are relevant to nature conservation, including marine conservation, so as to secure compliance with the requirements of the [Habitats and Birds] Directives. This means for instance that when considering development proposals a competent authority should consider whether EPS or European Protected Sites are to be affected by those works and, if so, must show that they have given consideration as to whether derogation requirements can be met.

## Birds

All nesting birds are protected under Section 1 of the Wildlife and Countryside Act 1981 (as amended) which makes it an offence to intentionally kill, injure or take any wild bird or take, damage or destroy its nest whilst in use or being built, or take or destroy its eggs. In addition to this, for some rarer species (listed on Schedule 1 of the Act), it is an offence to disturb them whilst they are nest building or at or near a nest with eggs or young, or to disturb the dependent young of such a bird.

The Conservation of Habitats and Species Regulations 2017 (as amended) places duties on competent authorities (including Local Authorities and National Park Authorities) in relation to wild bird habitat. These provisions relate back to Articles 1, 2 and 3 of the EC Directive on the conservation of wild birds (2009/147/EC, ‘Birds Directive’<sup>10</sup>) (Regulation 10 (3)) requires that the objective is the ‘preservation, maintenance and re-establishment of a sufficient diversity and area of habitat for wild birds in the United Kingdom, including by means of the upkeep, management and creation of such habitat, as appropriate, having regard to the requirements of Article 2 of the new Wild Birds Directive...’ Regulation 10 (7) states: ‘In considering which measures may be appropriate for the purpose of security or contributing to the objective in [Regulation 10 (3)] Paragraph 3, appropriate account must be taken of economic and recreational requirements’.

In relation to the duties placed on competent authorities under the 2017 Regulations, Regulation 10 (8) states: ‘So far as lies within their powers, a competent authority in exercising any function [including in relation to town and country planning] in or in relation to the United Kingdom must use all reasonable endeavours to avoid any pollution or deterioration of habitats of wild birds (except habitats beyond the outer limits of the area to which the new Wild Birds Directive applies).’

## Badger

Badger is protected under the Protection of Badgers Act 1992. It is not permitted to wilfully kill, injure, take, possess or cruelly ill-treat a badger, or to attempt to do so; or to intentionally or recklessly interfere with a sett. Sett interference includes disturbing badgers whilst they are occupying a sett, as well as damaging or destroying a sett or obstructing access to it. A badger sett is defined in the legislation as “a structure or place, which displays signs indicating current use by a badger”.

ODPM Circular 06/2005<sup>11</sup> provides further guidance on statutory obligations towards badger within the planning system. Of particular note is paragraph 124, which states that “The likelihood of disturbing a badger sett, or adversely affecting badgers’ foraging territory, or links between them, or significantly increasing the likelihood of road or rail casualties amongst badger populations, are capable of being material considerations in planning decisions.”

Natural England provides Standing Advice<sup>12</sup>, which is capable of being a material consideration in planning decisions. Natural England recommends mitigation to avoid impacts on badger setts, which includes maintaining or creating new foraging areas and maintaining or creating access (commuting routes) between setts and foraging/watering areas.

## Reptiles

All native reptile species receive legal protection in Great Britain under Schedule 5 of the Wildlife and Countryside Act 1981 (as amended). Viviparous lizard, slow-worm, grass snake and adder are protected

<sup>10</sup> 2009/147/EC Birds Directive (30 November 2009. European Parliament and the Council of the European Union.

<sup>11</sup> ODPM Circular 06/2005. *Government Circular: Biodiversity and Geological Conservation – Statutory Obligations and their Impacts within the Planning System* (2005). HMSO Norwich.

<sup>12</sup> <http://www.naturalengland.org.uk/ourwork/planningdevelopment/spatialplanning/standingadvice/specieslinks.aspx>

against killing, injuring and unlicensed trade only. Sand lizard and smooth snake receive additional protection as “European Protected species” under the provisions of the Conservation of Habitats and Species Regulations 2017 (as amended) and are fully protected under the Wildlife and Countryside Act 1981 (as amended).

All six native species of reptile are included as ‘species of principal importance’ for the purpose of conserving biodiversity under Section 41 (England) of the NERC Act 2006 and Section 7 of the Environment (Wales) Act 2016.

Current Natural England Guidelines for Developers<sup>13</sup> states that ‘where it is predictable that reptiles are likely to be killed or injured by activities such as site clearance, this could legally constitute intentional killing or injuring.’ Further the guidance states: ‘Normally prohibited activities may not be illegal if ‘the act was the incidental result of a lawful operation and could not reasonably have been avoided’. Natural England ‘would expect reasonable avoidance to include measures such as altering development layouts to avoid key areas, as well as capture and exclusion of reptiles.’

The Natural England Guidelines for Developers state that ‘planning must incorporate two aims where reptiles are present:

- To protect reptiles from any harm that might arise during development work;
- To ensure that sufficient quality, quantity and connectivity of habitat is provided to accommodate the reptile population, either on-site or at an alternative site, with no net loss of local reptile conservation status.

### **Water vole**

Water vole is protected under the Wildlife and Countryside Act 1981 (as amended). This makes it an offence to kill, injure or take any water vole, damage, destroy or obstruct access to any place of shelter or protection that the animals are using, or disturb voles while they are using such a place. Water vole is listed as a Species of Principal Importance under the provisions of the NERC Act 2006 in England and under the provisions of the Environment (Wales) Act 2016.

### **Wild mammals in general**

The Wild Mammals (Protection) Act 1996 (as amended) makes provision for the protection of wild mammals from certain cruel acts, making it an offence for any person to intentionally cause suffering to any wild mammal. In the context of development sites, for example, this may apply to rabbits in their burrows

### **Invasive non-native species**

An invasive non-native species is any non-native animal or plant that has the ability to spread causing damage to the environment.

Under the Wildlife and Countryside Act 1981 (as amended) it is an offence to release, or to allow to escape into the wild, any animal which is not ordinarily resident in and is not a regular visitor to Great Britain in a wild state or is listed under Schedule 9 of the Act.

It is an offence to plant or otherwise cause to grow in the wild invasive non-native plants listed on Schedule 9 of the Wildlife and Countryside Act 1981 (as amended).

### **Hedgerows**

Article 10 of the Habitats Directive<sup>14</sup> requires that ‘Member States shall endeavour...to encourage the management of features of the landscape which are of major importance for wild fauna and flora. Such features are those which, by virtue of their linear and continuous structure...or their function as stepping stones...are essential for the migration, dispersal and genetic exchange of wild species’. Examples given in the Directive include traditional field boundary systems (such as hedgerows).

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<sup>13</sup> English Nature, 2004. *Reptiles: guidelines for developers*. English Nature, Peterborough. <https://webarchive.nationalarchives.gov.uk/20150303064706/http://publications.naturalengland.org.uk/publication/76006>

<sup>14</sup> Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora.

The aim of the Hedgerow Regulations 1997<sup>15</sup>, according to guidance produced by the Department of the Environment<sup>16</sup>, is “to protect important hedgerows in the countryside by controlling their removal through a system of notification. In summary, the guidance states that the system is concerned with the removal of hedgerows, either in whole or in part, and covers any act which results in the destruction of a hedgerow. The procedure in the Regulations is triggered only when land managers or utility operators want to remove a hedgerow. The system is in favour of protecting and retaining ‘important’ hedgerows.

The Hedgerow Regulations set out criteria that must be used by the local planning authority in determining which hedgerows are ‘important’. The criteria relate to the value of hedgerows from an archaeological, historical, wildlife and landscape perspective.

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<sup>15</sup> Statutory Instrument 1997 No. 1160 – The Hedgerow Regulations 1997. HMSO: London

<sup>16</sup> The Hedgerow Regulations 1997: a guide to the law and good practice, HMSO: London

## Annex 3. GCN eDNA results

[overleaf]



Folio No: E9927  
Report No: 1  
Purchase Order: P21-135  
Client: BSG ECOLOGY LTD  
Contact: Jamie Peacock

## TECHNICAL REPORT

### ANALYSIS OF ENVIRONMENTAL DNA IN POND WATER FOR THE DETECTION OF GREAT CRESTED NEWTS (TRITURUS CRISTATUS)

#### SUMMARY

When great crested newts (GCN), *Triturus cristatus*, inhabit a pond, they continuously release small amounts of their DNA into the environment. By collecting and analysing water samples, we can detect these small traces of environmental DNA (eDNA) to confirm GCN habitation or establish GCN absence.

#### RESULTS

**Date sample received at Laboratory:** 05/05/2021  
**Date Reported:** 06/05/2021  
**Matters Affecting Results:** None

Lab Sample No.	Site Name	O/S Reference	SIC	DC	IC	Result	Positive Replicates
4261	Pond 3, Essendine	TF0733 1248	Pass	Pass	Pass	Negative	0
4263	Pond 4, Essendine	TF0735 1245	Pass	Pass	Pass	Negative	0
4264	Pond 5, Essendine	TF0713 1225	Pass	Pass	Pass	Negative	0
4266	Pond 6, Essendine	TF0588 1239	Pass	Pass	Pass	Negative	0
4267	Pond 8, Essendine	TF0590 1287	Pass	Pass	Pass	Negative	0
4268	Pond 1, Essendine	TF0571 1131	Pass	Pass	Pass	Negative	0
4269	Pond 7, Essendine	TF0570 1227	Pass	Pass	Pass	Negative	0



If you have any questions regarding results, please contact us: [ForensicEcology@surescreen.com](mailto:ForensicEcology@surescreen.com)

**Reported by:** Chris Troth

**Approved by:** Chris Troth

## **METHODOLOGY**

The samples detailed above have been analysed for the presence of GCN eDNA following the protocol stated in DEFRA WC1067 'Analytical and methodological development for improved surveillance of the Great Crested Newt, Appendix 5.' (Biggs et al. 2014). Each of the 6 sub-sample tubes are first centrifuged and pooled together into a single sample which then undergoes DNA extraction. The extracted sample is then analysed using real time PCR (qPCR), which uses species-specific molecular markers to amplify GCN DNA within a sample. These markers are unique to GCN DNA, meaning that there should be no detection of closely related species.

If GCN DNA is present, the DNA is amplified up to a detectable level, resulting in positive species detection. If GCN DNA is not present then amplification does not occur, and a negative result is recorded.

Analysis of eDNA requires scrupulous attention to detail to prevent risk of contamination. True positive controls, negative controls and spiked synthetic DNA are included in every analysis and these have to be correct before any result is declared and reported. Stages of the DNA analysis are also conducted in different buildings at our premises for added security.

SureScreen Scientifics Ltd is ISO9001 accredited and participate in Natural England's proficiency testing scheme for GCN eDNA testing. We also carry out regular inter-laboratory checks on accuracy of results as part of our quality control procedures.

## **INTERPRETATION OF RESULTS**

- SIC:**            **Sample Integrity Check** [Pass/Fail]  
When samples are received in the laboratory, they are inspected for any tube leakage, suitability of sample (not too much mud or weed etc.) and absence of any factors that could potentially lead to inconclusive results.
- DC:**            **Degradation Check** [Pass/Fail]  
Analysis of the spiked DNA marker to see if there has been degradation of the kit or sample between the date it was made to the date of analysis. Degradation of the spiked DNA marker may lead indicate a risk of false negative results.
- IC:**            **Inhibition Check** [Pass/Fail]  
The presence of inhibitors within a sample are assessed using a DNA marker. If inhibition is detected, samples are purified and re-analysed. Inhibitors cannot always be removed, if the inhibition check fails, the sample should be re-collected.
- Result:**        **Presence of GCN eDNA** [Positive/Negative/Inconclusive]  
**Positive:** GCN DNA was identified within the sample, indicative of GCN presence within the sampling



location at the time the sample was taken or within the recent past at the sampling location.

**Positive Replicates:** Number of positive qPCR replicates out of a series of 12. If one or more of these are found to be positive the pond is declared positive for GCN presence. It may be assumed that small fractions of positive analyses suggest low level presence, but this cannot currently be used for population studies. In accordance with Natural England protocol, even a score of 1/12 is declared positive. 0/12 indicates negative GCN presence.

**Negative:** GCN eDNA was not detected or is below the threshold detection level and the test result should be considered as evidence of GCN absence, however, does not exclude the potential for GCN presence below the limit of detection.







# Mallard Pass

Solar Farm

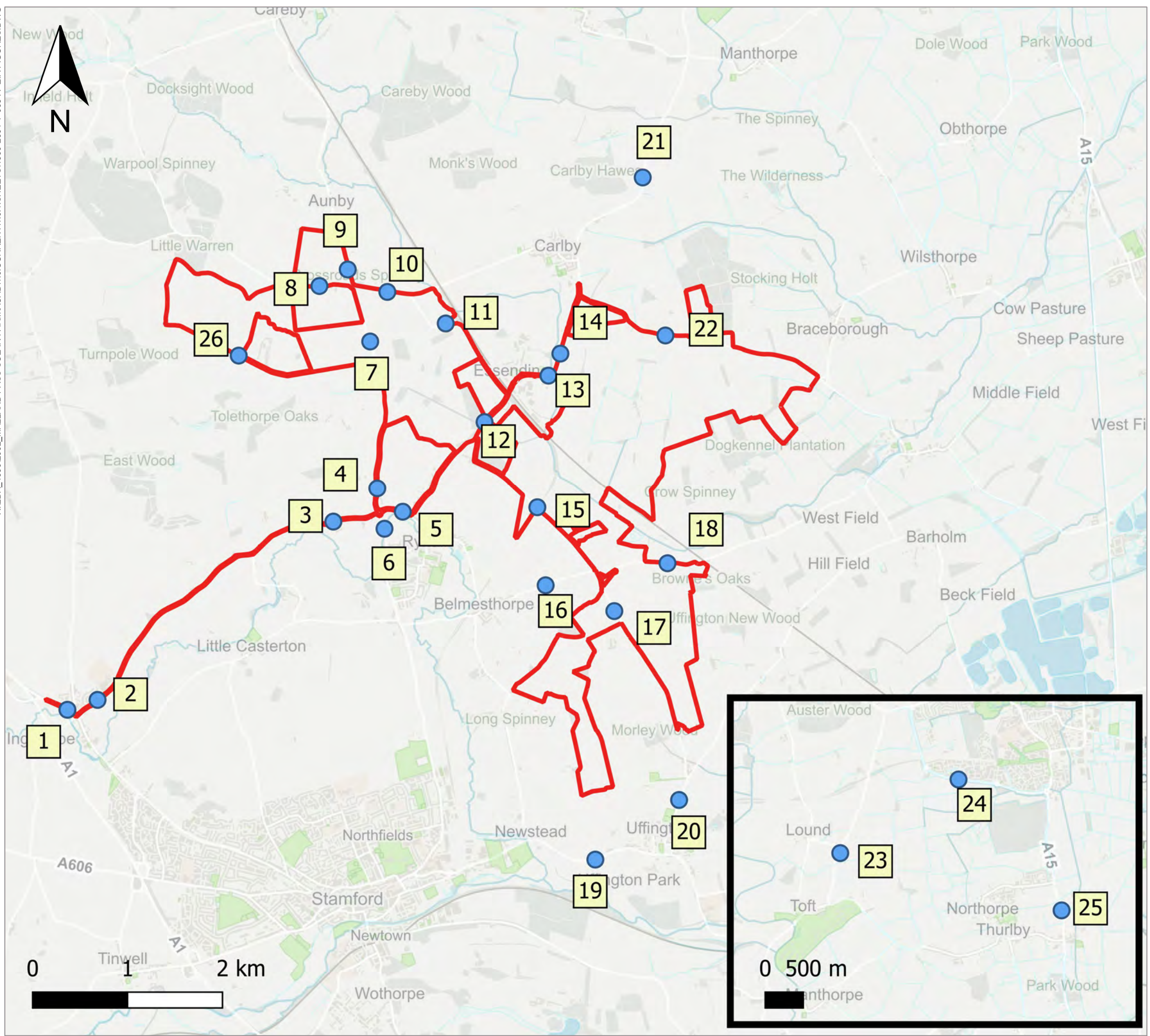
## **Mallard Pass Solar Farm**

**Scoping Report**

**Appendix 7.3: Automatic Traffic  
Count (ATC) Data**

**February 2022**

X:\LDA\_4990\2002\_MALLARD PASS SOLAR FARM\CAD\1.0\_CURRENT\1.0.1\_SHEETS\4990-2001-T-005-A -EIA FIGURES.DWG



**LEGEND**

- Site Boundary
- ATC Location

# LDĀDESIGN

PROJECT TITLE  
**MALLARD PASS SOLAR FARM**  
**EIA SCOPING REPORT**

DRAWING TITLE  
**Traffic Survey Data Overview**

ISSUED BY	Oxford	T: 01865 887 050
DATE	Jan 22	DRAWN CR
SCALE@A3	As shown	CHECKED MK
STATUS	Final	APPROVED AG

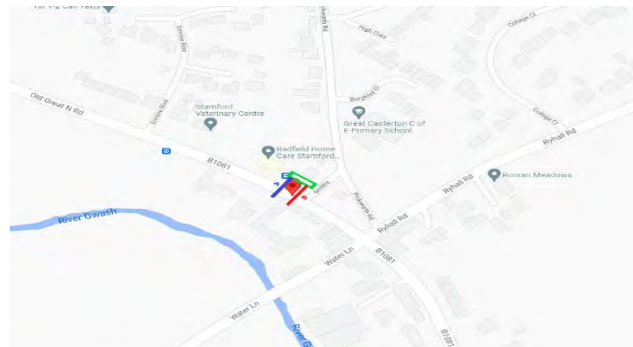
**DWG. NO Appendix 7.3**

No dimensions are to be scaled from this drawing.  
 All dimensions are to be checked on site.  
 Area measurements for indicative purposes only.

© LDA Design Consulting Ltd. Quality Assured to BS EN ISO 9001 : 2015  
 Sources Ordnance Survey

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Smart Transport Hub  
Location: 1



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
10
11
12

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
40364	0.02%	82.72%	5.97%

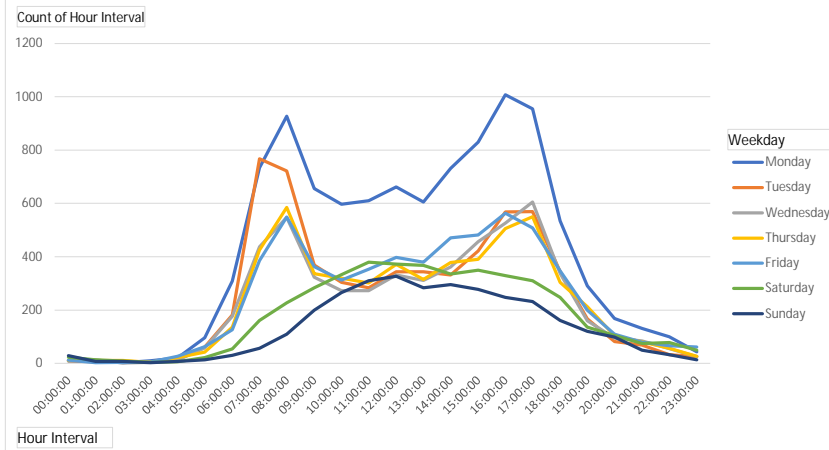
Count of	Compass direc	Column Labels		
Row Labels	N	S	Grand Total	
11 October 2021	15168	20385	35553	
18 October 2021	2090	2721	4811	
Grand Total	17258	23106	40364	

Count of	Compass direction	Column Labels	
Row Labels	N	S	
Monday	4343	5694	
Tuesday	2390	3640	
Wednesday	2343	3137	
Thursday	2356	3143	
Friday	2543	3325	
Saturday	1915	2354	
Sunday	1368	1813	
Grand Total	17258	23106	

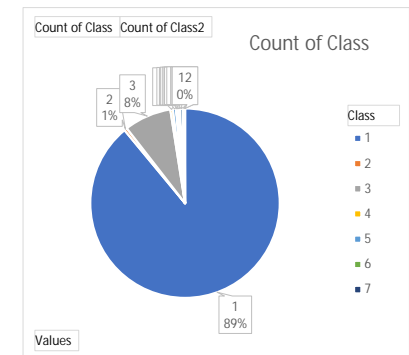
Row Labels	Count of Class	Count of Class2
1	35925	89.00%
2	197	0.49%
3	3255	8.06%
4	174	0.43%
5	219	0.54%
6	20	0.05%
7	75	0.19%
8	80	0.20%
9	71	0.18%
11	2	0.00%
14	213	0.53%
15	128	0.32%
10	4	0.01%
12	1	0.00%
Grand Total	40364	100.00%

Average of Speed	Column Labels	
Row Labels	N	S
Monday	28.71	27.35
Tuesday	28.37	25.45
Wednesday	28.88	27.11
Thursday	28.66	26.76
Friday	28.83	27.38
Saturday	29.16	28.46
Sunday	30.18	29.05
Grand Total	28.86	27.19

% Over PSL	% Over ACPO	% Over DFT
0.02%	82.72%	5.97%



vehicles are travelling over posted speed limit (60mph)      vehicles are traveling 10% +2 over PSL (68mph)      vehicles are 15mph over PSL (75mph)



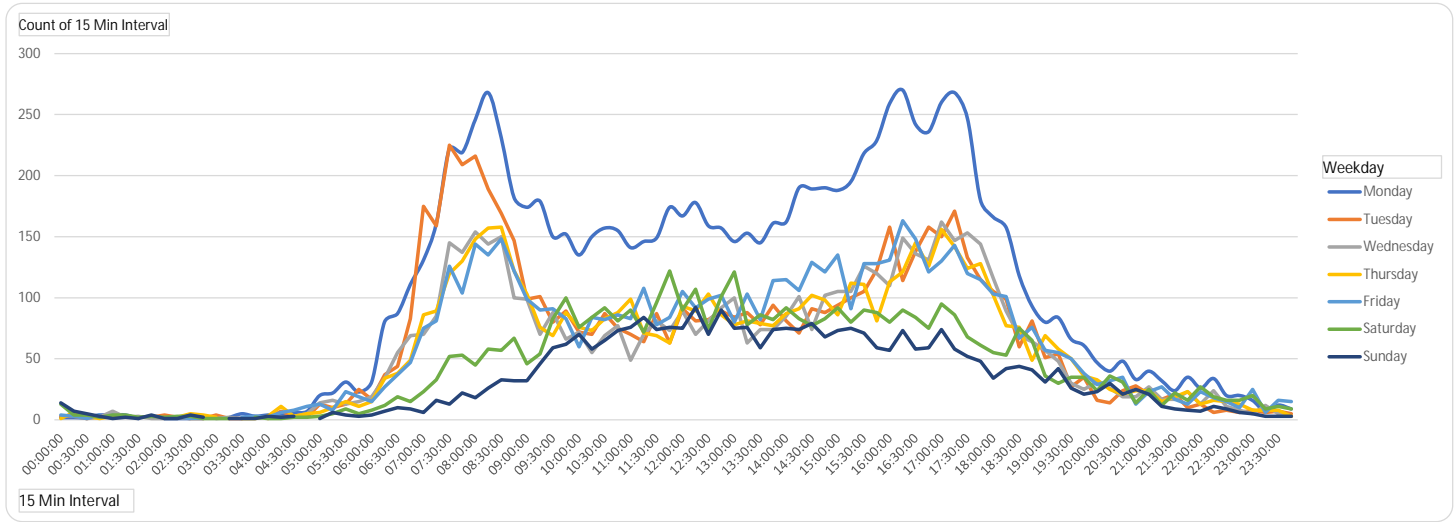


Week Commencing
11 October 2021
18 October 2021

Compass direction
N
S

Class
1
2
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9
10

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels								Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday		
00:00:00	2	3	6	1	4	13	14		43
00:15:00	2	3		6	3	4	7		25
00:30:00	2	1	1	3	1	4	5		17
00:45:00	4	3	2	1	4	2	3		19
01:00:00	4		7	3		4	1		19
01:15:00	4	2	2	3	1	4	2		18
01:30:00	1	2	3						9
01:45:00		2	1	5	2	3	4		17
02:00:00	1	4	1			2	1		9
02:15:00	1	2		2	2	3	1		11
02:30:00	1	1	1	5	1	3	4		16
02:45:00		1		4	1	1	2		9
03:00:00		4	1	2		1			8
03:15:00	2	1	2			1	1		7
03:30:00	5	1	1	1	2		1		11
03:45:00	3			1	3	2	1		10
04:00:00	4	1	2	3	2	1	3		16
04:15:00	4	7	2	11	6	1	2		33
04:30:00	6	3	3	3	8	2	3		28
04:45:00	7	2	5	5	11	2			32
05:00:00	20	13	14	6	13	3	1		70
05:15:00	22	10	16	10	8	5	6		77
05:30:00	31	13	13	15	23	9	4		108
05:45:00	23	25	15	11	19	5	3		101

Row Labels	07-19	06-22	06-00	00-00
Monday	8845	9744	9888	10037
Tuesday	5368	5867	5926	6030
Wednesday	4785	5301	5382	5480
Thursday	4781	5314	5398	5499
Friday	5111	5626	5754	5868
Saturday	3695	4065	4192	4269
Sunday	2766	3064	3111	3181
<b>Grand Total</b>	<b>35351</b>	<b>38981</b>	<b>39651</b>	<b>40364</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	3.20	6.14
00:15:00	2.80	3.57
00:30:00	1.60	2.43
00:45:00	2.80	2.71
01:00:00	2.80	2.71
01:15:00	2.40	2.57
01:30:00	1.20	1.29
01:45:00	2.00	2.43
02:00:00	1.20	1.29
02:15:00	1.40	1.57
02:30:00	1.80	2.29
02:45:00	1.20	1.29
03:00:00	1.40	1.14
03:15:00	1.00	1.00
03:30:00	2.00	1.57
03:45:00	1.40	1.43
04:00:00	2.40	2.29
04:15:00	6.00	4.71
04:30:00	4.60	4.00
04:45:00	6.00	4.57
05:00:00	13.20	10.00
05:15:00	13.20	11.00
05:30:00	19.00	15.43
05:45:00	18.60	14.43
06:00:00	19.40	15.57

06:00:00	31	17	19	15	15	8	4	109
06:15:00	80	37	34	34	27	12	7	231
06:30:00	87	44	55	38	37	19	10	290
06:45:00	111	83	69	49	47	15	9	383
07:00:00	131	175	70	86	75	23	6	566
07:15:00	161	159	85	89	81	33	16	624
07:30:00	222	225	145	120	126	52	13	903
07:45:00	219	209	137	130	104	53	22	874
08:00:00	246	216	154	148	144	45	18	971
08:15:00	268	189	144	157	135	58	26	977
08:30:00	231	169	150	158	148	57	33	946
08:45:00	182	147	100	122	122	67	32	772
09:00:00	174	99	99	103	99	46	32	652
09:15:00	179	101	70	76	90	54	46	616
09:30:00	150	80	88	69	91	83	59	620
09:45:00	152	89	66	88	83	100	62	640
10:00:00	135	72	72	76	60	76	70	561
10:15:00	150	70	55	73	84	84	58	574
10:30:00	157	87	69	83	82	92	65	635
10:45:00	155	75	77	88	86	81	73	635
11:00:00	141	70	49	99	83	90	76	608
11:15:00	146	64	70	71	108	72	84	615
11:30:00	149	87	81	69	78	96	74	634
11:45:00	174	63	73	63	84	122	76	655
12:00:00	167	91	89	93	105	90	75	710
12:15:00	178	81	70	89	92	107	92	709
12:30:00	159	82	81	103	99	74	70	668
12:45:00	157	89	92	86	102	101	90	717
13:00:00	146	84	100	78	80	121	75	684
13:15:00	153	88	63	81	103	78	76	642
13:30:00	145	78	74	79	82	86	59	603
13:45:00	161	94	74	77	114	82	74	676
14:00:00	162	81	85	87	115	92	75	697
14:15:00	190	71	101	91	106	83	74	716
14:30:00	189	91	74	102	129	77	79	741
14:45:00	190	88	102	98	121	83	68	750
15:00:00	188	94	105	86	135	92	73	773
15:15:00	195	100	105	112	91	80	75	758
15:30:00	218	105	126	111	128	90	71	849
15:45:00	229	123	120	81	128	88	59	828
16:00:00	259	158	110	113	131	80	57	908
16:15:00	270	114	149	121	163	90	73	980
16:30:00	242	138	136	145	148	84	58	951
16:45:00	236	158	131	126	121	75	59	906
17:00:00	260	150	162	156	130	95	74	1027
17:15:00	268	171	147	142	143	86	58	1015
17:30:00	247	133	153	124	120	68	52	897
17:45:00	180	115	144	128	115	61	48	791
18:00:00	166	105	116	102	103	55	34	681
18:15:00	157	99	89	77	101	53	42	618

06:15:00	42.40	33.00
06:30:00	52.20	41.43
06:45:00	71.80	54.71
07:00:00	107.40	80.86
07:15:00	115.00	89.14
07:30:00	167.60	129.00
07:45:00	159.80	124.86
08:00:00	181.60	138.71
08:15:00	178.60	139.57
08:30:00	171.20	135.14
08:45:00	134.60	110.29
09:00:00	114.80	93.14
09:15:00	103.20	88.00
09:30:00	95.60	88.57
09:45:00	95.60	91.43
10:00:00	83.00	80.14
10:15:00	86.40	82.00
10:30:00	95.60	90.71
10:45:00	96.20	90.71
11:00:00	88.40	86.86
11:15:00	91.80	87.86
11:30:00	92.80	90.57
11:45:00	91.40	93.57
12:00:00	109.00	101.43
12:15:00	102.00	101.29
12:30:00	104.80	95.43
12:45:00	105.20	102.43
13:00:00	97.60	97.71
13:15:00	97.60	91.71
13:30:00	91.60	86.14
13:45:00	104.00	96.57
14:00:00	106.00	99.57
14:15:00	111.80	102.29
14:30:00	117.00	105.86
14:45:00	119.80	107.14
15:00:00	121.60	110.43
15:15:00	120.60	108.29
15:30:00	137.60	121.29
15:45:00	136.20	118.29
16:00:00	154.20	129.71
16:15:00	163.40	140.00
16:30:00	161.80	135.86
16:45:00	154.40	129.43
17:00:00	171.60	146.71
17:15:00	174.20	145.00
17:30:00	155.40	128.14
17:45:00	136.40	113.00
18:00:00	118.40	97.29
18:15:00	104.60	88.29
18:30:00	78.00	72.71

18:30:00	118	60	69	76	67	75	44	509
18:45:00	93	81	64	49	76	65	41	469
19:00:00	80	51	57	69	57	36	31	381
19:15:00	84	54	48	58	55	30	42	371
19:30:00	66	27	30	50	50	35	26	284
19:45:00	61	35	25	36	38	35	21	251
20:00:00	47	16	31	33	29	24	23	203
20:15:00	40	14	26	25	32	36	30	203
20:30:00	48	24	19	21	35	31	21	199
20:45:00	33	28	19	24	13	14	25	156
21:00:00	40	21	27	24	23	25	21	181
21:15:00	32	17	17	15	27	12	11	131
21:30:00	24	21	17	19	17	22	9	129
21:45:00	35	10	23	23	13	16	8	128
22:00:00	26	13	13	13	23	27	7	122
22:15:00	34	6	24	16	18	19	11	128
22:30:00	20	8	11	15	15	16	9	94
22:45:00	20	6	8	13	10	16	6	79
23:00:00	16	8	5	8	25	20	5	87
23:15:00	7	6	12	8	6	9	3	51
23:30:00	12	7	5	8	16	11	3	62
23:45:00	9	5	3	3	15	9	3	47
Grand Total	10037	6030	5480	5499	5868	4269	3181	40364

18:45:00	72.60	67.00
19:00:00	62.80	54.43
19:15:00	59.80	53.00
19:30:00	44.60	40.57
19:45:00	39.00	35.86
20:00:00	31.20	29.00
20:15:00	27.40	29.00
20:30:00	29.40	28.43
20:45:00	23.40	22.29
21:00:00	27.00	25.86
21:15:00	21.60	18.71
21:30:00	19.60	18.43
21:45:00	20.80	18.29
22:00:00	17.60	17.43
22:15:00	19.60	18.29
22:30:00	13.80	13.43
22:45:00	11.40	11.29
23:00:00	12.40	12.43
23:15:00	7.80	7.29
23:30:00	9.60	8.86
23:45:00	7.00	6.71
Grand Total	6582.80	5766.29

Class	Axis	Access	Description	Parameters	Dimension Details	Access
1	017	2	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	017	Light
2	017	3	Short Towing - Trailer - Car sign (in)	group2, 012+0.2m, 013+0.2m, 012+0.2m & access2, A, B	017	Light
3	017	2	Tray sign (in) or (in)	012+0.2m & access2	017	Light
4	017	2	Tray sign (in) or (in)	access2 & group2	017	Light
5	14	2	Four axle truck	access2 & group2	017	Light
6	017	2	Tray sign (in) or (in)	012+0.2m, access2 & group2	017	Light
7	017	2	Four axle articulated vehicle or rigid vehicle and trailer	012+0.2m or 012+0.2m or 013+0.2m, access2 & B, group2	017	Light
8	017	2	Four axle articulated vehicle or rigid vehicle and trailer	012+0.2m or 012+0.2m or 013+0.2m, access2 & B, group2	017	Light
9	017	2	Five axle articulated vehicle or rigid vehicle and trailer	012+0.2m or 012+0.2m or 013+0.2m, access2 & B, group2	017	Light
10	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2 or access2 & group2	017	Light
11	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2	017	Light
12	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2	017	Light
13	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2	017	Light
14	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2	017	Light
15	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2	017	Light
16	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2	017	Light
17	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2	017	Light
18	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2	017	Light
19	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2	017	Light
20	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2	017	Light
21	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2	017	Light
22	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2	017	Light
23	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2	017	Light
24	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2	017	Light
25	017	2	Five axle articulated vehicle or rigid vehicle and trailer	access2 & group2	017	Light

**Week Commencing**

11 October 2021

18 October 2021

**Compass direction**

N

S

**Class**

1

2

3

4

5

**Weekday**

Monday

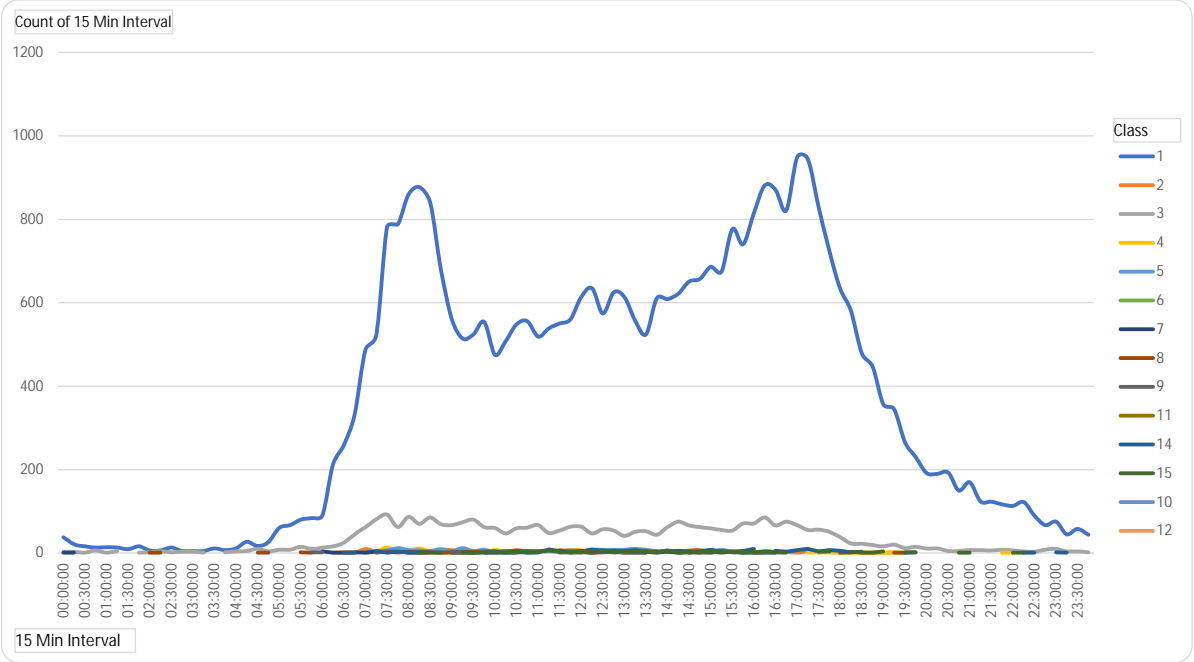
Tuesday

Wednesday

Thursday

Friday

Saturday



Count of 15 Min Interval	Column Labels	Row Labels	07-19	06-22	06-00	00-00
00:00:00	1 2 3 4 5 6 7 8 9 11 14 15 10 12 and To	Monday	8845	9744	9888	10037
00:15:00		Tuesday	5368	5867	5926	6030
00:30:00		Wednesday	4785	5301	5382	5480
00:45:00		Thursday	4781	5314	5398	5499
01:00:00		Friday	5111	5626	5754	5868
01:15:00		Saturday	3695	4065	4192	4269
01:30:00		Sunday	2766	3064	3111	3181
01:45:00		Grand Total	35351	38981	39651	40364
02:00:00		Monday	38	3	1	43
02:15:00		Tuesday	21	3	1	25
02:30:00		Wednesday	16	1	1	17
02:45:00		Thursday	13	6	1	19
03:00:00		Friday	14	1	4	19
03:15:00		Saturday	13	5	1	18
03:30:00		Sunday	9	1	1	9
03:45:00		Monday	16	1	1	17
04:00:00		Tuesday	6	2	1	9
04:15:00		Wednesday	6	4	1	11
04:30:00		Thursday	13	2	1	16
04:45:00		Friday	5	3	1	9
05:00:00		Saturday	5	3	1	8
05:15:00		Sunday	5	1	1	7
05:30:00		Monday	11	2	1	11
05:45:00		Tuesday	7	2	1	10
06:00:00		Wednesday	11	4	1	16
06:15:00		Thursday	27	1	5	33

Row Labels	Average 5 Days	1 of Average 7 D
00:00:00	3.20	6.14
00:15:00	2.80	3.57
00:30:00	1.60	2.43
00:45:00	2.80	2.71
01:00:00	2.80	2.71
01:15:00	2.40	2.57
01:30:00	1.20	1.29
01:45:00	2.00	2.43
02:00:00	1.20	1.29
02:15:00	1.40	1.57
02:30:00	1.80	2.29
02:45:00	1.20	1.29
03:00:00	1.40	1.14
03:15:00	1.00	1.00
03:30:00	2.00	1.57
03:45:00	1.40	1.43
04:00:00	2.40	2.29
04:15:00	6.00	4.71
04:30:00	4.60	4.00



16:45:00	821	3	75	1		2		3	1													906
17:00:00	949	1	67		2			7		1												1027
17:15:00	945	4	55	1				10														1015
17:30:00	830	2	56	2				4	3													897
17:45:00	724	3	51	1	1			7	4													791
18:00:00	633	2	38	1		1		6														681
18:15:00	581	2	23	1	1	2	2	1	2	3												618
18:30:00	479	2	22	1		1		3	1													509
18:45:00	447	1	19	1						1												469
19:00:00	357	1	16	1	2				4													381
19:15:00	345	2	20	2		1	1															371
19:30:00	266		12	1			1	1	1	2												284
19:45:00	230	1	15		1				2	2												251
20:00:00	192		11																			203
20:15:00	190	1	11							1												203
20:30:00	193		5		1																	199
20:45:00	150		5							1												156
21:00:00	170	1	7	1		1				1												181
21:15:00	124		7																			131
21:30:00	123		6																			129
21:45:00	117	1	8	1						1												128
22:00:00	113		6	1		1				1												122
22:15:00	122		4							1	1											128
22:30:00	90		3							1												94
22:45:00	67	1	8			1				2												79
23:00:00	75		10							2												87
23:15:00	45		4			1				1												51
23:30:00	58		4																			62
23:45:00	44		2			1																47
Grand Total	35925	197	3255	174	##	20	75	80	71	2	213	128		4		1						40364

17:00:00	171.60	146.71
17:15:00	174.20	145.00
17:30:00	155.40	128.14
17:45:00	136.40	113.00
18:00:00	118.40	97.29
18:15:00	104.60	88.29
18:30:00	78.00	72.71
18:45:00	72.60	67.00
19:00:00	62.80	54.43
19:15:00	59.80	53.00
19:30:00	44.60	40.57
19:45:00	39.00	35.86
20:00:00	31.20	29.00
20:15:00	27.40	29.00
20:30:00	29.40	28.43
20:45:00	23.40	22.29
21:00:00	27.00	25.86
21:15:00	21.60	18.71
21:30:00	19.60	18.43
21:45:00	20.80	18.29
22:00:00	17.60	17.43
22:15:00	19.60	18.29
22:30:00	13.80	13.43
22:45:00	11.40	11.29
23:00:00	12.40	12.43
23:15:00	7.80	7.29
23:30:00	9.60	8.86
23:45:00	7.00	6.71
Grand Total	6582.80	5766.29

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	10037	27.94	32.20	35.32	1	0.01%	8344	83.13%	557	5.55%
Tuesday	6030	26.61	31.60	34.70	1	0.02%	4483	74.34%	270	4.48%
Wednesday	5480	27.86	32.10	35.20	0	0.00%	4541	82.86%	300	5.47%
Thursday	5499	27.57	31.90	35.70	3	0.05%	4364	79.36%	319	5.80%
Friday	5868	28.00	32.20	35.60	0	0.00%	4923	83.90%	343	5.85%
Saturday	4269	28.78	32.90	36.50	3	0.07%	3802	89.06%	329	7.71%
Sunday	3181	29.54	33.50	36.90	0	0.00%	2931	92.14%	292	9.18%
5day	32914	27.63	32.00	35.30	5	0.02%	26655	80.98%	1789	5.44%
7day	40364	27.90	32.30	35.60	8	0.02%	33388	82.72%	2410	5.97%

# Traffic Analysis Report

Contract: Velocity -TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 2



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)



Week Commencing
18 October 2021
11 October 2021

Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
10
14
15

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
31187	25.69%	0.00%	0.00%

Count of	Compass direction	Column Labels	
Row Labels	W	E	Grand Total
11 October 2021	13362	14255	27617
18 October 2021	1716	1854	3570
Grand Total	15078	16109	31187

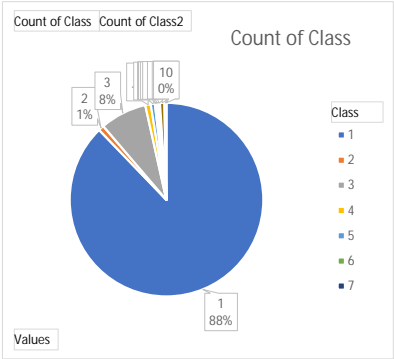
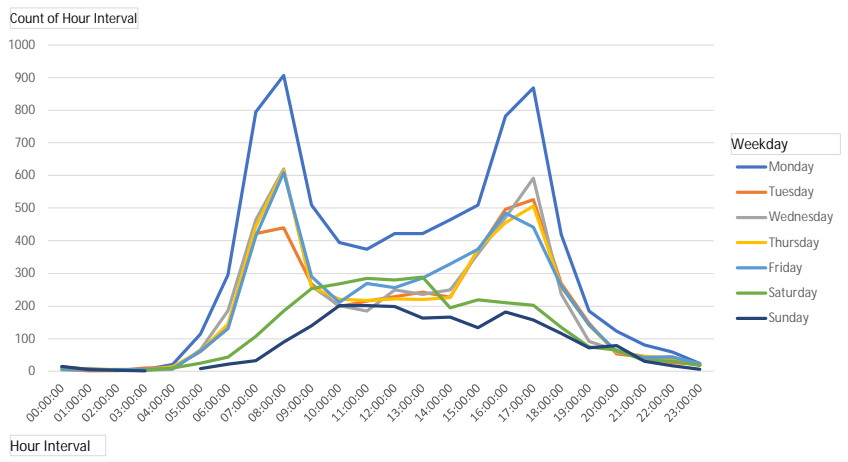
Count of	Compass direction	Column Labels	
Row Labels	W	E	
Monday	3751	4040	
Tuesday	2096	2317	
Wednesday	2263	2402	
Thursday	2206	2359	
Friday	2289	2471	
Saturday	1455	1498	
Sunday	1018	1022	
Grand Total	15078	16109	

Row Labels	Count of Class	Count of Class2
1	27379	87.79%
2	279	0.89%
3	2438	7.82%
4	281	0.90%
5	221	0.71%
6	35	0.11%
7	53	0.17%
8	65	0.21%
9	102	0.33%
14	235	0.75%
15	95	0.30%
10	4	0.01%
Grand Total	31187	100.00%

Average of Speed	Column Labels	
Row Labels	W	E
Monday	25.60	28.06
Tuesday	24.73	27.25
Wednesday	25.30	27.91
Thursday	24.64	27.54
Friday	25.90	27.48
Saturday	27.23	29.58
Sunday	27.50	29.31
Grand Total	25.62	27.97

% Over PSL	% Over ACPO	% Over DFT
25.69%	0.00%	0.00%

vehicles are travelling over posted speed limit (30mph)      vehicles are traveling 10% +2 over PSL (35mph)      vehicles are 15mph over PSL (45mph)

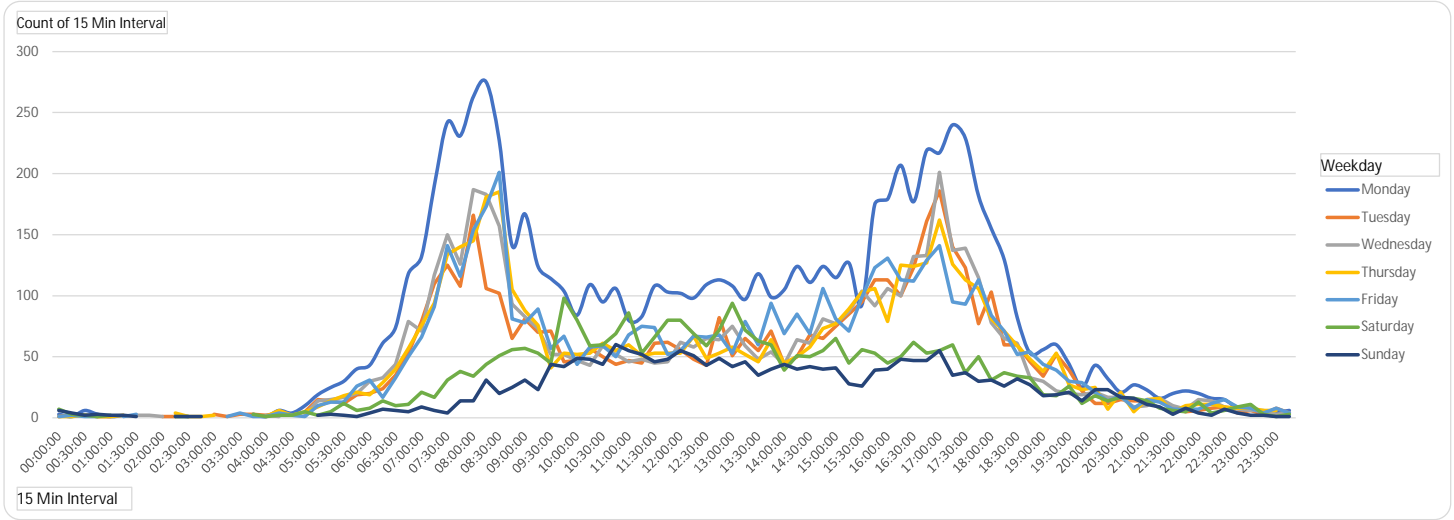


Week Commencing
11 October 2021
18 October 2021

Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
10

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
00:00:00	3	1	4	1	1	7	6	23
00:15:00	1	2		1	2	3	4	13
00:30:00	6	2	1	2	1	2	2	16
00:45:00	3	1		1	1	1	3	10
01:00:00	1	1	5	1		2	2	12
01:15:00	2			2	1		2	7
01:30:00			2		3	4	1	10
01:45:00			2	2				4
02:00:00		1	1					2
02:15:00	2	1		4	1	1	1	10
02:30:00	1		2	1		1	1	6
02:45:00				1	4		1	6
03:00:00		3	1	2				6
03:15:00	2	1			1		1	5
03:30:00		3	2	2	4			11
03:45:00	3	3			1	3		10
04:00:00	1	2	2	1	1	1		8
04:15:00	6	4	1	6	4	2		23
04:30:00	4			2	2	2		10
04:45:00	10	5	3	5	1	5		29
05:00:00	19	15	14	9	10	2	2	71
05:15:00	25	14	15	14	13	5	3	89
05:30:00	30	12	17	18	13	12	2	104
05:45:00	40	19	20	21	26	6	1	133

Row Labels	07-19	06-22	06-00	00-00
Monday	6864	7549	7632	7791
Tuesday	3900	4275	4323	4413
Wednesday	4125	4509	4573	4665
Thursday	4020	4410	4469	4565
Friday	4227	4603	4670	4760
Saturday	2628	2844	2894	2953
Sunday	1781	1985	2008	2040
<b>Grand Total</b>	<b>27545</b>	<b>30175</b>	<b>30569</b>	<b>31187</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	2.00	3.29
00:15:00	1.20	1.86
00:30:00	2.40	2.29
00:45:00	1.20	1.43
01:00:00	1.60	1.71
01:15:00	1.00	1.00
01:30:00	1.00	1.43
01:45:00	0.80	0.57
02:00:00	0.40	0.29
02:15:00	1.60	1.43
02:30:00	0.80	0.86
02:45:00	1.00	0.86
03:00:00	1.20	0.86
03:15:00	0.80	0.71
03:30:00	2.20	1.57
03:45:00	1.40	1.43
04:00:00	1.40	1.14
04:15:00	4.20	3.29
04:30:00	1.60	1.43
04:45:00	4.80	4.14
05:00:00	13.40	10.14
05:15:00	16.20	12.71
05:30:00	18.00	14.86
05:45:00	25.20	19.00
06:00:00	28.60	22.14

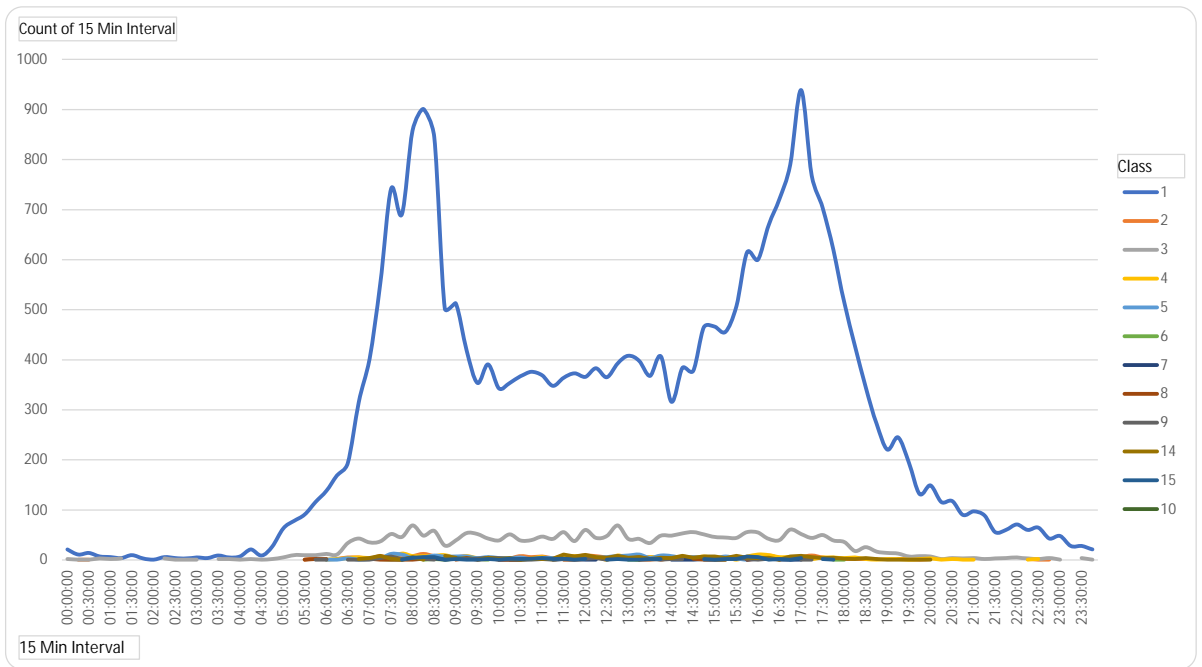
06:00:00	43	20	30	19	31	8	4	155
06:15:00	61	24	33	29	17	14	7	185
06:30:00	74	35	44	40	33	10	6	242
06:45:00	118	53	79	57	50	11	5	373
07:00:00	132	79	71	76	66	21	9	454
07:15:00	190	110	117	94	91	17	6	625
07:30:00	242	125	150	134	141	31	4	827
07:45:00	231	108	126	140	116	38	14	773
08:00:00	263	166	187	145	154	34	14	963
08:15:00	275	106	183	181	173	44	31	993
08:30:00	227	102	157	185	201	51	20	943
08:45:00	141	65	93	105	81	56	25	566
09:00:00	167	81	83	88	78	57	31	585
09:15:00	124	70	73	76	89	53	23	508
09:30:00	114	71	52	41	57	45	44	424
09:45:00	104	46	52	53	67	98	42	462
10:00:00	84	47	47	52	44	80	49	403
10:15:00	109	57	43	53	58	59	48	427
10:30:00	95	50	59	61	59	60	44	428
10:45:00	106	44	52	55	50	69	60	436
11:00:00	80	47	46	60	68	86	55	442
11:15:00	83	45	48	51	75	53	52	407
11:30:00	108	61	45	53	74	66	46	453
11:45:00	103	62	46	53	52	80	48	444
12:00:00	102	56	62	53	55	80	55	463
12:15:00	98	48	58	67	67	69	51	458
12:30:00	109	43	65	49	66	59	43	434
12:45:00	113	82	64	53	68	72	49	501
13:00:00	108	51	75	58	53	94	42	481
13:15:00	97	65	59	52	79	72	46	470
13:30:00	118	55	48	46	60	63	35	425
13:45:00	99	71	54	64	94	60	40	482
14:00:00	105	44	44	45	69	39	44	390
14:15:00	124	50	64	50	85	51	40	464
14:30:00	111	68	61	58	69	50	42	459
14:45:00	124	65	81	73	106	55	40	544
15:00:00	115	75	77	77	81	65	41	531
15:15:00	127	85	87	89	71	45	28	532
15:30:00	92	95	104	103	99	56	26	575
15:45:00	175	113	92	106	123	53	39	701
16:00:00	179	113	106	79	131	45	40	693
16:15:00	207	100	100	125	113	50	48	743
16:30:00	177	123	132	124	112	62	47	777
16:45:00	219	161	133	127	129	53	47	869
17:00:00	217	186	201	162	141	55	55	1017
17:15:00	240	140	137	126	95	60	35	833
17:30:00	229	123	139	113	93	37	37	771
17:45:00	182	77	115	106	113	50	30	673
18:00:00	155	103	78	81	84	31	31	563
18:15:00	129	60	65	71	71	37	26	459

06:15:00	32.80	26.43
06:30:00	45.20	34.57
06:45:00	71.40	53.29
07:00:00	84.80	64.86
07:15:00	120.40	89.29
07:30:00	158.40	118.14
07:45:00	144.20	110.43
08:00:00	183.00	137.57
08:15:00	183.60	141.86
08:30:00	174.40	134.71
08:45:00	97.00	80.86
09:00:00	99.40	83.57
09:15:00	86.40	72.57
09:30:00	67.00	60.57
09:45:00	64.40	66.00
10:00:00	54.80	57.57
10:15:00	64.00	61.00
10:30:00	64.80	61.14
10:45:00	61.40	62.29
11:00:00	60.20	63.14
11:15:00	60.40	58.14
11:30:00	68.20	64.71
11:45:00	63.20	63.43
12:00:00	65.60	66.14
12:15:00	67.60	65.43
12:30:00	66.40	62.00
12:45:00	76.00	71.57
13:00:00	69.00	68.71
13:15:00	70.40	67.14
13:30:00	65.40	60.71
13:45:00	76.40	68.86
14:00:00	61.40	55.71
14:15:00	74.60	66.29
14:30:00	73.40	65.57
14:45:00	89.80	77.71
15:00:00	85.00	75.86
15:15:00	91.80	76.00
15:30:00	98.60	82.14
15:45:00	121.80	100.14
16:00:00	121.60	99.00
16:15:00	129.00	106.14
16:30:00	133.60	111.00
16:45:00	153.80	124.14
17:00:00	181.40	145.29
17:15:00	147.60	119.00
17:30:00	139.40	110.14
17:45:00	118.60	96.14
18:00:00	100.20	80.43
18:15:00	79.20	65.57
18:30:00	62.80	54.29

18:30:00	82	60	61	59	52	34	32	380
18:45:00	53	46	33	48	54	33	27	294
19:00:00	56	34	30	38	44	19	18	239
19:15:00	60	52	22	53	39	18	19	263
19:30:00	44	39	20	27	30	26	21	207
19:45:00	25	22	19	23	29	12	14	144
20:00:00	43	12	21	25	21	18	23	163
20:15:00	32	12	17	7	14	14	23	119
20:30:00	21	15	17	21	18	17	17	126
20:45:00	27	14	9	5	8	16	16	95
21:00:00	23	14	10	15	15	14	11	102
21:15:00	16	15	16	16	13	8	9	93
21:30:00	20	9	10	5	7	6	3	60
21:45:00	22	5	7	10	7	5	8	64
22:00:00	20	6	15	11	7	13	4	76
22:15:00	16	8	14	11	12	4	2	67
22:30:00	15	9	9	9	15	6	7	70
22:45:00	8	4	7	8	9	9	4	49
23:00:00	8	6	6	8	8	11	2	49
23:15:00	5	3	6	6	4	3	2	29
23:30:00	5	8	3	6	8	1	1	32
23:45:00	6	4	4		4	3	1	22
Grand Total	7791	4413	4665	4565	4760	2953	2040	31187

18:45:00	46.80	42.00
19:00:00	40.40	34.14
19:15:00	45.20	37.57
19:30:00	32.00	29.57
19:45:00	23.60	20.57
20:00:00	24.40	23.29
20:15:00	16.40	17.00
20:30:00	18.40	18.00
20:45:00	12.60	13.57
21:00:00	15.40	14.57
21:15:00	15.20	13.29
21:30:00	10.20	8.57
21:45:00	10.20	9.14
22:00:00	11.80	10.86
22:15:00	12.20	9.57
22:30:00	11.40	10.00
22:45:00	7.20	7.00
23:00:00	7.20	7.00
23:15:00	4.80	4.14
23:30:00	6.00	4.57
23:45:00	3.60	3.14
Grand Total	5238.80	4455.29

Class	Axis	Access	Description	Parameters	Dimension Details	Accesses
11	017	0	000 0	001+0.0m, 002+0.0m & access2	001+0.0m, 002+0.0m & access2	Light
0	017	0	000 0	001+0.0m, 002+0.0m, 003+0.0m, 004+0.0m & access2, A, B	001+0.0m, 002+0.0m, 003+0.0m, 004+0.0m & access2, A, B	Light
6	083	0	0	001+0.0m & access2	001+0.0m & access2	Access
4	083	0	0	access2 & group2	access2 & group2	Access
3	14	0.0	0	access2 & group2	access2 & group2	Access
0	003	0	0	001+0.0m, access2 & group2	001+0.0m, access2 & group2	Access
7	003	0	0	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	Access
8	003	0	0	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	Access
9	003	0	0	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	Access
10	003	0	0	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	Access
11	003	0	0	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	Access
12	003	0	0	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	Access
13	003	0	0	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	Access
14	003	0	0	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	Access
15	003	0	0	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	001+0.0m or 002+0.0m or 003+0.0m or 004+0.0m & B & group2	Access



Week Commencing

11 October 2021

18 October 2021

Compass direction

E

W

Class

1

2

3

4

5

Weekday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	14	15	10	Grand Total
00:00:00	Row Labels	21		2										23
00:15:00		11	1	1										13
00:30:00		14	1	1										16
00:45:00		7		3										10
01:00:00		6		2						4				12
01:15:00		4		3										7
01:30:00		10												10
01:45:00		3		1										4
02:00:00		1							1					2
02:15:00		6		3	1									10
02:30:00		4		1					1					6
02:45:00		3		1	1	1								6
03:00:00		5		1										6
03:15:00		4							1					5
03:30:00		9		2										11
03:45:00		5		1	2	1					1			10
04:00:00		7		1										8
04:15:00		21		2										23

Row Labels	07-19	06-22	06-00	00-00
Monday	6864	7549	7632	7791
Tuesday	3900	4275	4323	4413
Wednesday	4125	4509	4573	4665
Thursday	4020	4410	4469	4565
Friday	4227	4603	4670	4760
Saturday	2628	2844	2894	2953
Sunday	1781	1985	2008	2040
Grand Total	27545	30175	30569	31187

Row Labels	Average 5 Days	σ of Average 7 D
00:00:00	2.00	3.29
00:15:00	1.20	1.86
00:30:00	2.40	2.29
00:45:00	1.20	1.43
01:00:00	1.60	1.71
01:15:00	1.00	1.00
01:30:00	1.00	1.43
01:45:00	0.80	0.57
02:00:00	0.40	0.29
02:15:00	1.60	1.43
02:30:00	0.80	0.86
02:45:00	1.00	0.86
03:00:00	1.20	0.86
03:15:00	0.80	0.71
03:30:00	2.20	1.57
03:45:00	1.40	1.43
04:00:00	1.40	1.14
04:15:00	4.20	3.29
04:30:00	1.60	1.43



16:45:00	790	2	61	6	1	1	7	1	869				
17:00:00	939	6	52	4	2	1	1	8	4	1017			
17:15:00	768	9	44	2	1	2	1	6	833				
17:30:00	704	5	50	5	1	4	2	771					
17:45:00	619	3	39	5	1	5	1	673					
18:00:00	514	2	36	4	1	1	2	3	563				
18:15:00	428	2	18	5	3	1	2	459					
18:30:00	345	2	26	2	1	4	380						
18:45:00	272	2	17	1	2	294							
19:00:00	221	14	2	1	1	239							
19:15:00	245	2	13	2	1	263							
19:30:00	194	2	7	1	1	1	1	207					
19:45:00	132	1	8	2	1	144							
20:00:00	149	2	7	3	1	1	163						
20:15:00	116	2	1	119									
20:30:00	118	2	4	2	126								
20:45:00	90	3	1	1	95								
21:00:00	97	4	1	102									
21:15:00	89	1	2	1	93								
21:30:00	56	3	1	60									
21:45:00	60	4	64										
22:00:00	71	5	76										
22:15:00	60	2	3	1	1	67							
22:30:00	65	1	2	2	70								
22:45:00	43	1	4	1	49								
23:00:00	48	1	49										
23:15:00	28	1	29										
23:30:00	28	4	32										
23:45:00	21	1	22										
Grand Total	27379	279	2438	281	##	35	53	65	##	##	95	4	31187

17:00:00	181.40	145.29
17:15:00	147.60	119.00
17:30:00	139.40	110.14
17:45:00	118.60	96.14
18:00:00	100.20	80.43
18:15:00	79.20	65.57
18:30:00	62.80	54.29
18:45:00	46.80	42.00
19:00:00	40.40	34.14
19:15:00	45.20	37.57
19:30:00	32.00	29.57
19:45:00	23.60	20.57
20:00:00	24.40	23.29
20:15:00	16.40	17.00
20:30:00	18.40	18.00
20:45:00	12.60	13.57
21:00:00	15.40	14.57
21:15:00	15.20	13.29
21:30:00	10.20	8.57
21:45:00	10.20	9.14
22:00:00	11.80	10.86
22:15:00	12.20	9.57
22:30:00	11.40	10.00
22:45:00	7.20	7.00
23:00:00	7.20	7.00
23:15:00	4.80	4.14
23:30:00	6.00	4.57
23:45:00	3.60	3.14
Grand Total	5238.80	4455.29

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	7791	26.87	32.20	35.90	1968	25.26%	0	0.00%	0	0.00%
Tuesday	4413	26.05	31.40	35.40	967	21.91%	0	0.00%	0	0.00%
Wednesday	4665	26.64	32.10	36.00	1148	24.61%	0	0.00%	0	0.00%
Thursday	4565	26.14	31.70	35.40	1037	22.72%	0	0.00%	0	0.00%
Friday	4760	26.72	32.10	35.80	1201	25.23%	0	0.00%	0	0.00%
Saturday	2953	28.42	33.60	37.74	973	32.95%	1	0.03%	0	0.00%
Sunday	2040	28.41	33.50	37.61	717	35.15%	0	0.00%	0	0.00%
5day	26194	26.54	31.90	35.70	6321	24.13%	0	0.00%	0	0.00%
7day	31187	26.84	32.20	36.10	8011	25.69%	1	0.00%	0	0.00%



# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 3



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

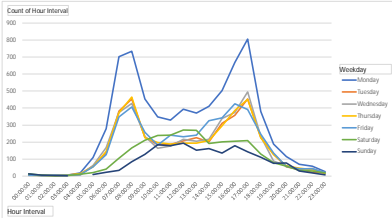
Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
27297	2.22%	0.32%	0.06%

Count of Compass direc	Column Labels	W	E	Grand Total
11 October 2021	W	11622	12752	24374
18 October 2021	W	1525	1698	3223
Grand Total		13147	14450	27597

Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
10
11
12



Count of Compass direction	Column Labels	W	E
Monday	W	3315	3667
Tuesday	W	1827	2073
Wednesday	W	1879	2076
Thursday	W	1862	2061
Friday	W	1952	2196
Saturday	W	1342	1403
Sunday	W	970	974
Grand Total		13147	14450

Average of Speed	Column Labels	W	E
Monday	W	47.00	47.37
Tuesday	W	47.07	47.13
Wednesday	W	46.84	47.18
Thursday	W	46.94	47.63
Friday	W	47.55	47.27
Saturday	W	48.62	48.19
Sunday	W	48.35	48.66
Grand Total		47.33	47.50

% Over PSL	% Over ACPO	% Over DFT
2.22%	0.32%	0.06%

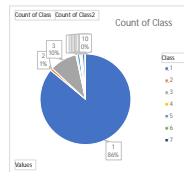
vehicles are travelling over posted speed limit (60mph)

vehicles are travelling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)



Row Labels	Count of Class	Count of Class2
1	23758	86.09%
2	220	0.80%
3	2696	9.77%
4	115	0.42%
5	242	0.88%
6	26	0.09%
7	58	0.21%
8	99	0.36%
9	114	0.41%
11	2	0.01%
14	196	0.71%
15	66	0.24%
10	5	0.02%
Grand Total	27597	100.00%



Week Commencing

11 October 2021

18 October 2021

Compass direction

E

W

Class

1

2

3

4

5

6

7

8

9

10

Weekday

Monday

Tuesday

Wednesday

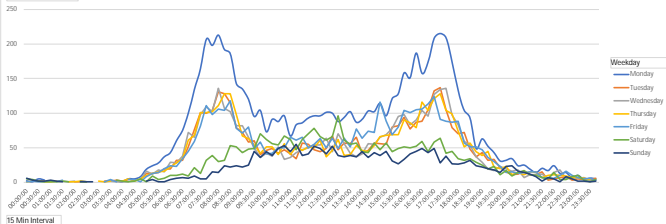
Thursday

Friday

Saturday

Sunday

Count of 15 Min Interval



Count of 15 Min Interval	Column Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Grand Total
00:00:00	Row Labels	2		3	1	1	5	6	18
00:15:00		1	2		2	2	4	3	14
00:30:00		5	2	1	2	1	2	2	15
00:45:00		3	2		1	1	1	2	10
01:00:00				3	1		1	3	8
01:15:00		2			2	1	1	2	8
01:30:00				2		3	2	1	8
01:45:00				1	1		1		3
02:00:00			1		2	1			4
02:15:00		2	1		2	1	1	1	8
02:30:00		1		2	1		1	1	6
02:45:00			1			5		1	7
03:00:00				1	2				3
03:15:00		1	2		1	1		1	6
03:30:00		2	2	2	2	4			12
03:45:00		2	3	1		1	3		10
04:00:00		1	2	1	2		2		8
04:15:00		5	4	1	5	4	1		20
04:30:00		5			2	4	2		13
04:45:00		8	4	4	5	1	5		27
05:00:00		19	13	16	10	8	1	2	69
05:15:00		24	13	12	13	13	9	4	88
05:30:00		28	14	18	15	14	4	1	94
05:45:00		37	19	15	16	20	6	1	114
06:00:00		43	19	29	22	24	10	4	151
06:15:00		60	32	28	28	23	10	6	187
06:30:00		75	32	38	34	34	12	7	232
06:45:00		100	51	72	61	45	9	6	344
07:00:00		134	76	65	68	59	21	9	432
07:15:00		164	101	98	101	81	13	5	563
07:30:00		207	100	109	101	111	32	5	665

Row Labels	07:19	06:22	06:00	00:00
Monday	6099	6751	6834	6982
Tuesday	3416	3773	3815	3900
Wednesday	3452	3807	3870	3955
Thursday	3405	3782	3836	3923
Friday	3639	4000	4063	4148
Saturday	2436	2645	2693	2745
Sunday	1684	1887	1913	1944
<b>Grand Total</b>	<b>24131</b>	<b>26645</b>	<b>27024</b>	<b>27597</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	1.40	2.57
00:15:00	1.40	2.00
00:30:00	2.20	2.14
00:45:00	1.40	1.43
01:00:00	0.80	1.14
01:15:00	1.00	1.14
01:30:00	1.00	1.14
01:45:00	0.40	0.43
02:00:00	0.80	0.57
02:15:00	1.20	1.14
02:30:00	0.80	0.86
02:45:00	1.20	1.00
03:00:00	0.60	0.43
03:15:00	1.00	0.86
03:30:00	2.40	1.71
03:45:00	1.40	1.43
04:00:00	1.20	1.14
04:15:00	3.80	2.86
04:30:00	2.20	1.86
04:45:00	4.40	3.86
05:00:00	13.20	9.86
05:15:00	15.00	12.57
05:30:00	17.80	13.43
05:45:00	21.40	16.29
06:00:00	27.40	21.57
06:15:00	34.20	26.71
06:30:00	42.60	33.14
06:45:00	65.80	49.14
07:00:00	80.40	61.71
07:15:00	109.00	80.43
07:30:00	125.40	95.00
07:45:00	120.80	94.00

07:45:00	198	104	102	102	98	39	15	658
08:00:00	213	131	136	111	106	30	14	741
08:15:00	192	128	107	128	104	32	24	715
08:30:00	186	115	102	128	118	53	22	724
08:45:00	143	79	82	98	78	51	24	555
09:00:00	135	72	82	67	71	43	22	492
09:15:00	120	58	65	63	80	48	25	459
09:30:00	95	60	50	54	48	49	45	401
09:45:00	104	40	36	42	58	70	36	386
10:00:00	73	46	42	51	41	62	44	359
10:15:00	91	49	38	51	42	56	39	366
10:30:00	88	42	51	40	50	54	49	374
10:45:00	96	47	33	56	50	67	53	402
11:00:00	67	41	36	40	45	42	44	355
11:15:00	83	34	43	51	61	47	55	374
11:30:00	86	57	47	46	65	62	39	402
11:45:00	93	55	50	51	50	70	41	410
12:00:00	96	47	54	50	55	78	52	432
12:15:00	96	44	54	61	63	66	49	433
12:30:00	101	49	64	37	50	61	41	403
12:45:00	100	67	44	46	64	66	52	439
13:00:00	88	47	70	62	49	96	39	451
13:15:00	94	57	56	39	64	61	37	408
13:30:00	102	56	42	40	51	55	39	385
13:45:00	87	65	37	53	77	57	37	413
14:00:00	91	42	41	46	64	44	44	372
14:15:00	103	46	56	44	74	43	36	402
14:30:00	102	57	55	53	72	57	43	439
14:45:00	114	56	65	66	116	47	39	503
15:00:00	96	55	69	68	89	57	45	479
15:15:00	121	80	78	69	69	44	31	492
15:30:00	128	82	95	69	80	49	27	530
15:45:00	158	94	98	90	104	51	33	628
16:00:00	151	77	83	86	101	50	41	589
16:15:00	187	80	87	79	105	52	45	645
16:30:00	157	88	104	116	106	59	49	679
16:45:00	174	105	96	104	113	44	43	679
17:00:00	208	132	127	121	124	58	49	819
17:15:00	215	137	134	128	91	64	28	797
17:30:00	209	105	136	104	88	42	38	722
17:45:00	174	79	97	99	87	45	27	608
18:00:00	133	70	83	74	88	34	26	508
18:15:00	104	72	59	51	57	32	28	403
18:30:00	93	48	54	57	51	34	32	369
18:45:00	49	37	37	44	51	29	24	271
19:00:00	63	43	29	39	47	25	22	268
19:15:00	52	32	19	45	36	19	20	223
19:30:00	43	33	17	22	30	23	18	186
19:45:00	31	21	23	20	23	11	14	143
20:00:00	32	15	19	23	14	17	23	143
20:15:00	34	11	16	11	15	9	24	120
20:30:00	24	12	18	14	13	14	16	111
20:45:00	25	16	7	11	14	17	14	104
21:00:00	19	11	11	15	15	11	12	94
21:15:00	14	11	11	15	15	10	8	84
21:30:00	10	15	12	7	7	7	2	70
21:45:00	17	3	6	10	6	5	7	54

08:00:00	139	40	105	86
08:15:00	131	80	102	14
08:30:00	129	80	103	43
08:45:00	96	00	79	29
09:00:00	85	40	70	29
09:15:00	77	20	65	57
09:30:00	61	40	57	29
09:45:00	56	00	55	14
10:00:00	50	60	51	29
10:15:00	54	20	52	29
10:30:00	54	20	53	43
10:45:00	56	40	57	43
11:00:00	49	80	50	71
11:15:00	54	40	53	43
11:30:00	60	20	57	43
11:45:00	59	80	58	57
12:00:00	60	40	61	71
12:15:00	63	60	61	86
12:30:00	60	20	57	57
12:45:00	64	20	62	71
13:00:00	63	20	64	43
13:15:00	62	00	58	29
13:30:00	58	20	55	00
13:45:00	63	80	59	00
14:00:00	56	80	53	14
14:15:00	64	60	57	43
14:30:00	67	80	62	71
14:45:00	83	40	71	86
15:00:00	75	40	68	43
15:15:00	83	40	70	29
15:30:00	90	80	75	71
15:45:00	108	80	89	71
16:00:00	99	60	84	14
16:15:00	109	60	92	14
16:30:00	114	20	97	00
16:45:00	118	40	97	00
17:00:00	142	40	117	00
17:15:00	141	00	113	86
17:30:00	128	40	103	14
17:45:00	107	20	86	86
18:00:00	89	60	72	57
18:15:00	68	60	57	57
18:30:00	60	60	52	71
18:45:00	43	60	38	71
19:00:00	44	20	38	29
19:15:00	36	80	31	86
19:30:00	29	00	26	57
19:45:00	23	60	20	43
20:00:00	20	60	20	43
20:15:00	17	40	17	14
20:30:00	16	20	15	86
20:45:00	14	60	14	86
21:00:00	14	20	13	43
21:15:00	13	20	12	00
21:30:00	12	20	10	00
21:45:00	8	40	7	71
22:00:00	12	00	11	29

22:00:00	24	5	14	11	6	14	5	79
22:15:00	13	7	18	10	10	4	1	63
22:30:00	14	8	6	9	16	4	8	65
22:45:00	7	3	6	7	10	8	5	46
23:00:00	10	5	6	7	7	10	2	47
23:15:00	4	4	7	6	5	3	2	31
23:30:00	6	4	3	4	6	1	1	25
23:45:00	5	6	3		3	4	2	23
<b>Grand Total</b>	<b>6982</b>	<b>3900</b>	<b>3955</b>	<b>3923</b>	<b>4148</b>	<b>2745</b>	<b>1944</b>	<b>27597</b>

22:15:00	11.60	9.00
22:30:00	10.60	9.29
22:45:00	6.60	6.57
23:00:00	7.00	6.71
23:15:00	5.20	4.43
23:30:00	4.60	3.57
23:45:00	3.40	3.29
<b>Grand Total</b>	<b>4581.60</b>	<b>3942.43</b>



05:45:00	79	4	20	1	1	8	1			114
06:00:00	133	2	12			1	2	1		151
06:15:00	160	4	18	1	1	2	2	1		187
06:30:00	182	5	42	2	1					232
06:45:00	291	2	44	2	1	1	1	2		344
07:00:00	373	4	46	1		1	1	5	1	432
07:15:00	481	4	60	3	3	1	6	5		563
07:30:00	576	2	59	4	14	1	8	1	1	645
07:45:00	564	5	63	1	13	2	2	6	2	658
08:00:00	647	7	64	4	8	2	2	1	6	741
08:15:00	633	6	54	7	7	1	2	3	2	715
08:30:00	627	3	72	3	11	3	1	2	1	724
08:45:00	485	5	47	4	6	1		6	1	555
09:00:00	409	3	56	3	8	4	4	5		492
09:15:00	369	8	53	6	6	2	2	4	2	459
09:30:00	321	3	59	4	5	2	4	3		401
09:45:00	316	2	45	3	7	4	5	4		386
10:00:00	294	4	40	3	3	1	2	2	6	359
10:15:00	303	4	51	2	1			2	3	366
10:30:00	309	7	37	1	8	3	2	4	3	374
10:45:00	345	2	40	1	1	3	1	3	1	402
11:00:00	288	5	48	1	3	1	1	3	5	355
11:15:00	309	1	45	3	5	1	2	1	5	374
11:30:00	316	11	57	3	2	1	4	1	5	402
11:45:00	326	7	56	5	7	1	1	2	2	410
12:00:00	353	8	50	1	5	2	4	3	5	432
12:15:00	357	5	48	6	3	1	4	1	6	433
12:30:00	322	4	57	5	6	1	1	4	1	403
12:45:00	358	1	49	3	10	1	1	9	1	439
13:00:00	376	5	43	3	7	1	1	6	7	451
13:15:00	342	3	38	1	12	1	1	3	4	408
13:30:00	319	7	42	7	2	7			1	385
13:45:00	332	50	5	13	1	3	1	4	4	413
14:00:00	302	4	50	5	1	1	2	2	5	372
14:15:00	325	2	55	3	6	2	1	3	4	402
14:30:00	350	6	67	1	3	1	2	2	7	439
14:45:00	418	6	57	4	10	1	2	2	3	503
15:00:00	415	4	39	5	3	1	1	2	6	479
15:15:00	413	4	52	3	5	3	1	5	5	492
15:30:00	464	5	47	6	1	2	3	2		530
15:45:00	548	4	57	3	5	2	4	5		628
16:00:00	506	5	59	4	2	3	2	2	5	589
16:15:00	583	3	41	3	5	1	2	1	4	645
16:30:00	617	2	47	1	2	2	2	1	3	679
16:45:00	606	1	65			1			4	679
17:00:00	751	2	49			2	2	10	3	819
17:15:00	725	10	51	1		2	1	6	1	797
17:30:00	653	4	57	1	1	1	1	5		722
17:45:00	542	2	52	1	1	1		8	1	608
18:00:00	460	2	40	1		1	2	1	1	508
18:15:00	372		28			1	1	1		403
18:30:00	339	2	22			1		5		369
18:45:00	255		16							271
19:00:00	245		22					1		268

06:00:00	27.40	21.57
06:15:00	34.20	26.71
06:30:00	42.60	33.14
06:45:00	65.80	49.14
07:00:00	80.40	61.71
07:15:00	109.00	80.43
07:30:00	126.60	95.00
07:45:00	120.80	94.00
08:00:00	139.40	105.86
08:15:00	131.80	102.14
08:30:00	129.80	103.43
08:45:00	96.00	79.29
09:00:00	85.40	70.29
09:15:00	77.20	65.57
09:30:00	61.40	57.29
09:45:00	56.00	55.14
10:00:00	50.60	51.29
10:15:00	54.20	52.29
10:30:00	54.20	53.43
10:45:00	56.40	57.43
11:00:00	49.80	50.71
11:15:00	54.40	53.43
11:30:00	60.20	57.43
11:45:00	59.80	58.57
12:00:00	60.40	61.71
12:15:00	63.60	61.86
12:30:00	60.20	57.57
12:45:00	64.20	62.71
13:00:00	63.20	64.43
13:15:00	62.00	58.29
13:30:00	58.20	55.00
13:45:00	63.80	59.00
14:00:00	56.80	53.14
14:15:00	64.60	57.43
14:30:00	67.80	62.71
14:45:00	83.40	71.86
15:00:00	75.40	68.43
15:15:00	83.40	70.29
15:30:00	90.80	75.71
15:45:00	108.80	89.71
16:00:00	99.60	84.14
16:15:00	109.60	92.14
16:30:00	114.20	97.00
16:45:00	118.40	97.00
17:00:00	142.40	117.00
17:15:00	141.00	113.86
17:30:00	128.40	103.14
17:45:00	107.20	86.86
18:00:00	89.60	72.57
18:15:00	68.60	57.57
18:30:00	60.60	52.71
18:45:00	43.60	38.71
19:00:00	44.20	38.29
19:15:00	36.80	31.86

19:15:00	202	1	18		1	1			223					
19:30:00	173	1	10		1	1			186					
19:45:00	133	1	8			1			143					
20:00:00	130	3	9				1		143					
20:15:00	114		6						120					
20:30:00	107		4						111					
20:45:00	100		3			1			104					
21:00:00	92		1	1					94					
21:15:00	79		3	1			1		84					
21:30:00	67		3						70					
21:45:00	52		2						54					
22:00:00	74		5						79					
22:15:00	57		4	1			1		63					
22:30:00	61	1	3						65					
22:45:00	42		3		1				46					
23:00:00	44		3						47					
23:15:00	31								31					
23:30:00	23		2						25					
23:45:00	21		2						23					
<b>Grand Total</b>	<b>23758</b>	<b>220</b>	<b>2696</b>	<b>115</b>	<b>#</b>	<b>26</b>	<b>58</b>	<b>99</b>	<b>#</b>	<b>2</b>	<b>196</b>	<b>66</b>	<b>5</b>	<b>27597</b>

19:30:00	29.00	26.57
19:45:00	23.60	20.43
20:00:00	20.60	20.43
20:15:00	17.40	17.14
20:30:00	16.20	15.86
20:45:00	14.60	14.86
21:00:00	14.20	13.43
21:15:00	13.20	12.00
21:30:00	12.20	10.00
21:45:00	8.40	7.71
22:00:00	12.00	11.29
22:15:00	11.60	9.00
22:30:00	10.60	9.29
22:45:00	6.60	6.57
23:00:00	7.00	6.71
23:15:00	5.20	4.43
23:30:00	4.60	3.57
23:45:00	3.40	3.29
<b>Grand Total</b>	<b>4581.60</b>	<b>3942.43</b>



Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	6982	47.20	53.10	57.00	140	2.01%	20	0.29%	4	0.06%
Tuesday	3900	47.10	52.60	56.50	64	1.64%	6	0.15%	2	0.05%
Wednesday	3955	47.02	53.20	56.93	72	1.82%	11	0.28%	2	0.05%
Thursday	3923	47.30	53.20	57.30	82	2.09%	10	0.25%	0	0.00%
Friday	4148	47.40	53.00	57.17	90	2.17%	14	0.34%	0	0.00%
Saturday	2745	48.40	54.30	58.70	100	3.64%	20	0.73%	7	0.26%
Sunday	1944	48.50	54.40	58.80	66	3.40%	6	0.31%	1	0.05%
5day	22908	47.21	53.00	57.00	448	1.96%	61	0.27%	8	0.03%
7day	27597	47.42	53.30	57.30	614	2.22%	87	0.32%	16	0.06%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 4



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
10
14
15

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
11339	1.29%	87.66%	38.40%

Count of	Compass direction	Column Labels		
Row Labels	N	S	Grand Total	
11 October 2021	5090	4903	9993	
18 October 2021	680	666	1346	
Grand Total	5770	5569	11339	

Count of	Compass direction	Column Labels	
Row Labels	N	S	
Monday	1424	1382	
Tuesday	781	753	
Wednesday	819	761	
Thursday	808	793	
Friday	832	801	
Saturday	671	620	
Sunday	435	459	
Grand Total	5770	5569	

Row Labels	Count of Class	Count of Class2
1	9939	87.65%
2	84	0.74%
3	753	6.64%
4	33	0.29%
5	189	1.67%
6	5	0.04%
7	30	0.26%
8	17	0.15%
9	46	0.41%
14	128	1.13%
15	113	1.00%
10	2	0.02%
Grand Total	11339	100.00%

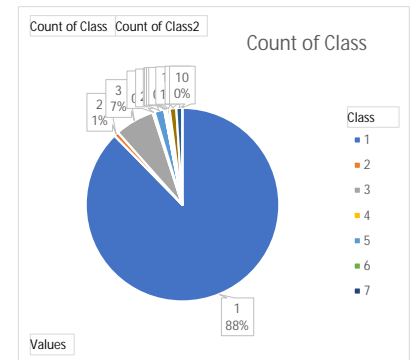
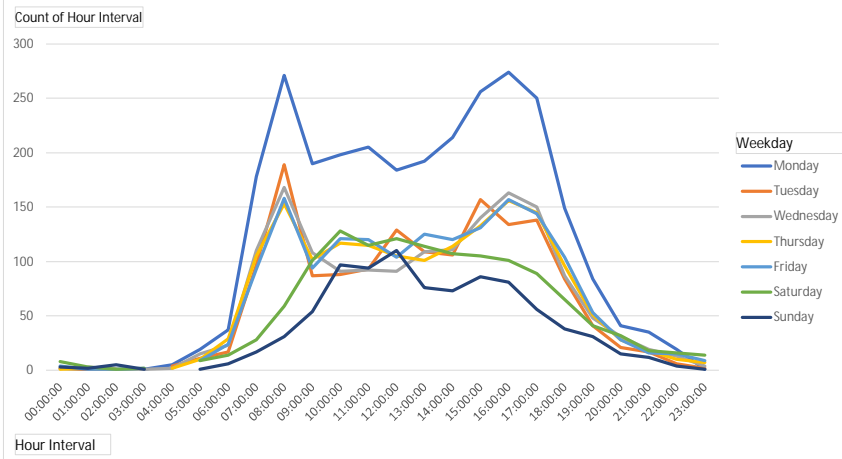
Average of Speed	Column Labels	
Row Labels	N	S
Monday	41.16	45.06
Tuesday	40.45	45.00
Wednesday	40.99	44.76
Thursday	40.17	44.11
Friday	41.36	45.34
Saturday	40.99	44.94
Sunday	40.19	44.92
Grand Total	40.84	44.89

% Over PSL	% Over ACPO	% Over DFT
1.29%	87.66%	38.40%

vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)

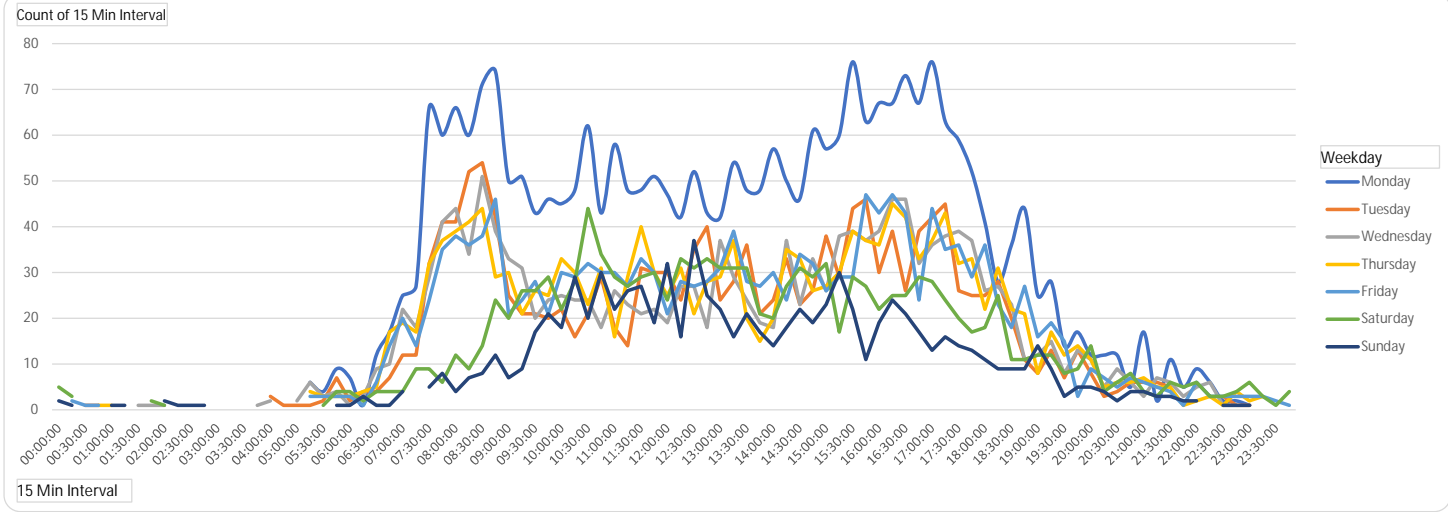


Week Commencing
11 October 2021
18 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
10

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
00:00:00	1					5	2	8
00:15:00					2	3	1	6
00:30:00	1	1			1			3
00:45:00		1		1	1			3
01:00:00			1	1		1		4
01:15:00							1	1
01:30:00	1		1	1				3
01:45:00		1	1		1	2		5
02:00:00			1			1		4
02:15:00		1					1	2
02:30:00				1			1	2
02:45:00					1		1	2
03:00:00	1							1
03:15:00					2	1		3
03:30:00							1	1
03:45:00			1			1		2
04:00:00	5	3	2					10
04:45:00		1		2				3
05:00:00		1	2			4		7
05:15:00	6	1	6	4	3			20
05:30:00	4	2	3	3	3	1		16
05:45:00	9	7	4	3	3	4	1	31
06:00:00	7	2	1	3	3	4	1	21
06:15:00	1	4	3	4	1	2	3	18

Row Labels	07-19	06-22	06-06	00-00
Monday	2561	2758	2778	2806
Tuesday	1411	1507	1515	1534
Wednesday	1420	1541	1558	1580
Thursday	1442	1568	1585	1601
Friday	1471	1592	1616	1633
Saturday	1133	1238	1268	1291
Sunday	813	877	882	894
<b>Grand Total</b>	<b>10251</b>	<b>11081</b>	<b>11202</b>	<b>11339</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	0.20	1.14
00:15:00	0.40	0.86
00:30:00	0.60	0.43
00:45:00	0.60	0.43
01:00:00	0.40	0.57
01:15:00	0.00	0.14
01:30:00	0.60	0.43
01:45:00	0.60	0.71
02:00:00	0.20	0.57
02:15:00	0.20	0.29
02:30:00	0.20	0.29
02:45:00	0.20	0.29
03:00:00	0.20	0.14
03:15:00	0.40	0.43
03:30:00	0.00	0.14
03:45:00	0.20	0.29
04:00:00	2.00	1.43
04:45:00	0.60	0.43
05:00:00	0.60	1.00
05:15:00	4.00	2.86
05:30:00	3.00	2.29
05:45:00	5.20	4.43
06:00:00	3.20	3.00
06:15:00	2.60	2.57
06:30:00	7.20	5.86

06:30:00	12	4	9	5	6	4	1	41
06:45:00	17	7	10	17	14	4	1	70
07:00:00	25	12	22	19	20	4	4	106
07:15:00	27	12	18	17	14	9		97
07:30:00	66	32	29	32	24	9	5	197
07:45:00	60	41	41	37	35	6	8	228
08:00:00	66	41	44	39	38	12	4	244
08:15:00	60	52	34	41	36	9	7	239
08:30:00	71	54	51	44	38	14	8	280
08:45:00	74	42	39	29	46	24	12	266
09:00:00	50	25	33	30	21	20	7	186
09:15:00	51	21	31	21	24	26	9	183
09:30:00	43	21	20	26	28	26	17	181
09:45:00	46	20	24	25	21	29	21	186
10:00:00	45	22	25	33	30	22	18	195
10:15:00	48	16	24	30	29	28	29	204
10:30:00	62	21	24	23	32	44	20	226
10:45:00	43	29	18	31	30	34	30	215
11:00:00	58	18	26	16	30	29	22	199
11:15:00	48	14	23	29	27	27	26	194
11:30:00	48	31	21	40	33	29	27	229
11:45:00	51	30	22	30	30	30	19	212
12:00:00	47	30	19	25	21	24	32	198
12:15:00	42	24	27	31	28	33	16	201
12:30:00	52	35	27	21	27	31	37	230
12:45:00	43	40	18	28	28	33	25	215
13:00:00	42	24	37	29	31	31	22	216
13:15:00	54	28	29	37	39	31	16	234
13:30:00	48	36	24	20	28	31	21	208
13:45:00	48	21	19	15	27	21	17	168
14:00:00	57	24	18	20	30	20	14	183
14:15:00	50	33	37	35	24	27	18	224
14:30:00	46	23	23	33	34	31	22	212
14:45:00	61	26	33	26	32	29	19	226
15:00:00	57	38	26	27	26	32	23	229
15:15:00	60	29	38	30	29	17	30	233
15:30:00	76	44	39	39	29	29	22	278
15:45:00	63	46	37	37	47	27	11	268
16:00:00	67	30	39	36	43	22	19	256
16:15:00	67	39	46	45	47	25	24	293
16:30:00	73	26	46	42	43	25	21	276
16:45:00	67	39	32	33	24	29	17	241
17:00:00	76	42	36	37	44	28	13	276
17:15:00	63	45	38	43	35	24	16	264
17:30:00	59	26	39	32	36	20	14	226
17:45:00	52	25	37	33	29	17	13	206
18:00:00	41	25	26	22	36	18	11	179
18:15:00	28	28	27	31	23	25	9	171
18:30:00	36	20	23	22	18	11	9	139
18:45:00	44	11	11	21	27	11	9	134

06:45:00	13.00	10.00
07:00:00	19.60	15.14
07:15:00	17.60	13.86
07:30:00	36.60	28.14
07:45:00	42.80	32.57
08:00:00	45.60	34.86
08:15:00	44.60	34.14
08:30:00	51.60	40.00
08:45:00	46.00	38.00
09:00:00	31.80	26.57
09:15:00	29.60	26.14
09:30:00	27.60	25.86
09:45:00	27.20	26.57
10:00:00	31.00	27.86
10:15:00	29.40	29.14
10:30:00	32.40	32.29
10:45:00	30.20	30.71
11:00:00	29.60	28.43
11:15:00	28.20	27.71
11:30:00	34.60	32.71
11:45:00	32.60	30.29
12:00:00	28.40	28.29
12:15:00	30.40	28.71
12:30:00	32.40	32.86
12:45:00	31.40	30.71
13:00:00	32.60	30.86
13:15:00	37.40	33.43
13:30:00	31.20	29.71
13:45:00	26.00	24.00
14:00:00	29.80	26.14
14:15:00	35.80	32.00
14:30:00	31.80	30.29
14:45:00	35.60	32.29
15:00:00	34.80	32.71
15:15:00	37.20	33.29
15:30:00	45.40	39.71
15:45:00	46.00	38.29
16:00:00	43.00	36.57
16:15:00	48.80	41.86
16:30:00	46.00	39.43
16:45:00	39.00	34.43
17:00:00	47.00	39.43
17:15:00	44.80	37.71
17:30:00	38.40	32.29
17:45:00	35.20	29.43
18:00:00	30.00	25.57
18:15:00	27.40	24.43
18:30:00	23.80	19.86
18:45:00	22.80	19.14
19:00:00	13.80	13.57

19:00:00	25	8	12	8	16	12	14	95
19:15:00	28	13	15	17	19	12	9	113
19:30:00	14	7	8	12	15	8	3	67
19:45:00	17	13	13	14	3	9	5	74
20:00:00	12	8	11	11	9	14	5	70
20:15:00	12	3	5	5	7	4	4	40
20:30:00	12	4	9	6	5	6	2	44
20:45:00	5	6	6	6	7	8	4	42
21:00:00	17	6	3	7	6	4	4	47
21:15:00	2	6	7	5	5	3	3	31
21:30:00	11	5	6	5	4	6	3	40
21:45:00	5		3	1	1	5	2	17
22:00:00	9	2	5	2	6	6	2	32
22:15:00	6		6	3	3	3		21
22:30:00	2	3	1	1	3	3	1	14
22:45:00	2	1	1	4	3	4	1	16
23:00:00	1	1		2	3	6	1	14
23:15:00			3	3	3	3		12
23:30:00		1			2	1		4
23:45:00			1	2	1	4		8
Grand Total	2806	1534	1580	1601	1633	1291	894	11339

19:15:00	18.40	16.14
19:30:00	11.20	9.57
19:45:00	12.00	10.57
20:00:00	10.20	10.00
20:15:00	6.40	5.71
20:30:00	7.20	6.29
20:45:00	6.00	6.00
21:00:00	7.80	6.71
21:15:00	5.00	4.43
21:30:00	6.20	5.71
21:45:00	2.00	2.43
22:00:00	4.80	4.57
22:15:00	3.60	3.00
22:30:00	2.00	2.00
22:45:00	2.20	2.29
23:00:00	1.40	2.00
23:15:00	1.80	1.71
23:30:00	0.60	0.57
23:45:00	0.80	1.14
Grand Total	1830.80	1619.86

Class	Axis	Access	Description	Parameters	Diagram/Notes	Access
11	017	3	30K 3	011+017, 012+017		Light
12	017	3	30K 3	011+017, 012+017		Light
13	017	3	30K 3	011+017, 012+017		Light
14	017	3	30K 3	011+017, 012+017		Light
15	017	3	30K 3	011+017, 012+017		Light
16	017	3	30K 3	011+017, 012+017		Light
17	017	3	30K 3	011+017, 012+017		Light
18	017	3	30K 3	011+017, 012+017		Light
19	017	3	30K 3	011+017, 012+017		Light
20	017	3	30K 3	011+017, 012+017		Light
21	017	3	30K 3	011+017, 012+017		Light
22	017	3	30K 3	011+017, 012+017		Light
23	017	3	30K 3	011+017, 012+017		Light
24	017	3	30K 3	011+017, 012+017		Light
25	017	3	30K 3	011+017, 012+017		Light
26	017	3	30K 3	011+017, 012+017		Light
27	017	3	30K 3	011+017, 012+017		Light
28	017	3	30K 3	011+017, 012+017		Light
29	017	3	30K 3	011+017, 012+017		Light
30	017	3	30K 3	011+017, 012+017		Light

**Week Commencing**

11 October 2021

18 October 2021

**Compass direction**

N

S

**Class**

1

2

3

4

5

**Weekday**

Monday

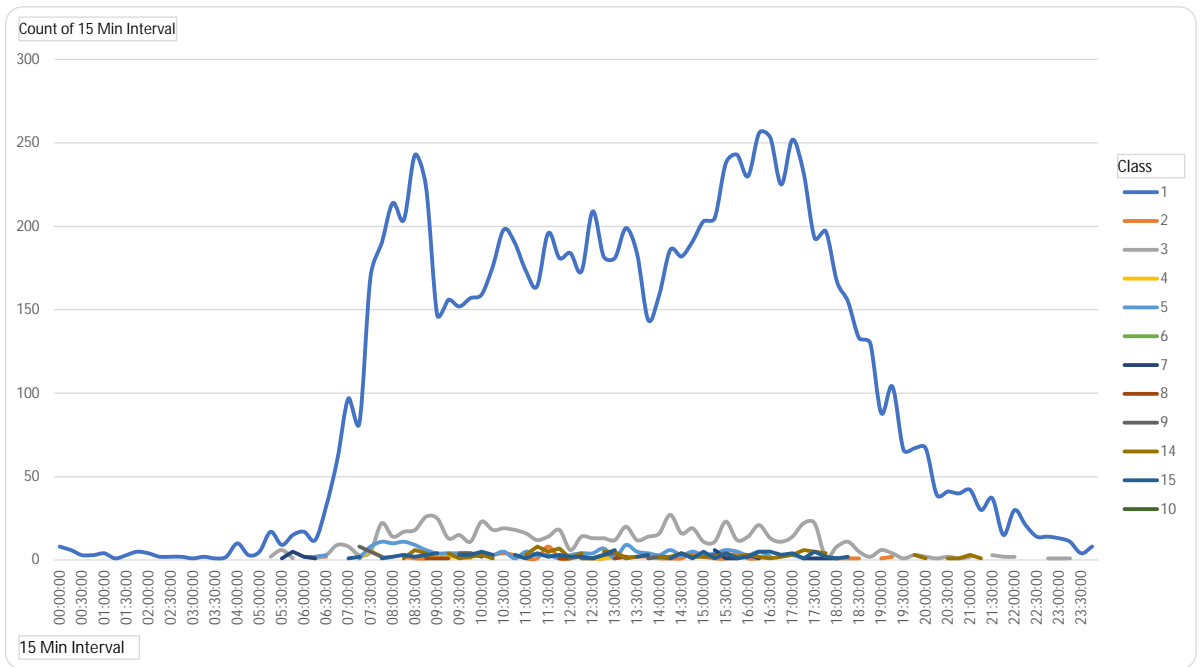
Tuesday

Wednesday

Thursday

Friday

Saturday



Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	14	15	10	Grand Total
00:00:00	Row Labels	8												8
00:15:00		6												6
00:30:00		3												3
00:45:00		3												3
01:00:00		4												4
01:15:00		1												1
01:30:00		3												3
01:45:00		5												5
02:00:00		4												4
02:15:00		2												2
02:30:00		2												2
02:45:00		2												2
03:00:00		1												1
03:15:00		2					1							3
03:30:00		1												1
03:45:00		2												2
04:00:00		10												10
04:45:00		3												3

Row Labels	07-19	06-22	06-00	00-00
Monday	2561	2758	2778	2806
Tuesday	1411	1507	1515	1534
Wednesday	1420	1541	1558	1580
Thursday	1442	1568	1585	1601
Friday	1471	1592	1616	1633
Saturday	1133	1238	1268	1291
Sunday	813	877	882	894
Grand Total	10251	11081	11202	11339

Row Labels	Average 5 Days	% of Average 7 Days
00:00:00	0.20	1.14
00:15:00	0.40	0.86
00:30:00	0.60	0.43
00:45:00	0.60	0.43
01:00:00	0.40	0.57
01:15:00	0.00	0.14
01:30:00	0.60	0.43
01:45:00	0.60	0.71
02:00:00	0.20	0.57
02:15:00	0.20	0.29
02:30:00	0.20	0.29
02:45:00	0.20	0.29
03:00:00	0.20	0.14
03:15:00	0.40	0.43
03:30:00	0.00	0.14
03:45:00	0.20	0.29
04:00:00	2.00	1.43
04:45:00	0.60	0.43
05:00:00	0.60	1.00

05:00:00	5	1		1					7			
05:15:00	17		2				1		20			
05:30:00	9		6		1				16			
05:45:00	15	5	1		5	5			31			
06:00:00	17			2	2				21			
06:15:00	12	2	1	2	1				18			
06:30:00	32	2	3	3	1				41			
06:45:00	60		9				1		70			
07:00:00	97		8					1	106			
07:15:00	82		3	1	1		8	2	97			
07:30:00	170	1	5	5	8	1	5	1	1	197		
07:45:00	190		22	2	11		2		1	228		
08:00:00	214		14	2	10	2			2	244		
08:15:00	204	2	17		11		1	1	3	239		
08:30:00	243	1	18		9	1		6	2	280		
08:45:00	224	1	26	1	6		1	4	3	266		
09:00:00	147	3	25	2	4		1		4	186		
09:15:00	156	3	13	2	4		1	4		183		
09:30:00	152		15	2	4		4	1	3	181		
09:45:00	157	4	11	1	4		4	2	3	186		
10:00:00	159		23		3		2	3	5	195		
10:15:00	176	3	18		3			1	3	204		
10:30:00	198	4	19		5					226		
10:45:00	190	3	18		1				3	215		
11:00:00	173	1	16		5			3	1	199		
11:15:00	164	1	12	1	3		1	8	4	194		
11:30:00	196	8	14		3		1	5	2	229		
11:45:00	181	1	18		1		1	7	3	212		
12:00:00	184	1	6		3		1	1	2	198		
12:15:00	173	2	14	1	4		1	4	2	201		
12:30:00	209	1	13	1	4		1		1	230		
12:45:00	182	1	13	1	7			3	5	3	215	
13:00:00	181	3	12	2	1		1	1	4	5	6	216
13:15:00	199	2	20		9		2	1	1		234	
13:30:00	184	2	12	1	5			2	2		208	
13:45:00	144	2	14		4		1		3		168	
14:00:00	159	1	16		3			2	2		183	
14:15:00	186	1	27		6		1	2	1		224	
14:30:00	182	1	16		3	1	1		4	4	212	
14:45:00	191	4	19	3	5	1			2	1	226	
15:00:00	203	2	11		3		2	2	5	1	229	
15:15:00	205	1	11		4	6	3	2	1		233	
15:30:00	238	1	23	1	6	1		4	4		278	
15:45:00	243	4	12		5	1		2	1		268	
16:00:00	230	1	14		3	3		3	2		256	
16:15:00	256	1	21	1	5	1	1	2	5		293	
16:30:00	253		13	2	2			1	5		276	
16:45:00	225		11					2	3		241	
17:00:00	252		14		3			3	4		276	

05:15:00	4.00	2.86
05:30:00	3.00	2.29
05:45:00	5.20	4.43
06:00:00	3.20	3.00
06:15:00	2.60	2.57
06:30:00	7.20	5.86
06:45:00	13.00	10.00
07:00:00	19.60	15.14
07:15:00	17.60	13.86
07:30:00	36.60	28.14
07:45:00	42.80	32.57
08:00:00	45.60	34.86
08:15:00	44.60	34.14
08:30:00	51.60	40.00
08:45:00	46.00	38.00
09:00:00	31.80	26.57
09:15:00	29.60	26.14
09:30:00	27.60	25.86
09:45:00	27.20	26.57
10:00:00	31.00	27.86
10:15:00	29.40	29.14
10:30:00	32.40	32.29
10:45:00	30.20	30.71
11:00:00	29.60	28.43
11:15:00	28.20	27.71
11:30:00	34.60	32.71
11:45:00	32.60	30.29
12:00:00	28.40	28.29
12:15:00	30.40	28.71
12:30:00	32.40	32.86
12:45:00	31.40	30.71
13:00:00	32.60	30.86
13:15:00	37.40	33.43
13:30:00	31.20	29.71
13:45:00	26.00	24.00
14:00:00	29.80	26.14
14:15:00	35.80	32.00
14:30:00	31.80	30.29
14:45:00	35.60	32.29
15:00:00	34.80	32.71
15:15:00	37.20	33.29
15:30:00	45.40	39.71
15:45:00	46.00	38.29
16:00:00	43.00	36.57
16:15:00	48.80	41.86
16:30:00	46.00	39.43
16:45:00	39.00	34.43
17:00:00	47.00	39.43
17:15:00	44.80	37.71



17:15:00	232		22		1	1	1		6	1		264		
17:30:00	193		22				1		5	5		226		
17:45:00	197		2				1		4	2		206		
18:00:00	167		1	8	1		1			1		179		
18:15:00	155		1	11					2	2		171		
18:30:00	133		1	5								139		
18:45:00	130			2					2			134		
19:00:00	88		1	6								95		
19:15:00	104		2	4					2	1		113		
19:30:00	66			1								67		
19:45:00	67		1	3					3			74		
20:00:00	67			2					1			70		
20:15:00	39			1								40		
20:30:00	41			2					1			44		
20:45:00	40			1					1			42		
21:00:00	42			2					3			47		
21:15:00	30								1			31		
21:30:00	37			3								40		
21:45:00	15			2								17		
22:00:00	30			2								32		
22:15:00	21											21		
22:30:00	14											14		
22:45:00	14			1					1			16		
23:00:00	13			1								14		
23:15:00	11			1								12		
23:30:00	4											4		
23:45:00	8											8		
Grand Total	9939		84	753	33	##	5	30	17	46	##	113	2	11339

17:30:00	38.40	32.29
17:45:00	35.20	29.43
18:00:00	30.00	25.57
18:15:00	27.40	24.43
18:30:00	23.80	19.86
18:45:00	22.80	19.14
19:00:00	13.80	13.57
19:15:00	18.40	16.14
19:30:00	11.20	9.57
19:45:00	12.00	10.57
20:00:00	10.20	10.00
20:15:00	6.40	5.71
20:30:00	7.20	6.29
20:45:00	6.00	6.00
21:00:00	7.80	6.71
21:15:00	5.00	4.43
21:30:00	6.20	5.71
21:45:00	2.00	2.43
22:00:00	4.80	4.57
22:15:00	3.60	3.00
22:30:00	2.00	2.00
22:45:00	2.20	2.29
23:00:00	1.40	2.00
23:15:00	1.80	1.71
23:30:00	0.60	0.57
23:45:00	0.80	1.14
Grand Total	1830.80	1619.86

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	2806	43.08	50.10	55.20	40	1.43%	2489	88.70%	1113	39.67%
Tuesday	1534	42.68	50.00	54.20	16	1.04%	1335	87.03%	552	35.98%
Wednesday	1580	42.81	50.32	55.01	19	1.20%	1377	87.15%	615	38.92%
Thursday	1601	42.12	49.50	53.50	14	0.87%	1388	86.70%	555	34.67%
Friday	1633	43.31	51.10	55.80	31	1.90%	1450	88.79%	644	39.44%
Saturday	1291	42.89	50.90	55.50	17	1.32%	1128	87.37%	491	38.03%
Sunday	894	42.62	50.40	54.84	9	1.01%	773	86.47%	384	42.95%
5day	9154	42.84	50.20	55.00	120	1.31%	8039	87.82%	3479	38.01%
7day	11339	42.83	50.30	55.00	146	1.29%	9940	87.66%	4354	38.40%



Week Commencing
18 October 2021
11 October 2021

Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
10
11
14

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
63556	49.15%	11.62%	0.37%

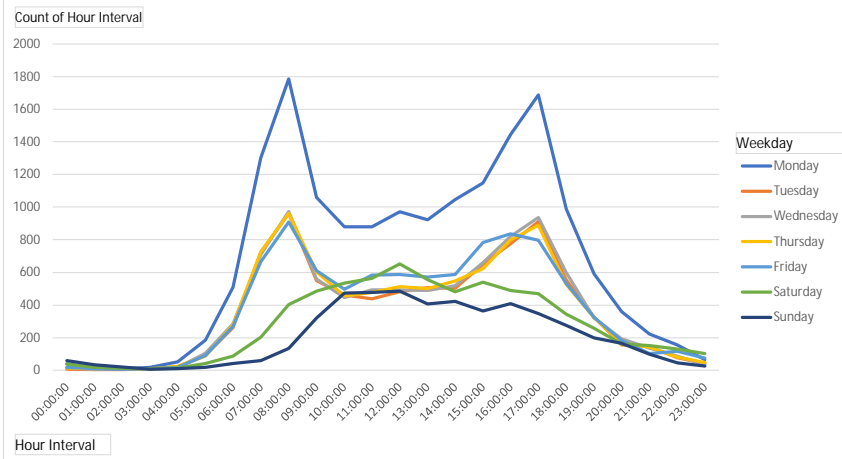
Count of	Compass direction	Column Labels		
Row Labels	W	E	Grand Total	
11 October 2021	27876	27769	55645	
18 October 2021	3944	3967	7911	
Grand Total	31820	31736	63556	

Count of	Compass direction	Column Labels	
Row Labels	W	E	
Monday	8185	8149	
Tuesday	4357	4312	
Wednesday	4492	4419	
Thursday	4439	4380	
Friday	4560	4619	
Saturday	3344	3398	
Sunday	2443	2459	
Grand Total	31820	31736	

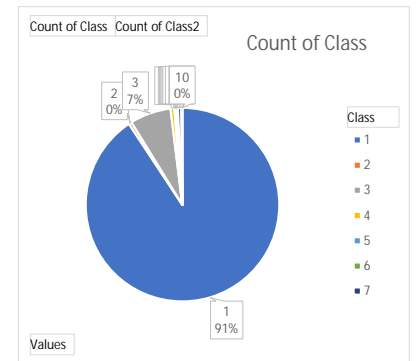
Row Labels	Count of Class	Count of Class2
1	57647	90.70%
2	306	0.48%
3	4338	6.83%
4	405	0.64%
5	109	0.17%
6	47	0.07%
7	55	0.09%
8	63	0.10%
9	92	0.14%
11	4	0.01%
14	391	0.62%
15	97	0.15%
10	2	0.00%
Grand Total	63556	100.00%

Average of Speed	Column Labels	
Row Labels	W	E
Monday	29.53	31.08
Tuesday	29.18	30.89
Wednesday	29.45	31.15
Thursday	29.21	30.98
Friday	29.60	31.25
Saturday	30.09	31.54
Sunday	30.07	31.74
Grand Total	29.54	31.18

% Over PSL	% Over ACPO	% Over DFT
49.15%	11.62%	0.37%



vehicles are travelling over posted speed limit (30mph)      vehicles are traveling 10% +2 over PSL (35mph)      vehicles are 15mph over PSL (45mph)

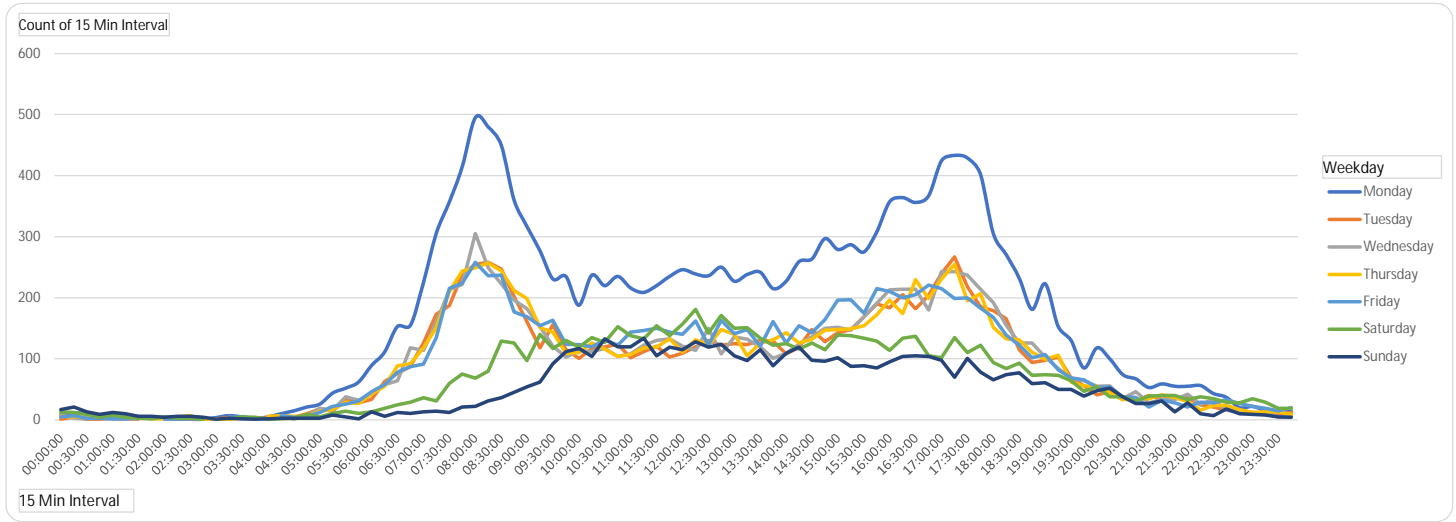


Week Commencing
11 October 2021
18 October 2021

Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
10

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
00:00:00	9	1	8	6	5	13	17	59
00:15:00	11	5	3	5	7	12	21	64
00:30:00	11	1	2	4	3	9	13	43
00:45:00	8	1	3		3	4	9	28
01:00:00	5	3	2	5	2	8	12	37
01:15:00	5	1	1	3	2	4	10	26
01:30:00		1	2		6	3	6	18
01:45:00	4			2		2	6	14
02:00:00	3	1	6	2	1	5	4	22
02:15:00	3	1		5	1	3	6	19
02:30:00	1	2	2	7	2	3	6	23
02:45:00	1	1	2	1	2	1	4	12
03:00:00	4	1	1	2			1	9
03:15:00	7	4	2	1	4	2	3	23
03:30:00	5	3	4	3	5	5	2	27
03:45:00	2	3			2	4	1	12
04:00:00	5	3	2	6		1	2	19
04:15:00	10	6	6	7	7	2	3	41
04:30:00	15	4	1	6	4	3	3	36
04:45:00	21	10	7	6	6	9	3	62
05:00:00	26	18	19	14	12	5	3	97
05:15:00	44	14	16	17	22	11	8	132
05:30:00	52	33	38	29	26	14	5	197
05:45:00	62	28	32	27	31	11	2	193

Row Labels	07-19	06-22	06-00	00-00
Monday	14117	15798	16020	16334
Tuesday	7516	8405	8524	8669
Wednesday	7697	8629	8752	8911
Thursday	7621	8533	8661	8819
Friday	7956	8833	9026	9179
Saturday	5719	6376	6608	6742
Sunday	4175	4681	4752	4902
<b>Grand Total</b>	<b>54801</b>	<b>61255</b>	<b>62343</b>	<b>63556</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	5.80	8.43
00:15:00	6.20	9.14
00:30:00	4.20	6.14
00:45:00	3.00	4.00
01:00:00	3.40	5.29
01:15:00	2.40	3.71
01:30:00	1.80	2.57
01:45:00	1.20	2.00
02:00:00	2.60	3.14
02:15:00	2.00	2.71
02:30:00	2.80	3.29
02:45:00	1.40	1.71
03:00:00	1.60	1.29
03:15:00	3.60	3.29
03:30:00	4.00	3.86
03:45:00	1.40	1.71
04:00:00	3.20	2.71
04:15:00	7.20	5.86
04:30:00	6.00	5.14
04:45:00	10.00	8.86
05:00:00	17.80	13.86
05:15:00	22.60	18.86
05:30:00	35.60	28.14
05:45:00	36.00	27.57
06:00:00	51.40	40.43

06:00:00	89	34	45	43	46	13	13	283
06:15:00	111	63	58	55	58	19	6	370
06:30:00	153	76	64	89	78	25	12	497
06:45:00	155	88	118	92	87	29	11	580
07:00:00	225	126	114	118	91	36	13	723
07:15:00	306	173	160	151	135	31	14	970
07:30:00	357	187	213	211	216	60	12	1256
07:45:00	415	238	222	244	224	75	21	1439
08:00:00	495	255	305	249	258	68	22	1652
08:15:00	480	258	249	257	236	80	31	1591
08:30:00	450	247	223	244	237	129	36	1566
08:45:00	360	202	196	212	177	126	45	1318
09:00:00	317	161	182	199	169	97	54	1179
09:15:00	277	118	153	151	154	140	62	1055
09:30:00	231	156	121	144	163	117	92	1024
09:45:00	235	115	103	109	124	130	112	928
10:00:00	188	101	113	110	123	119	117	871
10:15:00	237	117	112	126	120	135	104	951
10:30:00	220	120	117	116	131	127	133	964
10:45:00	235	124	104	104	122	153	120	962
11:00:00	216	102	108	107	144	138	120	935
11:15:00	209	112	122	118	146	133	134	974
11:30:00	220	121	130	119	150	154	105	999
11:45:00	235	103	133	133	144	138	119	1005
12:00:00	246	109	121	111	140	157	115	999
12:15:00	239	120	114	131	162	181	128	1075
12:30:00	236	130	150	122	122	142	119	1021
12:45:00	250	122	108	148	163	171	124	1086
13:00:00	227	125	136	140	141	150	105	1024
13:15:00	238	123	132	105	148	151	97	994
13:30:00	242	130	120	126	121	134	115	988
13:45:00	215	129	101	131	161	122	89	948
14:00:00	227	108	109	143	126	125	109	947
14:15:00	259	119	124	126	154	116	119	1017
14:30:00	264	148	136	132	143	126	98	1047
14:45:00	297	128	150	147	164	115	96	1097
15:00:00	279	143	152	148	196	139	102	1159
15:15:00	287	148	147	149	197	138	88	1154
15:30:00	275	169	169	154	175	134	89	1165
15:45:00	308	190	191	172	215	129	85	1290
16:00:00	357	184	213	196	210	114	95	1369
16:15:00	364	205	214	174	200	134	104	1395
16:30:00	356	182	214	230	205	137	105	1429
16:45:00	367	204	180	199	221	105	104	1380
17:00:00	424	240	243	231	215	102	98	1553
17:15:00	433	267	243	255	199	135	70	1602
17:30:00	429	218	237	195	200	110	101	1490
17:45:00	402	185	214	207	183	122	78	1391
18:00:00	305	179	192	152	168	94	66	1156
18:15:00	270	166	155	133	139	84	74	1021

06:15:00	69.00	52.86
06:30:00	92.00	71.00
06:45:00	108.00	82.86
07:00:00	134.80	103.29
07:15:00	185.00	138.57
07:30:00	236.80	179.43
07:45:00	268.60	205.57
08:00:00	312.40	236.00
08:15:00	296.00	227.29
08:30:00	280.20	223.71
08:45:00	229.40	188.29
09:00:00	205.60	168.43
09:15:00	170.60	150.71
09:30:00	163.00	146.29
09:45:00	137.20	132.57
10:00:00	127.00	124.43
10:15:00	142.40	135.86
10:30:00	140.80	137.71
10:45:00	137.80	137.43
11:00:00	135.40	133.57
11:15:00	141.40	139.14
11:30:00	148.00	142.71
11:45:00	149.60	143.57
12:00:00	145.40	142.71
12:15:00	153.20	153.57
12:30:00	152.00	145.86
12:45:00	158.20	155.14
13:00:00	153.80	146.29
13:15:00	149.20	142.00
13:30:00	147.80	141.14
13:45:00	147.40	135.43
14:00:00	142.60	135.29
14:15:00	156.40	145.29
14:30:00	164.60	149.57
14:45:00	177.20	156.71
15:00:00	183.60	165.57
15:15:00	185.60	164.86
15:30:00	188.40	166.43
15:45:00	215.20	184.29
16:00:00	232.00	195.57
16:15:00	231.40	199.29
16:30:00	237.40	204.14
16:45:00	234.20	197.14
17:00:00	270.60	221.86
17:15:00	279.40	228.86
17:30:00	255.80	212.86
17:45:00	238.20	198.71
18:00:00	199.20	165.14
18:15:00	172.60	145.86
18:30:00	145.20	128.00

18:30:00	232	115	126	131	122	93	77	896
18:45:00	181	94	126	111	102	73	59	746
19:00:00	223	98	103	99	107	74	61	765
19:15:00	154	103	84	106	82	73	50	652
19:30:00	130	69	68	62	69	64	50	512
19:45:00	85	56	64	56	66	47	39	413
20:00:00	118	41	55	55	53	54	48	424
20:15:00	100	46	56	44	54	38	52	390
20:30:00	74	38	35	33	38	38	38	294
20:45:00	67	31	46	35	37	31	27	274
21:00:00	53	40	28	35	21	39	27	243
21:15:00	59	34	33	41	32	40	31	270
21:30:00	55	36	33	37	28	40	13	242
21:45:00	55	36	42	30	21	33	28	245
22:00:00	56	25	26	16	29	38	10	200
22:15:00	43	21	33	24	28	35	7	191
22:30:00	37	16	16	24	33	29	18	173
22:45:00	20	15	13	17	27	28	10	130
23:00:00	22	12	11	12	22	35	9	123
23:15:00	16	10	13	13	19	29	8	108
23:30:00	14	8	5	13	15	19	5	79
23:45:00	14	12	6	9	20	19	4	84
Grand Total	16334	8669	8911	8819	9179	6742	4902	63556

18:45:00	122.80	106.57
19:00:00	126.00	109.29
19:15:00	105.80	93.14
19:30:00	79.60	73.14
19:45:00	65.40	59.00
20:00:00	64.40	60.57
20:15:00	60.00	55.71
20:30:00	43.60	42.00
20:45:00	43.20	39.14
21:00:00	35.40	34.71
21:15:00	39.80	38.57
21:30:00	37.80	34.57
21:45:00	36.80	35.00
22:00:00	30.40	28.57
22:15:00	29.80	27.29
22:30:00	25.20	24.71
22:45:00	18.40	18.57
23:00:00	15.80	17.57
23:15:00	14.20	15.43
23:30:00	11.00	11.29
23:45:00	12.20	12.00
Grand Total	10382.40	9079.43

Class	Axis	Access	Description	Parameters	Dimension Details	Accesses
11	017	2	1000 3	001+0.1m, 002+0.2m & access2	001+0.1m, 002+0.2m & access2	Light
12	017	3	1000 3	001+0.1m, 002+0.2m, 003+0.3m & access2, A, B	001+0.1m, 002+0.2m, 003+0.3m & access2, A, B	Light
13	017	2	1000 3	001+0.1m & access2	001+0.1m & access2	Light
14	017	3	1000 3	access2 & group2	access2 & group2	Light
15	017	2	1000 3	access2 & group2	access2 & group2	Light
16	017	3	1000 3	001+0.1m, access2 & group2	001+0.1m, access2 & group2	Light
17	017	4	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
18	017	5	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
19	017	6	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
20	017	7	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
21	017	8	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
22	017	9	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
23	017	10	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
24	017	11	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
25	017	12	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
26	017	13	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
27	017	14	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
28	017	15	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
29	017	16	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
30	017	17	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
31	017	18	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
32	017	19	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
33	017	20	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
34	017	21	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
35	017	22	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
36	017	23	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
37	017	24	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
38	017	25	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
39	017	26	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
40	017	27	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
41	017	28	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
42	017	29	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light
43	017	30	1000 3	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group2	Light

**Week Commencing**

11 October 2021

18 October 2021

**Class**

1

2

3

4

5

**Compass direction**

E

W

**Weekday**

Monday

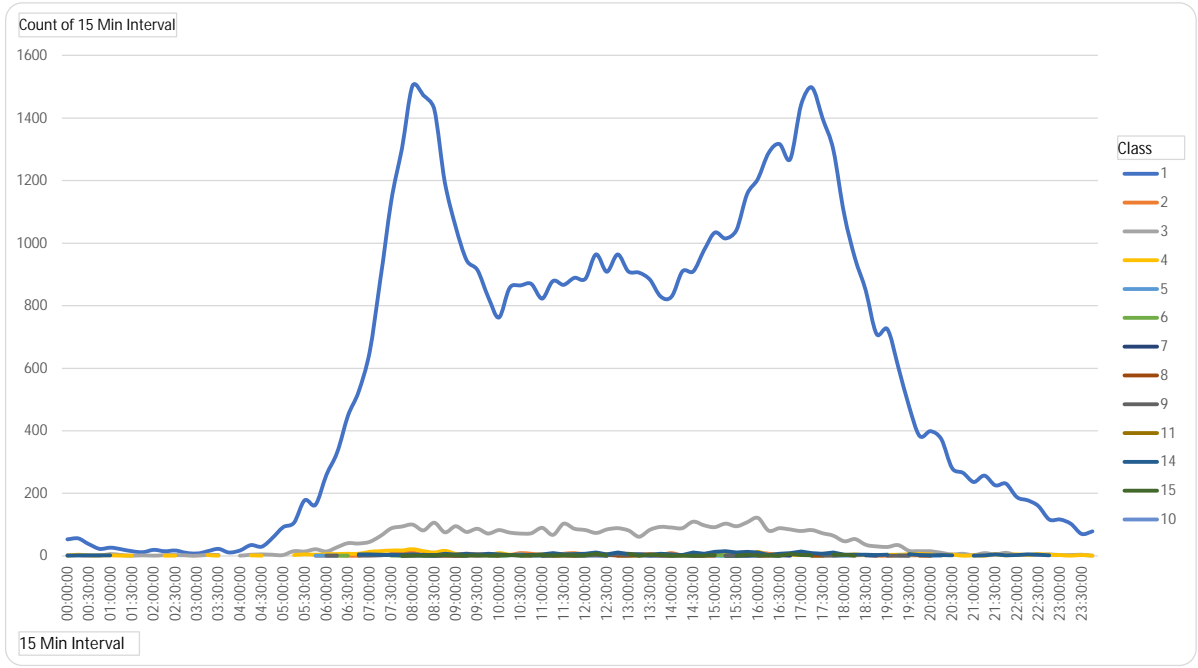
Tuesday

Wednesday

Thursday

Friday

Saturday



Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	11	14	15	10	rand Tot
00:00:00	53			3	1			1						1	59
00:15:00	56			2	4									2	64
00:30:00	38			1	2									2	43
00:45:00	23			1	2									2	28
01:00:00	27			6	2									2	37
01:15:00	22			3	1										26
01:30:00	15			1	1						1				18
01:45:00	12			2											14
02:00:00	20			1						1					22
02:15:00	15			3	1										19
02:30:00	18			3	1								1		23
02:45:00	10			2											12
03:00:00	8			1											9
03:15:00	15			4	3				1						23
03:30:00	23			3	1										27
03:45:00	11												1		12
04:00:00	18			1											19
04:15:00	35			4	2										41

Row Labels	07-19	06-22	06-00	00-00
Monday	14117	15798	16020	16334
Tuesday	7516	8405	8524	8669
Wednesday	7697	8629	8752	8911
Thursday	7621	8533	8661	8819
Friday	7956	8833	9026	9179
Saturday	5719	6376	6608	6742
Sunday	4175	4681	4752	4902
<b>Grand Total</b>	<b>54801</b>	<b>61255</b>	<b>62343</b>	<b>63556</b>

Row Labels	Average 5 Days	1 of Average 7 D
00:00:00	5.80	8.43
00:15:00	6.20	9.14
00:30:00	4.20	6.14
00:45:00	3.00	4.00
01:00:00	3.40	5.29
01:15:00	2.40	3.71
01:30:00	1.80	2.57
01:45:00	1.20	2.00
02:00:00	2.60	3.14
02:15:00	2.00	2.71
02:30:00	2.80	3.29
02:45:00	1.40	1.71
03:00:00	1.60	1.29
03:15:00	3.60	3.29
03:30:00	4.00	3.86
03:45:00	1.40	1.71
04:00:00	3.20	2.71
04:15:00	7.20	5.86
04:30:00	6.00	5.14





16:45:00	1269	5	85	4		1			10	6		1380		
17:00:00	1443	5	80	3				4	15	3		1553		
17:15:00	1498	4	83		2	1	1	1	10	2		1602		
17:30:00	1399	7	73	1		1	1	1	7			1490		
17:45:00	1297	7	65	4	1	1	1	1	11	4		1391		
18:00:00	1091	3	47	3	1			3	4	4		1156		
18:15:00	953	2	54	5	2				4	1		1021		
18:30:00	848	3	36	2		1	2		4			896		
18:45:00	709	1	31				1	1		3		746		
19:00:00	726	1	29	4				1	4			765		
19:15:00	606	2	35	4	2		1	1		1		652		
19:30:00	479	2	17	6	1			1	6			512		
19:45:00	384	2	16	6			1	1		3		413		
20:00:00	399	1	15	5	1			1		2		424		
20:15:00	374		10	2	1					3		390		
20:30:00	281		5	4			1	1		2		294		
20:45:00	266		7	1								274		
21:00:00	237		3	2					1			243		
21:15:00	257		9	1	1				2			270		
21:30:00	226	1	5	5					5			242		
21:45:00	231		10	2					2			245		
22:00:00	188	1	3	5					3			200		
22:15:00	178		4	3		1			5			191		
22:30:00	160		3	6					4			173		
22:45:00	117	1	5	4		1			2			130		
23:00:00	117		3	3								123		
23:15:00	103		3	1					1			108		
23:30:00	71		4	3		1						79		
23:45:00	79	1	1	1					2			84		
Grand Total	57647	306	4338	405	##	47	55	63	92	4	391	97	2	63556

17:00:00	270.60	221.86
17:15:00	279.40	228.86
17:30:00	255.80	212.86
17:45:00	238.20	198.71
18:00:00	199.20	165.14
18:15:00	172.60	145.86
18:30:00	145.20	128.00
18:45:00	122.80	106.57
19:00:00	126.00	109.29
19:15:00	105.80	93.14
19:30:00	79.60	73.14
19:45:00	65.40	59.00
20:00:00	64.40	60.57
20:15:00	60.00	55.71
20:30:00	43.60	42.00
20:45:00	43.20	39.14
21:00:00	35.40	34.71
21:15:00	39.80	38.57
21:30:00	37.80	34.57
21:45:00	36.80	35.00
22:00:00	30.40	28.57
22:15:00	29.80	27.29
22:30:00	25.20	24.71
22:45:00	18.40	18.57
23:00:00	15.80	17.57
23:15:00	14.20	15.43
23:30:00	11.00	11.29
23:45:00	12.20	12.00
Grand Total	10382.40	9079.43

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	16334	30.30	34.20	37.40	7957	48.71%	1796	11.00%	54	0.33%
Tuesday	8669	30.03	33.80	36.86	4054	46.76%	838	9.67%	28	0.32%
Wednesday	8911	30.29	34.10	37.60	4249	47.68%	1024	11.49%	35	0.39%
Thursday	8819	30.09	33.90	37.30	4045	45.87%	941	10.67%	42	0.48%
Friday	9179	30.43	34.40	37.70	4634	50.48%	1125	12.26%	27	0.29%
Saturday	6742	30.82	34.80	37.90	3619	53.68%	927	13.75%	28	0.42%
Sunday	4902	30.91	35.10	38.60	2681	54.69%	737	15.03%	21	0.43%
5day	51912	30.24	34.10	37.40	24939	48.04%	5724	11.03%	186	0.36%
7day	63556	30.35	34.20	37.60	31239	49.15%	7388	11.62%	235	0.37%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 6



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

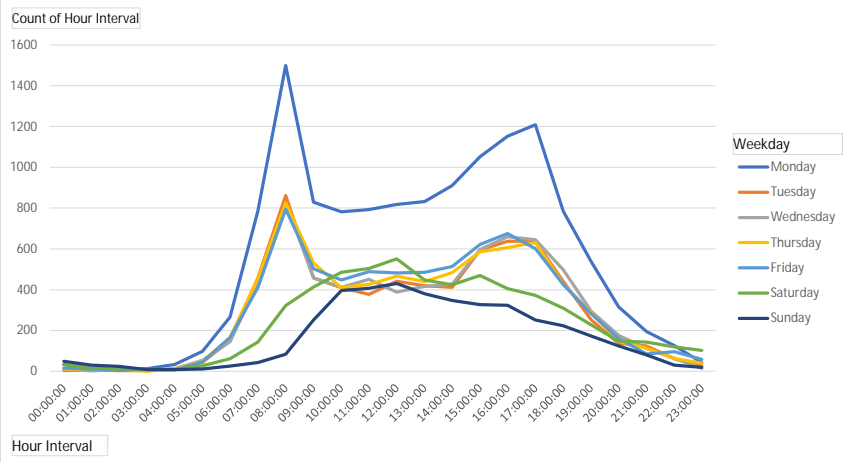
Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
10
14
15

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
51595	8.99%	0.00%	0.00%

Count of Compass direction	Column Labels	N	S	Grand Total
11 October 2021		22765	22392	45157
18 October 2021		3202	3236	6438
Grand Total		25967	25628	51595



Count of	Compass direction	Column Labels	N	S
Monday			6596	6531
Tuesday			3495	3485
Wednesday			3593	3514
Thursday			3584	3608
Friday			3707	3681
Saturday			2946	2807
Sunday			2046	2002
Grand Total			25967	25628

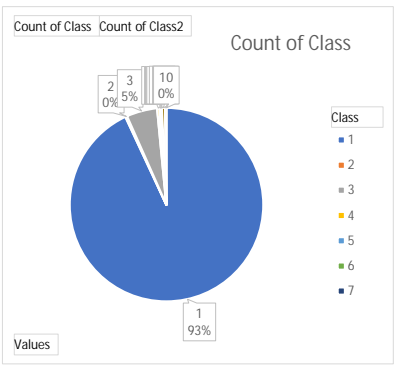
Average of Speed	Column Labels	N	S
Monday		26.77	17.67
Tuesday		26.65	18.19
Wednesday		26.58	17.77
Thursday		26.56	17.55
Friday		26.83	17.84
Saturday		27.00	17.42
Sunday		27.10	17.45
Grand Total		26.76	17.72

% Over PSL	% Over ACPO	% Over DFT
8.99%	0.00%	0.00%

vehicles are travelling over posted speed limit (30mph)      vehicles are traveling 10% +2 over PSL (35mph)      vehicles are 15mph over PSL (45mph)



Row Labels	Count of Class	Count of Class2
1	48008	93.05%
2	153	0.30%
3	2632	5.10%
4	228	0.44%
5	92	0.18%
6	42	0.08%
7	27	0.05%
8	16	0.03%
9	21	0.04%
14	257	0.50%
15	117	0.23%
10	2	0.00%
Grand Total	51595	100.00%

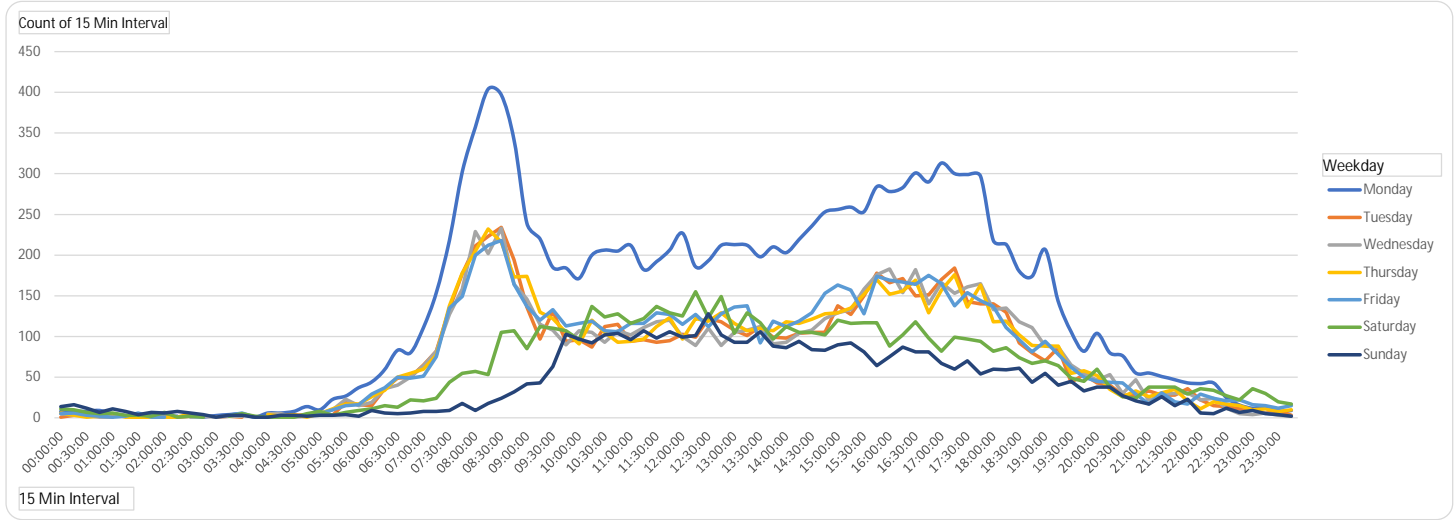


Week Commencing
11 October 2021
18 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
10

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Grand Total
00:00:00	8	1	5	6	5	11	14	50
00:15:00	8	3	3	3	6	10	16	49
00:30:00	8		3	1	3	7	12	34
00:45:00	9		1	2	2	5	7	26
01:00:00	5	2	1	5	1	6	11	31
01:15:00	3	2		1	2	3	8	19
01:30:00	1	1	1	1	6	3	4	17
01:45:00	5	1		1	1	2	7	17
02:00:00	2		5	1	1	7	6	22
02:15:00	2	1		1		1	8	13
02:30:00		2	1	5	2	2	6	18
02:45:00	1		2	1	1	1	4	10
03:00:00	3	1	1				1	6
03:15:00	4	2	2		3	2	3	16
03:30:00	5	1	2	1	6	5	3	23
03:45:00	1				1	2	1	5
04:00:00	6	3		4		1	1	20
04:15:00	6	3	5	2	3	1	3	23
04:30:00	8	3	1	4		1	3	20
04:45:00	14	4	2	1	4	5	2	32
05:00:00	10	6	5	5	5	8	3	42
05:15:00	23	3	10	11	10	3	3	63
05:30:00	27	19	23	17	15	7	4	112
05:45:00	37	16	15	17	16	9	2	112

Row Labels	07-19	06-22	06-00	00-00
Monday	11446	12762	12931	13127
Tuesday	6150	6816	6906	6980
Wednesday	6209	6936	7014	7107
Thursday	6287	7000	7102	7192
Friday	6446	7141	7295	7388
Saturday	4849	5429	5651	5753
Sunday	3462	3866	3916	4048
<b>Grand Total</b>	<b>44849</b>	<b>49950</b>	<b>50815</b>	<b>51595</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	5.00	7.14
00:15:00	4.60	7.00
00:30:00	3.00	4.86
00:45:00	2.80	3.71
01:00:00	2.80	4.43
01:15:00	1.60	2.71
01:30:00	2.00	2.43
01:45:00	1.60	2.43
02:00:00	1.80	3.14
02:15:00	0.80	1.86
02:30:00	2.00	2.57
02:45:00	1.00	1.43
03:00:00	1.00	0.86
03:15:00	2.20	2.29
03:30:00	3.00	3.29
03:45:00	0.40	0.71
04:00:00	3.60	2.86
04:15:00	3.80	3.29
04:30:00	3.20	2.86
04:45:00	5.00	4.57
05:00:00	6.20	6.00
05:15:00	11.40	9.00
05:30:00	20.20	16.00
05:45:00	20.20	16.00
06:00:00	26.60	21.86

06:00:00	44	15	19	26	29	11	9	153
06:15:00	59	36	36	34	37	15	6	223
06:30:00	83	49	40	50	50	13	5	290
06:45:00	80	50	50	55	49	22	6	312
07:00:00	111	65	64	60	51	21	8	380
07:15:00	154	82	82	77	75	24	8	502
07:30:00	218	134	127	138	135	44	9	805
07:45:00	302	177	158	178	149	55	18	1037
08:00:00	357	211	229	205	200	57	9	1268
08:15:00	404	223	202	232	212	53	18	1344
08:30:00	397	234	233	216	218	105	24	1427
08:45:00	341	194	164	173	164	107	32	1175
09:00:00	239	136	146	174	137	85	42	959
09:15:00	220	97	115	130	120	112	43	837
09:30:00	185	131	108	122	133	110	63	852
09:45:00	184	94	90	105	113	107	103	796
10:00:00	171	96	107	91	116	96	97	774
10:15:00	200	87	105	120	119	137	92	860
10:30:00	206	112	93	105	107	124	102	849
10:45:00	205	115	107	93	106	128	104	858
11:00:00	212	94	102	94	116	116	96	830
11:15:00	182	96	111	97	116	122	107	831
11:30:00	192	93	118	112	129	137	98	879
11:45:00	206	95	120	123	127	129	106	906
12:00:00	227	103	100	97	115	125	99	866
12:15:00	186	99	89	122	127	155	101	879
12:30:00	193	122	110	119	112	123	128	907
12:45:00	212	118	89	129	128	149	102	927
13:00:00	213	108	105	116	136	104	93	875
13:15:00	212	101	108	107	138	129	93	888
13:30:00	198	112	112	110	92	117	106	847
13:45:00	210	99	91	107	119	97	88	811
14:00:00	203	98	93	118	112	112	86	822
14:15:00	219	104	104	116	119	105	94	861
14:30:00	236	105	108	121	129	105	84	888
14:45:00	253	105	122	128	153	102	83	946
15:00:00	256	138	129	129	163	120	90	1025
15:15:00	259	127	133	135	157	116	92	1019
15:30:00	253	150	158	152	128	117	81	1039
15:45:00	284	178	176	170	174	117	64	1163
16:00:00	278	166	183	152	169	88	75	1111
16:15:00	283	171	154	156	167	102	87	1120
16:30:00	301	150	182	169	164	118	81	1165
16:45:00	290	151	140	129	175	98	81	1064
17:00:00	313	170	166	157	165	82	67	1120
17:15:00	300	184	153	176	138	99	60	1110
17:30:00	299	143	161	136	154	97	70	1060
17:45:00	297	140	165	163	144	94	54	1057
18:00:00	218	140	133	118	137	82	60	888
18:15:00	213	130	135	119	111	86	59	853

06:15:00	40.40	31.86
06:30:00	54.40	41.43
06:45:00	56.80	44.57
07:00:00	70.20	54.29
07:15:00	94.00	71.71
07:30:00	150.40	115.00
07:45:00	192.80	148.14
08:00:00	240.40	181.14
08:15:00	254.60	192.00
08:30:00	259.60	203.86
08:45:00	207.20	167.86
09:00:00	166.40	137.00
09:15:00	136.40	119.57
09:30:00	135.80	121.71
09:45:00	117.20	113.71
10:00:00	116.20	110.57
10:15:00	126.20	122.86
10:30:00	124.60	121.29
10:45:00	125.20	122.57
11:00:00	123.60	118.57
11:15:00	120.40	118.71
11:30:00	128.80	125.57
11:45:00	134.20	129.43
12:00:00	128.40	123.71
12:15:00	124.60	125.57
12:30:00	131.20	129.57
12:45:00	135.20	132.43
13:00:00	135.60	125.00
13:15:00	133.20	126.86
13:30:00	124.80	121.00
13:45:00	125.20	115.86
14:00:00	124.80	117.43
14:15:00	132.40	123.00
14:30:00	139.80	126.86
14:45:00	152.20	135.14
15:00:00	163.00	146.43
15:15:00	162.20	145.57
15:30:00	168.20	148.43
15:45:00	196.40	166.14
16:00:00	189.60	158.71
16:15:00	186.20	160.00
16:30:00	193.20	166.43
16:45:00	177.00	152.00
17:00:00	194.20	160.00
17:15:00	190.20	158.57
17:30:00	178.60	151.43
17:45:00	181.80	151.00
18:00:00	149.20	126.86
18:15:00	141.60	121.86
18:30:00	117.60	103.29

18:30:00	180	92	118	102	96	74	61	723
18:45:00	174	80	111	89	81	67	44	646
19:00:00	207	70	88	88	94	70	55	672
19:15:00	144	86	87	88	78	64	40	587
19:30:00	106	44	65	55	62	49	45	426
19:45:00	82	53	55	58	50	45	33	376
20:00:00	104	43	46	52	45	60	38	388
20:15:00	80	40	53	35	44	38	38	328
20:30:00	76	28	30	26	43	26	27	256
20:45:00	55	27	47	33	29	24	21	236
21:00:00	55	33	21	26	17	38	17	207
21:15:00	51	28	29	31	31	38	26	234
21:30:00	47	28	30	35	20	38	15	213
21:45:00	43	36	31	21	17	29	23	200
22:00:00	42	22	22	11	29	36	6	168
22:15:00	43	15	24	20	24	34	5	165
22:30:00	25	14	12	17	21	27	12	128
22:45:00	16	11	5	15	22	22	7	98
23:00:00	12	10	4	10	16	36	9	97
23:15:00	14	6	6	11	15	30	5	87
23:30:00	8	9	3	8	12	20	4	64
23:45:00	9	3	2	10	15	17	2	58
Grand Total	13127	6980	7107	7192	7388	5753	4048	51595

18:45:00	107.00	92.29
19:00:00	109.40	96.00
19:15:00	96.60	83.86
19:30:00	66.40	60.86
19:45:00	59.60	53.71
20:00:00	58.00	55.43
20:15:00	50.40	46.86
20:30:00	40.60	36.57
20:45:00	38.20	33.71
21:00:00	30.40	29.57
21:15:00	34.00	33.43
21:30:00	32.00	30.43
21:45:00	29.60	28.57
22:00:00	25.20	24.00
22:15:00	25.20	23.57
22:30:00	17.80	18.29
22:45:00	13.80	14.00
23:00:00	10.40	13.86
23:15:00	10.40	12.43
23:30:00	8.00	9.14
23:45:00	7.80	8.29
Grand Total	8358.80	7370.71



Class	Axis	Access	Description	Parameters	Dimension Details	Attributes
1	01	2	Short - One sign (in)	011+0.1m, 012+0.2m & access2		Light
2	017	3	Short Towing (Trailer) Caravan, Boat, etc	group2=1, 022+0.3m, 023+0.3m, 022+0.3m & access2, A, B		Medium
3	083	2	Two axle truck or Bus	021+0.2m & access1		Medium
4	083	2	Three axle truck or Bus	access2 & group2=2		Medium
5	14	2	Four axle truck	access2 & group2=2		Medium
6	0170	3	Three axle articulated vehicle or rigid vehicle and trailer	021+0.2m, access2 & group2=2		Heavy
7	0170	3	Four axle articulated vehicle or rigid vehicle and trailer	022+0.2m or 023+0.2m or 023+0.2m axle + A & group2=2		Heavy
8	0170	3	Five axle articulated vehicle or rigid vehicle and trailer	022+0.2m or 023+0.2m or 023+0.2m axle + B & group2=2		Heavy
9	0170	3	Six (or more) axle articulated vehicle or rigid vehicle and trailer	access2 & group2=2 or access2 & group2=3		Heavy
10	001	4	8. Double or Heavy truck and trailer	group2 & access10		Heavy
11	001	4	9. Double road train or Heavy truck and two trailers	group2 & access10		Heavy
12	001	4	10. Triple road train or Heavy truck and three (or more) trailers	group2 & access10		Heavy
13	002	2	Multibeam	011+0.14m, 011+0.2m & access2=2		Light
14	0170	2	Trailer	021+0.3m & access2		Light

**Week Commencing**

11 October 2021

18 October 2021

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**Class**

1

2

3

4

5

**Compass direction**

N

S

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**Weekday**

Monday

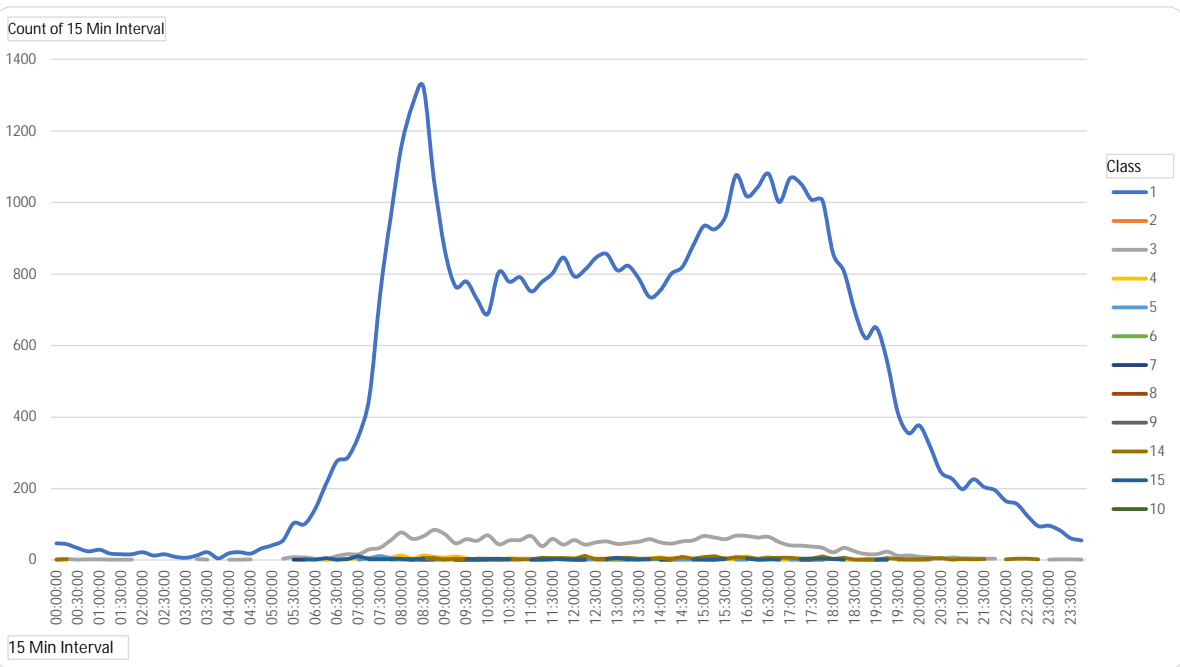
Tuesday

Wednesday

Thursday

Friday

Saturday



Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	14	15	10	Grand Total
00:00:00	47			2									1	50
00:15:00	44			3									2	49
00:30:00	33			1										34
00:45:00	24			2										26
01:00:00	29			2										31
01:15:00	18			1										19
01:30:00	16			1										17
01:45:00	16			1										17
02:00:00	22													22
02:15:00	13													13
02:30:00	16				1							1		18
02:45:00	9						1							10
03:00:00	6													6
03:15:00	13						3							16
03:30:00	22						1							23
03:45:00	5													5
04:00:00	19						1							20
04:15:00	22						1							23

Row Labels	07-19	06-22	06-00	00-00
Monday	11446	12762	12931	13127
Tuesday	6150	6816	6906	6980
Wednesday	6209	6936	7014	7107
Thursday	6287	7000	7102	7192
Friday	6446	7141	7295	7388
Saturday	4849	5429	5651	5753
Sunday	3462	3866	3916	4048
<b>Grand Total</b>	<b>44849</b>	<b>49950</b>	<b>50815</b>	<b>51595</b>

Row Labels	Average 5 Days	σ of Average 7 Days
00:00:00	5.00	7.14
00:15:00	4.60	7.00
00:30:00	3.00	4.86
00:45:00	2.80	3.71
01:00:00	2.80	4.43
01:15:00	1.60	2.71
01:30:00	2.00	2.43
01:45:00	1.60	2.43
02:00:00	1.80	3.14
02:15:00	0.80	1.86
02:30:00	2.00	2.57
02:45:00	1.00	1.43
03:00:00	1.00	0.86
03:15:00	2.20	2.29
03:30:00	3.00	3.29
03:45:00	0.40	0.71
04:00:00	3.60	2.86
04:15:00	3.80	3.29
04:30:00	3.20	2.86

04:30:00	18		2																			20
04:45:00	32																					32
05:00:00	41							1														42
05:15:00	55		4										4									63
05:30:00	103		8					1														112
05:45:00	100		7	1				1	1						2							112
06:00:00	144		4	3						1					1							153
06:15:00	212		2	1	2										1	5						223
06:30:00	276		11	2												1						290
06:45:00	287		1	16	2					1					2	3						312
07:00:00	347			16	5	1										11						380
07:15:00	453		2	30	6	5	1								2	3						502
07:30:00	741		3	34	10	11							1	3	2							805
07:45:00	963		2	56	7	5	1									3						1037
08:00:00	1159		5	77	13	3	2	1				2	2	4								1268
08:15:00	1272		2	59	4	2	2								2	1						1344
08:30:00	1324		6	66	13	5	1			1	1	5	4	1								1427
08:45:00	1066		2	84	9	3	1			3	2	5										1175
09:00:00	869		2	73	7	2	3								1	2						959
09:15:00	765		5	47	10	2	1	1	2						4							837
09:30:00	779		1	58	5	2		1	1	1	1	1	1	3								852
09:45:00	729		4	54	1	1				1		4	2									796
10:00:00	689		4	69	2	3	1			1		2	3									774
10:15:00	805		3	44	1	1	1						1	4								860
10:30:00	778		3	55	5	2	1							3	2							849
10:45:00	791		4	56	3		1			1				2								858
11:00:00	751		4	67	3	1					1	2	1									830
11:15:00	778		3	39	1	1	1							6	2							831
11:30:00	802		3	59	1	4	1			1				5	3							879
11:45:00	846		3	43	5	2									5	2						906
12:00:00	793		1	56	5	2	1	2				1	4	1								866
12:15:00	812		3	43	4	1		1	1					12	2							879
12:30:00	845		4	49	3	2								2	2							907
12:45:00	856		3	52	4	3	1					1	4	3								927
13:00:00	810		2	45	5		1							5	7							875
13:15:00	823		2	48	2	1	1	2							7	2						888
13:30:00	786		2	51	3										4	1						847
13:45:00	735		5	58	4	2								2	3	2						811
14:00:00	755		3	49	7	2		1							5							822
14:15:00	801		5	46	2	1	2	1							2	1						861
14:30:00	819		5	52	2	1									9							888
14:45:00	878		2	55	2	2	1								4	2						946
15:00:00	934		4	67	6	2	3								8	1						1025
15:15:00	925		3	63	8	1	1	6							11	1						1019
15:30:00	961		5	58	4		2					1	3	4	1							1039
15:45:00	1076		5	68	2	1		3							8							1163
16:00:00	1017		5	67	10	1									7	4						1111
16:15:00	1043		1	63	3		5								4	1						1120
16:30:00	1081		2	65	8			1		1	5	2										1165

04:45:00	5.00	4.57
05:00:00	6.20	6.00
05:15:00	11.40	9.00
05:30:00	20.20	16.00
05:45:00	20.20	16.00
06:00:00	26.60	21.86
06:15:00	40.40	31.86
06:30:00	54.40	41.43
06:45:00	56.80	44.57
07:00:00	70.20	54.29
07:15:00	94.00	71.71
07:30:00	150.40	115.00
07:45:00	192.80	148.14
08:00:00	240.40	181.14
08:15:00	254.60	192.00
08:30:00	259.60	203.86
08:45:00	207.20	167.86
09:00:00	166.40	137.00
09:15:00	136.40	119.57
09:30:00	135.80	121.71
09:45:00	117.20	113.71
10:00:00	116.20	110.57
10:15:00	126.20	122.86
10:30:00	124.60	121.29
10:45:00	125.20	122.57
11:00:00	123.60	118.57
11:15:00	120.40	118.71
11:30:00	128.80	125.57
11:45:00	134.20	129.43
12:00:00	128.40	123.71
12:15:00	124.60	125.57
12:30:00	131.20	129.57
12:45:00	135.20	132.43
13:00:00	135.60	125.00
13:15:00	133.20	126.86
13:30:00	124.80	121.00
13:45:00	125.20	115.86
14:00:00	124.80	117.43
14:15:00	132.40	123.00
14:30:00	139.80	126.86
14:45:00	152.20	135.14
15:00:00	163.00	146.43
15:15:00	162.20	145.57
15:30:00	168.20	148.43
15:45:00	196.40	166.14
16:00:00	189.60	158.71
16:15:00	186.20	160.00
16:30:00	193.20	166.43
16:45:00	177.00	152.00

16:45:00	1001	5	50	1				6	1	1064
17:00:00	1068	2	41	2	1			6		1120
17:15:00	1053	3	40	4	1	1	1	4	3	1110
17:30:00	1007	1	38	2	1	1	1	1	4	1060
17:45:00	1006	1	34	1		1		10	4	1057
18:00:00	855		22	4	1			3	3	888
18:15:00	808	2	34	1				7	1	853
18:30:00	696		24	1		1		1		723
18:45:00	621	3	17	2	1			1	1	646
19:00:00	650	2	16	1	1			1	1	672
19:15:00	555	2	23	1				5	1	587
19:30:00	410		12		1			3		426
19:45:00	355	3	13	1	1	1		2		376
20:00:00	376		9		1			2		388
20:15:00	316		7		1			4		328
20:30:00	245	1	4	1				5		256
20:45:00	228		7					1		236
21:00:00	198		5					3	1	207
21:15:00	226		5	1				2		234
21:30:00	204	2	4					3		213
21:45:00	195		4		1					200
22:00:00	165	1						2		168
22:15:00	157		2			1	1	4		165
22:30:00	124							4		128
22:45:00	95	1						2		98
23:00:00	96		1							97
23:15:00	83		2		1			1		87
23:30:00	61		2			1				64
23:45:00	55		1		1		1			58
Grand Total	48008	153	2632	228	92	42	27	16	21	## 117 2 51595

17:00:00	194.20	160.00
17:15:00	190.20	158.57
17:30:00	178.60	151.43
17:45:00	181.80	151.00
18:00:00	149.20	126.86
18:15:00	141.60	121.86
18:30:00	117.60	103.29
18:45:00	107.00	92.29
19:00:00	109.40	96.00
19:15:00	96.60	83.86
19:30:00	66.40	60.86
19:45:00	59.60	53.71
20:00:00	58.00	55.43
20:15:00	50.40	46.86
20:30:00	40.60	36.57
20:45:00	38.20	33.71
21:00:00	30.40	29.57
21:15:00	34.00	33.43
21:30:00	32.00	30.43
21:45:00	29.60	28.57
22:00:00	25.20	24.00
22:15:00	25.20	23.57
22:30:00	17.80	18.29
22:45:00	13.80	14.00
23:00:00	10.40	13.86
23:15:00	10.40	12.43
23:30:00	8.00	9.14
23:45:00	7.80	8.29
Grand Total	8358.80	7370.71

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

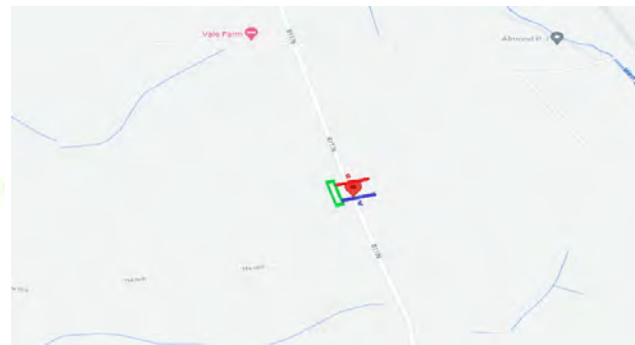
Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	13127	22.24	28.70	31.60	1183	9.01%	0	0.00%	0	0.00%
Tuesday	6980	22.42	28.60	31.60	602	8.62%	0	0.00%	0	0.00%
Wednesday	7107	22.22	28.60	31.50	611	8.60%	0	0.00%	0	0.00%
Thursday	7192	22.04	28.40	31.10	535	7.44%	0	0.00%	0	0.00%
Friday	7388	22.35	28.70	31.70	691	9.35%	0	0.00%	0	0.00%
Saturday	5753	22.33	28.80	32.00	571	9.93%	0	0.00%	0	0.00%
Sunday	4048	22.33	29.10	32.30	447	11.04%	0	0.00%	0	0.00%
5day	41794	22.25	28.60	31.50	3622	8.67%	0	0.00%	0	0.00%
7day	51595	22.27	28.70	31.70	4640	8.99%	0	0.00%	0	0.00%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 7



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
14
15

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
11042	18.88%	5.98%	1.98%

Count of	Compass direction	Column Labels		
Row Labels	N	S	Grand Total	
11 October 2021	5003	4738	9741	
18 October 2021	658	643	1301	
Grand Total	5661	5381	11042	

Count of	Compass direction	Column Labels	
Row Labels	N	S	
Monday	1392	1326	
Tuesday	754	729	
Wednesday	825	754	
Thursday	800	778	
Friday	823	763	
Saturday	652	597	
Sunday	415	434	
Grand Total	5661	5381	

Row Labels	Count of Class	Count of Class2
1	9008	81.58%
2	113	1.02%
3	1402	12.70%
4	114	1.03%
5	105	0.95%
6	15	0.14%
7	34	0.31%
8	22	0.20%
9	44	0.40%
14	96	0.87%
15	89	0.81%
Grand Total	11042	100.00%

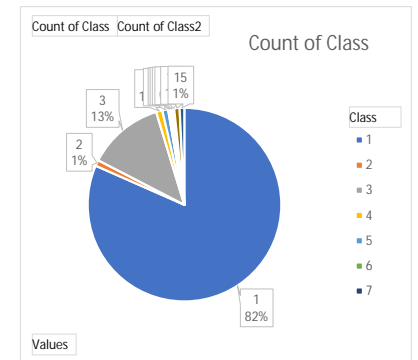
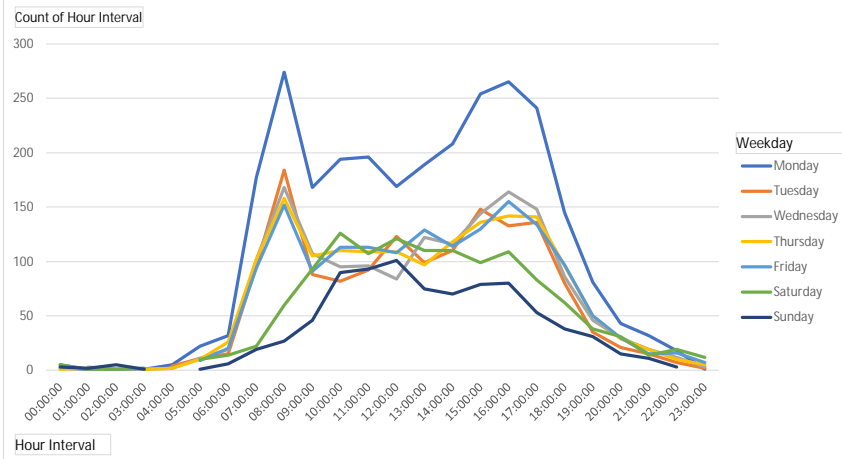
Average of Speed	Column Labels	
Row Labels	N	S
Monday	45.70	56.73
Tuesday	44.55	56.76
Wednesday	44.90	56.32
Thursday	45.23	56.50
Friday	46.01	57.46
Saturday	45.30	56.74
Sunday	45.03	55.97
Grand Total	45.31	56.69

% Over PSL	% Over ACPO	% Over DFT
18.88%	5.98%	1.98%

vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)

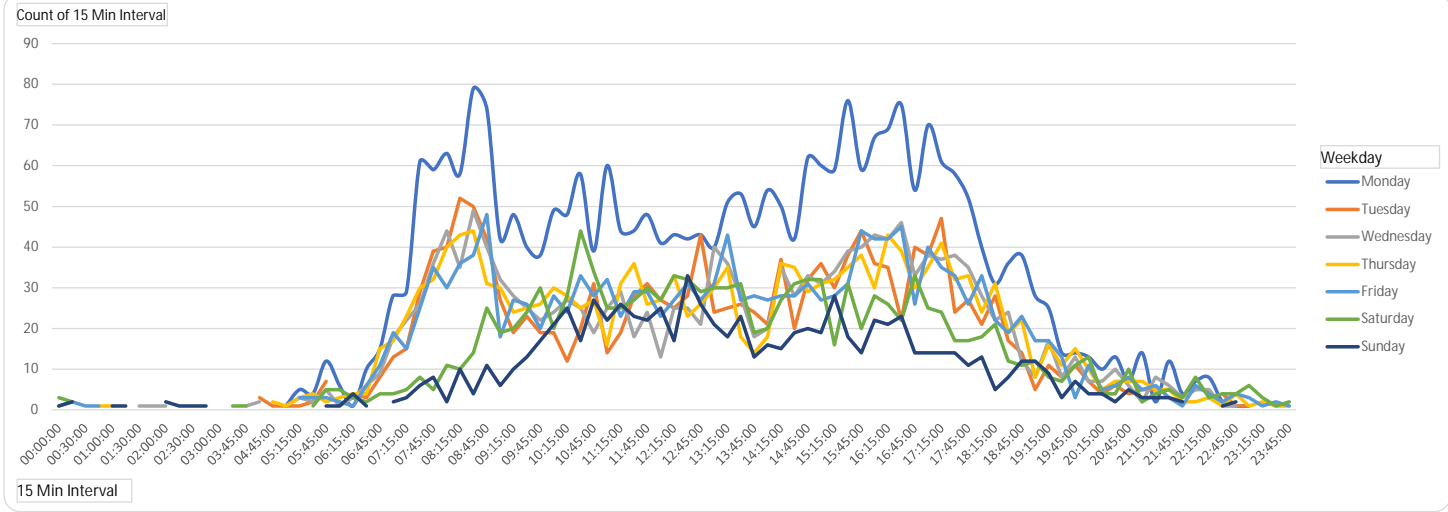


Week Commencing
11 October 2021
18 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
14

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
00:00:00	1				1	3	1	6
00:15:00					2	2	2	6
00:30:00	1				1			2
00:45:00				1	1			2
01:00:00			1	1		1		4
01:15:00							1	1
01:30:00	1		1	1				3
01:45:00		1	1		1			3
02:00:00			1			1		4
02:15:00		1					1	2
02:30:00							1	1
02:45:00					1		1	2
03:00:00	1			1				2
03:15:00					2	1	1	4
03:45:00			1			1		2
04:00:00	5	3	2					10
04:45:00		1		2				3
05:00:00	1	1	1	1		4		8
05:15:00	5	1	3	3	3			15
05:30:00	4	2	2	4	3	1		16
05:45:00	12	7	5	2	3	5	1	35
06:00:00	6		1	3	2	5	1	18
06:15:00	1	4	3	4	1	3	4	20
06:30:00	10	3	6	4	6	2	1	32

Row Labels	07-19	06-22	06-00	00-00
Monday	2480	2668	2687	2718
Tuesday	1371	1457	1466	1483
Wednesday	1432	1546	1561	1579
Thursday	1423	1547	1562	1578
Friday	1430	1545	1568	1586
Saturday	1102	1199	1230	1249
Sunday	771	834	837	849
<b>Grand Total</b>	<b>10009</b>	<b>10796</b>	<b>10911</b>	<b>11042</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	0.40	0.86
00:15:00	0.40	0.86
00:30:00	0.40	0.29
00:45:00	0.40	0.29
01:00:00	0.40	0.57
01:15:00	0.00	0.14
01:30:00	0.60	0.43
01:45:00	0.60	0.43
02:00:00	0.20	0.57
02:15:00	0.20	0.29
02:30:00	0.00	0.14
02:45:00	0.20	0.29
03:00:00	0.40	0.29
03:15:00	0.40	0.57
03:45:00	0.20	0.29
04:00:00	2.00	1.43
04:45:00	0.60	0.43
05:00:00	0.80	1.14
05:15:00	3.00	2.14
05:30:00	3.00	2.29
05:45:00	5.80	5.00
06:00:00	2.40	2.57
06:15:00	2.60	2.86
06:30:00	5.80	4.57
06:45:00	11.60	8.86

06:45:00	15	8	9	15	11	4		62
07:00:00	28	13	18	17	19	4	2	101
07:15:00	29	15	22	23	15	5	3	112
07:30:00	61	29	26	30	25	8	6	185
07:45:00	59	39	36	32	35	5	8	214
08:00:00	63	40	44	40	30	11	2	230
08:15:00	58	52	35	43	36	10	10	244
08:30:00	79	50	49	44	38	14	4	278
08:45:00	74	42	40	31	48	25	11	271
09:00:00	42	27	32	30	18	19	6	174
09:15:00	48	19	28	24	27	20	10	176
09:30:00	40	23	25	25	26	24	13	176
09:45:00	38	19	22	26	20	30	17	172
10:00:00	49	19	24	30	28	20	21	191
10:15:00	48	12	27	28	24	28	25	192
10:30:00	58	20	25	25	33	44	17	222
10:45:00	39	31	19	27	28	34	27	205
11:00:00	60	14	25	16	32	25	22	194
11:15:00	44	19	29	31	23	25	26	197
11:30:00	44	28	18	36	29	27	23	205
11:45:00	48	31	24	26	29	30	22	210
12:00:00	41	27	13	27	23	27	25	183
12:15:00	43	25	25	33	27	33	17	203
12:30:00	42	28	25	23	31	32	33	214
12:45:00	43	43	21	26	27	29	26	215
13:00:00	40	24	40	30	31	30	21	216
13:15:00	51	25	36	35	43	30	18	238
13:30:00	53	26	28	18	27	31	23	206
13:45:00	45	24	18	14	28	19	13	161
14:00:00	54	21	20	18	27	20	16	176
14:15:00	50	37	35	36	28	27	15	228
14:30:00	42	20	28	35	28	31	19	203
14:45:00	62	32	33	29	31	32	20	239
15:00:00	60	36	31	31	27	32	19	236
15:15:00	59	30	34	32	28	16	28	227
15:30:00	76	38	39	35	31	31	18	268
15:45:00	59	44	40	38	44	20	14	259
16:00:00	67	36	43	30	42	28	22	268
16:15:00	69	35	42	43	42	26	21	278
16:30:00	75	22	46	39	45	22	23	272
16:45:00	54	40	33	30	26	33	14	230
17:00:00	70	38	38	35	40	25	14	260
17:15:00	61	47	37	41	35	24	14	259
17:30:00	58	24	38	32	33	17	14	216
17:45:00	52	27	35	33	26	17	11	201
18:00:00	40	21	28	24	33	18	13	177
18:15:00	31	28	22	31	22	21	5	160
18:30:00	36	17	24	19	19	12	8	135
18:45:00	38	14	12	22	23	11	12	132
19:00:00	28	5	8	8	17	12	12	90

07:00:00	19.00	14.43
07:15:00	20.80	16.00
07:30:00	34.20	26.43
07:45:00	40.20	30.57
08:00:00	43.40	32.86
08:15:00	44.80	34.86
08:30:00	52.00	39.71
08:45:00	47.00	38.71
09:00:00	29.80	24.86
09:15:00	29.20	25.14
09:30:00	27.80	25.14
09:45:00	25.00	24.57
10:00:00	30.00	27.29
10:15:00	27.80	27.43
10:30:00	32.20	31.71
10:45:00	28.80	29.29
11:00:00	29.40	27.71
11:15:00	29.20	28.14
11:30:00	31.00	29.29
11:45:00	31.60	30.00
12:00:00	26.20	26.14
12:15:00	30.60	29.00
12:30:00	29.80	30.57
12:45:00	32.00	30.71
13:00:00	33.00	30.86
13:15:00	38.00	34.00
13:30:00	30.40	29.43
13:45:00	25.80	23.00
14:00:00	28.00	25.14
14:15:00	37.20	32.57
14:30:00	30.60	29.00
14:45:00	37.40	34.14
15:00:00	37.00	33.71
15:15:00	36.60	32.43
15:30:00	43.80	38.29
15:45:00	45.00	37.00
16:00:00	43.60	38.29
16:15:00	46.20	39.71
16:30:00	45.40	38.86
16:45:00	36.60	32.86
17:00:00	44.20	37.14
17:15:00	44.20	37.00
17:30:00	37.00	30.86
17:45:00	34.60	28.71
18:00:00	29.20	25.29
18:15:00	26.80	22.86
18:30:00	23.00	19.29
18:45:00	21.80	18.86
19:00:00	13.20	12.86
19:15:00	17.20	14.71



19:15:00	25	11	17	16	17	8	9	103
19:30:00	14	8	8	11	13	7	3	64
19:45:00	14	11	13	15	3	11	7	74
20:00:00	13	7	7	10	11	13	4	65
20:15:00	10	4	7	5	5	4	4	39
20:30:00	13	6	10	7	6	4	2	48
20:45:00	7	4	6	7	8	10	5	47
21:00:00	14	5	2	7	5	2	3	38
21:15:00	2	5	8	5	6	4	3	33
21:30:00	12	5	6	5	3	5	3	39
21:45:00	4		3	2	1	3	2	15
22:00:00	7	2	5	2	6	8		30
22:15:00	8		5	3	4	3		23
22:30:00	2	4	1	1	2	4	1	15
22:45:00	1	1	1	4	4	4	2	17
23:00:00	1	1		1	3	6		12
23:15:00			2	2	1	3		8
23:30:00		1		1	2	1		5
23:45:00			1	1	1	2		5
Grand Total	2718	1483	1579	1578	1586	1249	849	11042

19:30:00	10.80	9.14
19:45:00	11.20	10.57
20:00:00	9.60	9.29
20:15:00	6.20	5.57
20:30:00	8.40	6.86
20:45:00	6.40	6.71
21:00:00	6.60	5.43
21:15:00	5.20	4.71
21:30:00	6.20	5.57
21:45:00	2.00	2.14
22:00:00	4.40	4.29
22:15:00	4.00	3.29
22:30:00	2.00	2.14
22:45:00	2.20	2.43
23:00:00	1.20	1.71
23:15:00	1.00	1.14
23:30:00	0.80	0.71
23:45:00	0.60	0.71
Grand Total	1788.80	1577.43

Class	Axis	Access	Description	Parameters	Dimension Details	Access
1	017	3	Short - Car sign (in)	011+017, 012+017 & access2	017	Light
2	017	3	Short Towing (Trailer) Car sign (in)	group2, 012+017, 013+017, 014+017 & access2, A, B	017	Light
3	017	3	Long sign (in) or (in)	012+017 & access2	017	Light
4	017	3	Three side track or (in)	access2 & group2	017	Light
5	14	3	Four side track	access2 & group2	017	Light
6	017	3	Three side articulated vehicle or rigid vehicle and trailer	012+017, 013, 014 & group2	017	Light
7	017	3	Four side articulated vehicle or rigid vehicle and trailer	012+017, 013, 014, 015 & group2	017	Light
8	017	3	Five side articulated vehicle or rigid vehicle and trailer	012+017, 013, 014, 015, 016 & group2	017	Light
9	017	3	Six (or more) side articulated vehicle or rigid vehicle and trailer	access2 & group2 or access2 & group2	017	Light
10	017	3	Double road train or heavy truck and two trailers	group2 & access2	017	Light
11	017	3	Triple road train or heavy truck and three (or more) trailers	group2 & access2	017	Light
12	017	3	Motorcycle	012+017, 013, 014, 015 & access2	017	Light
13	017	3	Trailer	012+017 & access2	017	Light

Week Commencing

11 October 2021

18 October 2021

Compass direction

N

S

Class

1

2

3

4

5

Weekday

Monday

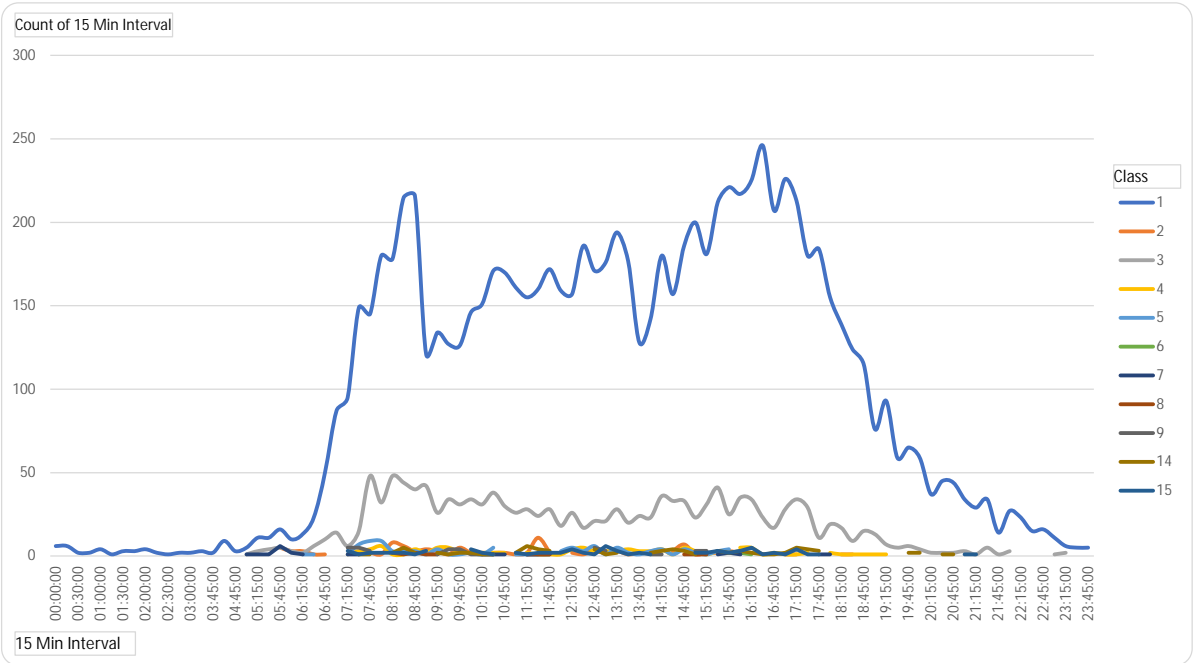
Tuesday

Wednesday

Thursday

Friday

Saturday



Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	14	15	Ind Tot
00:00:00	6												6
00:15:00	6												6
00:30:00	2												2
00:45:00	2												2
01:00:00	4												4
01:15:00	1												1
01:30:00	3												3
01:45:00	3												3
02:00:00	4												4
02:15:00	2												2
02:30:00	1												1
02:45:00	2												2
03:00:00	2												2
03:15:00	3							1					4
03:45:00	2												2
04:00:00	9			1									10
04:45:00	3												3
05:00:00	5	1	1					1					8

Row Labels	07-19	06-22	06-00	00-00
Monday	2480	2668	2687	2718
Tuesday	1371	1457	1466	1483
Wednesday	1432	1546	1561	1579
Thursday	1423	1547	1562	1578
Friday	1430	1545	1568	1586
Saturday	1102	1199	1230	1249
Sunday	771	834	837	849
Grand Total	10009	10796	10911	11042

Row Labels	Average 5 Days	σ of Average 7 D
00:00:00	0.40	0.86
00:15:00	0.40	0.86
00:30:00	0.40	0.29
00:45:00	0.40	0.29
01:00:00	0.40	0.57
01:15:00	0.00	0.14
01:30:00	0.60	0.43
01:45:00	0.60	0.43
02:00:00	0.20	0.57
02:15:00	0.20	0.29
02:30:00	0.00	0.14
02:45:00	0.20	0.29
03:00:00	0.40	0.29
03:15:00	0.40	0.57
03:45:00	0.20	0.29
04:00:00	2.00	1.43
04:45:00	0.60	0.43
05:00:00	0.80	1.14
05:15:00	3.00	2.14

05:15:00	11		3			1				15	
05:30:00	11		4			1				16	
05:45:00	16		5	5		6	3			35	
06:00:00	10		3	3		2				18	
06:15:00	13		3	2		1	1			20	
06:30:00	23		1	6		1	1			32	
06:45:00	50		1	10				1		62	
07:00:00	87			14						101	
07:15:00	95			6	1	1	1	5	3	112	
07:30:00	149		2	15	3	7	1	1	5	1	185
07:45:00	145		2	48	4	9		3	1	2	214
08:00:00	180		1	32	6	9				2	230
08:15:00	178		8	48	1	3		2	2	2	244
08:30:00	215		6	44	1	3	1	1	5	2	278
08:45:00	216		3	40	4	3		2	2	1	271
09:00:00	121		4	42	2	1		1		3	174
09:15:00	134		3	26	5	4		1	1	2	176
09:30:00	127		1	34	5	1		4	1	3	176
09:45:00	126		5	31	2	1	1	4	2		172
10:00:00	146		2	34		2		1	2	4	191
10:15:00	151		2	31	2	1	1	1	1	2	192
10:30:00	171		2	38	2	5	1	1	1	1	222
10:45:00	170		2	30	2		1				205
11:00:00	161		1	26		1	1		2	2	194
11:15:00	155		2	28	2	1	1	1	6	1	197
11:30:00	160		11	24	1	1	1	1	4	2	205
11:45:00	172		2	28	1		1	1	3	2	210
12:00:00	159			18	1	3				2	183
12:15:00	157		2	26	4	5		1	4	4	203
12:30:00	186		1	17	5	3				2	214
12:45:00	171		3	21	3	6		1	5	4	215
13:00:00	176		2	21	3	1	1	2	3	1	216
13:15:00	194		3	28	3	5			2	3	238
13:30:00	177		1	20	4	2	1			1	206
13:45:00	128		2	24	3	1		1		2	161
14:00:00	142			23	3	3	1		1	2	176
14:15:00	180			36	4	4			1	3	228
14:30:00	157		3	33	1	1	2		4	2	203
14:45:00	186		7	33	5	4		1	3		239
15:00:00	200		1	23	3	2		1	3	1	236
15:15:00	181		2	31	1	1	5	1	3	2	227
15:30:00	212		2	41	3	3	1		3	3	268
15:45:00	221		3	25		4	2		2	2	259
16:00:00	217		2	35	5		2	1	3	3	268
16:15:00	225		2	34	5	1	1	1	2	2	278
16:30:00	246			23	1				1	1	272
16:45:00	207			17	2			1	1	2	230
17:00:00	226		1	28	1			1	2	1	260
17:15:00	213		1	34	1		1		5	4	259

05:30:00	3.00	2.29
05:45:00	5.80	5.00
06:00:00	2.40	2.57
06:15:00	2.60	2.86
06:30:00	5.80	4.57
06:45:00	11.60	8.86
07:00:00	19.00	14.43
07:15:00	20.80	16.00
07:30:00	34.20	26.43
07:45:00	40.20	30.57
08:00:00	43.40	32.86
08:15:00	44.80	34.86
08:30:00	52.00	39.71
08:45:00	47.00	38.71
09:00:00	29.80	24.86
09:15:00	29.20	25.14
09:30:00	27.80	25.14
09:45:00	25.00	24.57
10:00:00	30.00	27.29
10:15:00	27.80	27.43
10:30:00	32.20	31.71
10:45:00	28.80	29.29
11:00:00	29.40	27.71
11:15:00	29.20	28.14
11:30:00	31.00	29.29
11:45:00	31.60	30.00
12:00:00	26.20	26.14
12:15:00	30.60	29.00
12:30:00	29.80	30.57
12:45:00	32.00	30.71
13:00:00	33.00	30.86
13:15:00	38.00	34.00
13:30:00	30.40	29.43
13:45:00	25.80	23.00
14:00:00	28.00	25.14
14:15:00	37.20	32.57
14:30:00	30.60	29.00
14:45:00	37.40	34.14
15:00:00	37.00	33.71
15:15:00	36.60	32.43
15:30:00	43.80	38.29
15:45:00	45.00	37.00
16:00:00	43.60	38.29
16:15:00	46.20	39.71
16:30:00	45.40	38.86
16:45:00	36.60	32.86
17:00:00	44.20	37.14
17:15:00	44.20	37.00
17:30:00	37.00	30.86

17:30:00	180	29	2			4	1	216				
17:45:00	184	11		1	1	3	1	201				
18:00:00	155	19	2		1			177				
18:15:00	139	1	17	1		1	1	160				
18:30:00	124	1	9	1				135				
18:45:00	115		15	1	1			132				
19:00:00	76		13	1				90				
19:15:00	93		7	1		1	1	103				
19:30:00	59		5					64				
19:45:00	65		6		1	2		74				
20:00:00	59		4			2		65				
20:15:00	37		2					39				
20:30:00	45		2			1		48				
20:45:00	44		2			1		47				
21:00:00	34		3				1	38				
21:15:00	29		1			2	1	33				
21:30:00	34		5					39				
21:45:00	14		1					15				
22:00:00	27		3					30				
22:15:00	23							23				
22:30:00	15							15				
22:45:00	16						1	17				
23:00:00	11		1					12				
23:15:00	6		2					8				
23:30:00	5							5				
23:45:00	5							5				
Grand Total	9008	113	1402	114	##	15	34	22	44	96	89	###

17:45:00	34.60	28.71
18:00:00	29.20	25.29
18:15:00	26.80	22.86
18:30:00	23.00	19.29
18:45:00	21.80	18.86
19:00:00	13.20	12.86
19:15:00	17.20	14.71
19:30:00	10.80	9.14
19:45:00	11.20	10.57
20:00:00	9.60	9.29
20:15:00	6.20	5.57
20:30:00	8.40	6.86
20:45:00	6.40	6.71
21:00:00	6.60	5.43
21:15:00	5.20	4.71
21:30:00	6.20	5.57
21:45:00	2.00	2.14
22:00:00	4.40	4.29
22:15:00	4.00	3.29
22:30:00	2.00	2.14
22:45:00	2.20	2.43
23:00:00	1.20	1.71
23:15:00	1.00	1.14
23:30:00	0.80	0.71
23:45:00	0.60	0.71
Grand Total	1788.80	1577.43

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

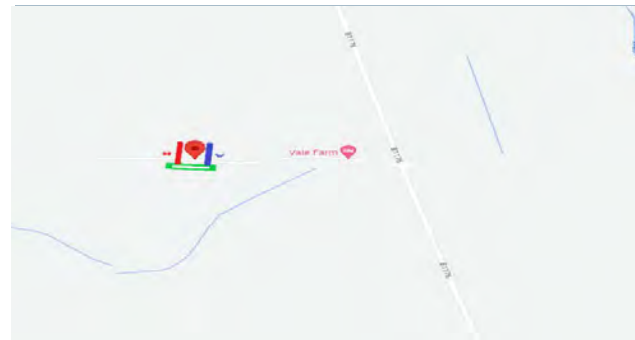
Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	2718	51.08	61.90	68.40	518	19.06%	150	5.52%	39	1.43%
Tuesday	1483	50.55	61.80	68.69	274	18.48%	83	5.60%	23	1.55%
Wednesday	1579	50.35	61.63	68.10	289	18.30%	81	5.13%	28	1.77%
Thursday	1578	50.78	62.00	69.52	293	18.57%	96	6.08%	38	2.41%
Friday	1586	51.52	62.43	70.18	305	19.23%	113	7.12%	35	2.21%
Saturday	1249	50.77	62.28	71.28	246	19.70%	89	7.13%	39	3.12%
Sunday	849	50.62	61.38	68.92	160	18.85%	48	5.65%	17	2.00%
5day	8944	50.89	61.90	69.09	1679	18.77%	523	5.85%	163	1.82%
7day	11042	50.86	61.99	69.30	2085	18.88%	660	5.98%	219	1.98%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 8



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
14
15

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
4179	1.91%	0.29%	0.07%

Count of	Compass direction	Column Labels	
Row Labels	W	E	Grand Total
11 October 2021	1882	1764	3646
18 October 2021	261	272	533
Grand Total	2143	2036	4179

Count of	Compass direction	Column Labels	
Row Labels	W	E	
Monday	533	536	
Tuesday	300	276	
Wednesday	306	255	
Thursday	289	267	
Friday	275	263	
Saturday	266	256	
Sunday	174	183	
Grand Total	2143	2036	

Row Labels	Count of Class	Count of Class2
1	3590	85.91%
2	73	1.75%
3	280	6.70%
4	15	0.36%
5	11	0.26%
6	2	0.05%
7	6	0.14%
8	1	0.02%
9	7	0.17%
14	45	1.08%
15	149	3.57%
Grand Total	4179	100.00%

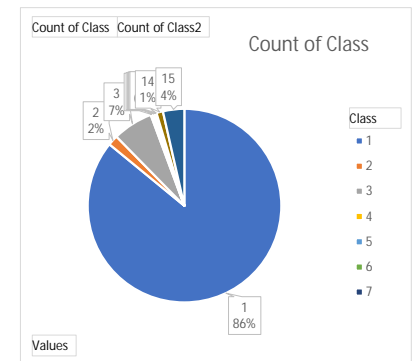
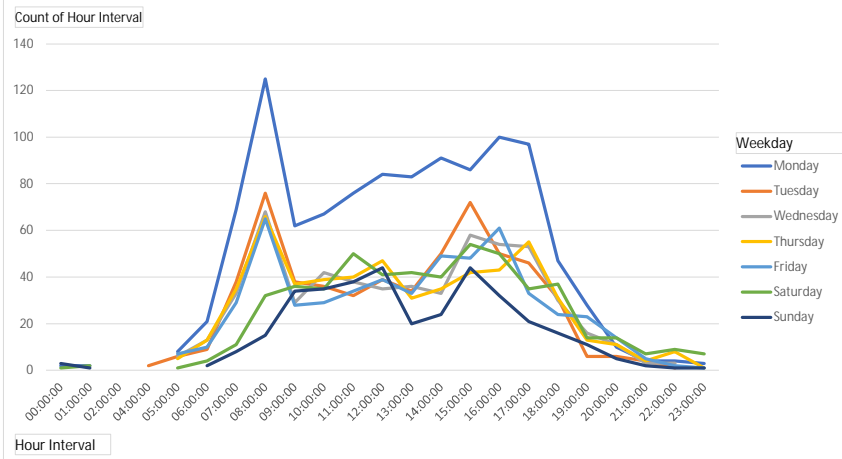
Average of Speed	Column Labels	
Row Labels	W	E
Monday	41.69	44.69
Tuesday	41.74	45.45
Wednesday	42.00	45.94
Thursday	42.04	45.70
Friday	42.54	46.43
Saturday	40.37	43.96
Sunday	41.15	44.05
Grand Total	41.69	45.16

% Over PSL	% Over ACPO	% Over DFT
1.91%	0.29%	0.07%

vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)

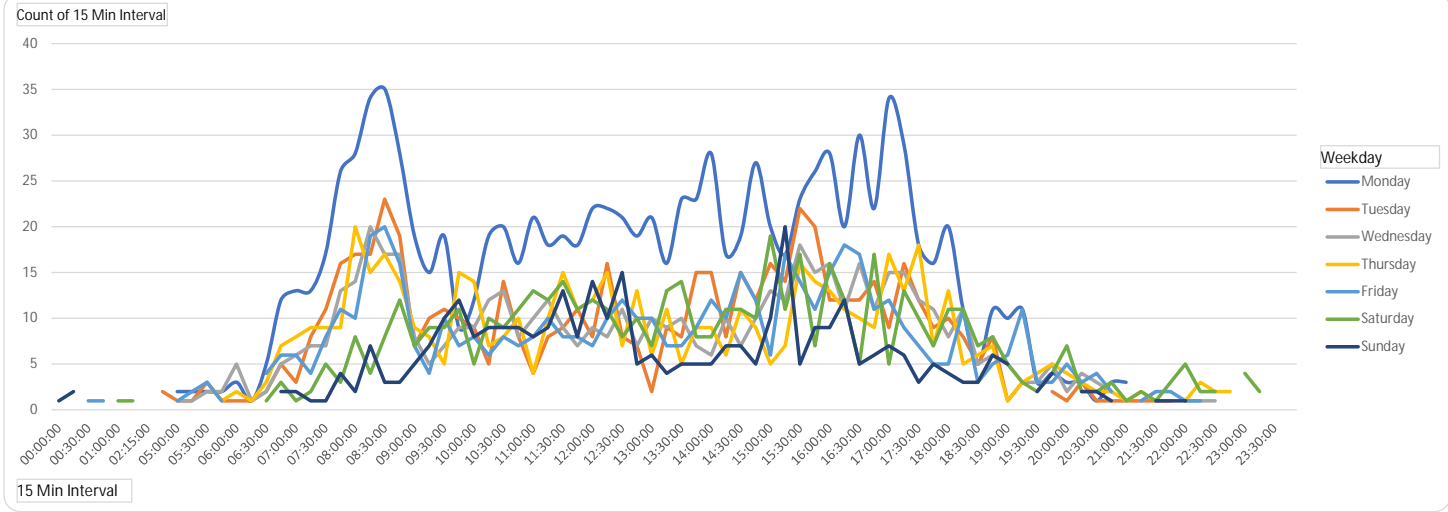


Week Commencing
11 October 2021
18 October 2021

Compass direction
E
W

Class
1
2
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14

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
00:00:00	2				1	1	1	5
00:15:00							2	2
00:30:00					1			1
00:45:00					1			1
01:00:00	2							3
01:15:00						1	1	2
02:15:00					1			1
04:30:00		2						2
05:00:00		1	1	1	1			6
05:15:00	2	1	1		2			6
05:30:00	2	3	2	3	3	1		14
05:45:00	2	1	2	1	1			7
06:00:00	3	1	5	2				11
06:15:00	1	1	1	1				4
06:30:00	5	2	2	3	4	1		17
06:45:00	12	5	5	7	6	3	2	40
07:00:00	13	3	6	8	6	1	2	39
07:15:00	13	8	7	9	4	2	1	44
07:30:00	17	11	7	9	8	5	1	58
07:45:00	26	16	13	9	11	3	4	82
08:00:00	28	17	14	20	10	8	2	99
08:15:00	34	17	20	15	19	4	7	116
08:30:00	35	23	17	17	20	8	3	123
08:45:00	28	19	17	14	16	12	3	109

Row Labels	07-19	06-22	06-00	00-00
Monday	987	1050	1057	1069
Tuesday	542	567	568	576
Wednesday	509	552	555	561
Thursday	501	542	551	556
Friday	472	524	527	538
Saturday	463	502	518	522
Sunday	331	351	353	357
<b>Grand Total</b>	<b>3805</b>	<b>4088</b>	<b>4129</b>	<b>4179</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	0.60	0.71
00:15:00	0.00	0.29
00:30:00	0.20	0.14
00:45:00	0.20	0.14
01:00:00	0.40	0.43
01:15:00	0.00	0.29
02:15:00	0.20	0.14
04:30:00	0.40	0.29
05:00:00	1.20	0.86
05:15:00	1.20	0.86
05:30:00	2.60	2.00
05:45:00	1.40	1.00
06:00:00	2.20	1.57
06:15:00	0.80	0.57
06:30:00	3.20	2.43
06:45:00	7.00	5.71
07:00:00	7.20	5.57
07:15:00	8.20	6.29
07:30:00	10.40	8.29
07:45:00	15.00	11.71
08:00:00	17.80	14.14
08:15:00	21.00	16.57
08:30:00	22.40	17.57
08:45:00	18.80	15.57
09:00:00	10.00	8.86



09:00:00	19	7	8	9	7	7	5	62
09:15:00	15	10	5	8	4	9	7	58
09:30:00	19	11	7	5	10	9	10	71
09:45:00	9	10	9	15	7	11	12	73
10:00:00	12	9	9	14	8	5	8	65
10:15:00	19	5	12	7	6	10	9	68
10:30:00	20	14	13	8	8	9	9	81
10:45:00	16	8	8	10	7	11	9	69
11:00:00	21	4	10	4	8	13	8	68
11:15:00	18	8	12	10	10	12	9	79
11:30:00	19	9	9	15	8	14	13	87
11:45:00	18	11	7	11	8	11	8	74
12:00:00	22	8	9	12	7	12	14	84
12:15:00	22	16	8	15	10	11	10	92
12:30:00	21	8	11	7	12	8	15	82
12:45:00	19	7	7	13	10	10	5	71
13:00:00	21	2	10	6	10	7	6	62
13:15:00	16	9	9	11	7	13	4	69
13:30:00	23	8	10	5	7	14	5	72
13:45:00	23	15	7	9	9	8	5	76
14:00:00	28	15	6	9	12	8	5	83
14:15:00	17	8	10	6	10	11	7	69
14:30:00	19	15	7	11	15	11	7	85
14:45:00	27	12	10	9	12	10	5	85
15:00:00	20	16	13	5	6	19	10	89
15:15:00	17	14	12	7	17	11	20	98
15:30:00	23	22	18	16	14	17	5	115
15:45:00	26	20	15	14	11	7	9	102
16:00:00	28	12	16	13	15	16	9	109
16:15:00	20	12	11	11	18	12	12	96
16:30:00	30	12	16	10	17	5	5	95
16:45:00	22	14	11	9	11	17	6	90
17:00:00	34	9	15	17	12	5	7	99
17:15:00	29	16	15	13	9	13	6	101
17:30:00	18	12	12	18	7	10	3	80
17:45:00	16	9	11	7	5	7	5	60
18:00:00	20	10	8	13	5	11	4	71
18:15:00	11	8	11	5	11	11	3	60
18:30:00	5	5	5	6	3	7	3	34
18:45:00	11	8	6	7	5	8	6	51
19:00:00	10	1	5	1	6	5	5	33
19:15:00	11	3	3	3	11	3		34
19:30:00	3		3	4	3	2	2	17
19:45:00	4	2	5	5	3	4	4	27
20:00:00	3	1	2	4	5	7		22
20:15:00	3	3	4	3	3	2	2	20
20:30:00	1	1	3	2	4	2	2	15
20:45:00	3	1	2	2	2	3	1	14
21:00:00	3	1		1		1		6
21:15:00		1	1	2	1	2		7

09:15:00	8.40	8.29
09:30:00	10.40	10.14
09:45:00	10.00	10.43
10:00:00	10.40	9.29
10:15:00	9.80	9.71
10:30:00	12.60	11.57
10:45:00	9.80	9.86
11:00:00	9.40	9.71
11:15:00	11.60	11.29
11:30:00	12.00	12.43
11:45:00	11.00	10.57
12:00:00	11.60	12.00
12:15:00	14.20	13.14
12:30:00	11.80	11.71
12:45:00	11.20	10.14
13:00:00	9.80	8.86
13:15:00	10.40	9.86
13:30:00	10.60	10.29
13:45:00	12.60	10.86
14:00:00	14.00	11.86
14:15:00	10.20	9.86
14:30:00	13.40	12.14
14:45:00	14.00	12.14
15:00:00	12.00	12.71
15:15:00	13.40	14.00
15:30:00	18.60	16.43
15:45:00	17.20	14.57
16:00:00	16.80	15.57
16:15:00	14.40	13.71
16:30:00	17.00	13.57
16:45:00	13.40	12.86
17:00:00	17.40	14.14
17:15:00	16.40	14.43
17:30:00	13.40	11.43
17:45:00	9.60	8.57
18:00:00	11.20	10.14
18:15:00	9.20	8.57
18:30:00	4.80	4.86
18:45:00	7.40	7.29
19:00:00	4.60	4.71
19:15:00	6.20	4.86
19:30:00	2.60	2.43
19:45:00	3.80	3.86
20:00:00	3.00	3.14
20:15:00	3.20	2.86
20:30:00	2.20	2.14
20:45:00	2.00	2.00
21:00:00	1.00	0.86
21:15:00	1.00	1.00
21:30:00	1.40	1.29

21:30:00	1	1	2	1	2	1	1	9
21:45:00		1			2	3	1	7
22:00:00			1	1	1	5	1	9
22:15:00	4	1	1	3	1	2		12
22:30:00			1	2		2		5
22:45:00				2				2
23:00:00	1					4	1	6
23:15:00						2		2
23:30:00	2			1	1			4
23:45:00						1		1
Grand Total	1069	576	561	556	538	522	357	4179

21:45:00	0.60	1.00
22:00:00	0.60	1.29
22:15:00	2.00	1.71
22:30:00	0.60	0.71
22:45:00	0.40	0.29
23:00:00	0.20	0.86
23:15:00	0.00	0.29
23:30:00	0.80	0.57
23:45:00	0.00	0.14
Grand Total	660.00	597.00

Class	Axis	Access	Description	Parameters	Dimension Details	Access
1	017	3	Short - Car sign (in)	011+017, 012+017, 013+017	017	Light
2	017	3	Short Towing (Trailer) Car sign (in)	group01, 012+017, 013+017, 014+017, 015+017, 016+017, 017+017	017	Light
3	017	3	Long sign (in) or (in)	011+017	017	Light
4	017	3	Three side track (in)	access01 & group01	017	Light
5	14	3	Four side track	access01 & group01	017	Light
6	017	3	Three side articulated vehicle or rigid vehicle and trailer	011+017, 012+017, 013+017	017	Light
7	017	3	Four side articulated vehicle or rigid vehicle and trailer	011+017, 012+017, 013+017, 014+017, 015+017, 016+017, 017+017	017	Light
8	017	3	Five side articulated vehicle or rigid vehicle and trailer	011+017, 012+017, 013+017, 014+017, 015+017, 016+017, 017+017	017	Light
9	017	3	Six (or more) side articulated vehicle or rigid vehicle and trailer	access01 & group01 or access01 & group01	017	Light
10	017	3	Tractor or heavy truck and trailer	group01 & access01	017	Light
11	017	3	Double road train or heavy truck and two trailers	group01 & access01	017	Light
12	017	3	Triple road train or heavy truck and three (or more) trailers	group01 & access01	017	Light
13	017	3	Multitrailer	011+017, 012+017, 013+017, 014+017, 015+017, 016+017, 017+017	017	Light
14	017	3	Trailer	011+017 & access01	017	Light

Week Commencing

11 October 2021

18 October 2021

Compass direction

E

W

Class

1

2

3

4

5

Weekday

Monday

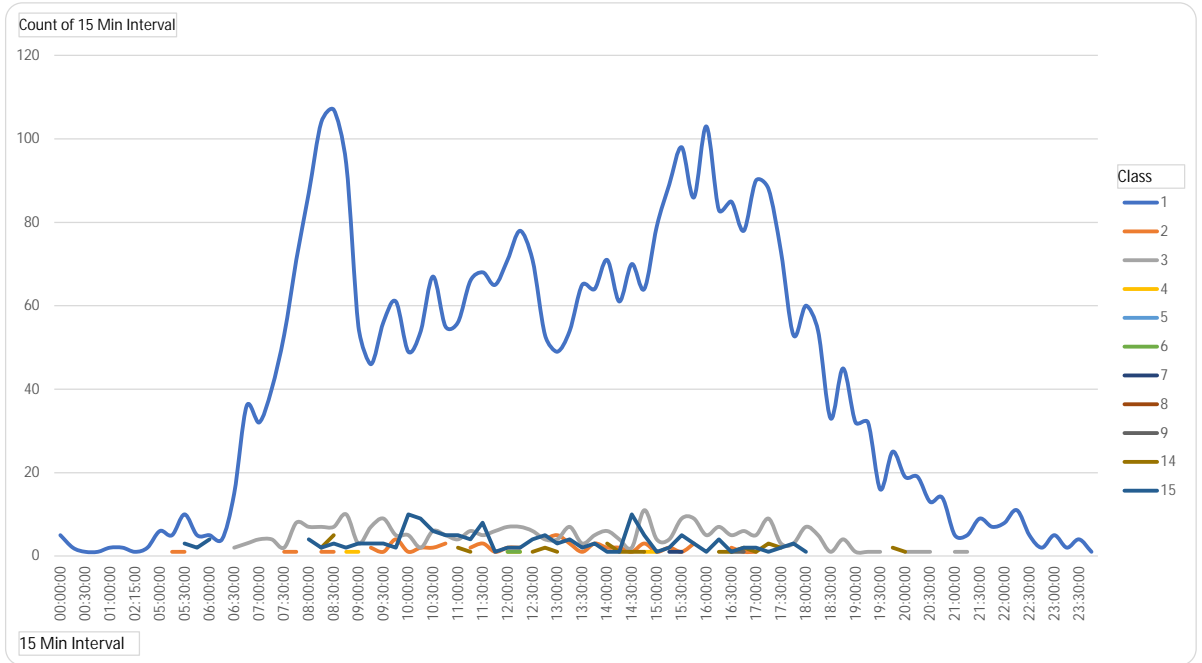
Tuesday

Wednesday

Thursday

Friday

Saturday



Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	14	15	Ind T
00:00:00	5												5
00:15:00	2												2
00:30:00	1												1
00:45:00	1												1
01:00:00	2			1									3
01:15:00	2												2
02:15:00	1												1
04:30:00	2												2
05:00:00	6												6
05:15:00	5	1											6
05:30:00	10	1										3	14
05:45:00	5											2	7
06:00:00	5	2										4	11
06:15:00	4												4
06:30:00	15		2										17
06:45:00	36		3	1									40
07:00:00	32	1	4	1						1			39
07:15:00	40		4										44

Row Labels	07-19	06-22	06-00	00-00
Monday	987	1050	1057	1069
Tuesday	542	567	568	576
Wednesday	509	552	555	561
Thursday	501	542	551	556
Friday	472	524	527	538
Saturday	463	502	518	522
Sunday	331	351	353	357
Grand Total	3805	4088	4129	4179

Row Labels	Average 5 Days	% of Average 7 Days
00:00:00	0.60	0.71
00:15:00	0.00	0.29
00:30:00	0.20	0.14
00:45:00	0.20	0.14
01:00:00	0.40	0.43
01:15:00	0.00	0.29
02:15:00	0.20	0.14
04:30:00	0.40	0.29
05:00:00	1.20	0.86
05:15:00	1.20	0.86
05:30:00	2.60	2.00
05:45:00	1.40	1.00
06:00:00	2.20	1.57
06:15:00	0.80	0.57
06:30:00	3.20	2.43
06:45:00	7.00	5.71
07:00:00	7.20	5.57
07:15:00	8.20	6.29
07:30:00	10.40	8.29

07:30:00	53	1	2		1	1	58
07:45:00	71	1	8	2			82
08:00:00	87		7		1		99
08:15:00	104	1	7			2 2	116
08:30:00	107	1	7			5 3	123
08:45:00	94		10	1 1	1		109
09:00:00	55		3	1			62
09:15:00	46	2	7				58
09:30:00	56	1	9		1	3	71
09:45:00	61	4	5			1 2	73
10:00:00	49	1	5			10	65
10:15:00	54	2	2			1 9	68
10:30:00	67	2	6			6	81
10:45:00	55	3	5	1		5	69
11:00:00	56		4			1 2 5	68
11:15:00	66	2	6			1 4	79
11:30:00	68	3	5	2		1 8	87
11:45:00	65	1	6			1 1	74
12:00:00	71	2	7	1 1		2	84
12:15:00	78	2	7	1 1 1		2	92
12:30:00	71		6			1 4	82
12:45:00	53	4	4	3		2 5	71
13:00:00	49	5	4			1 3	62
13:15:00	54	3	7		1	4	69
13:30:00	65	1	3	1		2	72
13:45:00	64	3	5			1 3	76
14:00:00	71	2	6			3 1	83
14:15:00	61	2	4			1 1	69
14:30:00	70	1	2		1	1 10	85
14:45:00	64	3	11	1		1 5	85
15:00:00	79	1	4	1 2		1 1	89
15:15:00	89	2	4		1	2	98
15:30:00	98	1	9	1 1		5	115
15:45:00	86	3	9	1		3	102
16:00:00	103		5			1	109
16:15:00	83		7	1		1 4	96
16:30:00	85	2	5			1 1 1	95
16:45:00	78	1	6			1 2 2	90
17:00:00	90	1	5			1 2	99
17:15:00	88		9			3 1	101
17:30:00	73		3			2 2	80
17:45:00	53	1	3			3	60
18:00:00	60		7	1		2 1	71
18:15:00	54	1	5				60
18:30:00	33		1				34
18:45:00	45		4			2	51
19:00:00	32		1				33
19:15:00	32		1			1	34
19:30:00	16		1				17

07:45:00	15.00	11.71
08:00:00	17.80	14.14
08:15:00	21.00	16.57
08:30:00	22.40	17.57
08:45:00	18.80	15.57
09:00:00	10.00	8.86
09:15:00	8.40	8.29
09:30:00	10.40	10.14
09:45:00	10.00	10.43
10:00:00	10.40	9.29
10:15:00	9.80	9.71
10:30:00	12.60	11.57
10:45:00	9.80	9.86
11:00:00	9.40	9.71
11:15:00	11.60	11.29
11:30:00	12.00	12.43
11:45:00	11.00	10.57
12:00:00	11.60	12.00
12:15:00	14.20	13.14
12:30:00	11.80	11.71
12:45:00	11.20	10.14
13:00:00	9.80	8.86
13:15:00	10.40	9.86
13:30:00	10.60	10.29
13:45:00	12.60	10.86
14:00:00	14.00	11.86
14:15:00	10.20	9.86
14:30:00	13.40	12.14
14:45:00	14.00	12.14
15:00:00	12.00	12.71
15:15:00	13.40	14.00
15:30:00	18.60	16.43
15:45:00	17.20	14.57
16:00:00	16.80	15.57
16:15:00	14.40	13.71
16:30:00	17.00	13.57
16:45:00	13.40	12.86
17:00:00	17.40	14.14
17:15:00	16.40	14.43
17:30:00	13.40	11.43
17:45:00	9.60	8.57
18:00:00	11.20	10.14
18:15:00	9.20	8.57
18:30:00	4.80	4.86
18:45:00	7.40	7.29
19:00:00	4.60	4.71
19:15:00	6.20	4.86
19:30:00	2.60	2.43
19:45:00	3.80	3.86

19:45:00	25									2	27	
20:00:00	19	1	1							1	22	
20:15:00	19		1								20	
20:30:00	13		1							1	15	
20:45:00	14										14	
21:00:00	5		1								6	
21:15:00	5		1						1		7	
21:30:00	9										9	
21:45:00	7										7	
22:00:00	8		1								9	
22:15:00	11	1									12	
22:30:00	5										5	
22:45:00	2										2	
23:00:00	5		1								6	
23:15:00	2										2	
23:30:00	4										4	
23:45:00	1										1	
Grand Total	3590	73	280	15	11	2	6	1	7	45	149	###

20:00:00	3.00	3.14
20:15:00	3.20	2.86
20:30:00	2.20	2.14
20:45:00	2.00	2.00
21:00:00	1.00	0.86
21:15:00	1.00	1.00
21:30:00	1.40	1.29
21:45:00	0.60	1.00
22:00:00	0.60	1.29
22:15:00	2.00	1.71
22:30:00	0.60	0.71
22:45:00	0.40	0.29
23:00:00	0.20	0.86
23:15:00	0.00	0.29
23:30:00	0.80	0.57
23:45:00	0.00	0.14
Grand Total	660.00	597.00

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	1069	43.20	50.60	54.46	12	1.12%	1	0.09%	0	0.00%
Tuesday	576	43.52	50.90	56.35	12	2.08%	0	0.00%	0	0.00%
Wednesday	561	43.79	52.20	57.30	13	2.32%	4	0.71%	1	0.18%
Thursday	556	43.79	51.20	55.40	12	2.16%	1	0.18%	0	0.00%
Friday	538	44.44	51.80	56.62	14	2.60%	4	0.74%	2	0.37%
Saturday	522	42.13	51.10	56.20	12	2.30%	0	0.00%	0	0.00%
Sunday	357	42.63	51.30	56.14	5	1.40%	2	0.56%	0	0.00%
5day	3300	43.66	51.30	55.91	63	1.91%	10	0.30%	3	0.09%
7day	4179	43.38	51.30	56.00	80	1.91%	12	0.29%	3	0.07%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 9



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

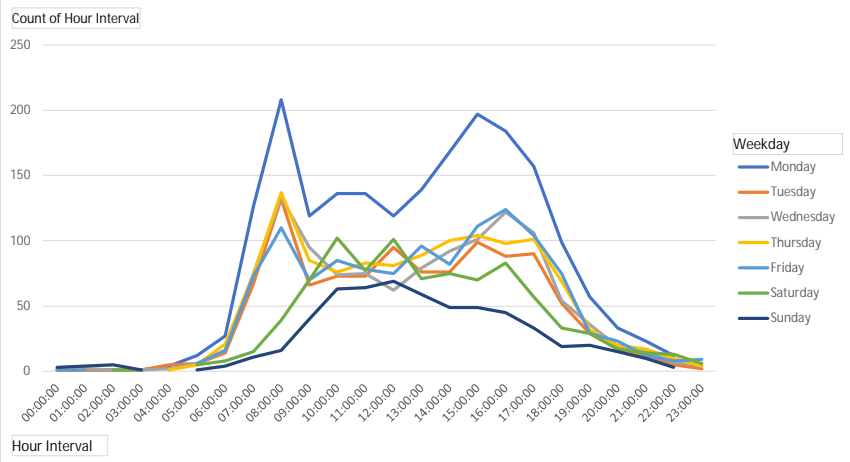
Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
14
15

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
8089	5.84%	0.94%	0.22%

Count of	Compass direction	Column Labels	
Row Labels	N	S	Grand Total
11 October 2021	3631	3535	7166
18 October 2021	475	448	923
Grand Total	4106	3983	8089



Count of	Compass direction	Column Labels	
Row Labels	N	S	
Monday	1016	944	
Tuesday	546	534	
Wednesday	593	585	
Thursday	602	608	
Friday	612	576	
Saturday	453	437	
Sunday	284	299	
Grand Total	4106	3983	

Average of Speed	Column Labels	
Row Labels	N	S
Monday	46.34	49.44
Tuesday	45.82	49.94
Wednesday	46.00	48.83
Thursday	46.49	49.26
Friday	45.49	49.23
Saturday	45.59	49.51
Sunday	45.68	48.30
Grand Total	45.99	49.28

% Over PSL	% Over ACPO	% Over DFT
5.84%	0.94%	0.22%

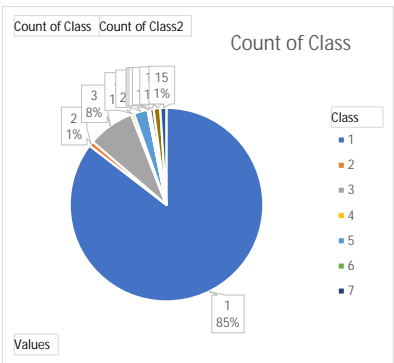
vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)



Row Labels	Count of Class	Count of Class2
1	6910	85.42%
2	68	0.84%
3	629	7.78%
4	41	0.51%
5	189	2.34%
6	1	0.01%
7	18	0.22%
8	14	0.17%
9	48	0.59%
14	90	1.11%
15	81	1.00%
Grand Total	8089	100.00%



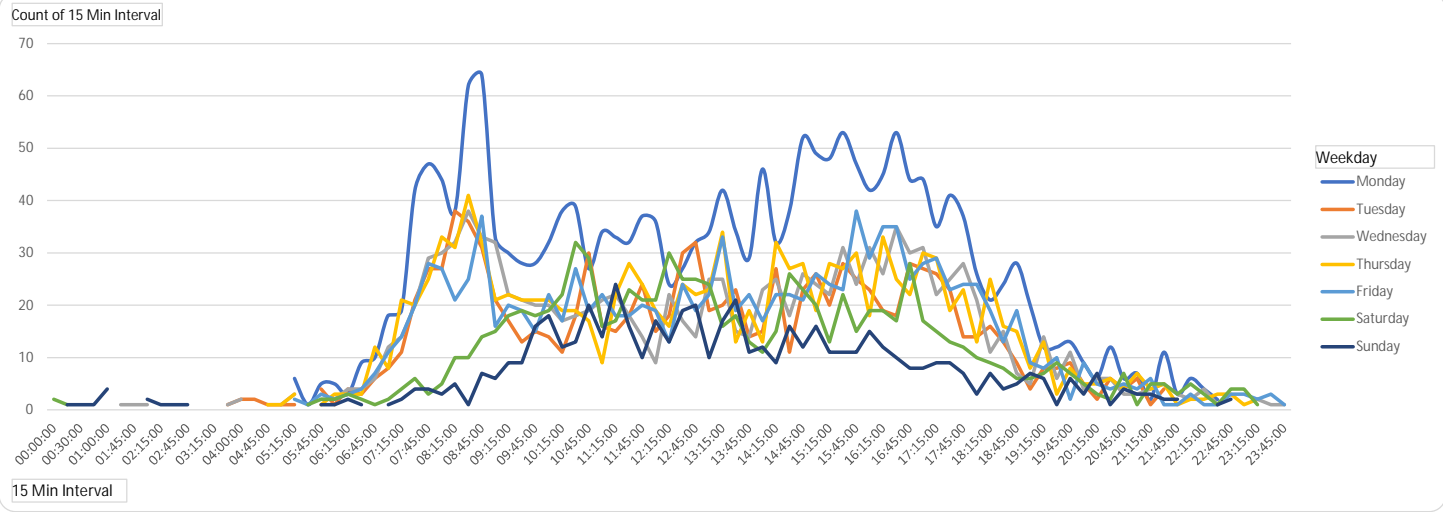


Week Commencing
11 October 2021
18 October 2021

Compass direction
N
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Class
1
2
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4
5
6
7
8
9
14

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Grand Total
00:00:00		1		1		2		4
00:15:00					1	1	1	3
00:30:00	1		1				1	3
00:45:00				1			1	2
01:00:00							4	4
01:30:00	1		1	1				3
01:45:00		1	1		1			3
02:00:00	1		1			1	2	5
02:15:00		1					1	2
02:30:00							1	1
02:45:00							1	1
03:00:00	1							1
03:15:00						1	1	2
03:45:00		1	1					2
04:00:00	4	2	2					8
04:30:00		2						2
04:45:00		1		1				2
05:00:00		1	1	1		2		5
05:15:00	6	1	3	3	2			15
05:30:00	1				1	1		3
05:45:00	5	4	2	1	3	2	1	18
06:00:00	5	1	2	3	2	2	1	16
06:15:00	3	4	4	3	3	3	2	22
06:30:00	9	3	4	3	4	2	1	26

Row Labels	07-19	06-22	06-00	00-00
Monday	1788	1928	1940	1960
Tuesday	987	1058	1065	1080
Wednesday	1068	1154	1165	1178
Thursday	1097	1187	1201	1210
Friday	1083	1163	1180	1188
Saturday	793	861	880	890
Sunday	517	566	569	583
<b>Grand Total</b>	<b>7333</b>	<b>7917</b>	<b>8000</b>	<b>8089</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	0.40	0.57
00:15:00	0.20	0.43
00:30:00	0.40	0.43
00:45:00	0.20	0.29
01:00:00	0.00	0.57
01:30:00	0.60	0.43
01:45:00	0.60	0.43
02:00:00	0.40	0.71
02:15:00	0.20	0.29
02:30:00	0.00	0.14
02:45:00	0.00	0.14
03:00:00	0.20	0.14
03:15:00	0.00	0.29
03:45:00	0.40	0.29
04:00:00	1.60	1.14
04:30:00	0.40	0.29
04:45:00	0.40	0.29
05:00:00	0.60	0.71
05:15:00	3.00	2.14
05:30:00	0.40	0.43
05:45:00	3.00	2.57
06:00:00	2.60	2.29
06:15:00	3.40	3.14
06:30:00	4.60	3.71
06:45:00	8.20	6.00

06:45:00	10	6	6	12	7	1		42
07:00:00	18	8	12	8	11	2	1	60
07:15:00	19	11	14	21	14	4	2	85
07:30:00	42	21	20	20	20	6	4	133
07:45:00	47	27	29	25	28	3	4	163
08:00:00	44	27	30	33	27	5	3	169
08:15:00	38	38	32	31	21	10	5	175
08:30:00	62	36	38	41	25	10	1	213
08:45:00	64	31	33	32	37	14	7	218
09:00:00	33	21	32	21	16	15	6	144
09:15:00	30	17	22	22	20	18	9	138
09:30:00	28	13	21	21	19	19	9	130
09:45:00	28	15	20	21	15	18	16	133
10:00:00	32	14	20	21	22	19	18	146
10:15:00	38	11	17	19	17	22	12	136
10:30:00	39	18	18	19	27	32	13	166
10:45:00	27	30	19	17	19	29	20	161
11:00:00	34	16	21	9	22	16	14	132
11:15:00	33	15	22	22	18	17	24	151
11:30:00	32	18	18	28	18	23	16	153
11:45:00	37	24	14	24	20	21	10	150
12:00:00	36	15	9	19	19	21	17	136
12:15:00	24	18	22	16	13	30	13	136
12:30:00	27	30	17	24	24	25	19	166
12:45:00	32	32	14	22	19	25	20	164
13:00:00	34	19	25	23	22	24	10	157
13:15:00	42	20	25	34	33	16	17	187
13:30:00	34	23	15	13	19	18	21	143
13:45:00	29	14	14	19	22	13	11	122
14:00:00	46	15	23	13	17	11	12	137
14:15:00	32	27	25	32	22	15	9	162
14:30:00	38	11	18	27	22	26	16	158
14:45:00	52	23	26	28	21	23	12	185
15:00:00	49	26	24	19	26	20	16	180
15:15:00	48	20	22	28	24	13	11	166
15:30:00	53	28	31	27	23	22	11	195
15:45:00	47	25	24	30	38	15	11	190
16:00:00	42	23	31	18	29	19	15	177
16:15:00	45	19	26	33	35	19	12	189
16:30:00	53	18	35	25	35	17	10	193
16:45:00	44	28	30	22	25	28	8	185
17:00:00	44	27	31	30	28	17	8	185
17:15:00	35	26	22	29	29	15	9	165
17:30:00	41	23	25	19	23	13	9	153
17:45:00	37	14	28	23	24	12	7	145
18:00:00	26	14	21	13	24	10	3	111
18:15:00	21	16	11	25	19	9	7	108
18:30:00	24	13	15	16	13	8	4	93
18:45:00	28	9	7	15	19	6	5	89
19:00:00	20	4	5	8	9	6	7	59

07:00:00	11.40	8.57
07:15:00	15.80	12.14
07:30:00	24.60	19.00
07:45:00	31.20	23.29
08:00:00	32.20	24.14
08:15:00	32.00	25.00
08:30:00	40.40	30.43
08:45:00	39.40	31.14
09:00:00	24.60	20.57
09:15:00	22.20	19.71
09:30:00	20.40	18.57
09:45:00	19.80	19.00
10:00:00	21.80	20.86
10:15:00	20.40	19.43
10:30:00	24.20	23.71
10:45:00	22.40	23.00
11:00:00	20.40	18.86
11:15:00	22.00	21.57
11:30:00	22.80	21.86
11:45:00	23.80	21.43
12:00:00	19.60	19.43
12:15:00	18.60	19.43
12:30:00	24.40	23.71
12:45:00	23.80	23.43
13:00:00	24.60	22.43
13:15:00	30.80	26.71
13:30:00	20.80	20.43
13:45:00	19.60	17.43
14:00:00	22.80	19.57
14:15:00	27.60	23.14
14:30:00	23.20	22.57
14:45:00	30.00	26.43
15:00:00	28.80	25.71
15:15:00	28.40	23.71
15:30:00	32.40	27.86
15:45:00	32.80	27.14
16:00:00	28.60	25.29
16:15:00	31.60	27.00
16:30:00	33.20	27.57
16:45:00	29.80	26.43
17:00:00	32.00	26.43
17:15:00	28.20	23.57
17:30:00	26.20	21.86
17:45:00	25.20	20.71
18:00:00	19.60	15.86
18:15:00	18.40	15.43
18:30:00	16.20	13.29
18:45:00	15.60	12.71
19:00:00	9.20	8.43
19:15:00	11.00	9.71

19:15:00	12	8	14	13	8	7	6	68
19:30:00	12	8	6	3	10	9	1	49
19:45:00	13	9	11	8	2	7	6	56
20:00:00	9	5	4	5	9	5	3	40
20:15:00	6	2	6	5	5	3	7	34
20:30:00	12	6	6	6	4	2	1	37
20:45:00	6	4	3	4	5	7	4	33
21:00:00	7	6	3	7	4	1	3	31
21:15:00	2	1	4	4	6	5	3	25
21:30:00	11	4	5	5	1	5	2	33
21:45:00	3		3	1	1	3	2	13
22:00:00	6	2	2	2	3	5		20
22:15:00	4		4	2	1	3		14
22:30:00	2	3	1	3	1	1	1	12
22:45:00				3	3	4	2	12
23:00:00		1		1	3	4		9
23:15:00			2	2	2	1		7
23:30:00		1	1		3			5
23:45:00			1	1	1	1		4
Grand Total	1960	1080	1178	1210	1188	890	583	8089

19:30:00	7.80	7.00
19:45:00	8.60	8.00
20:00:00	6.40	5.71
20:15:00	4.80	4.86
20:30:00	6.80	5.29
20:45:00	4.40	4.71
21:00:00	5.40	4.43
21:15:00	3.40	3.57
21:30:00	5.20	4.71
21:45:00	1.60	1.86
22:00:00	3.00	2.86
22:15:00	2.20	2.00
22:30:00	2.00	1.71
22:45:00	1.20	1.71
23:00:00	1.00	1.29
23:15:00	1.20	1.00
23:30:00	1.00	0.71
23:45:00	0.60	0.57
Grand Total	1323.20	1155.57

Class	Axis	Access	Description	Parameters	Dimension Details	Access
11	017	2	3000 3	001+0.1m, 002+0.2m & access2	001+0.1m, 002+0.2m & access2	Light
12	017	3	3000 3	001+0.1m, 002+0.2m, 003+0.3m & access2, A, B	001+0.1m, 002+0.2m, 003+0.3m & access2, A, B	Light
13	017	2	3000 3	001+0.1m & access2	001+0.1m & access2	Light
14	017	3	3000 3	access2 & group2	access2 & group2	Light
15	017	2	3000 3	access2 & group2	access2 & group2	Light
16	017	3	3000 3	001+0.1m, access2 & group2	001+0.1m, access2 & group2	Light
17	017	4	3000 3	001+0.1m or 002+0.2m or 003+0.3m & A & group2	001+0.1m or 002+0.2m or 003+0.3m & A & group2	Light
18	017	5	3000 3	001+0.1m or 002+0.2m or 003+0.3m & B & group2	001+0.1m or 002+0.2m or 003+0.3m & B & group2	Light
19	017	6	3000 3	001+0.1m or 002+0.2m or 003+0.3m & C & group2	001+0.1m or 002+0.2m or 003+0.3m & C & group2	Light
20	017	7	3000 3	001+0.1m or 002+0.2m or 003+0.3m & D & group2	001+0.1m or 002+0.2m or 003+0.3m & D & group2	Light
21	017	8	3000 3	001+0.1m or 002+0.2m or 003+0.3m & E & group2	001+0.1m or 002+0.2m or 003+0.3m & E & group2	Light
22	017	9	3000 3	001+0.1m or 002+0.2m or 003+0.3m & F & group2	001+0.1m or 002+0.2m or 003+0.3m & F & group2	Light
23	017	10	3000 3	001+0.1m or 002+0.2m or 003+0.3m & G & group2	001+0.1m or 002+0.2m or 003+0.3m & G & group2	Light
24	017	11	3000 3	001+0.1m or 002+0.2m or 003+0.3m & H & group2	001+0.1m or 002+0.2m or 003+0.3m & H & group2	Light
25	017	12	3000 3	001+0.1m or 002+0.2m or 003+0.3m & I & group2	001+0.1m or 002+0.2m or 003+0.3m & I & group2	Light

Week Commencing

11 October 2021

18 October 2021

Compass direction

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Class

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Weekday

Monday

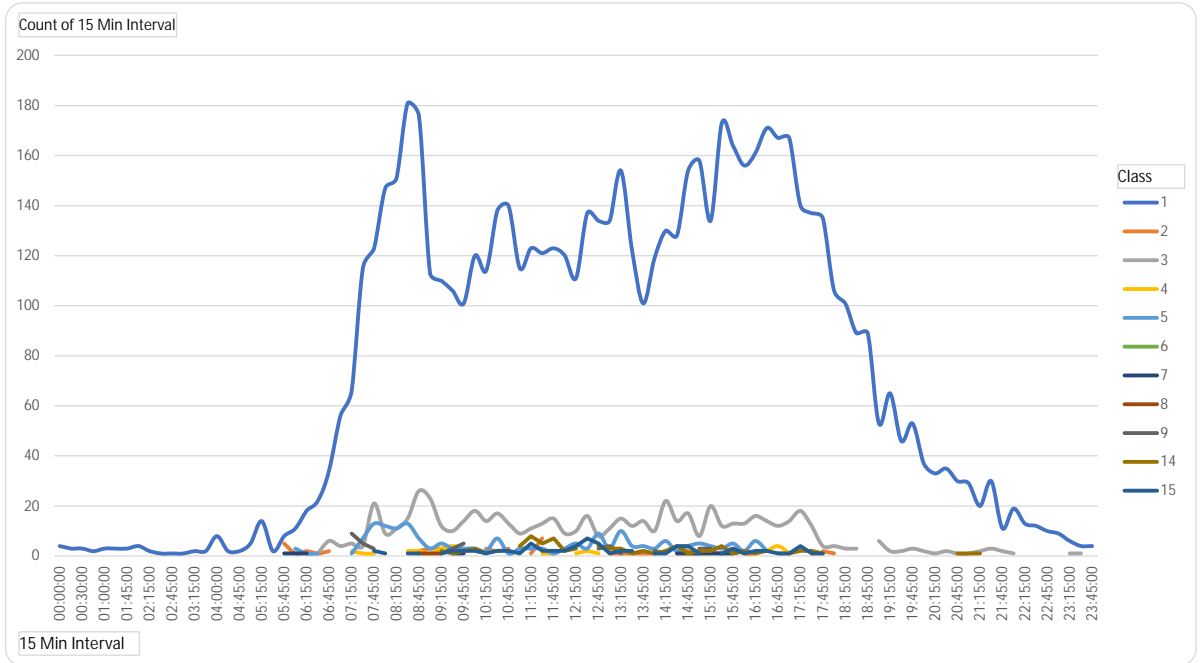
Tuesday

Wednesday

Thursday

Friday

Saturday



Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	14	15	Ind T
00:00:00	Row Labels	4											4
00:15:00	Row Labels	3											3
00:30:00	Row Labels	3											3
00:45:00	Row Labels	2											2
01:00:00	Row Labels	3		1									4
01:30:00	Row Labels	3											3
01:45:00	Row Labels	3											3
02:00:00	Row Labels	4		1									5
02:15:00	Row Labels	2											2
02:30:00	Row Labels	1											1
02:45:00	Row Labels	1											1
03:00:00	Row Labels	1											1
03:15:00	Row Labels	2											2
03:45:00	Row Labels	2											2
04:00:00	Row Labels	8											8
04:30:00	Row Labels	2											2
04:45:00	Row Labels	2											2
05:00:00	Row Labels	5											5

Row Labels	07-19	06-22	06-00	00-00
Monday	1788	1928	1940	1960
Tuesday	987	1058	1065	1080
Wednesday	1068	1154	1165	1178
Thursday	1097	1187	1201	1210
Friday	1083	1163	1180	1188
Saturday	793	861	880	890
Sunday	517	566	569	583
Grand Total	7333	7917	8000	8089

Row Labels	Average 5 Days	1 of Average 7 D
00:00:00	0.40	0.57
00:15:00	0.20	0.43
00:30:00	0.40	0.43
00:45:00	0.20	0.29
01:00:00	0.00	0.57
01:30:00	0.60	0.43
01:45:00	0.60	0.43
02:00:00	0.40	0.71
02:15:00	0.20	0.29
02:30:00	0.00	0.14
02:45:00	0.00	0.14
03:00:00	0.20	0.14
03:15:00	0.00	0.29
03:45:00	0.40	0.29
04:00:00	1.60	1.14
04:30:00	0.40	0.29
04:45:00	0.40	0.29
05:00:00	0.60	0.71
05:15:00	3.00	2.14

05:15:00	14				1				15
05:30:00	2		1						3
05:45:00	8	5			1	4			18
06:00:00	11	1		3	1				16
06:15:00	18	2		1	1				22
06:30:00	22	1	1	1	1				26
06:45:00	34	2	6						42
07:00:00	56		4						60
07:15:00	66	1	5	2	1		9	1	85
07:30:00	115		4	1	7		1	5	133
07:45:00	123		21	1	13		3	2	163
08:00:00	147		9		12			1	169
08:15:00	151	1	11		11	1			175
08:30:00	181		15	2	13	1		1	213
08:45:00	176	2	26	2	7		1	3	218
09:00:00	113	3	23	1	3		1		144
09:15:00	110	3	12	3	5		1	1	138
09:30:00	106		10	4	3	1	3	1	130
09:45:00	101	2	14	3	3	1	5	2	133
10:00:00	120		18		3			3	146
10:15:00	114	3	14		2		1	1	136
10:30:00	138	2	17		7				166
10:45:00	140	3	13	1	1	1			161
11:00:00	115		9		3			4	132
11:15:00	123	1	11		3			8	151
11:30:00	121	7	13	1	3	1		5	153
11:45:00	123		15	1	1		1	7	150
12:00:00	120		9		3			2	136
12:15:00	111		10	1	5		2	3	136
12:30:00	137	1	16	2	3				166
12:45:00	134		8	1	9		3	4	164
13:00:00	134	1	11		3		4	3	157
13:15:00	154	1	15		10		1	1	187
13:30:00	122	1	12	1	4			1	143
13:45:00	101	1	14		4			2	122
14:00:00	119	1	10		3		2	1	137
14:15:00	130		22		6		1	2	162
14:30:00	128	4	14	1	2	1		4	158
14:45:00	154	2	17	1	4	1	1	1	185
15:00:00	158	1	8	1	5	1	3	2	180
15:15:00	134	2	20		4	1	3	2	166
15:30:00	173	1	12		3	1		4	195
15:45:00	164	3	13		5	1		1	190
16:00:00	156	1	13		2	2		2	177
16:15:00	161	1	16		6		2	1	189
16:30:00	171		14	2	2			2	193
16:45:00	167	1	12		4				185
17:00:00	167	1	14		1			1	185
17:15:00	140		18			1		2	165

05:30:00	0.40	0.43
05:45:00	3.00	2.57
06:00:00	2.60	2.29
06:15:00	3.40	3.14
06:30:00	4.60	3.71
06:45:00	8.20	6.00
07:00:00	11.40	8.57
07:15:00	15.80	12.14
07:30:00	24.60	19.00
07:45:00	31.20	23.29
08:00:00	32.20	24.14
08:15:00	32.00	25.00
08:30:00	40.40	30.43
08:45:00	39.40	31.14
09:00:00	24.60	20.57
09:15:00	22.20	19.71
09:30:00	20.40	18.57
09:45:00	19.80	19.00
10:00:00	21.80	20.86
10:15:00	20.40	19.43
10:30:00	24.20	23.71
10:45:00	22.40	23.00
11:00:00	20.40	18.86
11:15:00	22.00	21.57
11:30:00	22.80	21.86
11:45:00	23.80	21.43
12:00:00	19.60	19.43
12:15:00	18.60	19.43
12:30:00	24.40	23.71
12:45:00	23.80	23.43
13:00:00	24.60	22.43
13:15:00	30.80	26.71
13:30:00	20.80	20.43
13:45:00	19.60	17.43
14:00:00	22.80	19.57
14:15:00	27.60	23.14
14:30:00	23.20	22.57
14:45:00	30.00	26.43
15:00:00	28.80	25.71
15:15:00	28.40	23.71
15:30:00	32.40	27.86
15:45:00	32.80	27.14
16:00:00	28.60	25.29
16:15:00	31.60	27.00
16:30:00	33.20	27.57
16:45:00	29.80	26.43
17:00:00	32.00	26.43
17:15:00	28.20	23.57
17:30:00	26.20	21.86

17:30:00	137		12	1			2	1	153			
17:45:00	135	2	4	1	1		1	1	145			
18:00:00	106	1	4						111			
18:15:00	101		3	1			2	1	108			
18:30:00	89		3			1			93			
18:45:00	89								89			
19:00:00	53		6						59			
19:15:00	65		2				1		68			
19:30:00	46		2	1					49			
19:45:00	53		3						56			
20:00:00	37		2				1		40			
20:15:00	33		1						34			
20:30:00	35		2						37			
20:45:00	30	1	1				1		33			
21:00:00	29		1				1		31			
21:15:00	20	1	2				1	1	25			
21:30:00	30		3						33			
21:45:00	11		2						13			
22:00:00	19		1						20			
22:15:00	13	1							14			
22:30:00	12								12			
22:45:00	10		1				1		12			
23:00:00	9								9			
23:15:00	6		1						7			
23:30:00	4		1						5			
23:45:00	4								4			
Grand Total	6910	68	629	41	##	1	18	14	48	90	81	###

17:45:00	25.20	20.71
18:00:00	19.60	15.86
18:15:00	18.40	15.43
18:30:00	16.20	13.29
18:45:00	15.60	12.71
19:00:00	9.20	8.43
19:15:00	11.00	9.71
19:30:00	7.80	7.00
19:45:00	8.60	8.00
20:00:00	6.40	5.71
20:15:00	4.80	4.86
20:30:00	6.80	5.29
20:45:00	4.40	4.71
21:00:00	5.40	4.43
21:15:00	3.40	3.57
21:30:00	5.20	4.71
21:45:00	1.60	1.86
22:00:00	3.00	2.86
22:15:00	2.20	2.00
22:30:00	2.00	1.71
22:45:00	1.20	1.71
23:00:00	1.00	1.29
23:15:00	1.20	1.00
23:30:00	1.00	0.71
23:45:00	0.60	0.57
Grand Total	1323.20	1155.57

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

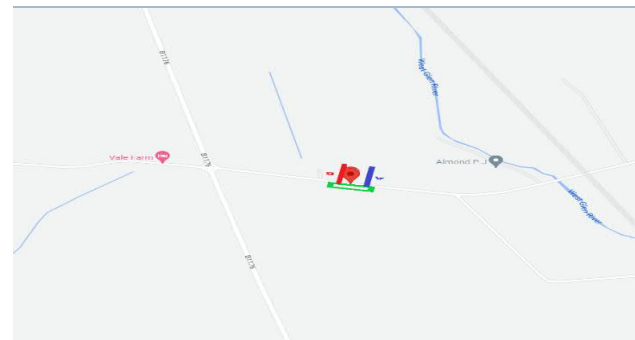
Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	1960	47.83	55.80	60.61	116	5.92%	21	1.07%	3	0.15%
Tuesday	1080	47.86	55.82	60.81	65	6.02%	6	0.56%	0	0.00%
Wednesday	1178	47.41	55.50	60.52	67	5.69%	15	1.27%	3	0.25%
Thursday	1210	47.88	55.60	59.56	53	4.38%	10	0.83%	3	0.25%
Friday	1188	47.30	56.10	61.80	81	6.82%	10	0.84%	5	0.42%
Saturday	890	47.51	56.47	61.96	62	6.97%	11	1.24%	4	0.45%
Sunday	583	47.02	55.30	59.99	28	4.80%	3	0.51%	0	0.00%
5day	6616	47.67	55.80	60.63	382	5.77%	62	0.94%	14	0.21%
7day	8089	47.61	55.80	60.70	472	5.84%	76	0.94%	18	0.22%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 10



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)



Week Commencing
18 October 2021
11 October 2021

Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
12
14
15

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
4815	2.58%	0.27%	0.06%

Count of	Compass direction	Column Labels	
Row Labels	W	E	Grand Total
11 October 2021	2142	2118	4260
18 October 2021	277	278	555
Grand Total	2419	2396	4815

Count of	Compass direction	Column Labels	
Row Labels	W	E	
Monday	588	571	
Tuesday	321	303	
Wednesday	347	345	
Thursday	345	347	
Friday	352	345	
Saturday	255	272	
Sunday	211	213	
Grand Total	2419	2396	

Row Labels	Count of Class	Count of Class2
1	4004	83.16%
2	106	2.20%
3	438	9.10%
4	37	0.77%
5	12	0.25%
6	4	0.08%
7	7	0.15%
8	4	0.08%
9	4	0.08%
14	31	0.64%
15	167	3.47%
12	1	0.02%
Grand Total	4815	100.00%

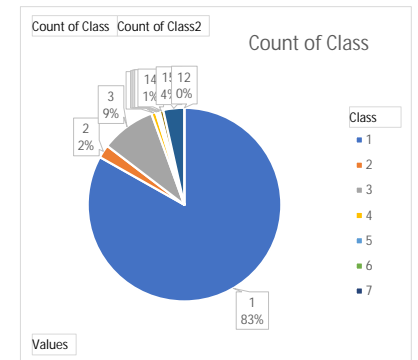
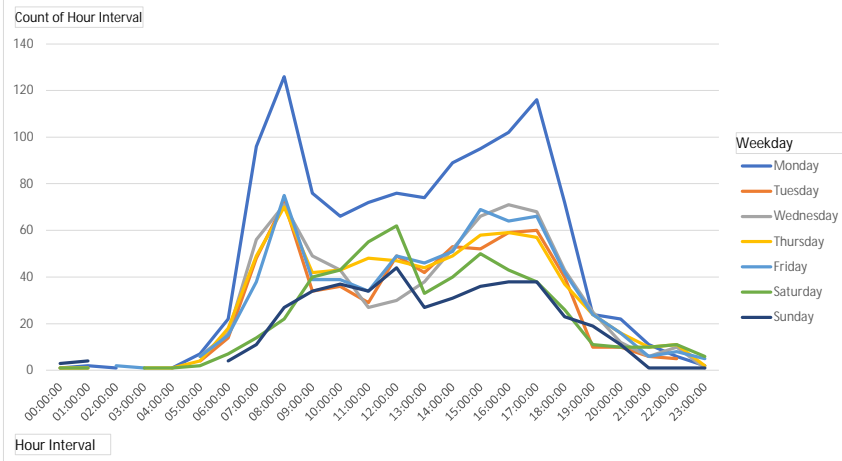
Average of Speed	Column Labels	
Row Labels	W	E
Monday	43.26	42.96
Tuesday	43.12	42.28
Wednesday	43.02	42.81
Thursday	44.09	43.68
Friday	43.40	43.71
Saturday	41.58	42.55
Sunday	41.87	41.36
Grand Total	43.05	42.88

% Over PSL	% Over ACPO	% Over DFT
2.58%	0.27%	0.06%

vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)

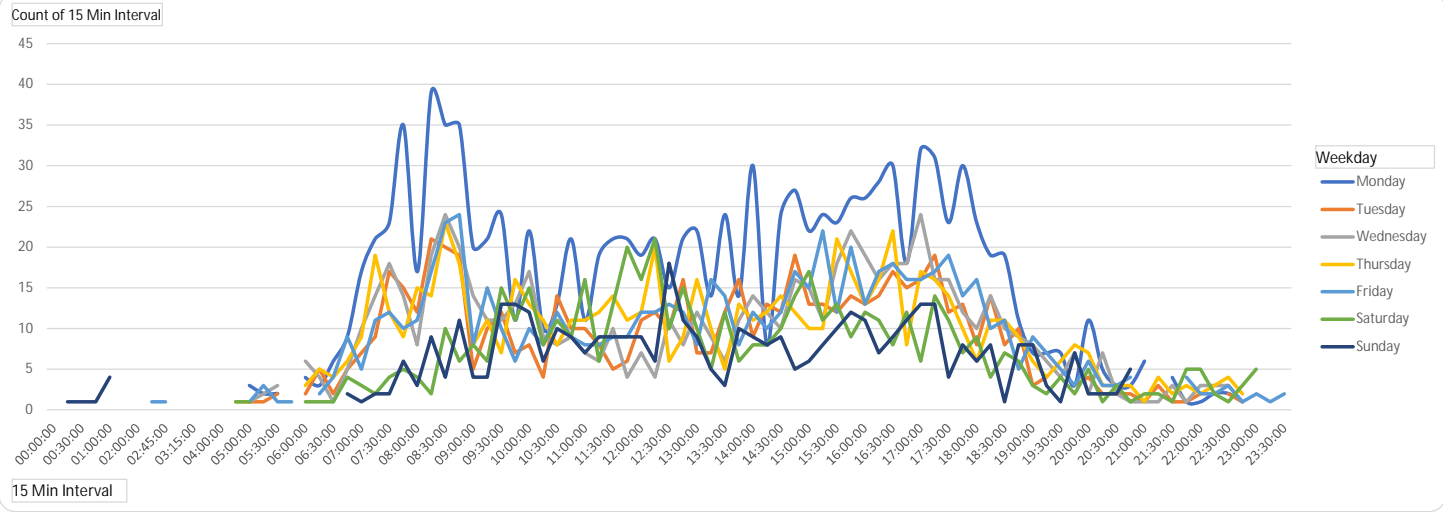


Week Commencing
11 October 2021
18 October 2021

Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
12

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
00:00:00	1	1		1				3
00:15:00						1	1	2
00:30:00			1		2		1	4
00:45:00							1	1
01:00:00	2			1			4	7
01:15:00			1			1		2
02:00:00	1							1
02:15:00					1			1
02:45:00					1			1
03:00:00				1				1
03:15:00					1			1
03:30:00						1		1
04:00:00	1							1
04:45:00				1		1		2
05:00:00	3	1	1	1	1	1		8
05:15:00	2	1	2		3			8
05:30:00	2	2	3	3	1	1		12
05:45:00					1			1
06:00:00	4	2	6	3		1		16
06:15:00	3	5	4	5	2	1	2	22
06:30:00	6	2	1	4	4	1		18
06:45:00	9	5	5	6	9	4	2	40
07:00:00	17	7	10	9	5	3	1	52
07:15:00	21	9	14	19	11	2	2	78

Row Labels	07-19	06-22	06-00	00-00
Monday	1060	1139	1147	1159
Tuesday	574	614	619	624
Wednesday	614	673	684	692
Thursday	603	671	684	692
Friday	612	673	686	697
Saturday	466	504	521	527
Sunday	380	415	417	424
<b>Grand Total</b>	<b>4309</b>	<b>4689</b>	<b>4758</b>	<b>4815</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	0.60	0.43
00:15:00	0.00	0.29
00:30:00	0.60	0.57
00:45:00	0.00	0.14
01:00:00	0.60	1.00
01:15:00	0.20	0.29
02:00:00	0.20	0.14
02:15:00	0.20	0.14
02:45:00	0.20	0.14
03:00:00	0.20	0.14
03:15:00	0.20	0.14
03:30:00	0.00	0.14
04:00:00	0.20	0.14
04:45:00	0.20	0.29
05:00:00	1.40	1.14
05:15:00	1.60	1.14
05:30:00	2.20	1.71
05:45:00	0.20	0.14
06:00:00	3.00	2.29
06:15:00	3.80	3.14
06:30:00	3.40	2.57
06:45:00	6.80	5.71
07:00:00	9.60	7.43
07:15:00	14.80	11.14
07:30:00	16.40	12.57

07:30:00	23	17	18	12	12	4	2	88
07:45:00	35	15	14	9	10	5	6	94
08:00:00	17	12	8	15	11	4	3	70
08:15:00	39	21	19	14	17	2	9	121
08:30:00	35	20	24	23	23	10	4	139
08:45:00	35	19	20	18	24	6	11	133
09:00:00	20	5	14	8	8	8	4	67
09:15:00	21	10	11	11	15	6	4	78
09:30:00	24	12	11	7	10	15	13	92
09:45:00	11	7	13	16	6	11	13	77
10:00:00	22	8	17	13	10	15	12	97
10:15:00	10	4	9	11	8	8	6	56
10:30:00	13	14	8	8	12	11	10	76
10:45:00	21	10	9	11	9	9	9	78
11:00:00	11	10	7	11	8	16	7	70
11:15:00	19	8	6	12	8	6	9	68
11:30:00	21	5	10	14	9	13	9	81
11:45:00	21	6	4	11	9	20	9	80
12:00:00	19	11	7	12	12	16	9	86
12:15:00	21	12	4	20	12	21	6	96
12:30:00	15	10	11	6	13	10	18	83
12:45:00	21	16	8	9	12	15	11	92
13:00:00	22	7	12	16	8	10	9	84
13:15:00	14	7	9	10	16	5	5	66
13:30:00	24	12	6	5	14	12	3	76
13:45:00	14	16	11	13	8	6	10	78
14:00:00	30	9	14	11	12	8	9	93
14:15:00	8	13	12	12	10	8	8	71
14:30:00	24	12	10	14	12	10	9	91
14:45:00	27	19	16	12	17	14	5	110
15:00:00	22	13	15	10	15	17	6	98
15:15:00	24	13	11	10	22	11	8	99
15:30:00	23	12	18	21	12	13	10	109
15:45:00	26	14	22	17	20	9	12	120
16:00:00	26	13	19	13	13	12	11	107
16:15:00	28	14	16	16	17	11	7	109
16:30:00	30	17	18	22	18	8	9	122
16:45:00	18	15	18	8	16	12	11	98
17:00:00	32	16	24	17	16	6	13	124
17:15:00	31	19	16	16	17	14	13	126
17:30:00	23	12	16	14	19	11	4	99
17:45:00	30	13	12	10	14	7	8	94
18:00:00	23	8	10	6	16	9	6	78
18:15:00	19	14	14	11	10	4	8	80
18:30:00	19	8	10	11	11	7	1	67
18:45:00	11	10	9	9	5	6	8	58
19:00:00	7	3	8	6	9	3	8	44
19:15:00	7	4	6	4	7	2	3	33
19:30:00	7		4	6	5	4	1	27
19:45:00	3	3	7	8	3	2	7	33

07:45:00	16.60	13.43
08:00:00	12.60	10.00
08:15:00	22.00	17.29
08:30:00	25.00	19.86
08:45:00	23.20	19.00
09:00:00	11.00	9.57
09:15:00	13.60	11.14
09:30:00	12.80	13.14
09:45:00	10.60	11.00
10:00:00	14.00	13.86
10:15:00	8.40	8.00
10:30:00	11.00	10.86
10:45:00	12.00	11.14
11:00:00	9.40	10.00
11:15:00	10.60	9.71
11:30:00	11.80	11.57
11:45:00	10.20	11.43
12:00:00	12.20	12.29
12:15:00	13.80	13.71
12:30:00	11.00	11.86
12:45:00	13.20	13.14
13:00:00	13.00	12.00
13:15:00	11.20	9.43
13:30:00	12.20	10.86
13:45:00	12.40	11.14
14:00:00	15.20	13.29
14:15:00	11.00	10.14
14:30:00	14.40	13.00
14:45:00	18.20	15.71
15:00:00	15.00	14.00
15:15:00	16.00	14.14
15:30:00	17.20	15.57
15:45:00	19.80	17.14
16:00:00	16.80	15.29
16:15:00	18.20	15.57
16:30:00	21.00	17.43
16:45:00	15.00	14.00
17:00:00	21.00	17.71
17:15:00	19.80	18.00
17:30:00	16.80	14.14
17:45:00	15.80	13.43
18:00:00	12.60	11.14
18:15:00	13.60	11.43
18:30:00	11.80	9.57
18:45:00	8.80	8.29
19:00:00	6.60	6.29
19:15:00	5.60	4.71
19:30:00	4.40	3.86
19:45:00	4.80	4.71
20:00:00	6.00	5.29

20:00:00	11	4	2	7	6	5	2	37
20:15:00	5	2	7	3	3	1	2	23
20:30:00	3	2	2	3	3	3	2	18
20:45:00	3	2	1	3	4	1	5	19
21:00:00	6	1	1	1		2		11
21:15:00		3	1	4	2	2		12
21:30:00	4	1	3	2		1	1	12
21:45:00	1	1	1	3	4	5		15
22:00:00	1	2	3	2	2	5	1	16
22:15:00	2		3	3	2	2		12
22:30:00	2	2	3	4	3	1		15
22:45:00	1	1	1	2	1	3		9
23:00:00					2	5	1	8
23:15:00					1			1
23:30:00	2		1	2	2	1		8
Grand Total	1159	624	692	692	697	527	424	4815

20:15:00	4.00	3.29
20:30:00	2.60	2.57
20:45:00	2.60	2.71
21:00:00	1.80	1.57
21:15:00	2.00	1.71
21:30:00	2.00	1.71
21:45:00	2.00	2.14
22:00:00	2.00	2.29
22:15:00	2.00	1.71
22:30:00	2.80	2.14
22:45:00	1.20	1.29
23:00:00	0.40	1.14
23:15:00	0.20	0.14
23:30:00	1.40	1.14
Grand Total	772.80	687.86

Class	Axis	Reason	Description	Parameters	Dimension Details	Buttons
11	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m		Light
12	017	3	Short Towing - Trailer - Car sign (in)	001+0.1m, 002+0.2m, 003+0.2m & 004+0.2m		Light
13	017	3	Long axle truck (in)	001+0.1m & 002+0.2m		Light
14	017	3	Three axle truck (in)	001+0.1m & 002+0.2m		Light
15	14	0.1	Four axle truck	001+0.1m & 002+0.2m		Light
16	017	3	Three axle articulated vehicle or rigid vehicle and trailer	001+0.1m, 002+0.2m & 003+0.2m		Light
17	017	3	Four axle articulated vehicle or rigid vehicle and trailer	001+0.1m, 002+0.2m, 003+0.2m & 004+0.2m		Light
18	017	3	Five axle articulated vehicle or rigid vehicle and trailer	001+0.1m, 002+0.2m, 003+0.2m & 004+0.2m		Light
19	017	3	Six (or more) axle articulated vehicle or rigid vehicle and trailer	001+0.1m, 002+0.2m, 003+0.2m & 004+0.2m		Light
20	017	3	Tractor or heavy truck and trailer	001+0.1m & 002+0.2m		Light
21	017	3	Double road train or heavy truck and two trailers	001+0.1m & 002+0.2m		Light
22	017	3	Triple road train or heavy truck and three (or more) trailers	001+0.1m & 002+0.2m		Light
23	017	3	Multitrailer	001+0.1m, 002+0.2m & 003+0.2m		Light
24	017	3	Trailer	001+0.1m & 002+0.2m		Light

**Week Commencing**

11 October 2021

18 October 2021

**Compass direction**

E

W

**Class**

1

2

3

4

5

**Weekday**

Monday

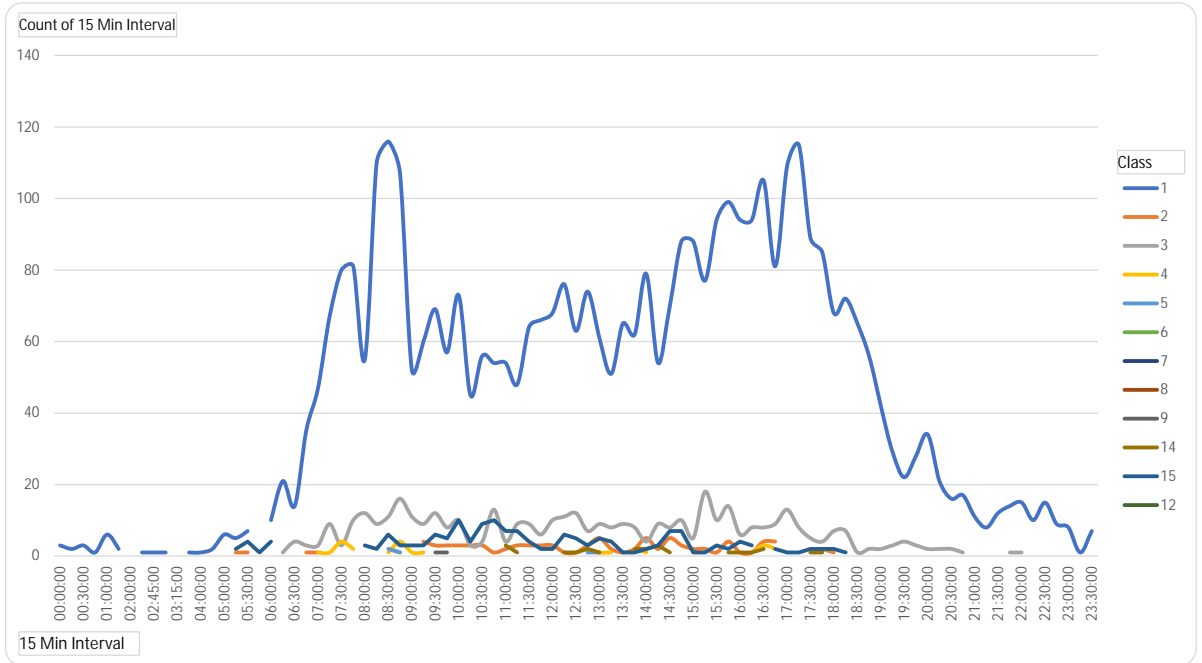
Tuesday

Wednesday

Thursday

Friday

Saturday



Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	14	15	12	Grand Total
00:00:00	Row Labels	3												3
00:15:00	Row Labels	2												2
00:30:00	Row Labels	3			1									4
00:45:00	Row Labels	1												1
01:00:00	Row Labels	6			1									7
01:15:00	Row Labels	2												2
02:00:00	Row Labels			1										1
02:15:00	Row Labels	1												1
02:45:00	Row Labels	1												1
03:00:00	Row Labels	1												1
03:15:00	Row Labels				1									1
03:30:00	Row Labels	1												1
04:00:00	Row Labels	1												1
04:45:00	Row Labels	2												2
05:00:00	Row Labels	6			2									8
05:15:00	Row Labels	5		1								2		8
05:30:00	Row Labels	7		1								4		12
05:45:00	Row Labels											1		1

Row Labels	07-19	06-22	06-00	00-00
Monday	1060	1139	1147	1159
Tuesday	574	614	619	624
Wednesday	614	673	684	692
Thursday	603	671	684	692
Friday	612	673	686	697
Saturday	466	504	521	527
Sunday	380	415	417	424
Grand Total	4309	4689	4758	4815

Row Labels	Average 5 Days	σ of Average 7 D
00:00:00	0.60	0.43
00:15:00	0.00	0.29
00:30:00	0.60	0.57
00:45:00	0.00	0.14
01:00:00	0.60	1.00
01:15:00	0.20	0.29
02:00:00	0.20	0.14
02:15:00	0.20	0.14
02:45:00	0.20	0.14
03:00:00	0.20	0.14
03:15:00	0.20	0.14
03:30:00	0.00	0.14
04:00:00	0.20	0.14
04:45:00	0.20	0.29
05:00:00	1.40	1.14
05:15:00	1.60	1.14
05:30:00	2.20	1.71
05:45:00	0.20	0.14
06:00:00	3.00	2.29

06:00:00	10	2				4	16
06:15:00	21		1				22
06:30:00	14		4				18
06:45:00	35	1	3		1		40
07:00:00	47	1	3	1			52
07:15:00	67		9	1		1	78
07:30:00	80		3	4		1	88
07:45:00	81	1	10	2			94
08:00:00	55		12			3	70
08:15:00	110		9			2	121
08:30:00	116	2	11	1	2	1	139
08:45:00	107	1	16	4	1	1	133
09:00:00	52		11	1		3	67
09:15:00	60	4	9	1	1	3	78
09:30:00	69	3	12			1	92
09:45:00	57	3	8	1	1	1	77
10:00:00	73	3	10			1	97
10:15:00	45	3	3			1	56
10:30:00	56	3	4	1		3	76
10:45:00	54	1	13			10	78
11:00:00	54	2	4			3	70
11:15:00	48	3	9			1	68
11:30:00	64	3	9	1		4	81
11:45:00	66	3	6			2	80
12:00:00	68	3	10		1	2	86
12:15:00	76	1	11	1		1	96
12:30:00	63	1	12			1	83
12:45:00	74	3	7	2	1	2	92
13:00:00	61	5	9	1	1	1	84
13:15:00	51	2	8	1			66
13:30:00	65	1	9			1	76
13:45:00	62	2	8	2		1	78
14:00:00	79	5	4	1		2	93
14:15:00	54	2	9			3	71
14:30:00	70	5	8			1	91
14:45:00	88	3	10		1	1	110
15:00:00	88	2	5	1	1		98
15:15:00	77	2	18			1	99
15:30:00	94	1	10			1	109
15:45:00	99	4	14			1	120
16:00:00	94	1	6	1		1	107
16:15:00	94	1	8	1		1	109
16:30:00	105	4	8	3		2	122
16:45:00	81	4	9	2			98
17:00:00	109		13			1	124
17:15:00	115	2	8			1	126
17:30:00	89		5	2		1	99
17:45:00	85	2	4			1	94
18:00:00	68	1	7			2	78

06:15:00	3.80	3.14
06:30:00	3.40	2.57
06:45:00	6.80	5.71
07:00:00	9.60	7.43
07:15:00	14.80	11.14
07:30:00	16.40	12.57
07:45:00	16.60	13.43
08:00:00	12.60	10.00
08:15:00	22.00	17.29
08:30:00	25.00	19.86
08:45:00	23.20	19.00
09:00:00	11.00	9.57
09:15:00	13.60	11.14
09:30:00	12.80	13.14
09:45:00	10.60	11.00
10:00:00	14.00	13.86
10:15:00	8.40	8.00
10:30:00	11.00	10.86
10:45:00	12.00	11.14
11:00:00	9.40	10.00
11:15:00	10.60	9.71
11:30:00	11.80	11.57
11:45:00	10.20	11.43
12:00:00	12.20	12.29
12:15:00	13.80	13.71
12:30:00	11.00	11.86
12:45:00	13.20	13.14
13:00:00	13.00	12.00
13:15:00	11.20	9.43
13:30:00	12.20	10.86
13:45:00	12.40	11.14
14:00:00	15.20	13.29
14:15:00	11.00	10.14
14:30:00	14.40	13.00
14:45:00	18.20	15.71
15:00:00	15.00	14.00
15:15:00	16.00	14.14
15:30:00	17.20	15.57
15:45:00	19.80	17.14
16:00:00	16.80	15.29
16:15:00	18.20	15.57
16:30:00	21.00	17.43
16:45:00	15.00	14.00
17:00:00	21.00	17.71
17:15:00	19.80	18.00
17:30:00	16.80	14.14
17:45:00	15.80	13.43
18:00:00	12.60	11.14
18:15:00	13.60	11.43

18:15:00	72		7							1											80	
18:30:00	65		1	1																		67
18:45:00	56			2																		58
19:00:00	42			2																		44
19:15:00	29			3	1																	33
19:30:00	22		1	4																		27
19:45:00	28			3	2																	33
20:00:00	34		1	2																		37
20:15:00	21			2																		23
20:30:00	16			2																		18
20:45:00	17		1	1																		19
21:00:00	11																					11
21:15:00	8		2	2																		12
21:30:00	12																					12
21:45:00	14			1																		15
22:00:00	15			1																		16
22:15:00	10		2																			12
22:30:00	15																					15
22:45:00	9																					9
23:00:00	8																					8
23:15:00	1																					1
23:30:00	7			1																		8
Grand Total	4004		106	438	37	12	4	7	4	4	31	167	1									4815

18:30:00	11.80	9.57
18:45:00	8.80	8.29
19:00:00	6.60	6.29
19:15:00	5.60	4.71
19:30:00	4.40	3.86
19:45:00	4.80	4.71
20:00:00	6.00	5.29
20:15:00	4.00	3.29
20:30:00	2.60	2.57
20:45:00	2.60	2.71
21:00:00	1.80	1.57
21:15:00	2.00	1.71
21:30:00	2.00	1.71
21:45:00	2.00	2.14
22:00:00	2.00	2.29
22:15:00	2.00	1.71
22:30:00	2.80	2.14
22:45:00	1.20	1.29
23:00:00	0.40	1.14
23:15:00	0.20	0.14
23:30:00	1.40	1.14
Grand Total	772.80	687.86

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	1159	43.11	52.13	58.00	35	3.02%	3	0.26%	2	0.17%
Tuesday	624	42.71	52.00	57.27	18	2.88%	2	0.32%	0	0.00%
Wednesday	692	42.92	52.24	56.89	16	2.31%	3	0.43%	0	0.00%
Thursday	692	43.88	52.64	57.97	24	3.47%	1	0.14%	0	0.00%
Friday	697	43.56	52.40	57.70	16	2.30%	2	0.29%	1	0.14%
Saturday	527	42.08	53.22	57.10	9	1.71%	2	0.38%	0	0.00%
Sunday	424	41.62	50.86	55.97	6	1.42%	0	0.00%	0	0.00%
5day	3864	43.23	52.30	57.60	109	2.82%	11	0.28%	3	0.08%
7day	4815	42.96	52.30	57.40	124	2.58%	13	0.27%	3	0.06%



# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 11



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

Compass direction
E
W

Class
1
2
3
4
5
8
9
14
15

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
873	0.11%	43.87%	5.84%

Count of	Compass direction	Column Labels	
Row Labels	W	E	Grand Total
11 October 2021	406	359	765
18 October 2021	58	50	108
Grand Total	464	409	873

Count of	Compass direction	Column Labels
Row Labels	W	E
Monday	125	104
Tuesday	51	43
Wednesday	69	57
Thursday	51	50
Friday	70	60
Saturday	53	50
Sunday	45	45
Grand Total	464	409

Row Labels	Count of Class	Count of Class2
1	635	72.74%
2	35	4.01%
3	81	9.28%
4	13	1.49%
5	12	1.37%
8	4	0.46%
9	4	0.46%
14	13	1.49%
15	76	8.71%
Grand Total	873	100.00%

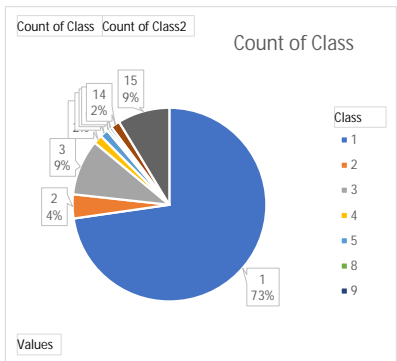
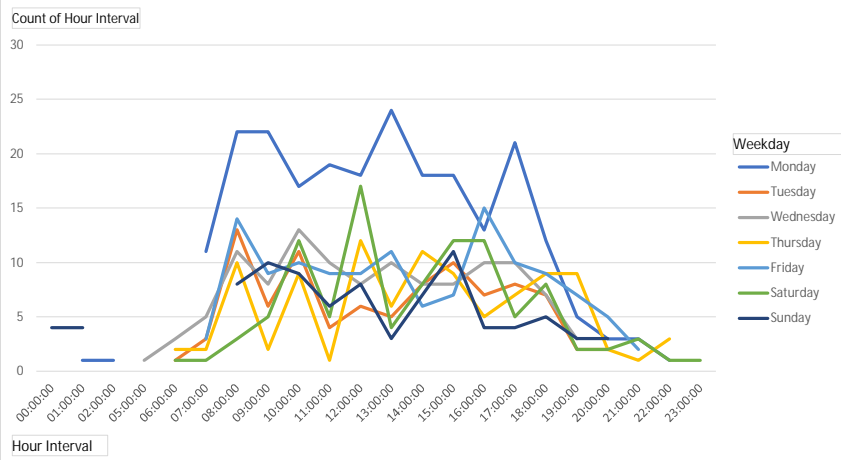
Average of Speed	Column Labels	
Row Labels	W	E
Monday	31.83	32.93
Tuesday	34.32	31.46
Wednesday	30.76	29.07
Thursday	33.62	35.47
Friday	32.40	31.90
Saturday	28.26	31.97
Sunday	30.38	31.44
Grand Total	31.68	32.11

% Over PSL	% Over ACPO	% Over DFT
0.11%	43.87%	5.84%

vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)

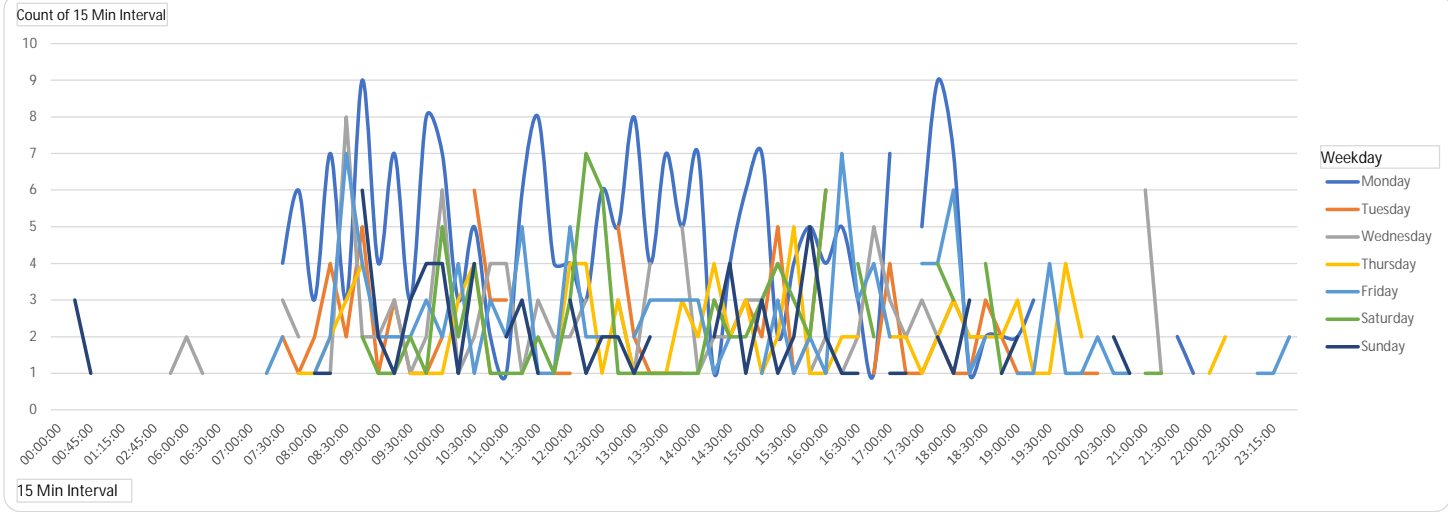


Week Commencing
11 October 2021
18 October 2021

Compass direction
E
W

Class
1
2
3
4
5
8
9
14
15
6

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Grand Total
00:00:00		1		1				2
00:30:00			1				3	4
00:45:00							1	1
01:00:00	1							1
01:15:00							4	4
02:30:00	1							1
02:45:00						1		1
05:15:00			1					1
06:00:00		1	2	1				4
06:15:00			1					1
06:30:00				1				1
06:45:00						1	1	2
07:00:00	1							1
07:15:00				1	1			2
07:30:00	4	2	3		2	1		12
07:45:00	6	1	2	1				10
08:00:00	3	2		1	1	1	1	9
08:15:00	7	4	1	2	2		1	17
08:30:00	3	2	8	3	7			23
08:45:00	9	5	2	4	4	2	6	32
09:00:00	4	1	2		2	1	2	12
09:15:00	7	3	3		2	1	1	17
09:30:00	3	1	1	1	2	2	3	13
09:45:00	8	1	2	1	3	1	4	20

Row Labels	07-19	06-22	06-00	00-00
Monday	215	226	227	229
Tuesday	88	93	93	94
Wednesday	108	121	124	126
Thursday	83	97	100	101
Friday	112	126	130	130
Saturday	92	100	102	103
Sunday	75	82	82	90
<b>Grand Total</b>	<b>773</b>	<b>845</b>	<b>858</b>	<b>873</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	0.40	0.29
00:30:00	0.20	0.57
00:45:00	0.00	0.14
01:00:00	0.20	0.14
01:15:00	0.00	0.57
02:30:00	0.20	0.14
02:45:00	0.00	0.14
05:15:00	0.20	0.14
06:00:00	0.80	0.57
06:15:00	0.20	0.14
06:30:00	0.20	0.14
06:45:00	0.00	0.29
07:00:00	0.20	0.14
07:15:00	0.40	0.29
07:30:00	2.20	1.71
07:45:00	2.00	1.43
08:00:00	1.40	1.29
08:15:00	3.20	2.43
08:30:00	4.60	3.29
08:45:00	4.80	4.57
09:00:00	1.80	1.71
09:15:00	3.00	2.43
09:30:00	1.60	1.86
09:45:00	3.00	2.86
10:00:00	3.60	3.86

10:00:00	7	2	6	1	2	5	4	27
10:15:00	3		1	3	4	2	1	14
10:30:00	5	6	2	4	1	4	4	26
10:45:00	2	3	4	1	3	1		14
11:00:00	1	3	4		2	1	2	13
11:15:00	6		1		5	1	3	16
11:30:00	8		3		1	2	1	15
11:45:00	4	1	2	1	1	1		10
12:00:00	4	1	2	4	5	3	3	22
12:15:00	3		3	4	2	7	1	20
12:30:00	6			1	2	6	2	17
12:45:00	5	5	3	3		1	2	19
13:00:00	8	2	1	1	2	1	1	16
13:15:00	4	1	4	1	3	1	2	16
13:30:00	7	1		1	3	1		13
13:45:00	5	1	5	3	3	1		18
14:00:00	7		1	2	3	1		14
14:15:00	1	3	2	4	1	3	2	16
14:30:00	4	2	2	2	2	2	4	18
14:45:00	6	3	3	3		2	1	18
15:00:00	7	2	3	1	1	3	3	20
15:15:00	2	5	4	2	3	4	1	21
15:30:00	4	1		5	1	3	2	16
15:45:00	5	2	1	1	2	2	5	18
16:00:00	4	6	2	1	1	6	2	22
16:15:00	5		1	2	7		1	16
16:30:00	3		2	2	3	4	1	15
16:45:00	1	1	5		4	2		13
17:00:00	7	4	3	2	2		1	19
17:15:00		1	2	2		1	1	7
17:30:00	5	1	3	1	4			14
17:45:00	9	2	2	2	4	4	2	25
18:00:00	7	1	3	3	6	3	1	24
18:15:00	1	1	2	2	1		3	10
18:30:00	2	3	2	2	2	4		15
18:45:00	2	2		2		1	1	8
19:00:00	2	1		3	1		2	9
19:15:00	3	1	1	1	1			7
19:30:00				1	4	2		7
19:45:00			2	4	1		1	8
20:00:00	3	1		2	1	2		9
20:15:00		1			2			3
20:30:00					1		2	3
20:45:00					1		1	2
21:00:00			6			1		7
21:15:00			1	1	2	1		5
21:30:00	2							2
21:45:00	1					1		2
22:00:00				1				1
22:15:00				2		1		3

10:15:00	2.20	2.00
10:30:00	3.60	3.71
10:45:00	2.60	2.00
11:00:00	2.00	1.86
11:15:00	2.40	2.29
11:30:00	2.40	2.14
11:45:00	1.80	1.43
12:00:00	3.20	3.14
12:15:00	2.40	2.86
12:30:00	1.80	2.43
12:45:00	3.20	2.71
13:00:00	2.80	2.29
13:15:00	2.60	2.29
13:30:00	2.40	1.86
13:45:00	3.40	2.57
14:00:00	2.60	2.00
14:15:00	2.20	2.29
14:30:00	2.40	2.57
14:45:00	3.00	2.57
15:00:00	2.80	2.86
15:15:00	3.20	3.00
15:30:00	2.20	2.29
15:45:00	2.20	2.57
16:00:00	2.80	3.14
16:15:00	3.00	2.29
16:30:00	2.00	2.14
16:45:00	2.20	1.86
17:00:00	3.60	2.71
17:15:00	1.00	1.00
17:30:00	2.80	2.00
17:45:00	3.80	3.57
18:00:00	4.00	3.43
18:15:00	1.40	1.43
18:30:00	2.20	2.14
18:45:00	1.20	1.14
19:00:00	1.40	1.29
19:15:00	1.40	1.00
19:30:00	1.00	1.00
19:45:00	1.40	1.14
20:00:00	1.40	1.29
20:15:00	0.60	0.43
20:30:00	0.20	0.43
20:45:00	0.20	0.29
21:00:00	1.20	1.00
21:15:00	0.80	0.71
21:30:00	0.40	0.29
21:45:00	0.20	0.29
22:00:00	0.20	0.14
22:15:00	0.40	0.43
22:30:00	0.20	0.14

22:30:00	1							1
23:00:00		3		1	1			5
23:15:00				1				1
23:30:00				2				2
Grand Total	229	94	126	101	130	103	90	873

23:00:00	0.80	0.71
23:15:00	0.20	0.14
23:30:00	0.40	0.29
Grand Total	136.00	124.71

Class	Axis	Access	Description	Parameters	Dimension Details	Attributes
1	017	0	008 0	001+0.0m, 002+0.0m & access	001+0.0m, 002+0.0m & access	Light
2	017	0	008 0	001+0.0m, 002+0.0m & access	001+0.0m, 002+0.0m & access	Light
3	017	0	008 0	001+0.0m, 002+0.0m & access	001+0.0m, 002+0.0m & access	Light
4	017	0	008 0	001+0.0m, 002+0.0m & access	001+0.0m, 002+0.0m & access	Light
5	017	0	008 0	001+0.0m, 002+0.0m & access	001+0.0m, 002+0.0m & access	Light
6	017	0	008 0	001+0.0m, 002+0.0m & access	001+0.0m, 002+0.0m & access	Light
7	017	0	008 0	001+0.0m, 002+0.0m & access	001+0.0m, 002+0.0m & access	Light
8	017	0	008 0	001+0.0m, 002+0.0m & access	001+0.0m, 002+0.0m & access	Light
9	017	0	008 0	001+0.0m, 002+0.0m & access	001+0.0m, 002+0.0m & access	Light
10	017	0	008 0	001+0.0m, 002+0.0m & access	001+0.0m, 002+0.0m & access	Light
11	017	0	008 0	001+0.0m, 002+0.0m & access	001+0.0m, 002+0.0m & access	Light
12	017	0	008 0	001+0.0m, 002+0.0m & access	001+0.0m, 002+0.0m & access	Light
13	017	0	008 0	001+0.0m, 002+0.0m & access	001+0.0m, 002+0.0m & access	Light
14	017	0	008 0	001+0.0m, 002+0.0m & access	001+0.0m, 002+0.0m & access	Light
15	017	0	008 0	001+0.0m, 002+0.0m & access	001+0.0m, 002+0.0m & access	Light

Week Commencing

11 October 2021

18 October 2021

Compass direction

E

W

Class

1

2

3

4

5

Weekday

Monday

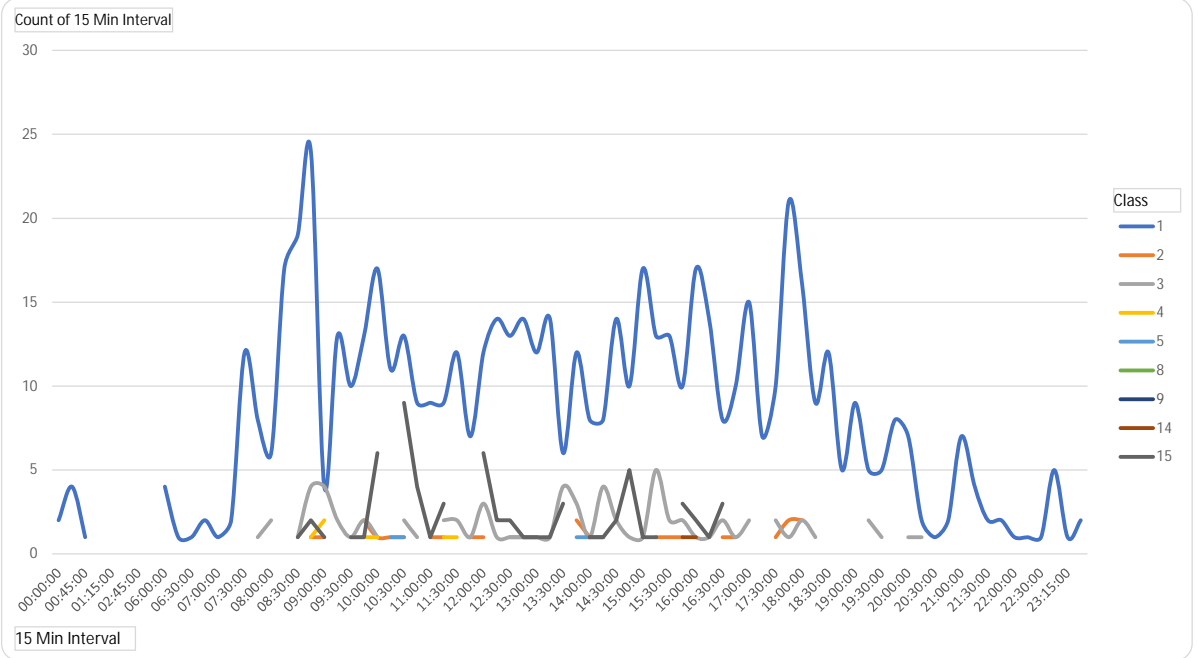
Tuesday

Wednesday

Thursday

Friday

Saturday



Count of 15 Min Interval	Column Labels	1	2	3	4	5	8	9	14	15 nd T
00:00:00	Row Labels	2								2
00:30:00	Row Labels	4								4
00:45:00	Row Labels	1								1
01:00:00	Row Labels			1						1
01:15:00	Row Labels	4								4
02:30:00	Row Labels			1						1
02:45:00	Row Labels	1								1
05:15:00	Row Labels								1	1
06:00:00	Row Labels	4								4
06:15:00	Row Labels	1								1
06:30:00	Row Labels	1								1
06:45:00	Row Labels	2								2
07:00:00	Row Labels	1								1
07:15:00	Row Labels	2								2
07:30:00	Row Labels	12								12
07:45:00	Row Labels	8		1	1					10
08:00:00	Row Labels	6		2					1	9
08:15:00	Row Labels	17								17

Row Labels	07-19	06-22	06-00	00-00
Monday	215	226	227	229
Tuesday	88	93	93	94
Wednesday	108	121	124	126
Thursday	83	97	100	101
Friday	112	126	130	130
Saturday	92	100	102	103
Sunday	75	82	82	90
Grand Total	773	845	858	873

Row Labels	Average 5 Days	1 of Average 7 D
00:00:00	0.40	0.29
00:30:00	0.20	0.57
00:45:00	0.00	0.14
01:00:00	0.20	0.14
01:15:00	0.00	0.57
02:30:00	0.20	0.14
02:45:00	0.00	0.14
05:15:00	0.20	0.14
06:00:00	0.80	0.57
06:15:00	0.20	0.14
06:30:00	0.20	0.14
06:45:00	0.00	0.29
07:00:00	0.20	0.14
07:15:00	0.40	0.29
07:30:00	2.20	1.71
07:45:00	2.00	1.43
08:00:00	1.40	1.29
08:15:00	3.20	2.43
08:30:00	4.60	3.29

08:30:00	19		1		2		1	23
08:45:00	24		1	4	1			2 32
09:00:00	4		1	4	2			1 12
09:15:00	13			2		1	1	17
09:30:00	10			1	1			1 13
09:45:00	13		2	2	1		1	1 20
10:00:00	17		1	1	1			1 6 27
10:15:00	11		1			1	1	14
10:30:00	13		1	2		1		9 26
10:45:00	9			1				4 14
11:00:00	9		1					2 1 13
11:15:00	9		1	2	1			3 16
11:30:00	12			2	1			15
11:45:00	7		1	1			1	10
12:00:00	12		1	3				6 22
12:15:00	14			1	1	1		1 2 20
12:30:00	13		1	1				2 17
12:45:00	14		1	1		1	1	1 1 19
13:00:00	12		1	1		1		1 16
13:15:00	14			1				1 16
13:30:00	6			4				3 13
13:45:00	12		2	3		1		18
14:00:00	8		1	1		1	1	1 1 14
14:15:00	8			4	1		1	1 1 16
14:30:00	14			2				2 18
14:45:00	10		2	1				5 18
15:00:00	17			1			1	1 1 20
15:15:00	13		1	5		1		1 21
15:30:00	13		1	2				16
15:45:00	10		1	2	1			1 3 18
16:00:00	17			1		1		1 2 22
16:15:00	14			1				1 16
16:30:00	8		1	2		1		3 15
16:45:00	10		1	1			1	13
17:00:00	15			2				2 19
17:15:00	7							7
17:30:00	10		1	2				1 14
17:45:00	21		2	1	1			25
18:00:00	16		2	2				4 24
18:15:00	9			1				10
18:30:00	12					1		2 15
18:45:00	5		1	2				8
19:00:00	9							9
19:15:00	5			2				7
19:30:00	5		1	1				7
19:45:00	8							8
20:00:00	7		1	1				9
20:15:00	2			1				3
20:30:00	1						2	3

08:45:00	4.80	4.57
09:00:00	1.80	1.71
09:15:00	3.00	2.43
09:30:00	1.60	1.86
09:45:00	3.00	2.86
10:00:00	3.60	3.86
10:15:00	2.20	2.00
10:30:00	3.60	3.71
10:45:00	2.60	2.00
11:00:00	2.00	1.86
11:15:00	2.40	2.29
11:30:00	2.40	2.14
11:45:00	1.80	1.43
12:00:00	3.20	3.14
12:15:00	2.40	2.86
12:30:00	1.80	2.43
12:45:00	3.20	2.71
13:00:00	2.80	2.29
13:15:00	2.60	2.29
13:30:00	2.40	1.86
13:45:00	3.40	2.57
14:00:00	2.60	2.00
14:15:00	2.20	2.29
14:30:00	2.40	2.57
14:45:00	3.00	2.57
15:00:00	2.80	2.86
15:15:00	3.20	3.00
15:30:00	2.20	2.29
15:45:00	2.20	2.57
16:00:00	2.80	3.14
16:15:00	3.00	2.29
16:30:00	2.00	2.14
16:45:00	2.20	1.86
17:00:00	3.60	2.71
17:15:00	1.00	1.00
17:30:00	2.80	2.00
17:45:00	3.80	3.57
18:00:00	4.00	3.43
18:15:00	1.40	1.43
18:30:00	2.20	2.14
18:45:00	1.20	1.14
19:00:00	1.40	1.29
19:15:00	1.40	1.00
19:30:00	1.00	1.00
19:45:00	1.40	1.14
20:00:00	1.40	1.29
20:15:00	0.60	0.43
20:30:00	0.20	0.43
20:45:00	0.20	0.29





Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	229	32.33	40.48	43.72	0	0.00%	98	42.79%	9	3.93%
Tuesday	94	33.01	42.90	45.47	0	0.00%	44	46.81%	7	7.45%
Wednesday	126	30.00	40.70	44.20	0	0.00%	41	32.54%	6	4.76%
Thursday	101	34.53	43.20	48.60	0	0.00%	54	53.47%	10	9.90%
Friday	130	32.17	41.03	45.96	0	0.00%	70	53.85%	10	7.69%
Saturday	103	30.06	39.88	44.83	1	0.97%	36	34.95%	5	4.85%
Sunday	90	30.91	39.96	44.96	0	0.00%	40	44.44%	4	4.44%
5day	680	32.29	41.70	45.41	0	0.00%	307	45.15%	42	6.18%
7day	873	31.88	41.22	45.40	1	0.11%	383	43.87%	51	5.84%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 12



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

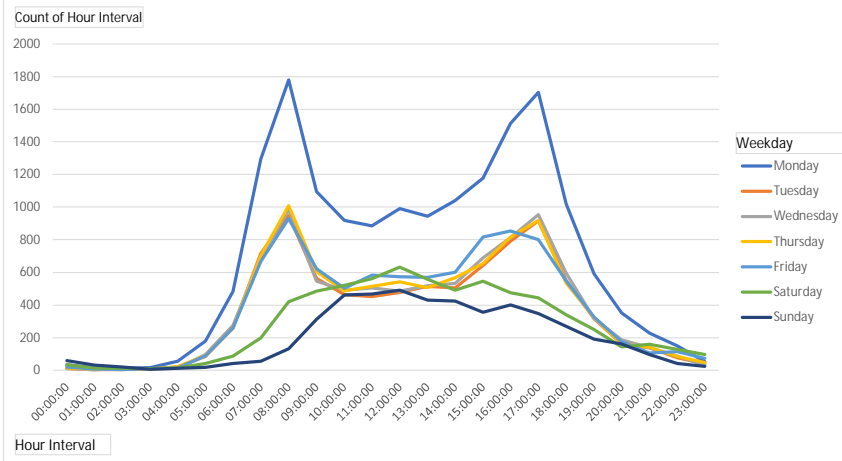
Week Commencing
18 October 2021
11 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
10
11
12

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
64007	66.80%	32.54%	4.02%

Count of	Compass direction	Column Labels	Grand Total
Row Labels	N	S	
11 October 2021	28310	27636	55946
18 October 2021	4117	3944	8061
Grand Total	32427	31580	64007



Count of	Compass direction	Column Labels
Row Labels	N	S
Monday	8395	8141
Tuesday	4374	4288
Wednesday	4523	4463
Thursday	4529	4499
Friday	4721	4556
Saturday	3414	3246
Sunday	2471	2387
Grand Total	32427	31580

Average of Speed	Column Labels	
Row Labels	N	S
Monday	31.01	35.29
Tuesday	30.67	35.08
Wednesday	30.71	35.18
Thursday	30.71	35.00
Friday	31.02	35.55
Saturday	31.60	36.21
Sunday	32.14	36.63
Grand Total	31.03	35.44

% Over PSL	% Over ACPO	% Over DFT
66.80%	32.54%	4.02%

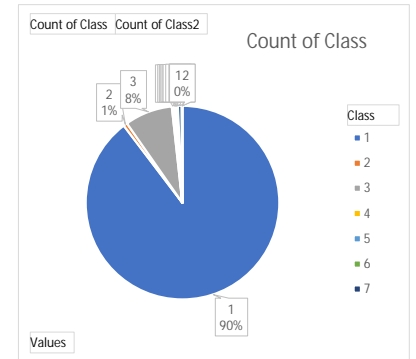
vehicles are travelling over posted speed limit (30mph)

vehicles are traveling 10% +2 over PSL (35mph)

vehicles are 15mph over PSL (45mph)



Row Labels	Count of Class	Count of Class2
1	57388	89.66%
2	397	0.62%
3	5116	7.99%
4	189	0.30%
5	135	0.21%
6	52	0.08%
7	69	0.11%
8	84	0.13%
9	96	0.15%
11	4	0.01%
14	385	0.60%
15	86	0.13%
10	5	0.01%
12	1	0.00%
Grand Total	64007	100.00%

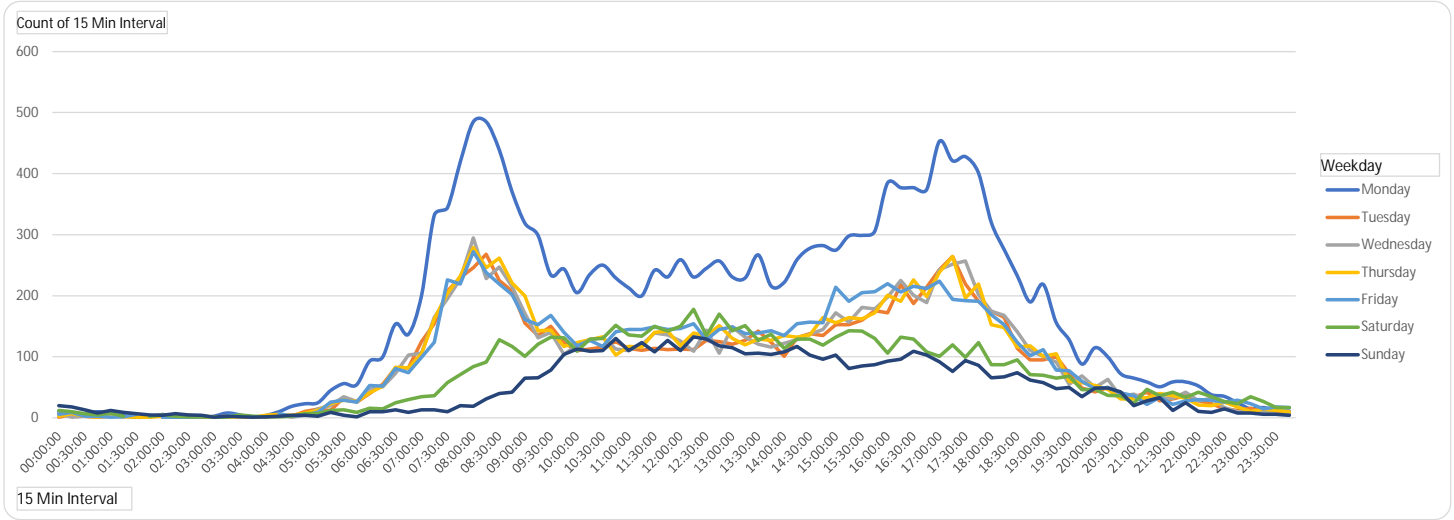


Week Commencing
11 October 2021
18 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
10

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels								Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday		
00:00:00	10	1	7	3	6	12	20		59
00:15:00	9	6	1	7	9	10	18		60
00:30:00	6	3	3	3	3	7	13		38
00:45:00	10	1	2	1	3	5	8		30
01:00:00	7	3		5	1	8	12		36
01:15:00	4		2	2	2	3	9		22
01:30:00	1	1		1	6		7		16
01:45:00	2		1	1		3	5		12
02:00:00	5	1	6	3	1	5	4		25
02:15:00	4	1	2	3	1	3	7		21
02:30:00	3	2	3	4	1	2	5		20
02:45:00	1	1	3	3	2	2	4		16
03:00:00	3	1	1	2	1	1	1		9
03:15:00	8	3	3	1	4	1	3		23
03:30:00	5	3	3	2	4	5	2		24
03:45:00		2		1	2	3	1		9
04:00:00	4	2	2	4		2	2		16
04:15:00	10	4	6	6	7	2	3		38
04:30:00	19	3	1	4	3	3	4		37
04:45:00	23	11	4	8	5	7	4		62
05:00:00	25	14	15	12	9	7	3		85
05:15:00	45	12	20	23	26	12	9		147
05:30:00	56	33	35	29	29	13	4		199
05:45:00	54	26	27	27	26	9	2		171

Row Labels	07-19	06-22	06-00	00-00
Monday	14363	16018	16222	16536
Tuesday	7537	8411	8528	8662
Wednesday	7806	8720	8839	8986
Thursday	7856	8741	8873	9028
Friday	8072	8940	9127	9277
Saturday	5674	6312	6535	6660
Sunday	4149	4641	4708	4858
<b>Grand Total</b>	<b>55457</b>	<b>61783</b>	<b>62832</b>	<b>64007</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	5.40	8.43
00:15:00	6.40	8.57
00:30:00	3.60	5.43
00:45:00	3.40	4.29
01:00:00	3.20	5.14
01:15:00	2.00	3.14
01:30:00	1.80	2.29
01:45:00	0.80	1.71
02:00:00	3.20	3.57
02:15:00	2.20	3.00
02:30:00	2.60	2.86
02:45:00	2.00	2.29
03:00:00	1.40	1.29
03:15:00	3.80	3.29
03:30:00	3.40	3.43
03:45:00	1.00	1.29
04:00:00	2.40	2.29
04:15:00	6.60	5.43
04:30:00	6.00	5.29
04:45:00	10.20	8.86
05:00:00	15.00	12.14
05:15:00	25.20	21.00
05:30:00	36.40	28.43
05:45:00	32.00	24.43
06:00:00	54.80	42.86

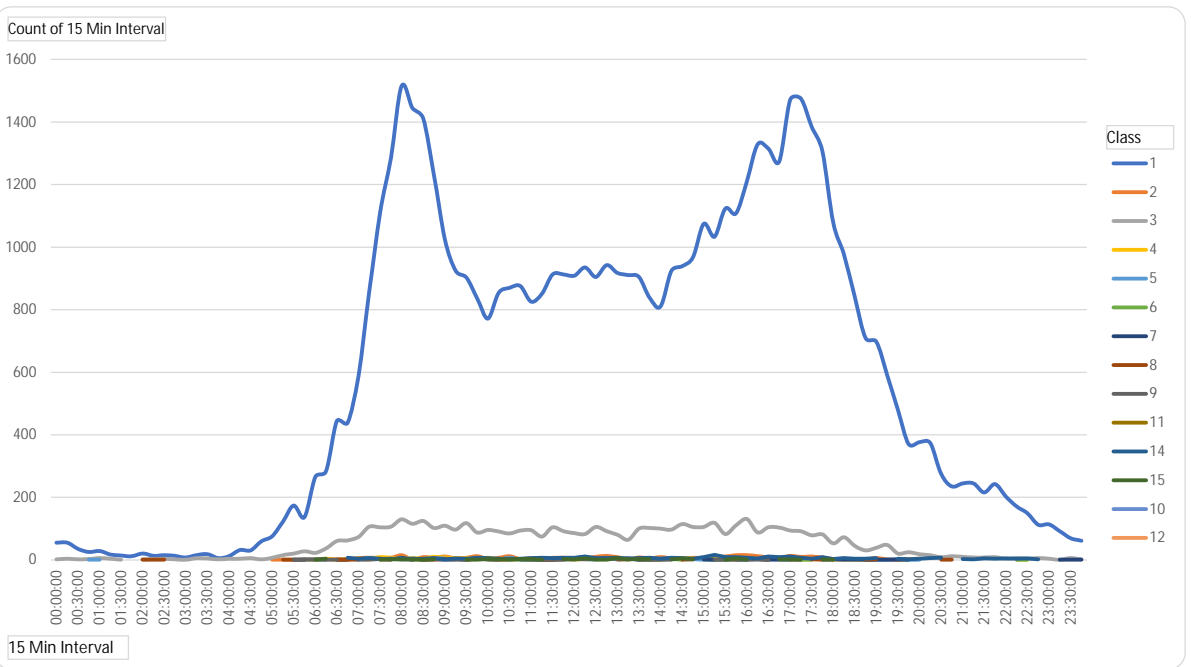
06:00:00	93	40	47	41	53	16	10	300
06:15:00	99	55	51	52	52	15	10	334
06:30:00	154	82	73	83	81	25	13	511
06:45:00	137	82	103	82	74	30	9	517
07:00:00	200	125	106	105	99	35	13	683
07:15:00	332	154	165	162	124	36	13	986
07:30:00	344	208	195	204	226	58	10	1245
07:45:00	419	230	227	232	219	71	20	1418
08:00:00	485	246	295	279	272	84	19	1680
08:15:00	485	268	228	246	238	91	31	1587
08:30:00	439	225	247	262	219	128	40	1560
08:45:00	370	208	215	221	202	117	42	1375
09:00:00	319	155	171	200	161	101	65	1172
09:15:00	299	135	131	143	153	121	66	1048
09:30:00	234	150	140	144	168	132	78	1046
09:45:00	244	123	104	117	140	131	104	963
10:00:00	205	110	120	123	118	109	113	898
10:15:00	235	113	128	128	127	129	109	969
10:30:00	250	116	131	133	117	130	110	987
10:45:00	229	125	113	103	141	152	130	993
11:00:00	213	114	110	117	145	136	110	945
11:15:00	200	111	120	116	145	134	123	949
11:30:00	242	114	139	140	149	150	108	1042
11:45:00	231	112	136	142	145	142	127	1035
12:00:00	259	113	126	118	146	150	110	1022
12:15:00	231	112	109	139	154	178	133	1056
12:30:00	245	127	144	134	128	135	129	1042
12:45:00	257	125	106	151	145	170	118	1072
13:00:00	231	121	149	130	149	143	115	1038
13:15:00	229	127	132	120	138	151	105	1002
13:30:00	267	142	121	129	139	127	106	1031
13:45:00	216	124	116	127	143	137	104	967
14:00:00	222	101	122	135	135	114	108	937
14:15:00	259	131	128	132	154	129	117	1050
14:30:00	278	138	137	136	157	129	103	1078
14:45:00	282	135	145	164	156	119	96	1097
15:00:00	275	153	172	156	214	132	103	1205
15:15:00	298	153	157	164	191	143	81	1187
15:30:00	299	160	181	162	205	142	85	1234
15:45:00	306	176	178	172	207	130	87	1256
16:00:00	385	172	198	201	220	106	93	1375
16:15:00	377	218	225	191	206	132	96	1445
16:30:00	377	187	201	226	216	129	109	1445
16:45:00	374	214	189	199	212	108	103	1399
17:00:00	453	243	243	239	224	101	92	1595
17:15:00	421	264	252	264	194	120	76	1591
17:30:00	428	219	257	196	192	99	94	1485
17:45:00	401	191	202	219	191	123	86	1413
18:00:00	320	175	175	153	169	87	66	1145
18:15:00	275	165	168	148	153	87	67	1063

06:15:00	61.80	47.71
06:30:00	94.60	73.00
06:45:00	95.60	73.86
07:00:00	127.00	97.57
07:15:00	187.40	140.86
07:30:00	235.40	177.86
07:45:00	265.40	202.57
08:00:00	315.40	240.00
08:15:00	293.00	226.71
08:30:00	278.40	222.86
08:45:00	243.20	196.43
09:00:00	201.20	167.43
09:15:00	172.20	149.71
09:30:00	167.20	149.43
09:45:00	145.60	137.57
10:00:00	135.20	128.29
10:15:00	146.20	138.43
10:30:00	149.40	141.00
10:45:00	142.20	141.86
11:00:00	139.80	135.00
11:15:00	138.40	135.57
11:30:00	156.80	148.86
11:45:00	153.20	147.86
12:00:00	152.40	146.00
12:15:00	149.00	150.86
12:30:00	155.60	148.86
12:45:00	156.80	153.14
13:00:00	156.00	148.29
13:15:00	149.20	143.14
13:30:00	159.60	147.29
13:45:00	145.20	138.14
14:00:00	143.00	133.86
14:15:00	160.80	150.00
14:30:00	169.20	154.00
14:45:00	176.40	156.71
15:00:00	194.00	172.14
15:15:00	192.60	169.57
15:30:00	201.40	176.29
15:45:00	207.80	179.43
16:00:00	235.20	196.43
16:15:00	243.40	206.43
16:30:00	241.40	206.43
16:45:00	237.60	199.86
17:00:00	280.40	227.86
17:15:00	279.00	227.29
17:30:00	258.40	212.14
17:45:00	240.80	201.86
18:00:00	198.40	163.57
18:15:00	181.80	151.86
18:30:00	145.60	128.14

18:30:00	233	114	141	116	124	95	74	897
18:45:00	190	95	111	118	102	71	62	749
19:00:00	219	95	101	101	112	70	58	756
19:15:00	157	100	91	105	78	65	48	644
19:30:00	128	73	55	60	77	68	50	511
19:45:00	88	49	69	58	60	46	35	405
20:00:00	115	43	50	53	48	47	49	405
20:15:00	100	50	63	47	50	37	49	396
20:30:00	72	34	35	31	41	36	43	292
20:45:00	65	34	39	31	36	24	20	249
21:00:00	59	42	30	33	22	47	28	261
21:15:00	51	28	33	40	34	36	33	255
21:30:00	59	31	32	36	22	42	12	234
21:45:00	59	36	42	32	28	34	25	256
22:00:00	52	28	28	21	30	42	11	212
22:15:00	38	23	32	20	29	35	9	186
22:30:00	35	15	17	26	26	27	15	161
22:45:00	25	12	10	18	29	23	8	125
23:00:00	15	16	10	11	23	35	8	118
23:15:00	17	9	11	14	15	27	6	99
23:30:00	11	7	6	12	18	17	6	77
23:45:00	11	7	5	10	17	17	4	71
Grand Total	16536	8662	8986	9028	9277	6660	4858	64007

18:45:00	123.20	107.00
19:00:00	125.60	108.00
19:15:00	106.20	92.00
19:30:00	78.60	73.00
19:45:00	64.80	57.86
20:00:00	61.80	57.86
20:15:00	62.00	56.57
20:30:00	42.60	41.71
20:45:00	41.00	35.57
21:00:00	37.20	37.29
21:15:00	37.20	36.43
21:30:00	36.00	33.43
21:45:00	39.40	36.57
22:00:00	31.80	30.29
22:15:00	28.40	26.57
22:30:00	23.80	23.00
22:45:00	18.80	17.86
23:00:00	15.00	16.86
23:15:00	13.20	14.14
23:30:00	10.80	11.00
23:45:00	10.00	10.14
Grand Total	10497.80	9143.86

Class	Axis	Access	Description	Parameters	Dimension Details	Attributes
1	107	2	Street - One sign (1x)	001+0.1m, 002+0.2m & access2	001+0.1m	Light
2	107	3	Street Timing (Traffic) - Caravan, Street, etc.	group0+0.1m, 002+0.2m, 003+0.3m & access1, A, B	001+0.1m, 002+0.2m, 003+0.3m	Light
3	108	2	Two side track on (2x)	001+0.1m & access1	001+0.1m	Light
4	108	3	Three side track on (3x)	access2 & group0+0.1	001+0.1m	Light
5	14	2	Four side track	access1 & group0+0.1	001+0.1m	Light
6	107	3	Three side articulated vehicle or rigid vehicle and trailer	001+0.1m, access2 & group0+0.1	001+0.1m	Light
7	107	4	Four side articulated vehicle or rigid vehicle and trailer	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group0+0.1	001+0.1m, 002+0.2m, 003+0.3m, 004+0.4m	Light
8	107	5	Five side articulated vehicle or rigid vehicle and trailer	001+0.1m or 002+0.2m or 003+0.3m or 004+0.4m & group0+0.1	001+0.1m, 002+0.2m, 003+0.3m, 004+0.4m	Light
9	107	6	Six side articulated vehicle or rigid vehicle and trailer	access1 & group0+0.1 or access2 & group0+0.1	001+0.1m, 002+0.2m	Light
10	107	7	Seven side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
11	107	8	Eight side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
12	107	9	Nine side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
13	107	10	Ten side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
14	107	11	Eleven side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
15	107	12	Twelve side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
16	107	13	Thirteen side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
17	107	14	Fourteen side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
18	107	15	Fifteen side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
19	107	16	Sixteen side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
20	107	17	Seventeen side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
21	107	18	Eighteen side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
22	107	19	Nineteen side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
23	107	20	Twenty side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
24	107	21	Twenty one side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
25	107	22	Twenty two side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
26	107	23	Twenty three side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
27	107	24	Twenty four side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
28	107	25	Twenty five side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
29	107	26	Twenty six side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
30	107	27	Twenty seven side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
31	107	28	Twenty eight side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
32	107	29	Twenty nine side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
33	107	30	Thirty side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
34	107	31	Thirty one side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
35	107	32	Thirty two side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
36	107	33	Thirty three side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
37	107	34	Thirty four side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
38	107	35	Thirty five side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
39	107	36	Thirty six side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
40	107	37	Thirty seven side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
41	107	38	Thirty eight side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
42	107	39	Thirty nine side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
43	107	40	Forty side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
44	107	41	Forty one side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
45	107	42	Forty two side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
46	107	43	Forty three side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
47	107	44	Forty four side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
48	107	45	Forty five side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
49	107	46	Forty six side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
50	107	47	Forty seven side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
51	107	48	Forty eight side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
52	107	49	Forty nine side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
53	107	50	Fifty side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
54	107	51	Fifty one side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
55	107	52	Fifty two side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
56	107	53	Fifty three side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
57	107	54	Fifty four side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
58	107	55	Fifty five side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
59	107	56	Fifty six side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
60	107	57	Fifty seven side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
61	107	58	Fifty eight side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
62	107	59	Fifty nine side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
63	107	60	Sixty side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
64	107	61	Sixty one side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
65	107	62	Sixty two side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
66	107	63	Sixty three side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
67	107	64	Sixty four side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
68	107	65	Sixty five side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
69	107	66	Sixty six side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
70	107	67	Sixty seven side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
71	107	68	Sixty eight side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
72	107	69	Sixty nine side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
73	107	70	Seventy side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
74	107	71	Seventy one side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
75	107	72	Seventy two side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
76	107	73	Seventy three side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
77	107	74	Seventy four side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
78	107	75	Seventy five side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
79	107	76	Seventy six side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
80	107	77	Seventy seven side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
81	107	78	Seventy eight side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
82	107	79	Seventy nine side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
83	107	80	Eighty side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
84	107	81	Eighty one side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
85	107	82	Eighty two side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
86	107	83	Eighty three side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
87	107	84	Eighty four side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
88	107	85	Eighty five side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
89	107	86	Eighty six side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
90	107	87	Eighty seven side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
91	107	88	Eighty eight side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
92	107	89	Eighty nine side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
93	107	90	Ninety side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
94	107	91	Ninety one side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
95	107	92	Ninety two side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
96	107	93	Ninety three side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
97	107	94	Ninety four side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
98	107	95	Ninety five side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
99	107	96	Ninety six side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
100	107	97	Ninety seven side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
101	107	98	Ninety eight side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
102	107	99	Ninety nine side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light
103	107	100	One hundred side articulated vehicle or rigid vehicle and trailer	group0+0.1 & access1	001+0.1m	Light



Week Commencing

11 October 2021

18 October 2021

Compass direction

N

S

Class

1

2

3

4

5

Weekday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	11	14	15	10	12	and To
00:00:00	Row Labels	55		2				1								59
00:15:00		55		4		1										60
00:30:00		36		2												38
00:45:00		26		3		1										30
01:00:00		29		6		1										36
01:15:00		18		4												22
01:30:00		14		1						1						16
01:45:00		12														12
02:00:00		21		2		1		1								25
02:15:00		13		3				1				4				21
02:30:00		15		4				1								20
02:45:00		13		2								1				16
03:00:00		8		1												9
03:15:00		16		6									1			23
03:30:00		19		5												24
03:45:00		6		2									1			9
04:00:00		12		4												16
04:15:00		32		4	2											38

Row Labels	07-19	06-22	06-00	00-00
Monday	14363	16018	16222	16536
Tuesday	7537	8411	8528	8662
Wednesday	7806	8720	8839	8986
Thursday	7856	8741	8873	9028
Friday	8072	8940	9127	9277
Saturday	5674	6312	6535	6660
Sunday	4149	4641	4708	4858





16:45:00	1274	5	104	3	1			9	2		1	1399			
17:00:00	1471	13	94	1		1	1	12	2			1595			
17:15:00	1476	10	92	2	1	1		1	7	1		1591			
17:30:00	1386	11	79	1		1	1	2	4			1485			
17:45:00	1306	8	82		1		1	2	1	10	2	1413			
18:00:00	1078	3	53	1	2		2	2	3	1		1145			
18:15:00	977	2	73	2		1	1	1	6			1063			
18:30:00	841	3	45	1			1		4	2		897			
18:45:00	709	1	31	1	1	1	1	1	4			749			
19:00:00	698	6	39	2	1		1	2	1	6		756			
19:15:00	592	2	48		1	1						644			
19:30:00	479	1	21	1	3		1	1	4			511			
19:45:00	371	3	25	2	1		1		2			405			
20:00:00	377	4	19		1				4			405			
20:15:00	374		15	1					6			396			
20:30:00	275		9					1	7			292			
20:45:00	235		12	1				1				249			
21:00:00	245	3	10						3			261			
21:15:00	245		8						2			255			
21:30:00	216	4	8		1				5			234			
21:45:00	243		9						4			256			
22:00:00	203		4						5			212			
22:15:00	171	1	6	1		1	2		4			186			
22:30:00	150		4	1		1			5			161			
22:45:00	113	3	6		1				2			125			
23:00:00	114		4									118			
23:15:00	92		1	2		1			3			99			
23:30:00	70		6			1						77			
23:45:00	62		2	1		1	1		4			71			
Grand Total	57388	397	5116	189	##	52	69	84	96	4	385	86	5	1	64007

17:00:00	280.40	227.86
17:15:00	279.00	227.29
17:30:00	258.40	212.14
17:45:00	240.80	201.86
18:00:00	198.40	163.57
18:15:00	181.80	151.86
18:30:00	145.60	128.14
18:45:00	123.20	107.00
19:00:00	125.60	108.00
19:15:00	106.20	92.00
19:30:00	78.60	73.00
19:45:00	64.80	57.86
20:00:00	61.80	57.86
20:15:00	62.00	56.57
20:30:00	42.60	41.71
20:45:00	41.00	35.57
21:00:00	37.20	37.29
21:15:00	37.20	36.43
21:30:00	36.00	33.43
21:45:00	39.40	36.57
22:00:00	31.80	30.29
22:15:00	28.40	26.57
22:30:00	23.80	23.00
22:45:00	18.80	17.86
23:00:00	15.00	16.86
23:15:00	13.20	14.14
23:30:00	10.80	11.00
23:45:00	10.00	10.14
Grand Total	10497.80	9143.86

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

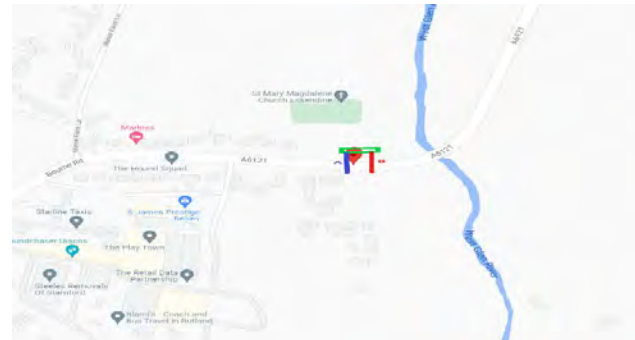
Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	16536	33.12	38.90	43.80	11048	66.81%	5282	31.94%	627	3.79%
Tuesday	8662	32.85	38.60	43.30	5598	64.63%	2640	30.48%	300	3.46%
Wednesday	8986	32.93	38.80	43.50	5858	65.19%	2777	30.90%	293	3.26%
Thursday	9028	32.85	38.60	43.40	5862	64.93%	2694	29.84%	296	3.28%
Friday	9277	33.25	39.20	44.40	6235	67.21%	3110	33.52%	379	4.09%
Saturday	6660	33.85	40.10	45.10	4680	70.27%	2421	36.35%	339	5.09%
Sunday	4858	34.34	41.00	46.30	3477	71.57%	1905	39.21%	338	6.96%
5day	52489	33.02	38.80	43.70	34601	65.92%	16503	31.44%	1895	3.61%
7day	64007	33.21	39.10	44.10	42758	66.80%	20829	32.54%	2572	4.02%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 13



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
10
11
12

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
57962	76.71%	0.01%	0.00%

Count of	Compass direction	Column Labels	Grand Total
Row Labels	W	E	
11 October 2021	22908	27780	50688
18 October 2021	3289	3985	7274
Grand Total	26197	31765	57962

Count of	Compass direction	Column Labels
Row Labels	W	E
Monday	6768	8242
Tuesday	3429	4363
Wednesday	3735	4438
Thursday	3759	4414
Friday	3730	4668
Saturday	2753	3218
Sunday	2023	2422
Grand Total	26197	31765

Average of Speed	Column Labels	
Row Labels	W	E
Monday	32.84	33.08
Tuesday	32.75	32.79
Wednesday	32.97	33.02
Thursday	32.55	32.81
Friday	33.01	33.08
Saturday	33.80	33.32
Sunday	34.31	33.36
Grand Total	33.04	33.04

% Over PSL	% Over ACPO	% Over DFT
76.71%	0.01%	0.00%

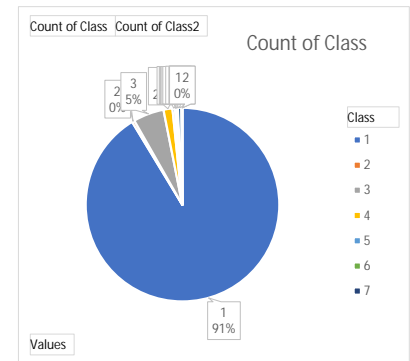
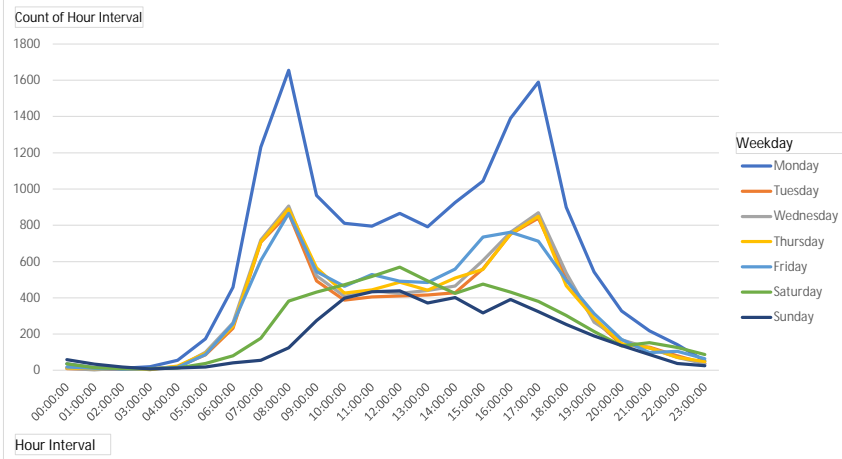
vehicles are travelling over posted speed limit (30mph)

vehicles are traveling 10% +2 over PSL (35mph)

vehicles are 15mph over PSL (45mph)



Row Labels	Count of Class	Count of Class2
1	52916	91.29%
2	249	0.43%
3	2990	5.16%
4	842	1.45%
5	270	0.47%
6	36	0.06%
7	44	0.08%
8	60	0.10%
9	113	0.19%
11	9	0.02%
14	342	0.59%
15	83	0.14%
10	7	0.01%
12	1	0.00%
Grand Total	57962	100.00%

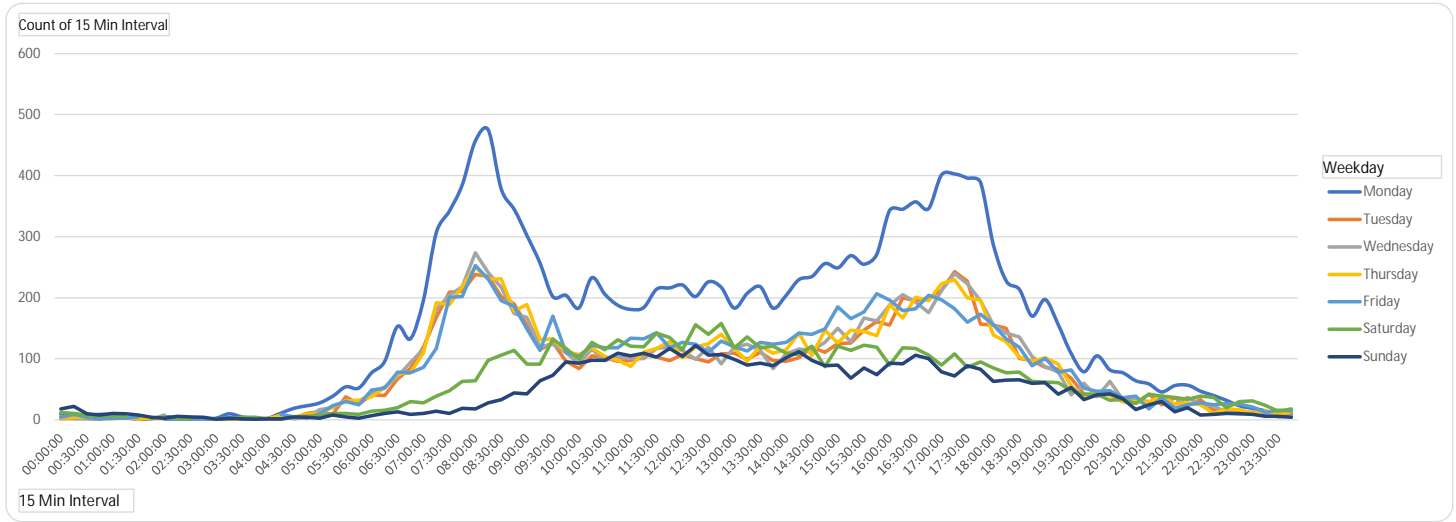


Week Commencing
11 October 2021
18 October 2021

Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
10

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
00:00:00	9	2	6	3	4	12	18	54
00:15:00	10	3	2	4	9	11	22	61
00:30:00	7	3	2	4	4	7	10	37
00:45:00	9	1	1	3	2	6	8	30
01:00:00	8	4		2	3	7	11	35
01:15:00	4		2	4	3	5	10	28
01:30:00	1	1		1	5		8	16
01:45:00	2		1	3		3	4	13
02:00:00	5	2	8	2	1	4	3	25
02:15:00	4			3	1	3	6	17
02:30:00	2	2	3	3	1	2	5	18
02:45:00	1	1	2	3	2		4	13
03:00:00	3	1	1	2	1	1	1	10
03:15:00	10	3	2	1	4	1	3	24
03:30:00	5	2	2	1	2	4	2	18
03:45:00	2	2			2	4	1	11
04:00:00	3	1	2	2		2	2	12
04:15:00	11	5	7	8	9	1	2	43
04:30:00	19	3	2	5	5	5	5	44
04:45:00	23	11	5	9	3	6	4	61
05:00:00	28	13	17	10	10	7	3	88
05:15:00	39	9	20	21	23	11	8	131
05:30:00	54	38	32	31	30	11	5	201
05:45:00	52	26	31	32	25	9	3	178

Row Labels	07-19	06-22	06-00	00-00
Monday	12959	14505	14699	15010
Tuesday	6761	7541	7659	7792
Wednesday	7100	7919	8025	8173
Thursday	7096	7897	8016	8173
Friday	7242	8079	8249	8398
Saturday	5056	5636	5849	5971
Sunday	3781	4234	4297	4445
<b>Grand Total</b>	<b>49995</b>	<b>55811</b>	<b>56794</b>	<b>57962</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	4.80	7.71
00:15:00	5.60	8.71
00:30:00	4.00	5.29
00:45:00	3.20	4.29
01:00:00	3.40	5.00
01:15:00	2.60	4.00
01:30:00	1.60	2.29
01:45:00	1.20	1.86
02:00:00	3.60	3.57
02:15:00	1.60	2.43
02:30:00	2.20	2.57
02:45:00	1.80	1.86
03:00:00	1.60	1.43
03:15:00	4.00	3.43
03:30:00	2.40	2.57
03:45:00	1.20	1.57
04:00:00	1.60	1.71
04:15:00	8.00	6.14
04:30:00	6.80	6.29
04:45:00	10.20	8.71
05:00:00	15.60	12.57
05:15:00	22.40	18.71
05:30:00	37.00	28.71
05:45:00	33.20	25.43
06:00:00	49.60	38.43

06:00:00	77	41	43	38	49	14	7	269
06:15:00	95	40	54	53	52	16	11	321
06:30:00	153	67	71	75	78	20	13	477
06:45:00	133	84	94	77	77	30	9	504
07:00:00	196	120	116	110	86	28	11	667
07:15:00	307	168	181	192	117	39	14	1018
07:30:00	342	209	204	189	201	48	11	1204
07:45:00	385	210	218	218	202	63	19	1315
08:00:00	457	238	274	250	253	64	18	1554
08:15:00	475	235	241	231	231	98	28	1539
08:30:00	378	202	217	231	195	106	33	1362
08:45:00	345	190	174	178	186	114	44	1231
09:00:00	302	155	168	189	149	91	43	1097
09:15:00	257	115	120	131	114	91	64	892
09:30:00	202	127	124	133	170	132	73	961
09:45:00	204	96	110	112	110	117	95	844
10:00:00	183	84	92	107	104	99	93	762
10:15:00	233	105	116	118	122	127	98	919
10:30:00	206	102	97	104	118	115	98	840
10:45:00	188	96	103	98	118	131	109	843
11:00:00	181	97	101	88	134	121	105	827
11:15:00	184	107	100	111	133	120	109	864
11:30:00	214	103	117	117	143	142	103	939
11:45:00	216	97	120	128	118	135	117	931
12:00:00	221	107	114	102	127	115	104	890
12:15:00	202	100	99	119	124	156	122	922
12:30:00	226	95	119	125	111	140	106	922
12:45:00	217	108	92	140	129	158	107	951
13:00:00	183	109	119	117	120	118	99	865
13:15:00	207	99	124	96	113	136	90	865
13:30:00	218	111	114	121	127	118	93	902
13:45:00	183	97	84	109	124	121	89	807
14:00:00	204	96	108	115	127	109	102	861
14:15:00	230	102	116	142	142	107	112	951
14:30:00	235	119	114	105	140	121	98	932
14:45:00	256	111	127	147	149	87	89	966
15:00:00	249	125	150	126	185	121	90	1046
15:15:00	269	126	128	147	166	114	68	1018
15:30:00	255	147	167	145	177	122	85	1098
15:45:00	271	161	162	138	207	119	74	1132
16:00:00	343	155	188	189	196	90	93	1254
16:15:00	345	200	205	167	179	118	92	1306
16:30:00	357	195	193	201	182	117	106	1351
16:45:00	346	200	176	195	204	106	100	1327
17:00:00	401	212	212	223	197	90	79	1414
17:15:00	403	243	240	230	182	108	72	1478
17:30:00	396	227	223	200	160	86	89	1381
17:45:00	389	157	195	196	173	95	83	1288
18:00:00	287	155	156	139	156	85	63	1041
18:15:00	227	150	142	128	133	77	65	922

06:15:00	58.80	45.86
06:30:00	88.80	68.14
06:45:00	93.00	72.00
07:00:00	125.60	95.29
07:15:00	193.00	145.43
07:30:00	229.00	172.00
07:45:00	246.60	187.86
08:00:00	294.40	222.00
08:15:00	282.60	219.86
08:30:00	244.60	194.57
08:45:00	214.60	175.86
09:00:00	192.60	156.71
09:15:00	147.40	127.43
09:30:00	151.20	137.29
09:45:00	126.40	120.57
10:00:00	114.00	108.86
10:15:00	138.80	131.29
10:30:00	125.40	120.00
10:45:00	120.60	120.43
11:00:00	120.20	118.14
11:15:00	127.00	123.43
11:30:00	138.80	134.14
11:45:00	135.80	133.00
12:00:00	134.20	127.14
12:15:00	128.80	131.71
12:30:00	135.20	131.71
12:45:00	137.20	135.86
13:00:00	129.60	123.57
13:15:00	127.80	123.57
13:30:00	138.20	128.86
13:45:00	119.40	115.29
14:00:00	130.00	123.00
14:15:00	146.40	135.86
14:30:00	142.60	133.14
14:45:00	158.00	138.00
15:00:00	167.00	149.43
15:15:00	167.20	145.43
15:30:00	178.20	156.86
15:45:00	187.80	161.71
16:00:00	214.20	179.14
16:15:00	219.20	186.57
16:30:00	225.60	193.00
16:45:00	224.20	189.57
17:00:00	249.00	202.00
17:15:00	259.60	211.14
17:30:00	241.20	197.29
17:45:00	222.00	184.00
18:00:00	178.60	148.71
18:15:00	156.00	131.71
18:30:00	134.60	116.71

18:30:00	214	101	136	103	119	78	66	817
18:45:00	170	97	104	96	89	63	60	679
19:00:00	197	86	87	102	101	62	61	696
19:15:00	157	83	78	91	78	61	42	590
19:30:00	109	68	41	56	82	48	53	457
19:45:00	79	43	60	39	52	42	33	348
20:00:00	105	39	38	47	47	42	41	359
20:15:00	82	44	63	40	48	32	43	352
20:30:00	77	30	34	30	36	34	35	276
20:45:00	64	28	34	30	39	27	17	239
21:00:00	59	42	30	29	18	42	25	245
21:15:00	46	25	29	40	36	39	30	245
21:30:00	56	36	26	26	19	37	13	213
21:45:00	57	24	37	28	25	34	20	225
22:00:00	47	33	26	25	28	39	8	206
22:15:00	40	16	23	11	25	37	9	161
22:30:00	32	17	12	18	27	20	11	137
22:45:00	23	14	10	17	26	30	10	130
23:00:00	19	12	12	11	21	31	9	115
23:15:00	15	13	11	15	12	24	6	96
23:30:00	8	7	5	9	16	14	6	65
23:45:00	10	6	7	13	15	18	4	73
Grand Total	15010	7792	8173	8173	8398	5971	4445	57962

18:45:00	111.20	97.00
19:00:00	114.60	99.43
19:15:00	97.40	84.29
19:30:00	71.20	65.29
19:45:00	54.60	49.71
20:00:00	55.20	51.29
20:15:00	55.40	50.29
20:30:00	41.40	39.43
20:45:00	39.00	34.14
21:00:00	35.60	35.00
21:15:00	35.20	35.00
21:30:00	32.60	30.43
21:45:00	34.20	32.14
22:00:00	31.80	29.43
22:15:00	23.00	23.00
22:30:00	21.20	19.57
22:45:00	18.00	18.57
23:00:00	15.00	16.43
23:15:00	13.20	13.71
23:30:00	9.00	9.29
23:45:00	10.20	10.43
Grand Total	9509.20	8280.29

Class	Axis	Access	Description	Parameters	Dimension Details	Access
11	017	2	3000 3	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
12	017	3	3000 3	011+0.1m, 012+0.2m & access2, A, B	011+0.1m, 012+0.2m & access2, A, B	Light
13	017	2	3000 3	011+0.1m & access2	011+0.1m & access2	Light
14	017	3	3000 3	access2 & group2	access2 & group2	Light
15	14	1.8	3000 3	access2 & group2	access2 & group2	Light
16	017	3	3000 3	011+0.1m, access2 & group2	011+0.1m, access2 & group2	Light
17	017	4	3000 3	011+0.1m or 012+0.2m or 013+0.3m access = A & group2	011+0.1m or 012+0.2m or 013+0.3m access = A & group2	Light
18	017	5	3000 3	011+0.1m or 012+0.2m or 013+0.3m access = B & group2	011+0.1m or 012+0.2m or 013+0.3m access = B & group2	Light
19	017	6	3000 3	011+0.1m or 012+0.2m or 013+0.3m access = C & group2	011+0.1m or 012+0.2m or 013+0.3m access = C & group2	Light
20	017	7	3000 3	011+0.1m or 012+0.2m or 013+0.3m access = D & group2	011+0.1m or 012+0.2m or 013+0.3m access = D & group2	Light
21	017	8	3000 3	011+0.1m or 012+0.2m or 013+0.3m access = E & group2	011+0.1m or 012+0.2m or 013+0.3m access = E & group2	Light
22	017	9	3000 3	011+0.1m or 012+0.2m or 013+0.3m access = F & group2	011+0.1m or 012+0.2m or 013+0.3m access = F & group2	Light
23	017	10	3000 3	011+0.1m or 012+0.2m or 013+0.3m access = G & group2	011+0.1m or 012+0.2m or 013+0.3m access = G & group2	Light
24	017	11	3000 3	011+0.1m or 012+0.2m or 013+0.3m access = H & group2	011+0.1m or 012+0.2m or 013+0.3m access = H & group2	Light
25	017	12	3000 3	011+0.1m or 012+0.2m or 013+0.3m access = I & group2	011+0.1m or 012+0.2m or 013+0.3m access = I & group2	Light

**Week Commencing**

11 October 2021

18 October 2021

**Class**

1

2

3

4

5

**Compass direction**

E

W

**Weekday**

Monday

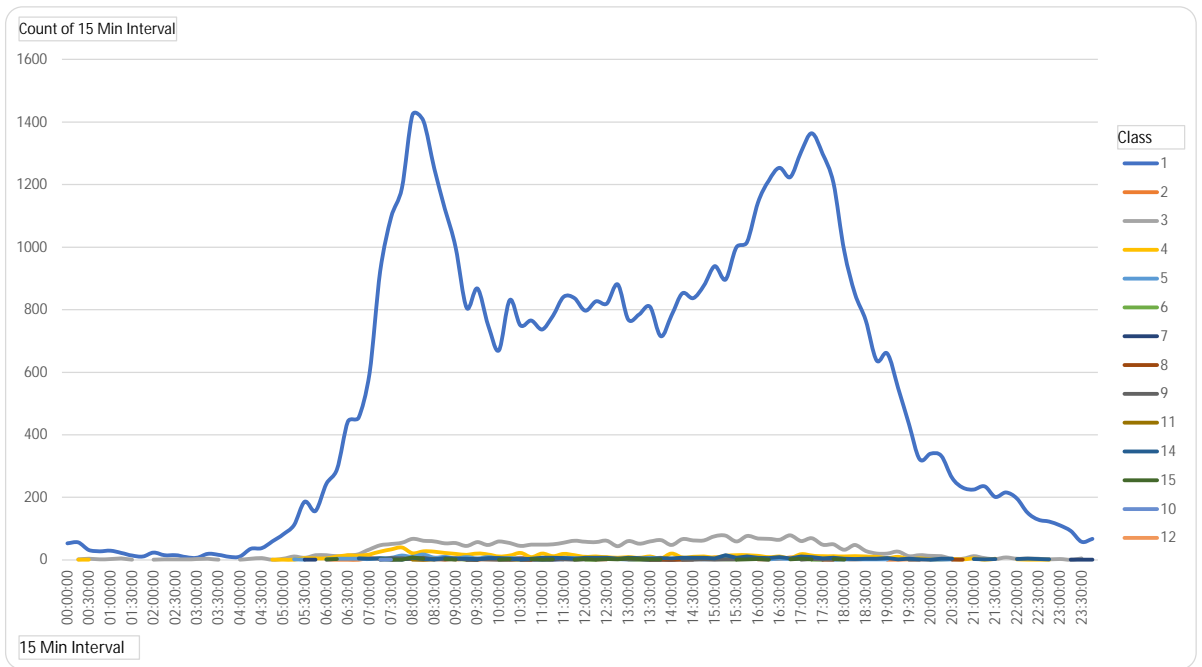
Tuesday

Wednesday

Thursday

Friday

Saturday



Count of 15 Min Interval	Column Labels	Row Labels	07-19	06-22	06-00	00-00
00:00:00	1	Monday	12959	14505	14699	15010
00:15:00	2	Tuesday	6761	7541	7659	7792
00:30:00	3	Wednesday	7100	7919	8025	8173
00:45:00	4	Thursday	7096	7897	8016	8173
01:00:00	5	Friday	7242	8079	8249	8398
01:15:00	6	Saturday	5056	5636	5849	5971
01:30:00	7	Sunday	3781	4234	4297	4445
01:45:00	8	Grand Total	49995	55811	56794	57962
02:00:00	9					
02:15:00	10					
02:30:00	11					
02:45:00	12					
03:00:00	13					
03:15:00	14					
03:30:00	15					
03:45:00	16					
04:00:00	17					
04:15:00	18					

Row Labels	Average 5 Days	1 of Average 7 D
00:00:00	4.80	7.71
00:15:00	5.60	8.71
00:30:00	4.00	5.29
00:45:00	3.20	4.29
01:00:00	3.40	5.00
01:15:00	2.60	4.00
01:30:00	1.60	2.29
01:45:00	1.20	1.86
02:00:00	3.60	3.57
02:15:00	1.60	2.43
02:30:00	2.20	2.57
02:45:00	1.80	1.86
03:00:00	1.60	1.43
03:15:00	4.00	3.43
03:30:00	2.40	2.57
03:45:00	1.20	1.57
04:00:00	1.60	1.71
04:15:00	8.00	6.14
04:30:00	6.80	6.29







Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

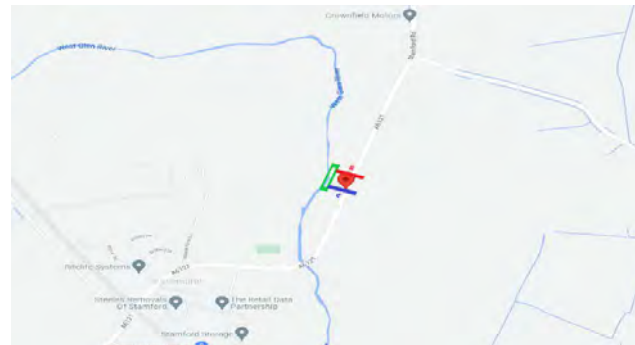
Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	15010	32.97	37.07	40.30	11498	76.60%	3	0.02%	0	0.00%
Tuesday	7792	32.77	36.60	40.00	5868	75.31%	0	0.00%	0	0.00%
Wednesday	8173	33.00	37.10	40.34	6250	76.47%	2	0.02%	1	0.01%
Thursday	8173	32.69	36.80	40.20	5987	73.25%	2	0.02%	1	0.01%
Friday	8398	33.05	37.15	40.60	6468	77.02%	0	0.00%	0	0.00%
Saturday	5971	33.54	37.90	41.20	4787	80.17%	0	0.00%	0	0.00%
Sunday	4445	33.79	38.20	41.70	3602	81.03%	0	0.00%	0	0.00%
5day	47546	32.91	37.00	40.30	36071	75.87%	7	0.01%	2	0.00%
7day	57962	33.04	37.10	40.50	44460	76.71%	7	0.01%	2	0.00%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 14



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
10
11
14

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
57747	14.25%	3.20%	1.20%

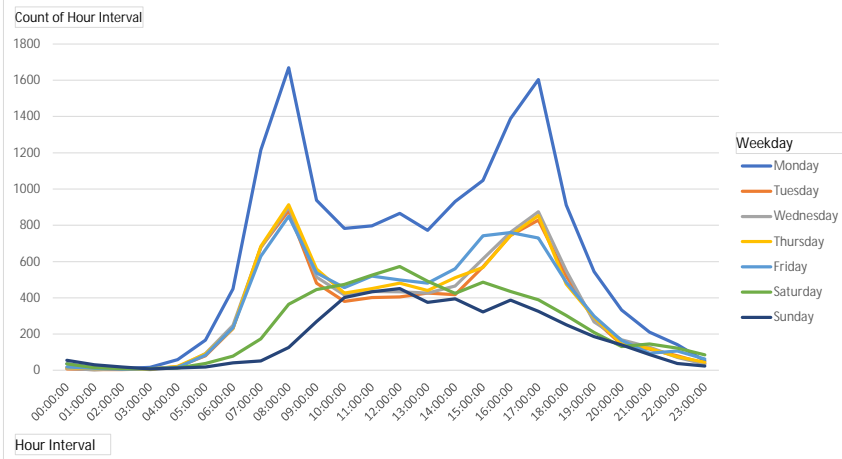
Count of	Compass direction	Column Labels	Grand Total
Row Labels	N	S	
11 October 2021	25336	25090	50426
18 October 2021	3711	3610	7321
Grand Total	29047	28700	57747

Count of	Compass direction	Column Labels
Row Labels	N	S
Monday	7539	7413
Tuesday	3869	3876
Wednesday	4069	4052
Thursday	4067	4095
Friday	4208	4142
Saturday	3047	2927
Sunday	2248	2195
Grand Total	29047	28700

Row Labels	Count of Class	Count of Class2
1	52507	90.93%
2	277	0.48%
3	3895	6.74%
4	322	0.56%
5	116	0.20%
6	51	0.09%
7	45	0.08%
8	41	0.07%
9	55	0.10%
11	1	0.00%
14	376	0.65%
15	59	0.10%
10	2	0.00%
Grand Total	57747	100.00%

Average of Speed	Column Labels	
Row Labels	N	S
Monday	52.62	53.80
Tuesday	52.37	54.05
Wednesday	52.69	54.09
Thursday	53.37	53.17
Friday	53.16	54.34
Saturday	54.00	56.05
Sunday	54.05	55.85
Grand Total	53.03	54.25

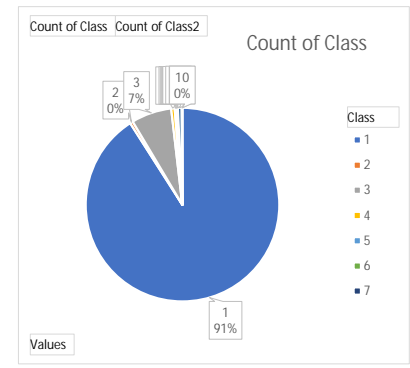
% Over PSL	% Over ACPO	% Over DFT
14.25%	3.20%	1.20%



vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)

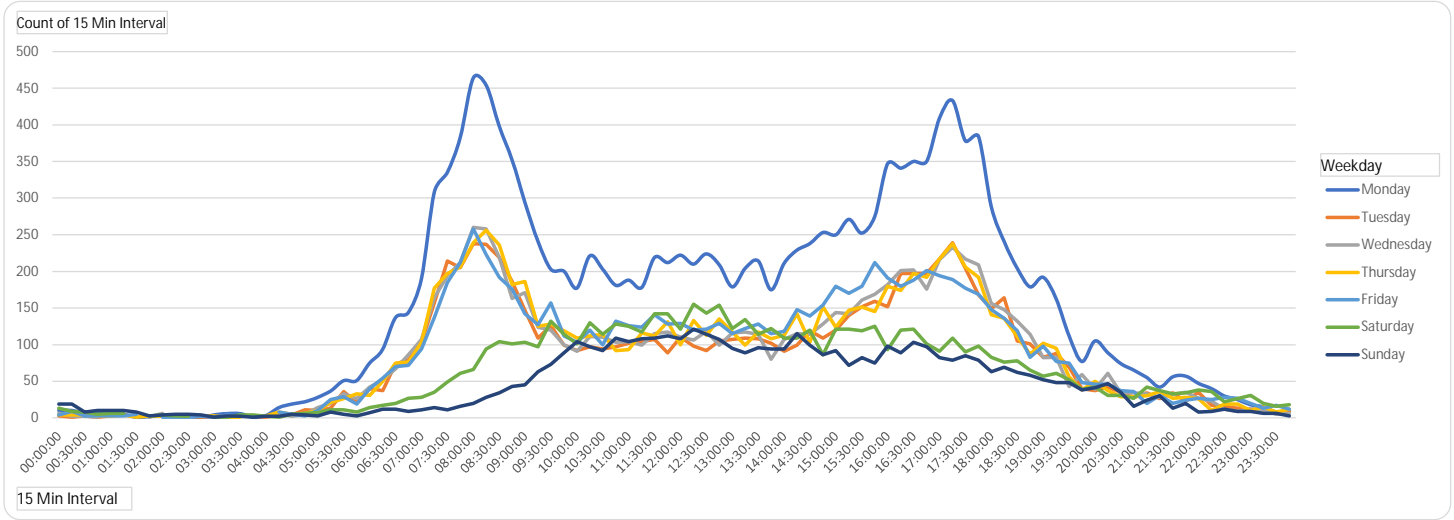


Week Commencing
11 October 2021
18 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
10

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels								Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday		
00:00:00	10	3	6	4	4	13	19		59
00:15:00	10	1	2	4	9	9	19		54
00:30:00	7	3	2	4	3	8	8		35
00:45:00	9	1	1	3	3	5	10		32
01:00:00	7	3		2	3	6	10		31
01:15:00	5		2	4	3	6	10		30
01:30:00	1	1		1	5		8		16
01:45:00	2		1	3		3	3		12
02:00:00	4	2	6	2	1	4	4		23
02:15:00	3			3	1	3	5		15
02:30:00	2	2	3	2	1	2	5		17
02:45:00	1	1	2	2	2		4		12
03:00:00	4	1	1	3	1	1	1		12
03:15:00	6	3	2	1	4	1	3		20
03:30:00	6	2	2	1	2	4	2		19
03:45:00	1	2			2	4	1		10
04:00:00	3	1	2	3		2	2		13
04:15:00	14	4	6	8	8	1	2		43
04:30:00	19	4	2	5	5	5	5		45
04:45:00	22	11	5	6	3	6	4		57
05:00:00	28	10	14	10	10	7	3		82
05:15:00	37	13	20	21	25	11	8		135
05:30:00	51	36	33	26	29	11	5		191
05:45:00	51	21	26	33	19	8	3		161

Row Labels	07-19	06-22	06-00	00-00
Monday	12920	14456	14649	14952
Tuesday	6732	7501	7620	7745
Wednesday	7068	7878	7983	8121
Thursday	7103	7892	8011	8162
Friday	7244	8038	8207	8350
Saturday	5083	5647	5854	5974
Sunday	3785	4237	4299	4443
<b>Grand Total</b>	<b>49935</b>	<b>55649</b>	<b>56623</b>	<b>57747</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	5.40	8.43
00:15:00	5.20	7.71
00:30:00	3.80	5.00
00:45:00	3.40	4.57
01:00:00	3.00	4.43
01:15:00	2.80	4.29
01:30:00	1.60	2.29
01:45:00	1.20	1.71
02:00:00	3.00	3.29
02:15:00	1.40	2.14
02:30:00	2.00	2.43
02:45:00	1.60	1.71
03:00:00	2.00	1.71
03:15:00	3.20	2.86
03:30:00	2.60	2.71
03:45:00	1.00	1.43
04:00:00	1.80	1.86
04:15:00	8.00	6.14
04:30:00	7.00	6.43
04:45:00	9.40	8.14
05:00:00	14.40	11.71
05:15:00	23.20	19.29
05:30:00	35.00	27.29
05:45:00	30.00	23.00
06:00:00	45.60	35.57

06:00:00	75	40	42	31	40	14	7	249
06:15:00	93	37	52	50	54	17	12	315
06:30:00	137	74	67	75	70	20	12	455
06:45:00	144	79	86	76	72	27	9	493
07:00:00	190	103	107	103	94	28	11	636
07:15:00	308	157	164	177	137	35	14	992
07:30:00	335	214	194	197	185	49	11	1185
07:45:00	383	205	212	206	212	61	16	1295
08:00:00	464	238	260	239	258	66	20	1545
08:15:00	454	237	258	256	223	94	28	1550
08:30:00	398	219	219	236	192	104	34	1402
08:45:00	352	186	163	182	176	101	43	1203
09:00:00	294	147	171	186	142	103	45	1088
09:15:00	241	109	124	125	127	97	63	886
09:30:00	203	126	120	128	157	132	73	939
09:45:00	200	99	100	119	112	114	89	833
10:00:00	177	92	91	109	103	101	104	777
10:15:00	221	97	111	112	120	130	97	888
10:30:00	203	94	110	114	100	114	92	827
10:45:00	181	97	103	92	132	128	109	842
11:00:00	188	102	104	93	126	125	104	842
11:15:00	178	104	99	116	124	117	108	846
11:30:00	219	107	115	112	141	142	109	945
11:45:00	212	89	117	131	128	142	112	931
12:00:00	222	110	110	100	129	121	108	900
12:15:00	210	98	106	133	120	155	121	943
12:30:00	224	92	118	113	121	143	114	925
12:45:00	209	105	99	135	129	154	107	938
13:00:00	179	107	116	117	115	122	95	851
13:15:00	204	109	117	99	122	134	89	874
13:30:00	214	108	114	117	128	114	96	891
13:45:00	175	102	80	108	115	122	94	796
14:00:00	211	91	107	113	118	109	94	843
14:15:00	229	99	115	142	148	109	115	957
14:30:00	238	119	114	103	139	120	99	932
14:45:00	253	109	128	152	154	86	86	968
15:00:00	250	120	144	124	180	121	92	1031
15:15:00	271	140	142	147	170	121	72	1063
15:30:00	252	152	161	151	180	119	82	1097
15:45:00	275	159	169	145	212	125	75	1160
16:00:00	347	152	182	180	191	93	98	1243
16:15:00	341	197	201	174	180	120	89	1302
16:30:00	350	197	202	197	188	121	103	1358
16:45:00	350	197	176	192	201	101	97	1314
17:00:00	409	217	216	217	194	91	82	1426
17:15:00	433	239	233	238	189	109	79	1520
17:30:00	378	204	217	206	177	90	85	1357
17:45:00	384	168	209	192	169	98	79	1299
18:00:00	288	149	156	141	148	83	63	1028
18:15:00	240	164	148	136	136	76	69	969

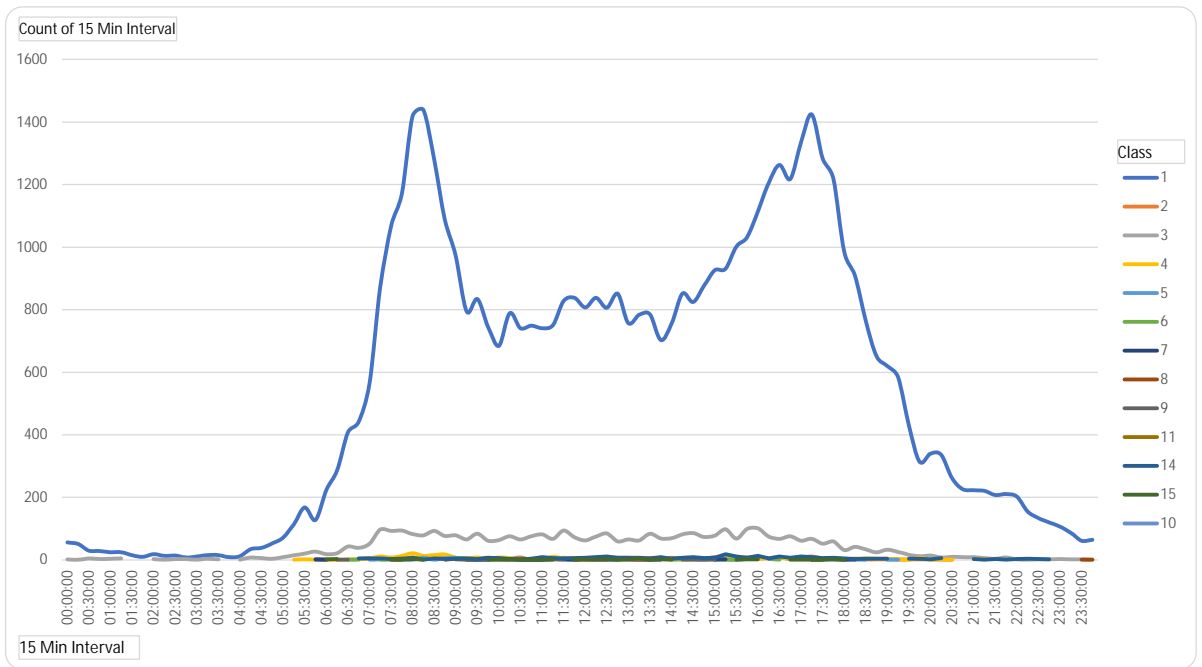
06:15:00	57.20	45.00
06:30:00	84.60	65.00
06:45:00	91.40	70.43
07:00:00	119.40	90.86
07:15:00	188.60	141.71
07:30:00	225.00	169.29
07:45:00	243.60	185.00
08:00:00	291.80	220.71
08:15:00	285.60	221.43
08:30:00	252.80	200.29
08:45:00	211.80	171.86
09:00:00	188.00	155.43
09:15:00	145.20	126.57
09:30:00	146.80	134.14
09:45:00	126.00	119.00
10:00:00	114.40	111.00
10:15:00	132.20	126.86
10:30:00	124.20	118.14
10:45:00	121.00	120.29
11:00:00	122.60	120.29
11:15:00	124.20	120.86
11:30:00	138.80	135.00
11:45:00	135.40	133.00
12:00:00	134.20	128.57
12:15:00	133.40	134.71
12:30:00	133.60	132.14
12:45:00	135.40	134.00
13:00:00	126.80	121.57
13:15:00	130.20	124.86
13:30:00	136.20	127.29
13:45:00	116.00	113.71
14:00:00	128.00	120.43
14:15:00	146.60	136.71
14:30:00	142.60	133.14
14:45:00	159.20	138.29
15:00:00	163.60	147.29
15:15:00	174.00	151.86
15:30:00	179.20	156.71
15:45:00	192.00	165.71
16:00:00	210.40	177.57
16:15:00	218.60	186.00
16:30:00	226.80	194.00
16:45:00	223.20	187.71
17:00:00	250.60	203.71
17:15:00	266.40	217.14
17:30:00	236.40	193.86
17:45:00	224.40	185.57
18:00:00	176.40	146.86
18:15:00	164.80	138.43
18:30:00	134.20	115.86

18:30:00	204	105	132	111	119	78	62	811
18:45:00	179	101	114	87	83	65	58	687
19:00:00	192	83	82	102	98	57	52	666
19:15:00	163	88	83	95	77	61	48	615
19:30:00	112	69	43	56	75	52	48	455
19:45:00	77	40	59	38	48	39	38	339
20:00:00	105	37	39	50	46	42	41	360
20:15:00	89	42	61	37	46	31	47	353
20:30:00	74	35	34	29	37	31	35	275
20:45:00	65	28	34	29	36	27	16	235
21:00:00	55	34	33	30	20	42	24	238
21:15:00	42	26	28	36	31	37	30	230
21:30:00	56	34	32	27	20	33	13	215
21:45:00	57	23	35	28	24	34	20	221
22:00:00	47	35	27	26	27	38	8	208
22:15:00	40	17	23	10	25	36	9	160
22:30:00	30	16	12	19	28	22	12	139
22:45:00	25	13	9	19	27	26	9	128
23:00:00	18	12	12	10	20	31	9	112
23:15:00	15	11	11	15	13	20	6	91
23:30:00	8	6	5	8	17	16	6	66
23:45:00	10	9	6	12	12	18	3	70
Grand Total	14952	7745	8121	8162	8350	5974	4443	57747

18:45:00	112.80	98.14
19:00:00	111.40	95.14
19:15:00	101.20	87.86
19:30:00	71.00	65.00
19:45:00	52.40	48.43
20:00:00	55.40	51.43
20:15:00	55.00	50.43
20:30:00	41.80	39.29
20:45:00	38.40	33.57
21:00:00	34.40	34.00
21:15:00	32.60	32.86
21:30:00	33.80	30.71
21:45:00	33.40	31.57
22:00:00	32.40	29.71
22:15:00	23.00	22.86
22:30:00	21.00	19.86
22:45:00	18.60	18.29
23:00:00	14.40	16.00
23:15:00	13.00	13.00
23:30:00	8.80	9.43
23:45:00	9.80	10.00
Grand Total	9466.00	8249.57



Class	Axis	Reason	Description	Parameters	Dimension Details	Attributes
11	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m	001+0.1m, 002+0.2m & 003+0.2m	Light
12	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m	001+0.1m, 002+0.2m & 003+0.2m	Light
13	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m	001+0.1m, 002+0.2m & 003+0.2m	Light
14	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m	001+0.1m, 002+0.2m & 003+0.2m	Light
15	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m	001+0.1m, 002+0.2m & 003+0.2m	Light
16	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m	001+0.1m, 002+0.2m & 003+0.2m	Light
17	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m	001+0.1m, 002+0.2m & 003+0.2m	Light
18	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m	001+0.1m, 002+0.2m & 003+0.2m	Light
19	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m	001+0.1m, 002+0.2m & 003+0.2m	Light
20	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m	001+0.1m, 002+0.2m & 003+0.2m	Light
21	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m	001+0.1m, 002+0.2m & 003+0.2m	Light
22	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m	001+0.1m, 002+0.2m & 003+0.2m	Light
23	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m	001+0.1m, 002+0.2m & 003+0.2m	Light
24	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m	001+0.1m, 002+0.2m & 003+0.2m	Light
25	017	3	Short - Car sign (in)	001+0.1m, 002+0.2m & 003+0.2m	001+0.1m, 002+0.2m & 003+0.2m	Light



Week Commencing

11 October 2021

18 October 2021

Compass direction

N

S

Class

1

2

3

4

5

Weekday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	11	14	15	10	rand Tot
00:00:00	56			2										1	59
00:15:00	51			1			1							1	54
00:30:00	30			5											35
00:45:00	29			3											32
01:00:00	25			4										2	31
01:15:00	25			5											30
01:30:00	15										1				16
01:45:00	10													2	12
02:00:00	19			3						1					23
02:15:00	13			1		1									15
02:30:00	14			3											17
02:45:00	8			3										1	12
03:00:00	11			1											12
03:15:00	16			4											20
03:30:00	16			2		1									19
03:45:00	9													1	10
04:00:00	12			1											13
04:15:00	35			8											43

Row Labels	07-19	06-22	06-00	00-00
Monday	12920	14456	14649	14952
Tuesday	6732	7501	7620	7745
Wednesday	7068	7878	7983	8121
Thursday	7103	7892	8011	8162
Friday	7244	8038	8207	8350
Saturday	5083	5647	5854	5974
Sunday	3785	4237	4299	4443
Grand Total	49935	55649	56623	57747

Row Labels	Average 5 Days	1 of Average 7 D
00:00:00	5.40	8.43
00:15:00	5.20	7.71
00:30:00	3.80	5.00
00:45:00	3.40	4.57
01:00:00	3.00	4.43
01:15:00	2.80	4.29
01:30:00	1.60	2.29
01:45:00	1.20	1.71
02:00:00	3.00	3.29
02:15:00	1.40	2.14
02:30:00	2.00	2.43
02:45:00	1.60	1.71
03:00:00	2.00	1.71
03:15:00	3.20	2.86
03:30:00	2.60	2.71
03:45:00	1.00	1.43
04:00:00	1.80	1.86
04:15:00	8.00	6.14
04:30:00	7.00	6.43



16:45:00	1218	4	76	4	2		1		8	1		1314		
17:00:00	1336	7	62	7			1		12	1		1426		
17:15:00	1424	11	68	4		1	1	1	9	1		1520		
17:30:00	1284	5	52	4	1	1	2	1	6	1		1357		
17:45:00	1218	5	59	4	2		2		7	2		1299		
18:00:00	985	1	32	3			1		5	1		1028		
18:15:00	910	4	42	4	1	1	1	1	2	3		969		
18:30:00	765	2	34	5	1				4			811		
18:45:00	651	2	25	4			1		4			687		
19:00:00	620	2	33	4	1			2	4			666		
19:15:00	584	1	26	3	1							615		
19:30:00	429	2	17	1			1	1	4			455		
19:45:00	314	2	12	7					4			339		
20:00:00	340	2	14	1	1				2			360		
20:15:00	336	1	8	2					6			353		
20:30:00	261	1	10	1	2							275		
20:45:00	226		9									235		
21:00:00	223		9	3					3			238		
21:15:00	221		6	2					1			230		
21:30:00	208		4						3			215		
21:45:00	211		8		1				1			221		
22:00:00	203		2						3			208		
22:15:00	155		1						4			160		
22:30:00	134		2						3			139		
22:45:00	120	2	2	2					2			128		
23:00:00	107		3							2		112		
23:15:00	87		2		1				1			91		
23:30:00	62		2		1		1					66		
23:45:00	65		1				1		2	1		70		
Grand Total	52507	277	3895	322	##	51	45	41	55	1	376	59	2	57747

17:00:00	250.60	203.71
17:15:00	266.40	217.14
17:30:00	236.40	193.86
17:45:00	224.40	185.57
18:00:00	176.40	146.86
18:15:00	164.80	138.43
18:30:00	134.20	115.86
18:45:00	112.80	98.14
19:00:00	111.40	95.14
19:15:00	101.20	87.86
19:30:00	71.00	65.00
19:45:00	52.40	48.43
20:00:00	55.40	51.43
20:15:00	55.00	50.43
20:30:00	41.80	39.29
20:45:00	38.40	33.57
21:00:00	34.40	34.00
21:15:00	32.60	32.86
21:30:00	33.80	30.71
21:45:00	33.40	31.57
22:00:00	32.40	29.71
22:15:00	23.00	22.86
22:30:00	21.00	19.86
22:45:00	18.60	18.29
23:00:00	14.40	16.00
23:15:00	13.00	13.00
23:30:00	8.80	9.43
23:45:00	9.80	10.00
Grand Total	9466.00	8249.57

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

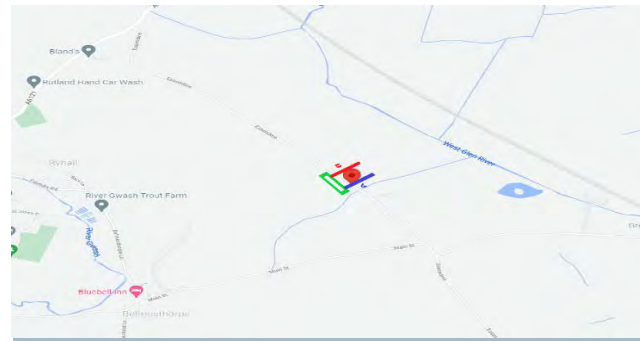
Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	14952	53.20	59.30	64.80	1935	12.94%	410	2.74%	148	0.99%
Tuesday	7745	53.21	59.20	64.60	976	12.60%	212	2.74%	74	0.96%
Wednesday	8121	53.39	59.50	64.50	1047	12.89%	210	2.59%	69	0.85%
Thursday	8162	53.27	59.30	64.80	1069	13.10%	239	2.93%	99	1.21%
Friday	8350	53.75	59.90	65.20	1192	14.28%	280	3.35%	106	1.27%
Saturday	5974	55.00	61.40	67.43	1159	19.40%	272	4.55%	107	1.79%
Sunday	4443	54.94	61.40	68.20	852	19.18%	227	5.11%	91	2.05%
5day	47330	53.34	59.40	64.80	6219	13.14%	1351	2.85%	496	1.05%
7day	57747	53.64	59.80	65.40	8230	14.25%	1850	3.20%	694	1.20%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 15



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

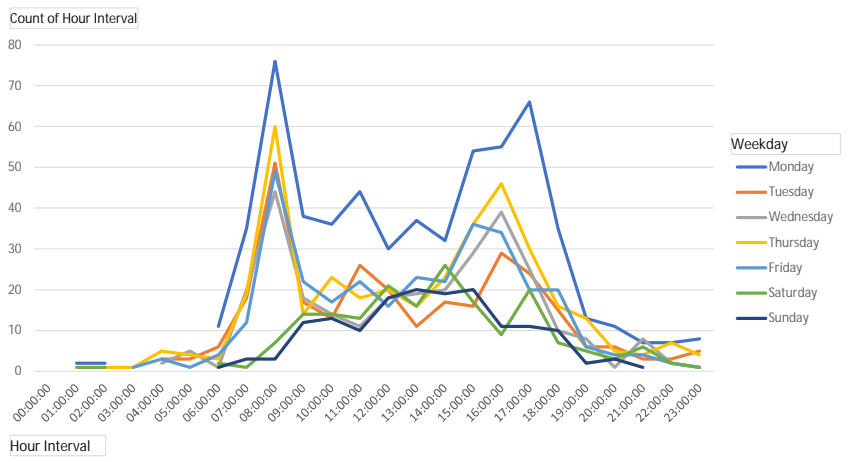
Compass direction
N
S

Class
1
2
3
4
5
7
8
9
14
15

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
2228	0.36%	0.00%	0.00%

Count of	Compass direct	Column Labels		
Row Labels	N	S	Grand Total	
11 October 2021	1060	922	1982	
18 October 2021	142	104	246	
Grand Total	1202	1026	2228	



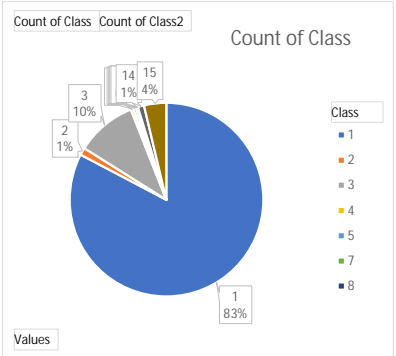
Count of	Compass direction	Column Labels	
Row Labels	N	S	
Monday	331	268	
Tuesday	150	145	
Wednesday	167	131	
Thursday	190	179	
Friday	168	154	
Saturday	105	81	
Sunday	91	68	
Grand Total	1202	1026	

Row Labels	Count of Class	Count of Class2
1	1843	82.72%
2	27	1.21%
3	225	10.10%
4	9	0.40%
5	10	0.45%
7	2	0.09%
8	3	0.13%
9	3	0.13%
14	23	1.03%
15	83	3.73%
Grand Total	2228	100.00%

Average of Speed	Column Labels	
Row Labels	N	S
Monday	37.61	41.24
Tuesday	38.73	41.50
Wednesday	37.97	39.83
Thursday	37.91	40.19
Friday	38.80	41.40
Saturday	35.58	40.03
Sunday	34.69	38.59
Grand Total	37.61	40.67

% Over PSL	% Over ACPO	% Over DFT
0.36%	0.00%	0.00%

vehicles are travelling over posted speed limit (60mph)  
 vehicles are traveling 10% +2 over PSL (68mph)  
 vehicles are 15mph over PSL (75mph)

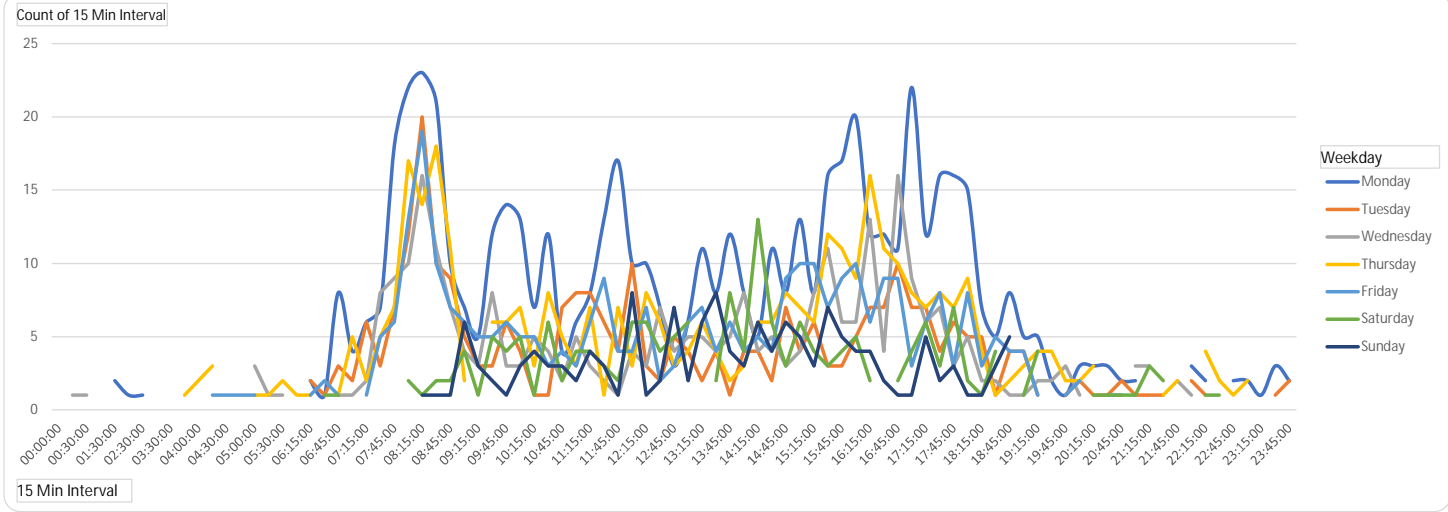


Week Commencing
11 October 2021
18 October 2021

Compass direction
N
S

Class
1
2
3
4
5
7
8
9
14
15

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
00:00:00					1			1
00:15:00		3	1	1				5
00:30:00			1		2			3
01:15:00						1		1
01:30:00	2							2
02:15:00	1							1
02:30:00	1		1			1		3
02:45:00				1				1
03:30:00					1			1
03:45:00				1				1
04:00:00				2				2
04:15:00		3		3	1			7
04:30:00			2		1		1	4
04:45:00					1			1
05:00:00		2	3	1	1			7
05:15:00			1	1				2
05:30:00		1	1	2				4
06:00:00				1				1
06:15:00	2	2		1	1			6
06:30:00	1	1			2	1		5
06:45:00	8	3	1	1	1	1	1	16
07:00:00	4	2	1	5				12
07:15:00	6	6	2	2	1			17
07:30:00	7	3	8	5	5	1		29

Row Labels	07-19	06-22	06-00	00-00
Monday	538	580	595	599
Tuesday	257	278	286	295
Wednesday	267	285	288	298
Thursday	321	346	357	369
Friday	293	311	314	322
Saturday	165	181	184	186
Sunday	150	157	158	159
<b>Grand Total</b>	<b>1991</b>	<b>2138</b>	<b>2182</b>	<b>2228</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	0.20	0.14
00:15:00	1.00	0.71
00:30:00	0.60	0.43
01:15:00	0.00	0.14
01:30:00	0.40	0.29
02:15:00	0.20	0.14
02:30:00	0.40	0.43
02:45:00	0.20	0.14
03:30:00	0.20	0.14
03:45:00	0.20	0.14
04:00:00	0.40	0.29
04:15:00	1.40	1.00
04:30:00	0.60	0.57
04:45:00	0.20	0.14
05:00:00	1.40	1.00
05:15:00	0.40	0.29
05:30:00	0.80	0.57
06:00:00	0.20	0.14
06:15:00	1.20	0.86
06:30:00	0.80	0.71
06:45:00	2.80	2.29
07:00:00	2.40	1.71
07:15:00	3.40	2.43
07:30:00	5.60	4.14
07:45:00	9.40	7.14

07:45:00	18	7	9	7	6		3	50
08:00:00	22	12	10	17	13	2		76
08:15:00	23	20	16	14	19	1	1	94
08:30:00	21	10	11	18	10	2	1	73
08:45:00	10	9	7	11	7	2	1	47
09:00:00	7	5	4	2	6	4	6	34
09:15:00	5	3	3		5	1	3	20
09:30:00	12	3	8	6	5	5	2	41
09:45:00	14	6	3	6	6	4	1	40
10:00:00	13	4	3	7	5	5	3	40
10:15:00	7	1	5	3	5	1	4	26
10:30:00	12	1	4	8	3	6	3	37
10:45:00	4	7	2	5	4	2	3	27
11:00:00	6	8	5	3	3	4	2	31
11:15:00	8	8	3	7	6	4	4	40
11:30:00	13	6	2	1	9	3	3	37
11:45:00	17	4	1	7	4	2	1	36
12:00:00	10	10	4	3	4	6	8	45
12:15:00	10	3	3	8	7	6	1	38
12:30:00	7	2	7	6	2	4	2	30
12:45:00	3	5	4	3	3	5	7	30
13:00:00	6	4	5	4	6	6	2	33
13:15:00	11	2	5	6	7		6	37
13:30:00	8	4	4	4	4	2	8	34
13:45:00	12	1	5	2	6	8	4	38
14:00:00	8	4	8	3	4	4	3	34
14:15:00	5	4	4	6	5	13	6	43
14:30:00	11	2	5	6	4	6	4	38
14:45:00	8	7	3	8	9	3	6	44
15:00:00	13	4	4	7	10	6	5	49
15:15:00	8	6	8	6	10	4	3	45
15:30:00	16	3	11	12	7	3	7	59
15:45:00	17	3	6	11	9	4	5	55
16:00:00	20	5	6	9	10	5	4	59
16:15:00	12	7	13	16	6	2	4	60
16:30:00	12	7	4	11	9		2	45
16:45:00	11	10	16	10	9	2	1	59
17:00:00	22	7	9	8	3	4	1	54
17:15:00	12	7	6	7	6	6	5	49
17:30:00	16	4	7	8	8	3	2	48
17:45:00	16	6	3	7	3	7	3	45
18:00:00	15	5	5	9	8	2	1	45
18:15:00	7	5	2	4	3	1	1	23
18:30:00	5	1	2	1	5	4	3	21
18:45:00	8	4	1	2	4		5	24
19:00:00	5	4	1	3	4	1		18
19:15:00	5	1	2	4	1	4		17
19:30:00	2		2	4			2	10
19:45:00	1	1	3	2	1			8
20:00:00	3	2	1	2	2		2	12

08:00:00	14.80	10.86
08:15:00	18.40	13.43
08:30:00	14.00	10.43
08:45:00	8.80	6.71
09:00:00	4.80	4.86
09:15:00	3.20	2.86
09:30:00	6.80	5.86
09:45:00	7.00	5.71
10:00:00	6.40	5.71
10:15:00	4.20	3.71
10:30:00	5.60	5.29
10:45:00	4.40	3.86
11:00:00	5.00	4.43
11:15:00	6.40	5.71
11:30:00	6.20	5.29
11:45:00	6.60	5.14
12:00:00	6.20	6.43
12:15:00	6.20	5.43
12:30:00	4.80	4.29
12:45:00	3.60	4.29
13:00:00	5.00	4.71
13:15:00	6.20	5.29
13:30:00	4.80	4.86
13:45:00	5.20	5.43
14:00:00	5.40	4.86
14:15:00	4.80	6.14
14:30:00	5.60	5.43
14:45:00	7.00	6.29
15:00:00	7.60	7.00
15:15:00	7.60	6.43
15:30:00	9.80	8.43
15:45:00	9.20	7.86
16:00:00	10.00	8.43
16:15:00	10.80	8.57
16:30:00	8.60	6.43
16:45:00	11.20	8.43
17:00:00	9.80	7.71
17:15:00	7.60	7.00
17:30:00	8.60	6.86
17:45:00	7.00	6.43
18:00:00	8.40	6.43
18:15:00	4.20	3.29
18:30:00	2.80	3.00
18:45:00	3.80	3.43
19:00:00	3.40	2.57
19:15:00	2.60	2.43
19:30:00	1.60	1.43
19:45:00	1.60	1.14
20:00:00	2.00	1.71
20:15:00	1.40	1.14



20:15:00	3	1		3		1		8
20:30:00	3	1			1	1	1	7
20:45:00	2	2			1	1		6
21:00:00	2	1	3	1		1		8
21:15:00		1	3			3		7
21:30:00	5	1		1	4	2	1	14
21:45:00			2	2				4
22:00:00	3	2	1		1			7
22:15:00	2	1		4		1		8
22:30:00				2	1	1		4
22:45:00	2		1	1				4
23:00:00	2	2		2		1		7
23:15:00	1						1	2
23:30:00	3	1			1			5
23:45:00	2	2	1	2				7
Grand Total	599	295	298	369	322	186	159	2228

20:30:00	1.00	1.00
20:45:00	1.00	0.86
21:00:00	1.40	1.14
21:15:00	0.80	1.00
21:30:00	2.20	2.00
21:45:00	0.80	0.57
22:00:00	1.40	1.00
22:15:00	1.40	1.14
22:30:00	0.60	0.57
22:45:00	0.80	0.57
23:00:00	1.20	1.00
23:15:00	0.20	0.29
23:30:00	1.00	0.71
23:45:00	1.40	1.00
Grand Total	376.60	318.29

Class	Axis	Access	Description	Parameters	Dimension/Details	Accessories
11	017	0	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
0	017	0	Short Towing (Trailer) Car sign (in)	group0+0.1m, 012+0.2m, 013+0.3m & access2, A, B	group0+0.1m, 012+0.2m, 013+0.3m & access2, A, B	Light
6	018	0	Three axle truck or bus	011+0.1m & access1	011+0.1m & access1	Accessories
4	018	0	Three axle truck or bus	access2 & group0+0.1	access2 & group0+0.1	Accessories
3	14	0.8	Four axle truck	access1 & group0+0.2	access1 & group0+0.2	Accessories
0	019	0	Three axle articulated vehicle or rigid vehicle and trailer	011+0.1m, access2 & group0+0.1	011+0.1m, access2 & group0+0.1	Accessories
7	019	0	Four axle articulated vehicle or rigid vehicle and trailer	012+0.2m or 013+0.3m or 014+0.4m or 015+0.5m or 016+0.6m or 017+0.7m or 018+0.8m or 019+0.9m or 020+1.0m or 021+1.1m or 022+1.2m or 023+1.3m or 024+1.4m or 025+1.5m or 026+1.6m or 027+1.7m or 028+1.8m or 029+1.9m or 030+2.0m or 031+2.1m or 032+2.2m or 033+2.3m or 034+2.4m or 035+2.5m or 036+2.6m or 037+2.7m or 038+2.8m or 039+2.9m or 040+3.0m or 041+3.1m or 042+3.2m or 043+3.3m or 044+3.4m or 045+3.5m or 046+3.6m or 047+3.7m or 048+3.8m or 049+3.9m or 050+4.0m or 051+4.1m or 052+4.2m or 053+4.3m or 054+4.4m or 055+4.5m or 056+4.6m or 057+4.7m or 058+4.8m or 059+4.9m or 060+5.0m or 061+5.1m or 062+5.2m or 063+5.3m or 064+5.4m or 065+5.5m or 066+5.6m or 067+5.7m or 068+5.8m or 069+5.9m or 070+6.0m or 071+6.1m or 072+6.2m or 073+6.3m or 074+6.4m or 075+6.5m or 076+6.6m or 077+6.7m or 078+6.8m or 079+6.9m or 080+7.0m or 081+7.1m or 082+7.2m or 083+7.3m or 084+7.4m or 085+7.5m or 086+7.6m or 087+7.7m or 088+7.8m or 089+7.9m or 090+8.0m or 091+8.1m or 092+8.2m or 093+8.3m or 094+8.4m or 095+8.5m or 096+8.6m or 097+8.7m or 098+8.8m or 099+8.9m or 100+9.0m or 101+9.1m or 102+9.2m or 103+9.3m or 104+9.4m or 105+9.5m or 106+9.6m or 107+9.7m or 108+9.8m or 109+9.9m or 110+10.0m or 111+10.1m or 112+10.2m or 113+10.3m or 114+10.4m or 115+10.5m or 116+10.6m or 117+10.7m or 118+10.8m or 119+10.9m or 120+11.0m or 121+11.1m or 122+11.2m or 123+11.3m or 124+11.4m or 125+11.5m or 126+11.6m or 127+11.7m or 128+11.8m or 129+11.9m or 130+12.0m or 131+12.1m or 132+12.2m or 133+12.3m or 134+12.4m or 135+12.5m or 136+12.6m or 137+12.7m or 138+12.8m or 139+12.9m or 140+13.0m or 141+13.1m or 142+13.2m or 143+13.3m or 144+13.4m or 145+13.5m or 146+13.6m or 147+13.7m or 148+13.8m or 149+13.9m or 150+14.0m or 151+14.1m or 152+14.2m or 153+14.3m or 154+14.4m or 155+14.5m or 156+14.6m or 157+14.7m or 158+14.8m or 159+14.9m or 160+15.0m or 161+15.1m or 162+15.2m or 163+15.3m or 164+15.4m or 165+15.5m or 166+15.6m or 167+15.7m or 168+15.8m or 169+15.9m or 170+16.0m or 171+16.1m or 172+16.2m or 173+16.3m or 174+16.4m or 175+16.5m or 176+16.6m or 177+16.7m or 178+16.8m or 179+16.9m or 180+17.0m or 181+17.1m or 182+17.2m or 183+17.3m or 184+17.4m or 185+17.5m or 186+17.6m or 187+17.7m or 188+17.8m or 189+17.9m or 190+18.0m or 191+18.1m or 192+18.2m or 193+18.3m or 194+18.4m or 195+18.5m or 196+18.6m or 197+18.7m or 198+18.8m or 199+18.9m or 200+19.0m or 201+19.1m or 202+19.2m or 203+19.3m or 204+19.4m or 205+19.5m or 206+19.6m or 207+19.7m or 208+19.8m or 209+19.9m or 210+20.0m or 211+20.1m or 212+20.2m or 213+20.3m or 214+20.4m or 215+20.5m or 216+20.6m or 217+20.7m or 218+20.8m or 219+20.9m or 220+21.0m or 221+21.1m or 222+21.2m or 223+21.3m or 224+21.4m or 225+21.5m or 226+21.6m or 227+21.7m or 228+21.8m or 229+21.9m or 230+22.0m or 231+22.1m or 232+22.2m or 233+22.3m or 234+22.4m or 235+22.5m or 236+22.6m or 237+22.7m or 238+22.8m or 239+22.9m or 240+23.0m or 241+23.1m or 242+23.2m or 243+23.3m or 244+23.4m or 245+23.5m or 246+23.6m or 247+23.7m or 248+23.8m or 249+23.9m or 250+24.0m or 251+24.1m or 252+24.2m or 253+24.3m or 254+24.4m or 255+24.5m or 256+24.6m or 257+24.7m or 258+24.8m or 259+24.9m or 260+25.0m or 261+25.1m or 262+25.2m or 263+25.3m or 264+25.4m or 265+25.5m or 266+25.6m or 267+25.7m or 268+25.8m or 269+25.9m or 270+26.0m or 271+26.1m or 272+26.2m or 273+26.3m or 274+26.4m or 275+26.5m or 276+26.6m or 277+26.7m or 278+26.8m or 279+26.9m or 280+27.0m or 281+27.1m or 282+27.2m or 283+27.3m or 284+27.4m or 285+27.5m or 286+27.6m or 287+27.7m or 288+27.8m or 289+27.9m or 290+28.0m or 291+28.1m or 292+28.2m or 293+28.3m or 294+28.4m or 295+28.5m or 296+28.6m or 297+28.7m or 298+28.8m or 299+28.9m or 300+29.0m or 301+29.1m or 302+29.2m or 303+29.3m or 304+29.4m or 305+29.5m or 306+29.6m or 307+29.7m or 308+29.8m or 309+29.9m or 310+30.0m or 311+30.1m or 312+30.2m or 313+30.3m or 314+30.4m or 315+30.5m or 316+30.6m or 317+30.7m or 318+30.8m or 319+30.9m or 320+31.0m or 321+31.1m or 322+31.2m or 323+31.3m or 324+31.4m or 325+31.5m or 326+31.6m or 327+31.7m or 328+31.8m or 329+31.9m or 330+32.0m or 331+32.1m or 332+32.2m or 333+32.3m or 334+32.4m or 335+32.5m or 336+32.6m or 337+32.7m or 338+32.8m or 339+32.9m or 340+33.0m or 341+33.1m or 342+33.2m or 343+33.3m or 344+33.4m or 345+33.5m or 346+33.6m or 347+33.7m or 348+33.8m or 349+33.9m or 350+34.0m or 351+34.1m or 352+34.2m or 353+34.3m or 354+34.4m or 355+34.5m or 356+34.6m or 357+34.7m or 358+34.8m or 359+34.9m or 360+35.0m or 361+35.1m or 362+35.2m or 363+35.3m or 364+35.4m or 365+35.5m or 366+35.6m or 367+35.7m or 368+35.8m or 369+35.9m or 370+36.0m or 371+36.1m or 372+36.2m or 373+36.3m or 374+36.4m or 375+36.5m or 376+36.6m or 377+36.7m or 378+36.8m or 379+36.9m or 380+37.0m or 381+37.1m or 382+37.2m or 383+37.3m or 384+37.4m or 385+37.5m or 386+37.6m or 387+37.7m or 388+37.8m or 389+37.9m or 390+38.0m or 391+38.1m or 392+38.2m or 393+38.3m or 394+38.4m or 395+38.5m or 396+38.6m or 397+38.7m or 398+38.8m or 399+38.9m or 400+39.0m or 401+39.1m or 402+39.2m or 403+39.3m or 404+39.4m or 405+39.5m or 406+39.6m or 407+39.7m or 408+39.8m or 409+39.9m or 410+40.0m or 411+40.1m or 412+40.2m or 413+40.3m or 414+40.4m or 415+40.5m or 416+40.6m or 417+40.7m or 418+40.8m or 419+40.9m or 420+41.0m or 421+41.1m or 422+41.2m or 423+41.3m or 424+41.4m or 425+41.5m or 426+41.6m or 427+41.7m or 428+41.8m or 429+41.9m or 430+42.0m or 431+42.1m or 432+42.2m or 433+42.3m or 434+42.4m or 435+42.5m or 436+42.6m or 437+42.7m or 438+42.8m or 439+42.9m or 440+43.0m or 441+43.1m or 442+43.2m or 443+43.3m or 444+43.4m or 445+43.5m or 446+43.6m or 447+43.7m or 448+43.8m or 449+43.9m or 450+44.0m or 451+44.1m or 452+44.2m or 453+44.3m or 454+44.4m or 455+44.5m or 456+44.6m or 457+44.7m or 458+44.8m or 459+44.9m or 460+45.0m or 461+45.1m or 462+45.2m or 463+45.3m or 464+45.4m or 465+45.5m or 466+45.6m or 467+45.7m or 468+45.8m or 469+45.9m or 470+46.0m or 471+46.1m or 472+46.2m or 473+46.3m or 474+46.4m or 475+46.5m or 476+46.6m or 477+46.7m or 478+46.8m or 479+46.9m or 480+47.0m or 481+47.1m or 482+47.2m or 483+47.3m or 484+47.4m or 485+47.5m or 486+47.6m or 487+47.7m or 488+47.8m or 489+47.9m or 490+48.0m or 491+48.1m or 492+48.2m or 493+48.3m or 494+48.4m or 495+48.5m or 496+48.6m or 497+48.7m or 498+48.8m or 499+48.9m or 500+49.0m or 501+49.1m or 502+49.2m or 503+49.3m or 504+49.4m or 505+49.5m or 506+49.6m or 507+49.7m or 508+49.8m or 509+49.9m or 510+50.0m or 511+50.1m or 512+50.2m or 513+50.3m or 514+50.4m or 515+50.5m or 516+50.6m or 517+50.7m or 518+50.8m or 519+50.9m or 520+51.0m or 521+51.1m or 522+51.2m or 523+51.3m or 524+51.4m or 525+51.5m or 526+51.6m or 527+51.7m or 528+51.8m or 529+51.9m or 530+52.0m or 531+52.1m or 532+52.2m or 533+52.3m or 534+52.4m or 535+52.5m or 536+52.6m or 537+52.7m or 538+52.8m or 539+52.9m or 540+53.0m or 541+53.1m or 542+53.2m or 543+53.3m or 544+53.4m or 545+53.5m or 546+53.6m or 547+53.7m or 548+53.8m or 549+53.9m or 550+54.0m or 551+54.1m or 552+54.2m or 553+54.3m or 554+54.4m or 555+54.5m or 556+54.6m or 557+54.7m or 558+54.8m or 559+54.9m or 560+55.0m or 561+55.1m or 562+55.2m or 563+55.3m or 564+55.4m or 565+55.5m or 566+55.6m or 567+55.7m or 568+55.8m or 569+55.9m or 570+56.0m or 571+56.1m or 572+56.2m or 573+56.3m or 574+56.4m or 575+56.5m or 576+56.6m or 577+56.7m or 578+56.8m or 579+56.9m or 580+57.0m or 581+57.1m or 582+57.2m or 583+57.3m or 584+57.4m or 585+57.5m or 586+57.6m or 587+57.7m or 588+57.8m or 589+57.9m or 590+58.0m or 591+58.1m or 592+58.2m or 593+58.3m or 594+58.4m or 595+58.5m or 596+58.6m or 597+58.7m or 598+58.8m or 599+58.9m or 600+59.0m or 601+59.1m or 602+59.2m or 603+59.3m or 604+59.4m or 605+59.5m or 606+59.6m or 607+59.7m or 608+59.8m or 609+59.9m or 610+60.0m or 611+60.1m or 612+60.2m or 613+60.3m or 614+60.4m or 615+60.5m or 616+60.6m or 617+60.7m or 618+60.8m or 619+60.9m or 620+61.0m or 621+61.1m or 622+61.2m or 623+61.3m or 624+61.4m or 625+61.5m or 626+61.6m or 627+61.7m or 628+61.8m or 629+61.9m or 630+62.0m or 631+62.1m or 632+62.2m or 633+62.3m or 634+62.4m or 635+62.5m or 636+62.6m or 637+62.7m or 638+62.8m or 639+62.9m or 640+63.0m or 641+63.1m or 642+63.2m or 643+63.3m or 644+63.4m or 645+63.5m or 646+63.6m or 647+63.7m or 648+63.8m or 649+63.9m or 650+64.0m or 651+64.1m or 652+64.2m or 653+64.3m or 654+64.4m or 655+64.5m or 656+64.6m or 657+64.7m or 658+64.8m or 659+64.9m or 660+65.0m or 661+65.1m or 662+65.2m or 663+65.3m or 664+65.4m or 665+65.5m or 666+65.6m or 667+65.7m or 668+65.8m or 669+65.9m or 670+66.0m or 671+66.1m or 672+66.2m or 673+66.3m or 674+66.4m or 675+66.5m or 676+66.6m or 677+66.7m or 678+66.8m or 679+66.9m or 680+67.0m or 681+67.1m or 682+67.2m or 683+67.3m or 684+67.4m or 685+67.5m or 686+67.6m or 687+67.7m or 688+67.8m or 689+67.9m or 690+68.0m or 691+68.1m or 692+68.2m or 693+68.3m or 694+68.4m or 695+68.5m or 696+68.6m or 697+68.7m or 698+68.8m or 699+68.9m or 700+69.0m or 701+69.1m or 702+69.2m or 703+69.3m or 704+69.4m or 705+69.5m or 706+69.6m or 707+69.7m or 708+69.8m or 709+69.9m or 710+70.0m or 711+70.1m or 712+70.2m or 713+70.3m or 714+70.4m or 715+70.5m or 716+70.6m or 717+70.7m or 718+70.8m or 719+70.9m or 720+71.0m or 721+71.1m or 722+71.2m or 723+71.3m or 724+71.4m or 725+71.5m or 726+71.6m or 727+71.7m or 728+71.8m or 729+71.9m or 730+72.0m or 731+72.1m or 732+72.2m or 733+72.3m or 734+72.4m or 735+72.5m or 736+72.6m or 737+72.7m or 738+72.8m or 739+72.9m or 740+73.0m or 741+73.1m or 742+73.2m or 743+73.3m or 744+73.4m or 745+73.5m or 746+73.6m or 747+73.7m or 748+73.8m or 749+73.9m or 750+74.0m or 751+74.1m or 752+74.2m or 753+74.3m or 754+74.4m or 755+74.5m or 756+74.6m or 757+74.7m or 758+74.8m or 759+74.9m or 760+75.0m or 761+75.1m or 762+75.2m or 763+75.3m or 764+75.4m or 765+75.5m or 766+75.6m or 767+75.7m or 768+75.8m or 769+75.9m or 770+76.0m or 771+76.1m or 772+76.2m or 773+76.3m or 774+76.4m or 775+76.5m or 776+76.6m or 777+76.7m or 778+76.8m or 779+76.9m or 780+77.0m or 781+77.1m or 782+77.2m or 783+77.3m or 784+77.4m or 785+77.5m or 786+77.6m or 787+77.7m or 788+77.8m or 789+77.9m or 790+78.0m or 791+78.1m or 792+78.2m or 793+78.3m or 794+78.4m or 795+78.5m or 796+78.6m or 797+78.7m or 798+78.8m or 799+78.9m or 800+79.0m or 801+79.1m or 802+79.2m or 803+79.3m or 804+79.4m or 805+79.5m or 806+79.6m or 807+79.7m or 808+79.8m or 809+79.9m or 810+80.0m or 811+80.1m or 812+80.2m or 813+80.3m or 814+80.4m or 815+80.5m or 816+80.6m or 817+80.7m or 818+80.8m or 819+80.9m or 820+81.0m or 821+81.1m or 822+81.2m or 823+81.3m or 824+81.4m or 825+81.5m or 826+81.6m or 827+81.7m or 828+81.8m or 829+81.9m or 830+82.0m or 831+82.1m or 832+82.2m or 833+82.3m or 834+82.4m or 835+82.5m or 836+82.6m or 837+82.7m or 838+82.8m or 839+82.9m or 840+83.0m or 841+83.1m or 842+83.2m or 843+83.3m or 844+83.4m or 845+83.5m or 846+83.6m or 847+83.7m or 848+83.8m or 849+83.9m or 850+84.0m or 851+84.1m or 852+84.2m or 853+84.3m or 854+84.4m or 855+84.5m or 856+84.6m or 857+84.7m or 858+84.8m or 859+84.9m or 860+85.0m or 861+85.1m or 862+85.2m or 863+85.3m or 864+85.4m or 865+85.5m or 866+85.6m or 867+85.7m or 868+85.8m or 869+85.9m or 870+86.0m or 871+86.1m or 872+86.2m or 873+86.3m or 874+86.4m or 875+86.5m or 876+86.6m or 877+86.7m or 878+86.8m or 879+86.9m or 880+87.0m or 881+87.1m or 882+87.2m or 883+87.3m or 884+87.4m or 885+87.5m or 886+87.6m or 887+87.7m or 888+87.8m or 889+87.9m or 890+88.0m or 891+88.1m or 892+88.2m or 893+88.3m or 894+88.4m or 895+88.5m or 896+88.6m or 897+88.7m or 898+88.8m or 899+88.9m or 900+89.0m or 901+89.1m or 902+89.2m or 903+89.3m or 904+89.4m or 905+89.5m or 906+89.6m or 907+89.7m or 908+89.8m or 909+89.9m or 910+90.0m or 911+90.1m or 912+90.2m or 913+90.3m or 914+90.4m or 915+90.5m or 916+90.6m or 917+90.7m or 918+90.8m or 919+90.9m or 920+91.0m or 921+91.1m or 922+91.2m or 923+91.3m or 924+91.4m or 925+91.5m or 926+91.6m or 927+91.7m or 928+91.8m or 929+91.9m or 930+92.0m or 931+92.1m or 932+92.2m or 933+92.3m or 934+92.4m or 935+92.5m or 936+92.6m or 937+92.7m or 938+92.8m or 939+92.9m or 940+93.0m or 941+93.1m or 942+93.2m or 943+93.3m or 944+93.4m or 945+93.5m or 946+93.6m or 947+93.7m or 948+93.8m or 949+93.9m or 950+94.0m or 951+94.1m or 952+94.2m or 953+94.3m or 954+94.4m or 955+94.5m or 956+94.6m or 957+94.7m or 958+94.8m or 959+94.9m or 960+95.0m or 961+95.1m or 962+95.2m or 963+95.3m or 964+95.4m or 965+95.5m or 966+95.6m or 967+95.7m or 968+95.8m or 969+95.9m or 970+96.0m or 971+96.1m or 972+96.2m or 973+96.3m or 974+96.4m or 975+96.5m or 976+96.6m or 977+96.7m or 978+96.8m or 979+96.9m or 980+97.0m or 981+97.1m or 982+97.2m or 983+97.3m or 984+97.4m or 985+97.5m or 986+97.6m or 987+97.7m or 988+97.8m or 989+97.9m or 990+98.0m or 991+98.1m or 992+98.2m or 993+98.3m or 994+98.4m or 995+98.5m or 996+98.6m or 997+98.7m or 998+98.8m or 999+98.9m or 1000+99.0m or 1001+99.1m or 1002+99.2m or 1003+99.3m or 1004+99.4m or 1005+99.5m or 1006+99.6m or 1007+99.7m or 1008+99.8m or 1009+99.9m or 1010+100.0m or 1011+100.1m or 1012+100.2m or 1013+100.3m or 1014+100.4m or 1015+100.5m or 1016+100.6m or 1017+100.7m or 1018+100.8m or 1019+100.9m or 1020+101.0m or 1021+101.1m or 1022+101.2m or 1023+101.3m or 1024+101.4m or 1025+101.5m or 1026+101.6m or 1027+101.7m or 1028+101.8m or 1029+101.9m or 1030+102.0m or 1031+102.1m or 1032+102.2m or 1033+102.3m or 1034+102.4m or 1035+102.5m or 1036+102.6m or 1037+102.7m or 1038+102.8m or 1039+102.9m or 1040+103.0m or 1041+103.1m or 1042+103.2m or 1043+103.3m or 1044+103.4m or 1045+103.5m or 1046+103.6m or 1047+103.7m or 1048+103.8m or 1049+103.9m or 1050+104.0m or 1051+104.1m or 1052+104.2m or 1053+104.3m or 1054+104.4m or 1055+104.5m or 1056+104.6m or 1057+104.7m or 1058+104.8m or 1059+104.9m or 1060+105.0m or 1061+105.1m or 1062+105.2m or 1063+105.3m or 1064+105.4m or 1065+105.5m or 1066+105.6m or 106		

06:15:00	3					3	6			
06:30:00	4					1	5			
06:45:00	15		1				16			
07:00:00	8		3			1	12			
07:15:00	15		1			1	17			
07:30:00	24		5				29			
07:45:00	42		5			3	50			
08:00:00	71	1	2	1		1	76			
08:15:00	84	1	7		1	1	94			
08:30:00	59	1	12			1	73			
08:45:00	40	1	3			1	2	47		
09:00:00	31	1	1	1			34			
09:15:00	17	1	2				20			
09:30:00	33		5	1		2	41			
09:45:00	27	2	6	1		1	3	40		
10:00:00	23	1	10		1		5	40		
10:15:00	19	1	4				2	26		
10:30:00	27	3	4				3	37		
10:45:00	20		1				6	27		
11:00:00	23	2	2		2		1	1	31	
11:15:00	37		2				1	40		
11:30:00	27		8	1		1		37		
11:45:00	27		6				3	36		
12:00:00	40		4				1	45		
12:15:00	25		6		1		1	1	4	38
12:30:00	21		2		2		1	4	30	
12:45:00	21	1	4		1		3	30		
13:00:00	22	1	5				5	33		
13:15:00	32		3				2	37		
13:30:00	29	1	2				2	34		
13:45:00	31		5		1		1	38		
14:00:00	25		5	2			1	1	34	
14:15:00	34		6			2	1	43		
14:30:00	35		2				1	38		
14:45:00	32	1	7				1	3	44	
15:00:00	42		6				1	49		
15:15:00	39		2	1			1	2	45	
15:30:00	53		4				2	59		
15:45:00	48	1	5				1	55		
16:00:00	50		7				2	59		
16:15:00	50		9				1	60		
16:30:00	37		8					45		
16:45:00	52		6				1	59		
17:00:00	48	1	3			1	1	54		
17:15:00	45		4					49		
17:30:00	43		4	1				48		
17:45:00	41		2				2	45		
18:00:00	40		3		1		1	45		
18:15:00	18	1	2				2	23		

06:30:00	0.80	0.71
06:45:00	2.80	2.29
07:00:00	2.40	1.71
07:15:00	3.40	2.43
07:30:00	5.60	4.14
07:45:00	9.40	7.14
08:00:00	14.80	10.86
08:15:00	18.40	13.43
08:30:00	14.00	10.43
08:45:00	8.80	6.71
09:00:00	4.80	4.86
09:15:00	3.20	2.86
09:30:00	6.80	5.86
09:45:00	7.00	5.71
10:00:00	6.40	5.71
10:15:00	4.20	3.71
10:30:00	5.60	5.29
10:45:00	4.40	3.86
11:00:00	5.00	4.43
11:15:00	6.40	5.71
11:30:00	6.20	5.29
11:45:00	6.60	5.14
12:00:00	6.20	6.43
12:15:00	6.20	5.43
12:30:00	4.80	4.29
12:45:00	3.60	4.29
13:00:00	5.00	4.71
13:15:00	6.20	5.29
13:30:00	4.80	4.86
13:45:00	5.20	5.43
14:00:00	5.40	4.86
14:15:00	4.80	6.14
14:30:00	5.60	5.43
14:45:00	7.00	6.29
15:00:00	7.60	7.00
15:15:00	7.60	6.43
15:30:00	9.80	8.43
15:45:00	9.20	7.86
16:00:00	10.00	8.43
16:15:00	10.80	8.57
16:30:00	8.60	6.43
16:45:00	11.20	8.43
17:00:00	9.80	7.71
17:15:00	7.60	7.00
17:30:00	8.60	6.86
17:45:00	7.00	6.43
18:00:00	8.40	6.43
18:15:00	4.20	3.29
18:30:00	2.80	3.00

18:30:00	18		2						1	21		
18:45:00	24									24		
19:00:00	18									18		
19:15:00	17									17		
19:30:00	7		1					2		10		
19:45:00	5		2					1		8		
20:00:00	8		2					2		12		
20:15:00	8									8		
20:30:00	7									7		
20:45:00	4		2							6		
21:00:00	7		1							8		
21:15:00	7									7		
21:30:00	11		1	2						14		
21:45:00	1		1					2		4		
22:00:00	3							4		7		
22:15:00	6		1	1						8		
22:30:00	4									4		
22:45:00	4									4		
23:00:00	6		1							7		
23:15:00	2									2		
23:30:00	5									5		
23:45:00	4		1					2		7		
Grand Total	1843		27	225	9	10	2	3	3	23	83	###

18:45:00	3.80	3.43
19:00:00	3.40	2.57
19:15:00	2.60	2.43
19:30:00	1.60	1.43
19:45:00	1.60	1.14
20:00:00	2.00	1.71
20:15:00	1.40	1.14
20:30:00	1.00	1.00
20:45:00	1.00	0.86
21:00:00	1.40	1.14
21:15:00	0.80	1.00
21:30:00	2.20	2.00
21:45:00	0.80	0.57
22:00:00	1.40	1.00
22:15:00	1.40	1.14
22:30:00	0.60	0.57
22:45:00	0.80	0.57
23:00:00	1.20	1.00
23:15:00	0.20	0.29
23:30:00	1.00	0.71
23:45:00	1.40	1.00
Grand Total	376.60	318.29

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

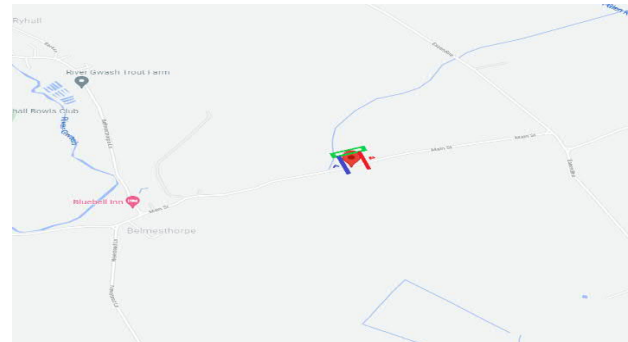
Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	599	39.23	47.60	52.02	3	0.50%	0	0.00%	0	0.00%
Tuesday	295	40.09	47.89	52.42	0	0.00%	0	0.00%	0	0.00%
Wednesday	298	38.79	47.75	51.88	1	0.34%	0	0.00%	0	0.00%
Thursday	369	39.02	48.46	51.56	1	0.27%	0	0.00%	0	0.00%
Friday	322	40.04	48.27	52.70	1	0.31%	0	0.00%	0	0.00%
Saturday	186	37.52	48.13	52.63	1	0.54%	0	0.00%	0	0.00%
Sunday	159	36.36	46.83	51.85	1	0.63%	0	0.00%	0	0.00%
5day	1883	39.39	48.00	52.18	6	0.32%	0	0.00%	0	0.00%
7day	2228	39.02	48.00	52.20	8	0.36%	0	0.00%	0	0.00%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 16



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

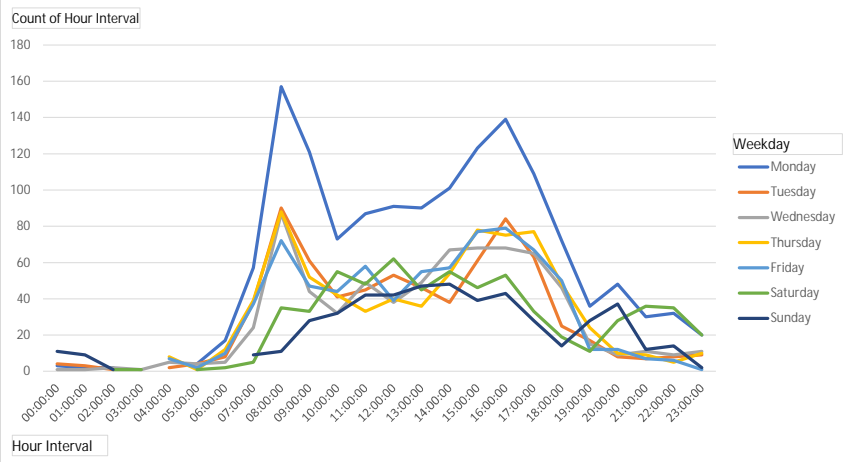
Compass direction
E
W

Class
1
2
3
4
5
7
8
9
10
12
14
15

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
5451	0.64%	0.11%	0.02%

Count of Compass direct	Column Labels	Grand Total	
Row Labels	W	E	
11 October 2021	2380	2384	4764
18 October 2021	341	346	687
Grand Total	2721	2730	5451



Count of	Compass direction	Column Labels
Row Labels	W	E
Monday	709	705
Tuesday	376	340
Wednesday	361	350
Thursday	393	350
Friday	382	362
Saturday	279	347
Sunday	221	276
Grand Total	2721	2730

Average of Speed	Column Labels	
Row Labels	W	E
Monday	40.26	38.78
Tuesday	40.20	39.47
Wednesday	39.72	38.88
Thursday	40.53	39.27
Friday	41.05	39.34
Saturday	39.39	38.92
Sunday	38.24	37.58
Grand Total	40.08	38.91

% Over PSL	% Over ACPO	% Over DFT
0.64%	0.11%	0.02%

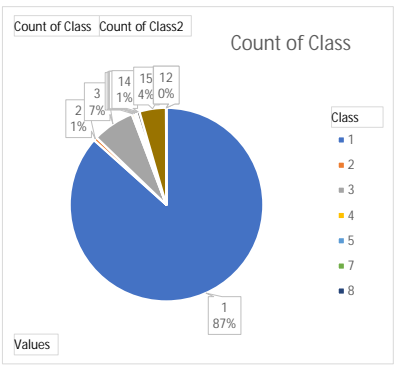
vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)



Row Labels	Count of Class	Count of Class2
1	4720	86.59%
2	34	0.62%
3	380	6.97%
4	21	0.39%
5	13	0.24%
7	9	0.17%
8	1	0.02%
9	2	0.04%
14	27	0.50%
15	241	4.42%
10	2	0.04%
12	1	0.02%
Grand Total	5451	100.00%

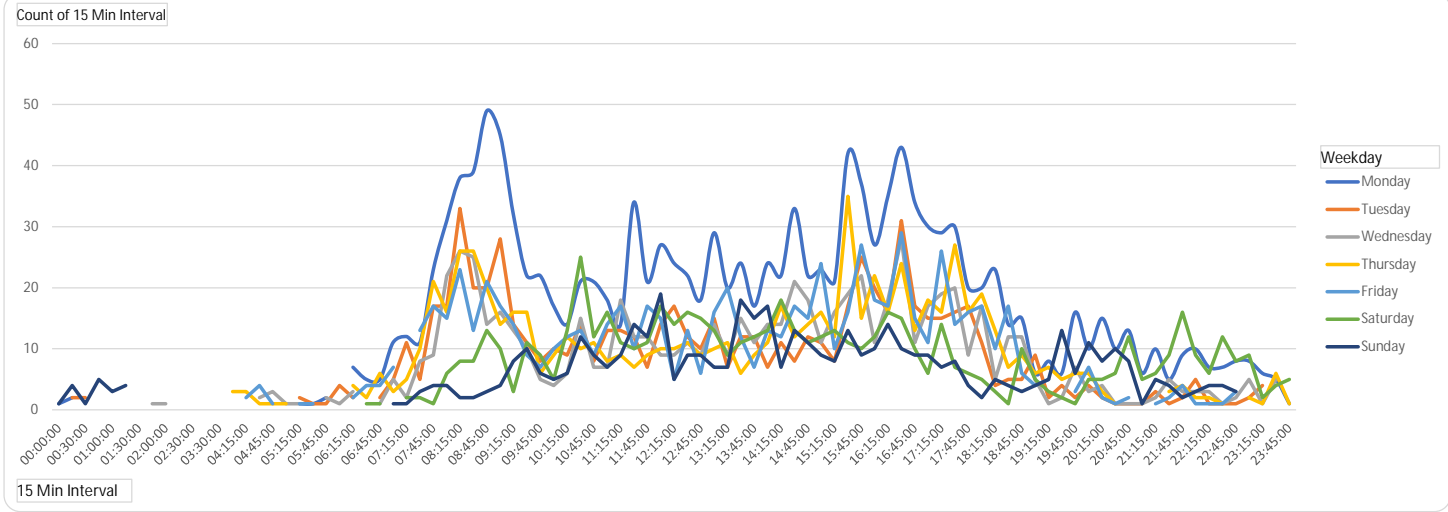


Week Commencing
11 October 2021
18 October 2021

Compass direction
E
W

Class
1
2
3
4
5
7
8
9
10
12

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
00:00:00	1		1			2	1	5
00:15:00	2	2		1	2		4	11
00:30:00		2					1	3
00:45:00				1	3		5	9
01:00:00		1					3	4
01:15:00							4	4
01:30:00	2							2
01:45:00		2	1				2	5
02:00:00			1					1
02:15:00	1					1		2
02:30:00		1	1				1	3
02:45:00	1							1
03:30:00			1			1		2
04:00:00				3				3
04:15:00		1		3	2			6
04:30:00			2	1	4			7
04:45:00		1	3	1	1			6
05:00:00			1	1		1		3
05:15:00	1	2	1		1			5
05:30:00	1	1			1			3
05:45:00	2	1	2					5
06:00:00		4	1					5
06:15:00	7	2	3	4	2			18
06:30:00	5			2	4	1		12

Row Labels	07-19	06-22	06-00	00-00
Monday	1220	1351	1403	1414
Tuesday	645	685	702	716
Wednesday	637	677	697	711
Thursday	662	717	732	743
Friday	682	723	730	744
Saturday	489	566	621	626
Sunday	383	460	476	497
<b>Grand Total</b>	<b>4718</b>	<b>5179</b>	<b>5361</b>	<b>5451</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	0.40	0.71
00:15:00	1.40	1.57
00:30:00	0.40	0.43
00:45:00	0.80	1.29
01:00:00	0.20	0.57
01:15:00	0.00	0.57
01:30:00	0.40	0.29
01:45:00	0.60	0.71
02:00:00	0.20	0.14
02:15:00	0.20	0.29
02:30:00	0.40	0.43
02:45:00	0.20	0.14
03:30:00	0.20	0.29
04:00:00	0.60	0.43
04:15:00	1.20	0.86
04:30:00	1.40	1.00
04:45:00	1.20	0.86
05:00:00	0.40	0.43
05:15:00	1.00	0.71
05:30:00	0.60	0.43
05:45:00	1.00	0.71
06:00:00	1.00	0.71
06:15:00	3.60	2.57
06:30:00	2.20	1.71
06:45:00	3.60	2.71



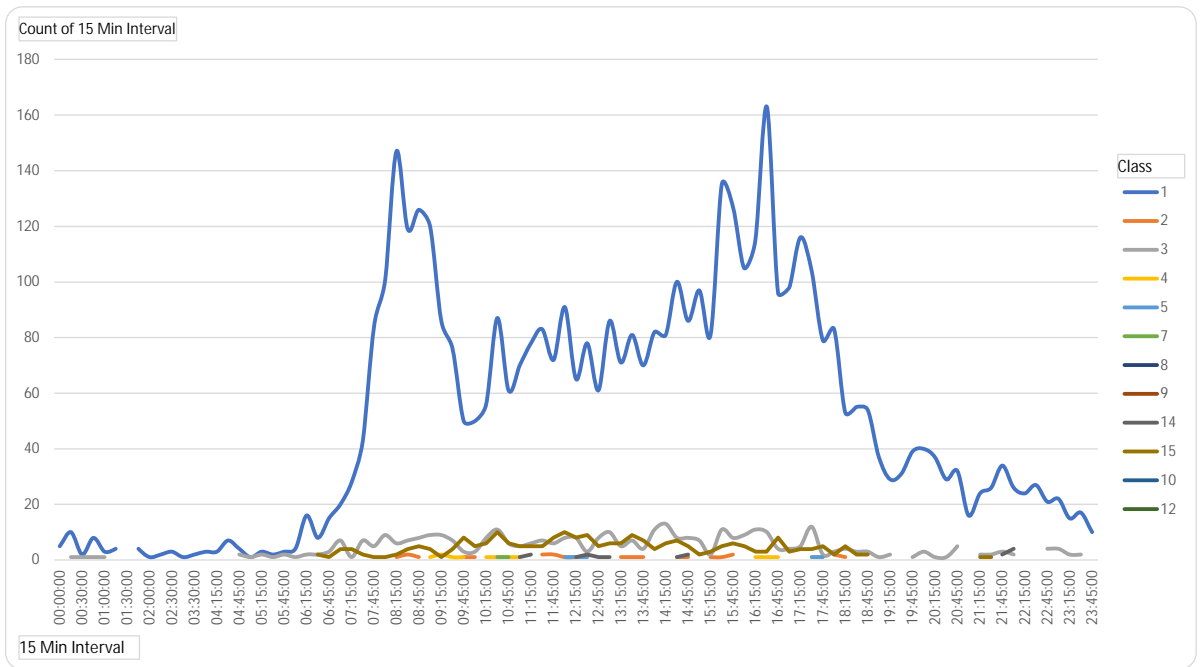
06:45:00	5	2	1	6	4	1		19
07:00:00	11	5	5	3	7		1	32
07:15:00	12	11	2	5		2	1	33
07:30:00	11	5	8	10	13	2	3	52
07:45:00	23	17	9	21	17	1	4	92
08:00:00	31	17	22	16	15	6	4	111
08:15:00	38	33	26	26	23	8	2	156
08:30:00	39	20	25	26	13	8	2	133
08:45:00	49	20	14	20	21	13	3	140
09:00:00	45	28	16	14	17	10	4	134
09:15:00	32	14	13	16	14	3	8	100
09:30:00	22	11	10	16	9	11	10	89
09:45:00	22	8	5	6	7	9	6	63
10:00:00	17	10	4	9	10	5	5	60
10:15:00	14	9	6	12	12	13	6	72
10:30:00	21	14	15	10	13	25	12	110
10:45:00	21	8	7	11	9	12	9	77
11:00:00	18	13	7	8	14	16	7	83
11:15:00	14	13	18	9	17	11	9	91
11:30:00	34	12	12	7	10	10	14	99
11:45:00	21	7	12	9	17	11	12	89
12:00:00	27	14	9	10	15	17	19	111
12:15:00	24	17	9	10	5	14	5	84
12:30:00	22	12	11	11	13	16	9	94
12:45:00	18	10	9	9	6	15	9	76
13:00:00	29	15	14	10	16	13	7	104
13:15:00	20	7	9	11	20	9	7	83
13:30:00	24	12	15	6	12	11	18	98
13:45:00	17	12	11	9	7	12	15	83
14:00:00	24	7	14	11	13	13	17	99
14:15:00	22	11	14	17	12	18	7	101
14:30:00	33	8	21	12	17	13	13	117
14:45:00	22	12	18	14	15	11	11	103
15:00:00	23	11	11	16	24	12	9	106
15:15:00	21	8	16	12	10	13	8	88
15:30:00	42	17	19	35	16	11	13	153
15:45:00	37	25	22	15	27	10	9	145
16:00:00	27	20	11	22	18	12	10	120
16:15:00	35	16	18	16	17	16	14	132
16:30:00	43	31	28	24	29	15	10	180
16:45:00	34	17	11	13	15	10	9	109
17:00:00	30	15	17	18	11	6	9	106
17:15:00	29	15	19	16	26	14	7	126
17:30:00	30	16	20	27	14	7	8	122
17:45:00	20	17	9	16	16	6	4	88
18:00:00	20	11	17	19	17	5	2	91
18:15:00	23	4	5	13	10	3	5	63
18:30:00	14	5	12	7	17	1	4	60
18:45:00	15	5	12	9	6	10	3	60
19:00:00	6	9	5	6	4	5	4	39

07:00:00	6.20	4.57
07:15:00	6.00	4.71
07:30:00	9.40	7.43
07:45:00	17.40	13.14
08:00:00	20.20	15.86
08:15:00	29.20	22.29
08:30:00	24.60	19.00
08:45:00	24.80	20.00
09:00:00	24.00	19.14
09:15:00	17.80	14.29
09:30:00	13.60	12.71
09:45:00	9.60	9.00
10:00:00	10.00	8.57
10:15:00	10.60	10.29
10:30:00	14.60	15.71
10:45:00	11.20	11.00
11:00:00	12.00	11.86
11:15:00	14.20	13.00
11:30:00	15.00	14.14
11:45:00	13.20	12.71
12:00:00	15.00	15.86
12:15:00	13.00	12.00
12:30:00	13.80	13.43
12:45:00	10.40	10.86
13:00:00	16.80	14.86
13:15:00	13.40	11.86
13:30:00	13.80	14.00
13:45:00	11.20	11.86
14:00:00	13.80	14.14
14:15:00	15.20	14.43
14:30:00	18.20	16.71
14:45:00	16.20	14.71
15:00:00	17.00	15.14
15:15:00	13.40	12.57
15:30:00	25.80	21.86
15:45:00	25.20	20.71
16:00:00	19.60	17.14
16:15:00	20.40	18.86
16:30:00	31.00	25.71
16:45:00	18.00	15.57
17:00:00	18.20	15.14
17:15:00	21.00	18.00
17:30:00	21.40	17.43
17:45:00	15.60	12.57
18:00:00	16.80	13.00
18:15:00	11.00	9.00
18:30:00	11.00	8.57
18:45:00	9.40	8.57
19:00:00	6.00	5.57
19:15:00	4.60	4.43

19:15:00	8	2	1	7	5	3	5	31
19:30:00	6	4	2	5		2	13	32
19:45:00	16	2	7	6	3	1	6	41
20:00:00	10	4	3	6	7	5	11	46
20:15:00	15	2	4	3	2	5	8	39
20:30:00	10	1	1	1	1	6	10	30
20:45:00	13	1	1		2	12	8	37
21:00:00	6	1	1	2		5	1	16
21:15:00	10	3	2		1	6	5	27
21:30:00	5	1	5	3	2	9	4	29
21:45:00	9	2	3	4	4	16	2	40
22:00:00	10	5	3	2	1	9	3	33
22:15:00	7	1	3	2	1	6	4	24
22:30:00	7	1	1	1	1	12	4	27
22:45:00	8	1	2		3	8	3	25
23:00:00	8	2	5	2		9		26
23:15:00	6	4	1	1	1	2	2	17
23:30:00	5		5	6		4		20
23:45:00	1	3		1		5		10
Grand Total	1414	716	711	743	744	626	497	5451

19:30:00	3.40	4.57
19:45:00	6.80	5.86
20:00:00	6.00	6.57
20:15:00	5.20	5.57
20:30:00	2.80	4.29
20:45:00	3.40	5.29
21:00:00	2.00	2.29
21:15:00	3.20	3.86
21:30:00	3.20	4.14
21:45:00	4.40	5.71
22:00:00	4.20	4.71
22:15:00	2.80	3.43
22:30:00	2.20	3.86
22:45:00	2.80	3.57
23:00:00	3.40	3.71
23:15:00	2.60	2.43
23:30:00	3.20	2.86
23:45:00	1.00	1.43
Grand Total	865.60	778.71

Class	Axis	Access	Description	Parameters	Dimension Details	Access
11	017	2	1000 3	001+0.1m, 002+0.2m & access	001+0.1m	Light
12	017	3	1000 3	001+0.1m, 002+0.2m, 003+0.3m & access	001+0.1m, 002+0.2m, 003+0.3m	Light
13	017	2	1000 3	001+0.1m & access	001+0.1m	Light
14	017	3	1000 3	001+0.1m, 002+0.2m, 003+0.3m & access	001+0.1m, 002+0.2m, 003+0.3m	Light
15	017	2	1000 3	001+0.1m & access	001+0.1m	Light
16	017	3	1000 3	001+0.1m, 002+0.2m, 003+0.3m & access	001+0.1m, 002+0.2m, 003+0.3m	Light
17	017	2	1000 3	001+0.1m & access	001+0.1m	Light
18	017	3	1000 3	001+0.1m, 002+0.2m, 003+0.3m & access	001+0.1m, 002+0.2m, 003+0.3m	Light
19	017	2	1000 3	001+0.1m & access	001+0.1m	Light
20	017	3	1000 3	001+0.1m, 002+0.2m, 003+0.3m & access	001+0.1m, 002+0.2m, 003+0.3m	Light
21	017	2	1000 3	001+0.1m & access	001+0.1m	Light
22	017	3	1000 3	001+0.1m, 002+0.2m, 003+0.3m & access	001+0.1m, 002+0.2m, 003+0.3m	Light
23	017	2	1000 3	001+0.1m & access	001+0.1m	Light
24	017	3	1000 3	001+0.1m, 002+0.2m, 003+0.3m & access	001+0.1m, 002+0.2m, 003+0.3m	Light
25	017	2	1000 3	001+0.1m & access	001+0.1m	Light



**Week Commencing**

11 October 2021

18 October 2021

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**Class**

1

2

3

4

5

**Compass direction**

E

W

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**Weekday**

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Count of 15 Min Interval	Column Labels	1	2	3	4	5	7	8	9	14	15	10	12	Grand Total
00:00:00	Row Labels	5												5
00:15:00		10		1										11
00:30:00		2		1										3
00:45:00		8		1										9
01:00:00		3		1										4
01:15:00		4												4
01:30:00									2					2
01:45:00		4		1										5
02:00:00		1												1
02:15:00		2												2
02:30:00		3												3
02:45:00		1												1
03:30:00		2												2
04:00:00		3												3
04:15:00		3		3										6
04:30:00		7												7
04:45:00		4		2										6
05:00:00		1		1							1			3

Row Labels	07-19	06-22	06-00	00-00
Monday	1220	1351	1403	1414
Tuesday	645	685	702	716
Wednesday	637	677	697	711
Thursday	662	717	732	743
Friday	682	723	730	744
Saturday	489	566	621	626
Sunday	383	460	476	497
Grand Total	4718	5179	5361	5451

Row Labels	Average 5 Days	σ of Average 7 D
00:00:00	0.40	0.71
00:15:00	1.40	1.57
00:30:00	0.40	0.43
00:45:00	0.80	1.29
01:00:00	0.20	0.57
01:15:00	0.00	0.57
01:30:00	0.40	0.29
01:45:00	0.60	0.71
02:00:00	0.20	0.14
02:15:00	0.20	0.29
02:30:00	0.40	0.43
02:45:00	0.20	0.14
03:00:00	0.20	0.29
04:00:00	0.60	0.43
04:15:00	1.20	0.86
04:30:00	1.40	1.00
04:45:00	1.20	0.86
05:00:00	0.40	0.43
05:15:00	1.00	0.71

05:15:00	3		2				5	
05:30:00	2		1				3	
05:45:00	3		2				5	
06:00:00	4		1				5	
06:15:00	16		2				18	
06:30:00	8		2		2		12	
06:45:00	15		3		1		19	
07:00:00	20	1	7		4		32	
07:15:00	28		1		4		33	
07:30:00	43		7		2		52	
07:45:00	84		5	2	1		92	
08:00:00	101		9		1		111	
08:15:00	147	1	6		2		156	
08:30:00	119	2	7		1	4	133	
08:45:00	126	1	8		5		140	
09:00:00	120		9	1	4		134	
09:15:00	86	2	9	2	1		100	
09:30:00	76		7	1	1	4	89	
09:45:00	50	1	3	1		8	63	
10:00:00	50	1	3		1	5	60	
10:15:00	56		8	1		1	6	72
10:30:00	87		11	1	1	10	110	
10:45:00	61		6	1	2	1	6	77
11:00:00	70	1	5	1		1	5	83
11:15:00	78		6			2	5	91
11:30:00	83	2	7	1	1	5	99	
11:45:00	72	2	6			1	8	89
12:00:00	91	1	8	1		10	111	
12:15:00	65	1	8	1		1	8	84
12:30:00	78		3	1	1	2	9	94
12:45:00	61	1	8			1	5	76
13:00:00	86		10	1		1	6	104
13:15:00	71	1	5			6	83	
13:30:00	81	1	7			9	98	
13:45:00	70	1	4			1	7	83
14:00:00	82		11	1		4	1	99
14:15:00	81		13		1	6	101	
14:30:00	100	1	8			1	7	117
14:45:00	86	1	8	1		2	5	103
15:00:00	97		7			2	106	
15:15:00	81	1	2	1		3	88	
15:30:00	135	1	11		1	5	153	
15:45:00	127	2	8	1		1	6	145
16:00:00	105		9			5	1	120
16:15:00	115		11	1	1	1	3	132
16:30:00	163	2	10	1		1	3	180
16:45:00	96		4	1		8	109	
17:00:00	98		4			1	3	106
17:15:00	116		5		1	4	126	

05:30:00	0.60	0.43
05:45:00	1.00	0.71
06:00:00	1.00	0.71
06:15:00	3.60	2.57
06:30:00	2.20	1.71
06:45:00	3.60	2.71
07:00:00	6.20	4.57
07:15:00	6.00	4.71
07:30:00	9.40	7.43
07:45:00	17.40	13.14
08:00:00	20.20	15.86
08:15:00	29.20	22.29
08:30:00	24.60	19.00
08:45:00	24.80	20.00
09:00:00	24.00	19.14
09:15:00	17.80	14.29
09:30:00	13.60	12.71
09:45:00	9.60	9.00
10:00:00	10.00	8.57
10:15:00	10.60	10.29
10:30:00	14.60	15.71
10:45:00	11.20	11.00
11:00:00	12.00	11.86
11:15:00	14.20	13.00
11:30:00	15.00	14.14
11:45:00	13.20	12.71
12:00:00	15.00	15.86
12:15:00	13.00	12.00
12:30:00	13.80	13.43
12:45:00	10.40	10.86
13:00:00	16.80	14.86
13:15:00	13.40	11.86
13:30:00	13.80	14.00
13:45:00	11.20	11.86
14:00:00	13.80	14.14
14:15:00	15.20	14.43
14:30:00	18.20	16.71
14:45:00	16.20	14.71
15:00:00	17.00	15.14
15:15:00	13.40	12.57
15:30:00	25.80	21.86
15:45:00	25.20	20.71
16:00:00	19.60	17.14
16:15:00	20.40	18.86
16:30:00	31.00	25.71
16:45:00	18.00	15.57
17:00:00	18.20	15.14
17:15:00	21.00	18.00
17:30:00	21.40	17.43

17:30:00	104		12	1	1		4		122					
17:45:00	79		2	1	1		5		88					
18:00:00	83		2	3		1	2		91					
18:15:00	53		1	4			5		63					
18:30:00	55			3			2		60					
18:45:00	54		1	3			2		60					
19:00:00	37			1				1	39					
19:15:00	29			2					31					
19:30:00	31				1				32					
19:45:00	39			1			1		41					
20:00:00	40		1	3			2		46					
20:15:00	37			1		1			39					
20:30:00	29			1					30					
20:45:00	32			5					37					
21:00:00	16								16					
21:15:00	24			2			1		27					
21:30:00	26			2			1		29					
21:45:00	34		1	3			2		40					
22:00:00	26			2	1		4		33					
22:15:00	24								24					
22:30:00	27								27					
22:45:00	21			4					25					
23:00:00	22			4					26					
23:15:00	15			2					17					
23:30:00	17			2			1		20					
23:45:00	10								10					
<b>Grand Total</b>	<b>4720</b>		<b>34</b>	<b>380</b>	<b>21</b>	<b>13</b>	<b>9</b>	<b>1</b>	<b>2</b>	<b>27</b>	<b>##</b>	<b>2</b>	<b>1</b>	<b>5451</b>

17:45:00	15.60	12.57
18:00:00	16.80	13.00
18:15:00	11.00	9.00
18:30:00	11.00	8.57
18:45:00	9.40	8.57
19:00:00	6.00	5.57
19:15:00	4.60	4.43
19:30:00	3.40	4.57
19:45:00	6.80	5.86
20:00:00	6.00	6.57
20:15:00	5.20	5.57
20:30:00	2.80	4.29
20:45:00	3.40	5.29
21:00:00	2.00	2.29
21:15:00	3.20	3.86
21:30:00	3.20	4.14
21:45:00	4.40	5.71
22:00:00	4.20	4.71
22:15:00	2.80	3.43
22:30:00	2.20	3.86
22:45:00	2.80	3.57
23:00:00	3.40	3.71
23:15:00	2.60	2.43
23:30:00	3.20	2.86
23:45:00	1.00	1.43
<b>Grand Total</b>	<b>865.60</b>	<b>778.71</b>

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	1414	39.52	47.10	51.60	5	0.35%	1	0.07%	1	0.07%
Tuesday	716	39.86	47.78	51.55	4	0.56%	0	0.00%	0	0.00%
Wednesday	711	39.31	46.50	51.05	4	0.56%	0	0.00%	0	0.00%
Thursday	743	39.94	47.90	53.50	6	0.81%	0	0.00%	0	0.00%
Friday	744	40.22	47.50	52.09	5	0.67%	2	0.27%	0	0.00%
Saturday	626	39.13	48.03	52.70	8	1.28%	3	0.48%	0	0.00%
Sunday	497	37.88	46.36	51.40	3	0.60%	0	0.00%	0	0.00%
5day	4328	39.73	47.40	51.97	24	0.55%	3	0.07%	1	0.02%
7day	5451	39.49	47.30	52.00	35	0.64%	6	0.11%	1	0.02%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 17



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

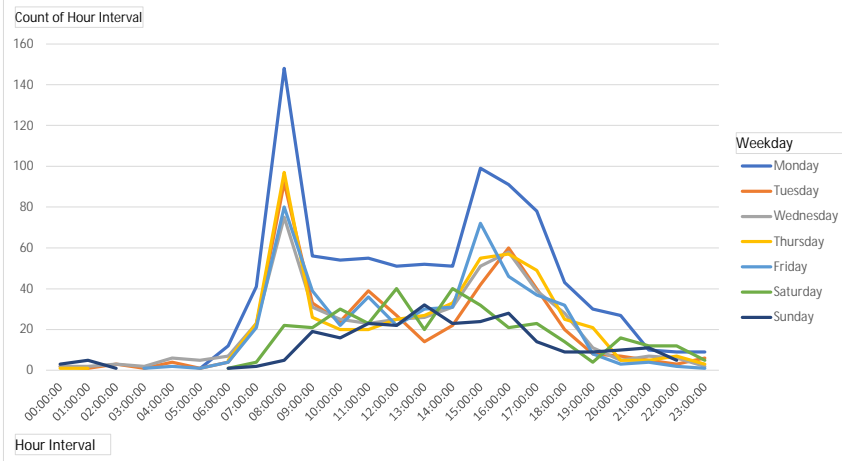
Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
11
14
15

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
3502	1.17%	0.11%	0.03%

Count of	Compass direction	Column Labels	
Row Labels	N	S	Grand Total
11 October 2021	1445	1629	3074
18 October 2021	186	242	428
Grand Total	1631	1871	3502



Count of	Compass direction	Column Labels	
Row Labels	N	S	
Monday	417	504	
Tuesday	224	256	
Wednesday	232	261	
Thursday	235	273	
Friday	239	257	
Saturday	160	181	
Sunday	124	139	
Grand Total	1631	1871	

Average of Speed	Column Labels	
Row Labels	N	S
Monday	41.25	41.16
Tuesday	42.50	40.29
Wednesday	40.91	40.40
Thursday	41.14	41.28
Friday	41.50	41.77
Saturday	40.57	39.41
Sunday	36.73	38.72
Grand Total	40.98	40.69

% Over PSL	% Over ACPO	% Over DFT
1.17%	0.11%	0.03%

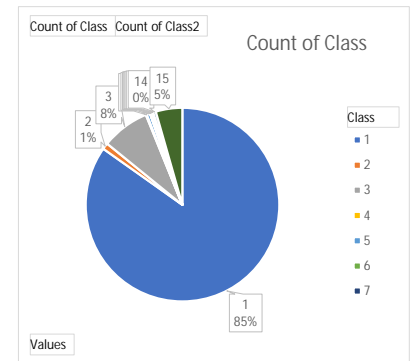
vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)



Row Labels	Count of Class	Count of Class2
1	2970	84.81%
2	37	1.06%
3	280	8.00%
4	6	0.17%
5	18	0.51%
6	1	0.03%
7	8	0.23%
8	2	0.06%
9	7	0.20%
11	2	0.06%
14	15	0.43%
15	156	4.45%
Grand Total	3502	100.00%



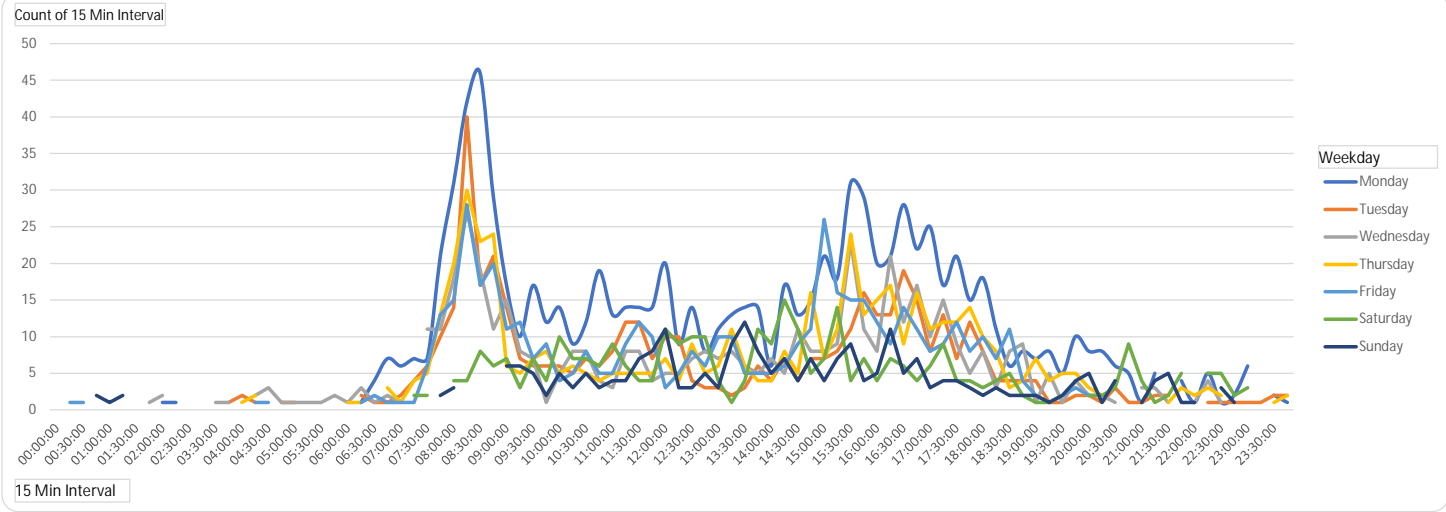


Week Commencing
11 October 2021
18 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
11

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
00:00:00		1		1				2
00:15:00	1		2		1		1	5
00:30:00		1						2
00:45:00							2	2
01:00:00			1				1	2
01:15:00							2	2
01:30:00		1		1				2
01:45:00			1				2	3
02:00:00	1	2	2					5
02:15:00	1							1
02:30:00		1	1			1	1	4
02:45:00	1							1
03:30:00			1		1			2
03:45:00		1	1					2
04:00:00		2		1				3
04:15:00		1	2	2	1			6
04:30:00			3		1		1	5
04:45:00		1	1					2
05:00:00		1	1					2
05:15:00			1		1			2
05:30:00	1		1					2
05:45:00			2					2
06:00:00			1	1				2
06:15:00	1	2	3	1	1			8

Row Labels	07-19	06-22	06-00	00-00
Monday	819	898	916	921
Tuesday	435	459	468	480
Wednesday	435	465	473	493
Thursday	457	493	503	508
Friday	468	487	490	496
Saturday	290	323	340	341
Sunday	217	248	253	263
<b>Grand Total</b>	<b>3121</b>	<b>3373</b>	<b>3443</b>	<b>3502</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	0.40	0.29
00:15:00	0.80	0.71
00:30:00	0.40	0.29
00:45:00	0.00	0.29
01:00:00	0.20	0.29
01:15:00	0.00	0.29
01:30:00	0.40	0.29
01:45:00	0.20	0.43
02:00:00	1.00	0.71
02:15:00	0.20	0.14
02:30:00	0.40	0.57
02:45:00	0.20	0.14
03:30:00	0.40	0.29
03:45:00	0.40	0.29
04:00:00	0.60	0.43
04:15:00	1.20	0.86
04:30:00	0.80	0.71
04:45:00	0.40	0.29
05:00:00	0.40	0.29
05:15:00	0.40	0.29
05:30:00	0.40	0.29
05:45:00	0.40	0.29
06:00:00	0.40	0.29
06:15:00	1.60	1.14
06:30:00	1.60	1.29

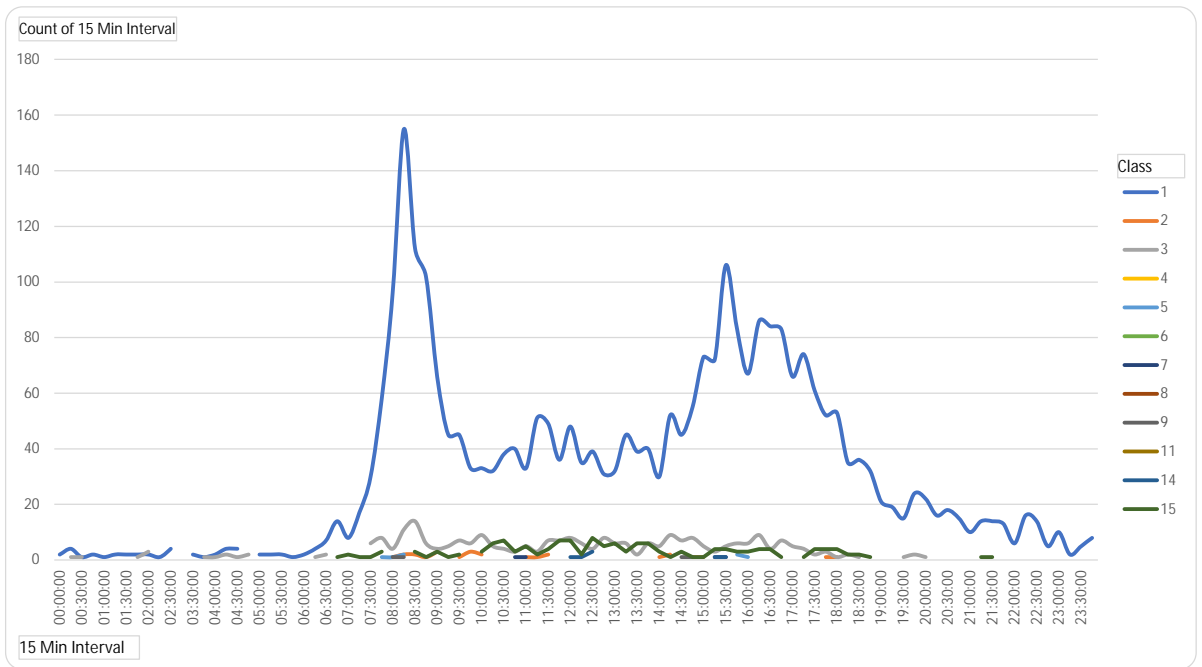
06:30:00	4	1	1		2	1		9
06:45:00	7	1	2	3	1		1	15
07:00:00	6	2	1	1	1			11
07:15:00	7	4		4	1	2		18
07:30:00	7	6	11	5	6	2		37
07:45:00	21	10	11	13	13		2	70
08:00:00	31	14	18	20	15	4	3	105
08:15:00	42	40	27	30	28	4		171
08:30:00	46	17	19	23	17	8	2	132
08:45:00	29	21	11	24	20	6		111
09:00:00	17	14	15	6	11	7	6	76
09:15:00	10	7	8	5	12	3	6	51
09:30:00	17	6	7	7	7	7	5	56
09:45:00	12	6	1	8	9	4	2	42
10:00:00	14	6	5	5	4	10	5	49
10:15:00	9	5	8	6	5	7	3	43
10:30:00	12	7	8	5	8	7	5	52
10:45:00	19	6	4	4	5	6	3	47
11:00:00	13	8	3	5	5	9	4	47
11:15:00	14	12	8	5	9	6	4	58
11:30:00	14	12	8	5	12	4	7	62
11:45:00	14	7	4	5	10	4	8	52
12:00:00	20	10	5	7	3	11	11	67
12:15:00	9	10	5	4	5	9	3	45
12:30:00	14	4	7	9	8	10	3	55
12:45:00	8	3	8	5	6	10	5	45
13:00:00	11	3	7	6	10	4	3	44
13:15:00	13	2	8	11	10	1	9	54
13:30:00	14	3	6	6	5	4	12	50
13:45:00	14	6	5	4	5	11	8	53
14:00:00	6	4	7	4	5	9	5	40
14:15:00	17	7	5	8	6	15	7	65
14:30:00	13	4	11	5	9	11	4	57
14:45:00	15	7	8	16	11	5	7	69
15:00:00	21	7	8	7	26	7	4	80
15:15:00	18	8	9	11	16	14	7	83
15:30:00	31	11	23	24	15	4	9	117
15:45:00	29	16	11	13	15	7	4	95
16:00:00	20	13	8	15	12	4	5	77
16:15:00	21	13	21	17	9	7	11	99
16:30:00	28	19	12	9	14	6	5	93
16:45:00	22	15	17	16	11	4	7	92
17:00:00	25	8	10	11	8	6	3	71
17:15:00	17	13	15	12	9	9	4	79
17:30:00	21	7	9	12	12	4	4	69
17:45:00	15	12	5	14	8	4	3	61
18:00:00	18	8	8	10	10	3	2	59
18:15:00	11	4	3	8	7	4	3	40
18:30:00	6	4	8	3	11	5	2	39
18:45:00	8	4	9	4	4	2	2	33

06:45:00	2.80	2.14
07:00:00	2.20	1.57
07:15:00	3.20	2.57
07:30:00	7.00	5.29
07:45:00	13.60	10.00
08:00:00	19.60	15.00
08:15:00	33.40	24.43
08:30:00	24.40	18.86
08:45:00	21.00	15.86
09:00:00	12.60	10.86
09:15:00	8.40	7.29
09:30:00	8.80	8.00
09:45:00	7.20	6.00
10:00:00	6.80	7.00
10:15:00	6.60	6.14
10:30:00	8.00	7.43
10:45:00	7.60	6.71
11:00:00	6.80	6.71
11:15:00	9.60	8.29
11:30:00	10.20	8.86
11:45:00	8.00	7.43
12:00:00	9.00	9.57
12:15:00	6.60	6.43
12:30:00	8.40	7.86
12:45:00	6.00	6.43
13:00:00	7.40	6.29
13:15:00	8.80	7.71
13:30:00	6.80	7.14
13:45:00	6.80	7.57
14:00:00	5.20	5.71
14:15:00	8.60	9.29
14:30:00	8.40	8.14
14:45:00	11.40	9.86
15:00:00	13.80	11.43
15:15:00	12.40	11.86
15:30:00	20.80	16.71
15:45:00	16.80	13.57
16:00:00	13.60	11.00
16:15:00	16.20	14.14
16:30:00	16.40	13.29
16:45:00	16.20	13.14
17:00:00	12.40	10.14
17:15:00	13.20	11.29
17:30:00	12.20	9.86
17:45:00	10.80	8.71
18:00:00	10.80	8.43
18:15:00	6.60	5.71
18:30:00	6.40	5.57
18:45:00	5.80	4.71
19:00:00	4.20	3.43

19:00:00	7	4	1	7	2	1	2	24
19:15:00	8	1	5	4	1	1	1	21
19:30:00	5	1	1	5	2	2	2	18
19:45:00	10	2	4	5	3		4	28
20:00:00	8	2	2	3	2	2	5	24
20:15:00	8	1	2	2		2	1	16
20:30:00	6	3	1		1	3	4	18
20:45:00	5	1				9		15
21:00:00	1	1	3	1		4	1	11
21:15:00	5	2	3			1	4	15
21:30:00		2	1	1	4	2	5	15
21:45:00	4			3		5	1	13
22:00:00	1		1	2	1		1	6
22:15:00	5	1	4	3		5		18
22:30:00	1	1	1	2	1	5	3	14
22:45:00	2	1				2	1	6
23:00:00	6	1				3		10
23:15:00		1	1					2
23:30:00	2	2		1	1			6
23:45:00	1	2	1	2		2		8
Grand Total	921	480	493	508	496	341	263	3502

19:15:00	3.80	3.00
19:30:00	2.80	2.57
19:45:00	4.80	4.00
20:00:00	3.40	3.43
20:15:00	2.60	2.29
20:30:00	2.20	2.57
20:45:00	1.20	2.14
21:00:00	1.20	1.57
21:15:00	2.00	2.14
21:30:00	1.60	2.14
21:45:00	1.40	1.86
22:00:00	1.00	0.86
22:15:00	2.60	2.57
22:30:00	1.20	2.00
22:45:00	0.60	0.86
23:00:00	1.40	1.43
23:15:00	0.40	0.29
23:30:00	1.20	0.86
23:45:00	1.20	1.14
Grand Total	579.60	500.29

Class	Axis	Access	Description	Parameters	Diagram/Photo	Accessories
11	017	0	1000 0	001+0.0m, 002+0.2m & access		Light
0	017	0	1000 0	001+0.0m, 002+0.2m, 003+0.2m & access		Light
6	083	0	1000 0	001+0.0m & access		Accessories
4	083	0	1000 0	access & group1		Accessories
3	14	0	1000 0	access & group2		Accessories
0	070	0	1000 0	001+0.0m, access & group1		Accessories
7	070	0	1000 0	001+0.0m or 002+0.2m or 003+0.2m & access		Accessories
8	070	0	1000 0	001+0.0m or 002+0.2m or 003+0.2m & access & B & group1		Accessories
9	070	0	1000 0	001+0.0m or 002+0.2m or 003+0.2m & access & B & group2		Accessories
10	070	0	1000 0	001+0.0m or 002+0.2m or 003+0.2m & access & B & group3		Accessories
12	083	0	1000 0	access & access		Accessories
13	083	0	1000 0	access & access		Accessories
15	083	0	1000 0	access & access		Accessories
16	083	0	1000 0	access & access		Accessories
17	083	0	1000 0	access & access		Accessories
18	083	0	1000 0	access & access		Accessories
19	083	0	1000 0	access & access		Accessories
20	083	0	1000 0	access & access		Accessories
21	083	0	1000 0	access & access		Accessories
22	083	0	1000 0	access & access		Accessories
23	083	0	1000 0	access & access		Accessories
24	083	0	1000 0	access & access		Accessories
25	083	0	1000 0	access & access		Accessories



Week Commencing

11 October 2021

18 October 2021

Compass direction

N

S

Class

1

2

3

4

5

Weekday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	11	14	15	Grand Total
00:00:00	Row Labels	2												2
00:15:00	Row Labels	4		1										5
00:30:00	Row Labels	1		1										2
00:45:00	Row Labels	2												2
01:00:00	Row Labels	1		1										2
01:15:00	Row Labels	2												2
01:30:00	Row Labels	2												2
01:45:00	Row Labels	2		1										3
02:00:00	Row Labels	2		3										5
02:15:00	Row Labels	1												1
02:30:00	Row Labels	4												4
02:45:00	Row Labels			1										1
03:30:00	Row Labels	2												2
03:45:00	Row Labels	1		1										2
04:00:00	Row Labels	2		1										3
04:15:00	Row Labels	4		2										6
04:30:00	Row Labels	4		1										5
04:45:00	Row Labels			2										2

Row Labels	07-19	06-22	06-00	00-00
Monday	819	898	916	921
Tuesday	435	459	468	480
Wednesday	435	465	473	493
Thursday	457	493	503	508
Friday	468	487	490	496
Saturday	290	323	340	341
Sunday	217	248	253	263
Grand Total	3121	3373	3443	3502

Row Labels	Average 5 Days	of Average 7 Days
00:00:00	0.40	0.29
00:15:00	0.80	0.71
00:30:00	0.40	0.29
00:45:00	0.00	0.29
01:00:00	0.20	0.29
01:15:00	0.00	0.29
01:30:00	0.40	0.29
01:45:00	0.20	0.43
02:00:00	1.00	0.71
02:15:00	0.20	0.14
02:30:00	0.40	0.57
02:45:00	0.20	0.14
03:30:00	0.40	0.29
03:45:00	0.40	0.29
04:00:00	0.60	0.43
04:15:00	1.20	0.86
04:30:00	0.80	0.71
04:45:00	0.40	0.29
05:00:00	0.40	0.29

05:00:00	2									2
05:15:00	2									2
05:30:00	2									2
05:45:00	1		1							2
06:00:00	2									2
06:15:00	4		1					3		8
06:30:00	7		2							9
06:45:00	14							1		15
07:00:00	8		1					2		11
07:15:00	17							1		18
07:30:00	30		6					1		37
07:45:00	58		8	1				3		70
08:00:00	96	1	4	1	1	1	1			105
08:15:00	155	2	11	2			1			171
08:30:00	112	2	14					1	3	132
08:45:00	102	1	6	1					1	111
09:00:00	66	3	4						3	76
09:15:00	45		5						1	51
09:30:00	45	1	7				1		2	56
09:45:00	33	3	6							42
10:00:00	33	2	9	1				1	3	49
10:15:00	32		5						6	43
10:30:00	38	1	4	1			1		7	52
10:45:00	40		3			1			3	47
11:00:00	33	1	5			1		2	5	47
11:15:00	51	1	3				1		2	58
11:30:00	49	2	7						4	62
11:45:00	36		7		1	1			7	52
12:00:00	48	3	8					1	7	67
12:15:00	35		6				1	1	2	45
12:30:00	39		4			1		3	8	55
12:45:00	31		8		1				5	45
13:00:00	32		6						6	44
13:15:00	45		6						3	54
13:30:00	39	1	2		2				6	50
13:45:00	40		6	1					6	53
14:00:00	30	1	5					1	3	40
14:15:00	52	2	9			1			1	65
14:30:00	45		7	1			1		3	57
14:45:00	55	1	8		1		1	2	1	69
15:00:00	73	1	5						1	80
15:15:00	72		3	1	1	1		1	4	83
15:30:00	106		5			1		1	4	117
15:45:00	83	1	6		2				3	95
16:00:00	67		6		1				3	77
16:15:00	86		9						4	99
16:30:00	84		4			1			4	93
16:45:00	83		7		1				1	92
17:00:00	66		5							71

05:15:00	0.40	0.29
05:30:00	0.40	0.29
05:45:00	0.40	0.29
06:00:00	0.40	0.29
06:15:00	1.60	1.14
06:30:00	1.60	1.29
06:45:00	2.80	2.14
07:00:00	2.20	1.57
07:15:00	3.20	2.57
07:30:00	7.00	5.29
07:45:00	13.60	10.00
08:00:00	19.60	15.00
08:15:00	33.40	24.43
08:30:00	24.40	18.86
08:45:00	21.00	15.86
09:00:00	12.60	10.86
09:15:00	8.40	7.29
09:30:00	8.80	8.00
09:45:00	7.20	6.00
10:00:00	6.80	7.00
10:15:00	6.60	6.14
10:30:00	8.00	7.43
10:45:00	7.60	6.71
11:00:00	6.80	6.71
11:15:00	9.60	8.29
11:30:00	10.20	8.86
11:45:00	8.00	7.43
12:00:00	9.00	9.57
12:15:00	6.60	6.43
12:30:00	8.40	7.86
12:45:00	6.00	6.43
13:00:00	7.40	6.29
13:15:00	8.80	7.71
13:30:00	6.80	7.14
13:45:00	6.80	7.57
14:00:00	5.20	5.71
14:15:00	8.60	9.29
14:30:00	8.40	8.14
14:45:00	11.40	9.86
15:00:00	13.80	11.43
15:15:00	12.40	11.86
15:30:00	20.80	16.71
15:45:00	16.80	13.57
16:00:00	13.60	11.00
16:15:00	16.20	14.14
16:30:00	16.40	13.29
16:45:00	16.20	13.14
17:00:00	12.40	10.14
17:15:00	13.20	11.29

17:15:00	74		4							1		79	
17:30:00	61		2	2						4		69	
17:45:00	52	1	3		1					4		61	
18:00:00	53	1	1							4		59	
18:15:00	35		2		1					2		40	
18:30:00	36		1							2		39	
18:45:00	32									1		33	
19:00:00	21	1	1				1					24	
19:15:00	19									2		21	
19:30:00	15	1	1				1					18	
19:45:00	24		2						1	1		28	
20:00:00	22	1	1									24	
20:15:00	16											16	
20:30:00	18											18	
20:45:00	15											15	
21:00:00	10		1									11	
21:15:00	14									1		15	
21:30:00	14									1		15	
21:45:00	13											13	
22:00:00	6											6	
22:15:00	16	1	1									18	
22:30:00	14											14	
22:45:00	5		1									6	
23:00:00	10											10	
23:15:00	2											2	
23:30:00	5		1									6	
23:45:00	8											8	
<b>Grand Total</b>	<b>2970</b>	<b>37</b>	<b>280</b>	<b>6</b>	<b>18</b>	<b>1</b>	<b>8</b>	<b>2</b>	<b>7</b>	<b>2</b>	<b>15</b>	<b>156</b>	<b>3502</b>

17:30:00	12.20	9.86
17:45:00	10.80	8.71
18:00:00	10.80	8.43
18:15:00	6.60	5.71
18:30:00	6.40	5.57
18:45:00	5.80	4.71
19:00:00	4.20	3.43
19:15:00	3.80	3.00
19:30:00	2.80	2.57
19:45:00	4.80	4.00
20:00:00	3.40	3.43
20:15:00	2.60	2.29
20:30:00	2.20	2.57
20:45:00	1.20	2.14
21:00:00	1.20	1.57
21:15:00	2.00	2.14
21:30:00	1.60	2.14
21:45:00	1.40	1.86
22:00:00	1.00	0.86
22:15:00	2.60	2.57
22:30:00	1.20	2.00
22:45:00	0.60	0.86
23:00:00	1.40	1.43
23:15:00	0.40	0.29
23:30:00	1.20	0.86
23:45:00	1.20	1.14
<b>Grand Total</b>	<b>579.60</b>	<b>500.29</b>

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	921	41.20	49.50	54.00	10	1.09%	2	0.22%	1	0.11%
Tuesday	480	41.32	50.32	54.41	3	0.63%	0	0.00%	0	0.00%
Wednesday	493	40.64	49.50	53.44	4	0.81%	0	0.00%	0	0.00%
Thursday	508	41.22	49.50	52.60	5	0.98%	0	0.00%	0	0.00%
Friday	496	41.64	50.10	54.43	7	1.41%	0	0.00%	0	0.00%
Saturday	341	39.96	49.70	56.60	10	2.93%	2	0.59%	0	0.00%
Sunday	263	37.78	47.60	52.19	2	0.76%	0	0.00%	0	0.00%
5day	2898	41.20	49.80	54.00	29	1.00%	2	0.07%	1	0.03%
7day	3502	40.82	49.69	54.00	41	1.17%	4	0.11%	1	0.03%

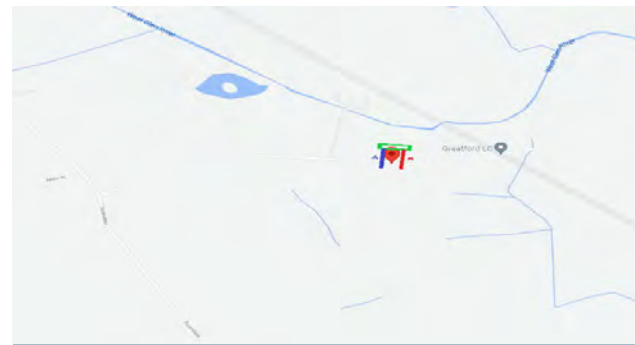
# Traffic Analysis Report

Contract:

Report Date:

Author:

Location:



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)



Week Commencing
18 October 2021
11 October 2021

Compass direction
E
W

Class
1
2
3
4
5
7
8
9
10
14
15

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
3759	0.32%	0.00%	0.00%

Count of	Compass direction	Column Labels	
Row Labels	W	E	Grand Total
11 October 2021	1628	1673	3301
18 October 2021	221	237	458
Grand Total	1849	1910	3759

Count of	Compass direction	Column Labels	
Row Labels	W	E	
Monday	462	476	
Tuesday	255	242	
Wednesday	252	238	
Thursday	269	255	
Friday	271	252	
Saturday	187	243	
Sunday	153	204	
Grand Total	1849	1910	

Row Labels	Count of Class	Count of Class2
1	3190	84.86%
2	25	0.67%
3	344	9.15%
4	9	0.24%
5	18	0.48%
7	3	0.08%
8	1	0.03%
9	9	0.24%
14	7	0.19%
15	152	4.04%
10	1	0.03%
Grand Total	3759	100.00%

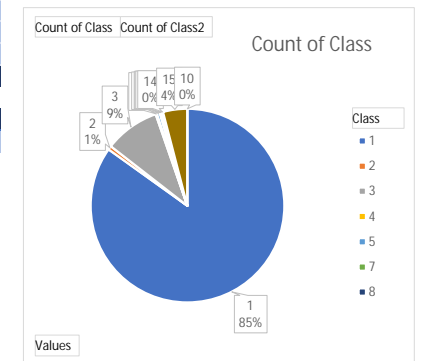
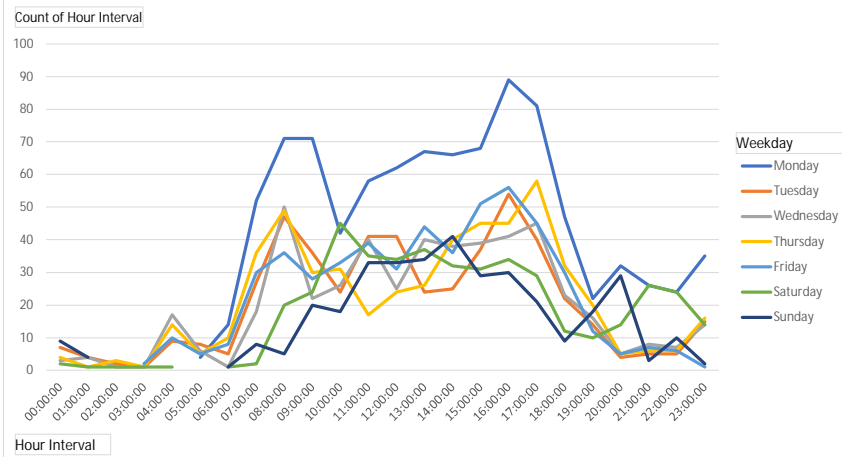
Average of Speed	Column Labels	
Row Labels	W	E
Monday	36.74	39.71
Tuesday	36.46	39.06
Wednesday	35.60	39.13
Thursday	37.02	40.01
Friday	36.92	40.29
Saturday	35.71	38.53
Sunday	35.48	37.95
Grand Total	36.40	39.33

% Over PSL	% Over ACPO	% Over DFT
0.32%	0.00%	0.00%

vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)

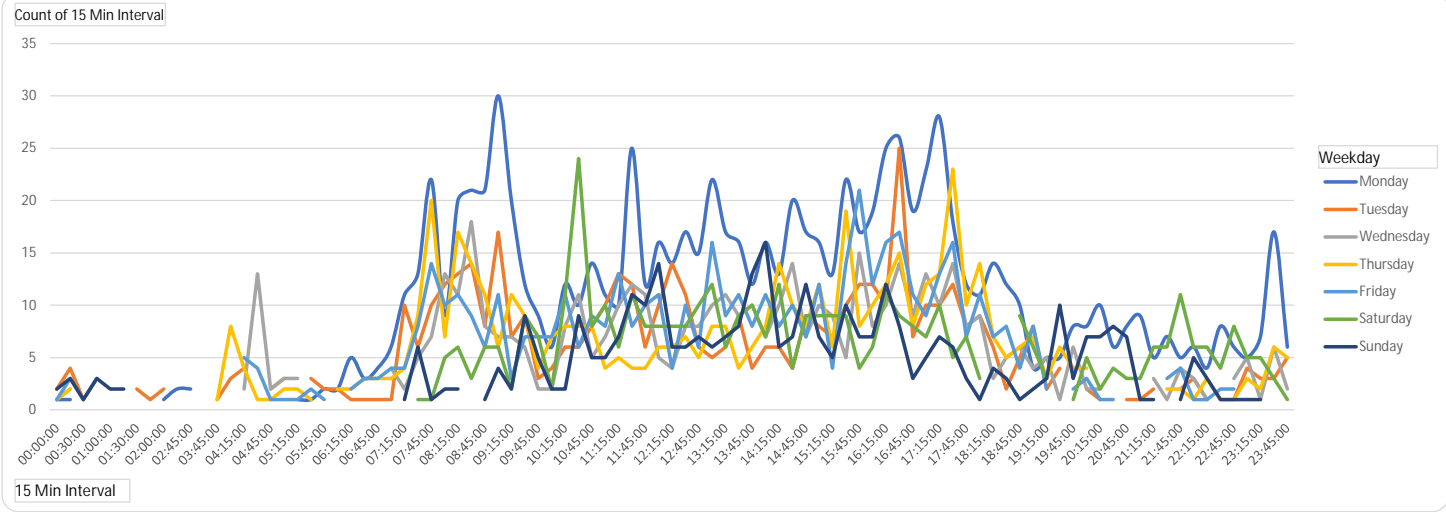


Week Commencing
11 October 2021
18 October 2021

Compass direction
E
W

Class
1
2
3
4
5
7
8
9
10
14

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
00:00:00	1	2	1	1	1	2	2	10
00:15:00	1	4	2	2	3		3	15
00:30:00		1			1		1	3
00:45:00				1	3		3	7
01:00:00		1	1				2	4
01:15:00						1	2	3
01:30:00		2		1				3
01:45:00		1	3					4
02:00:00	1	2				1		4
02:30:00	2		1					3
02:45:00	2			3				5
03:30:00					2	1		3
03:45:00		1	1	1				3
04:00:00		3		8				11
04:15:00		4	2	4	5			15
04:30:00			13	1	4			18
04:45:00		2	2	1	1	1		7
05:00:00		3	3	2	1			9
05:15:00	1		3	2	1			7
05:30:00	1	3		1	2			7
05:45:00	2	2			1			5
06:00:00	2	2		2				6
06:15:00	5	1		2	2			10
06:30:00	3	1	1	3	3	1		12

Row Labels	07-19	06-22	06-00	00-00
Monday	774	868	927	938
Tuesday	418	446	466	497
Wednesday	407	437	458	490
Thursday	433	474	496	524
Friday	459	491	498	523
Saturday	335	386	424	430
Sunday	281	332	344	357
<b>Grand Total</b>	<b>3107</b>	<b>3434</b>	<b>3613</b>	<b>3759</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	1.20	1.43
00:15:00	2.40	2.14
00:30:00	0.40	0.43
00:45:00	0.80	1.00
01:00:00	0.40	0.57
01:15:00	0.00	0.43
01:30:00	0.60	0.43
01:45:00	0.80	0.57
02:00:00	0.60	0.57
02:30:00	0.60	0.43
02:45:00	1.00	0.71
03:30:00	0.40	0.43
03:45:00	0.60	0.43
04:00:00	2.20	1.57
04:15:00	3.00	2.14
04:30:00	3.60	2.57
04:45:00	1.20	1.00
05:00:00	1.80	1.29
05:15:00	1.40	1.00
05:30:00	1.40	1.00
05:45:00	1.00	0.71
06:00:00	1.20	0.86
06:15:00	2.00	1.43
06:30:00	2.20	1.71
06:45:00	2.20	1.71

06:45:00	4	1		3	3		1	12
07:00:00	6	1	4	3	4			18
07:15:00	11	10	2	4	4		1	32
07:30:00	13	6	5	9	8	1	6	48
07:45:00	22	10	7	20	14	1	1	75
08:00:00	9	12	13	7	10	5	2	58
08:15:00	20	13	11	17	11	6	2	80
08:30:00	21	14	18	14	9	3		79
08:45:00	21	8	8	11	6	6	1	61
09:00:00	30	17	7	6	11	6	4	81
09:15:00	20	7	7	11	3	2	2	52
09:30:00	12	9	6	9	7	9	9	61
09:45:00	9	3	2	4	7	7	5	37
10:00:00	6	4	2	7	7	2	2	30
10:15:00	12	6	8	8	11	11	2	58
10:30:00	10	6	11	8	6	24	9	74
10:45:00	14	8	5	8	9	8	5	57
11:00:00	11	10	7	4	8	10	5	55
11:15:00	10	13	10	5	13	6	7	64
11:30:00	25	12	12	4	8	11	11	83
11:45:00	12	6	11	4	10	8	10	61
12:00:00	16	10	5	6	11	8	14	70
12:15:00	14	14	4	6	4	8	6	56
12:30:00	17	11	8	7	10	8	6	67
12:45:00	15	6	8	5	6	10	7	57
13:00:00	22	5	10	8	16	12	6	79
13:15:00	17	6	11	8	9	6	7	64
13:30:00	16	9	9	4	11	9	8	66
13:45:00	12	4	10	6	8	10	13	63
14:00:00	16	6	7	8	11	7	16	71
14:15:00	13	6	10	14	8	12	6	69
14:30:00	20	4	14	10	10	4	7	69
14:45:00	17	9	7	8	7	9	12	69
15:00:00	16	8	10	12	12	9	7	74
15:15:00	13	7	9	6	4	9	5	53
15:30:00	22	10	5	19	14	9	10	89
15:45:00	17	12	15	8	21	4	7	84
16:00:00	19	12	8	10	12	6	7	74
16:15:00	25	10	10	12	16	11	12	96
16:30:00	26	25	14	15	17	9	8	114
16:45:00	19	7	9	8	11	8	3	65
17:00:00	23	10	13	12	9	7	5	79
17:15:00	28	10	10	13	13	10	7	91
17:30:00	18	12	14	23	16	5	6	94
17:45:00	12	8	8	10	7	7	3	55
18:00:00	11	9	9	14	11	3	1	58
18:15:00	14	6	3	7	7		4	41
18:30:00	12	2	5	5	8		3	35
18:45:00	10	5	6	6	4	9	1	41
19:00:00	4	8	4	7	8	6	2	39

07:00:00	3.60	2.57
07:15:00	6.20	4.57
07:30:00	8.20	6.86
07:45:00	14.60	10.71
08:00:00	10.20	8.29
08:15:00	14.40	11.43
08:30:00	15.20	11.29
08:45:00	10.80	8.71
09:00:00	14.20	11.57
09:15:00	9.60	7.43
09:30:00	8.60	8.71
09:45:00	5.00	5.29
10:00:00	5.20	4.29
10:15:00	9.00	8.29
10:30:00	8.20	10.57
10:45:00	8.80	8.14
11:00:00	8.00	7.86
11:15:00	10.20	9.14
11:30:00	12.20	11.86
11:45:00	8.60	8.71
12:00:00	9.60	10.00
12:15:00	8.40	8.00
12:30:00	10.60	9.57
12:45:00	8.00	8.14
13:00:00	12.20	11.29
13:15:00	10.20	9.14
13:30:00	9.80	9.43
13:45:00	8.00	9.00
14:00:00	9.60	10.14
14:15:00	10.20	9.86
14:30:00	11.60	9.86
14:45:00	9.60	9.86
15:00:00	11.60	10.57
15:15:00	7.80	7.57
15:30:00	14.00	12.71
15:45:00	14.60	12.00
16:00:00	12.20	10.57
16:15:00	14.60	13.71
16:30:00	19.40	16.29
16:45:00	10.80	9.29
17:00:00	13.40	11.29
17:15:00	14.80	13.00
17:30:00	16.60	13.43
17:45:00	9.00	7.86
18:00:00	10.80	8.29
18:15:00	7.40	5.86
18:30:00	6.40	5.00
18:45:00	6.20	5.86
19:00:00	6.20	5.57
19:15:00	3.40	3.29

19:15:00	5	2	5	3	2	3	3	23
19:30:00	5	4	1	6			10	26
19:45:00	8		6	4	2	1	3	24
20:00:00	8	2	2	4	3	5	7	31
20:15:00	10	1	2		1	2	7	23
20:30:00	6			1	1	4	8	20
20:45:00	8	1	1			3	7	20
21:00:00	9	1		2		3	1	16
21:15:00	5	2	3			6	1	17
21:30:00	7		1	2	3	6		19
21:45:00	5	2	4	2	4	11	1	29
22:00:00	6	3	3	1	1	6	5	25
22:15:00	4	1	1	3	1	6	3	19
22:30:00	8			1	2	4	1	16
22:45:00	6	1	3	1	2	8	1	22
23:00:00	5	4	5	3		5	1	23
23:15:00	7	3	1	2	1	5	1	20
23:30:00	17	3	6	6		3		35
23:45:00	6	5	2	5		1		19
Grand Total	938	497	490	524	523	430	357	3759

19:30:00	3.20	3.71
19:45:00	4.00	3.43
20:00:00	3.80	4.43
20:15:00	2.80	3.29
20:30:00	1.60	2.86
20:45:00	2.00	2.86
21:00:00	2.40	2.29
21:15:00	2.00	2.43
21:30:00	2.60	2.71
21:45:00	3.40	4.14
22:00:00	2.80	3.57
22:15:00	2.00	2.71
22:30:00	2.20	2.29
22:45:00	2.60	3.14
23:00:00	3.40	3.29
23:15:00	2.80	2.86
23:30:00	6.40	5.00
23:45:00	3.60	2.71
Grand Total	594.40	537.00

Class	Axis	Reason	Description	Parameters	Dimension Details	Attributes
1	017	3	Short - Car sign (W)	011+017, 012+017, 013+017	017	Light
2	017	3	Short Towing - Trailer - Car sign (W)	011+017, 012+017, 013+017, 014+017, 015+017, 016+017, 017+017	017	Light
3	017	3	Long sign (W)	011+017	017	Light
4	017	3	Three side track on (W)	011+017	017	Light
5	017	3	Four side track	011+017	017	Light
6	017	3	Three side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
7	017	3	Four side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
8	017	3	Five side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
9	017	3	Six side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
10	017	3	Seven side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
11	017	3	Eight side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
12	017	3	Nine side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
13	017	3	Ten side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
14	017	3	Eleven side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
15	017	3	Twelve side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
16	017	3	Thirteen side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
17	017	3	Fourteen side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
18	017	3	Fifteen side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
19	017	3	Sixteen side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
20	017	3	Seventeen side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
21	017	3	Eighteen side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
22	017	3	Nineteen side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
23	017	3	Twenty side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
24	017	3	Twenty one side articulated vehicle or rigid vehicle and trailer	011+017	017	Light
25	017	3	Twenty two side articulated vehicle or rigid vehicle and trailer	011+017	017	Light

**Week Commencing**

11 October 2021

18 October 2021

**Class**

1

2

3

4

5

**Compass direction**

E

W

**Weekday**

Monday

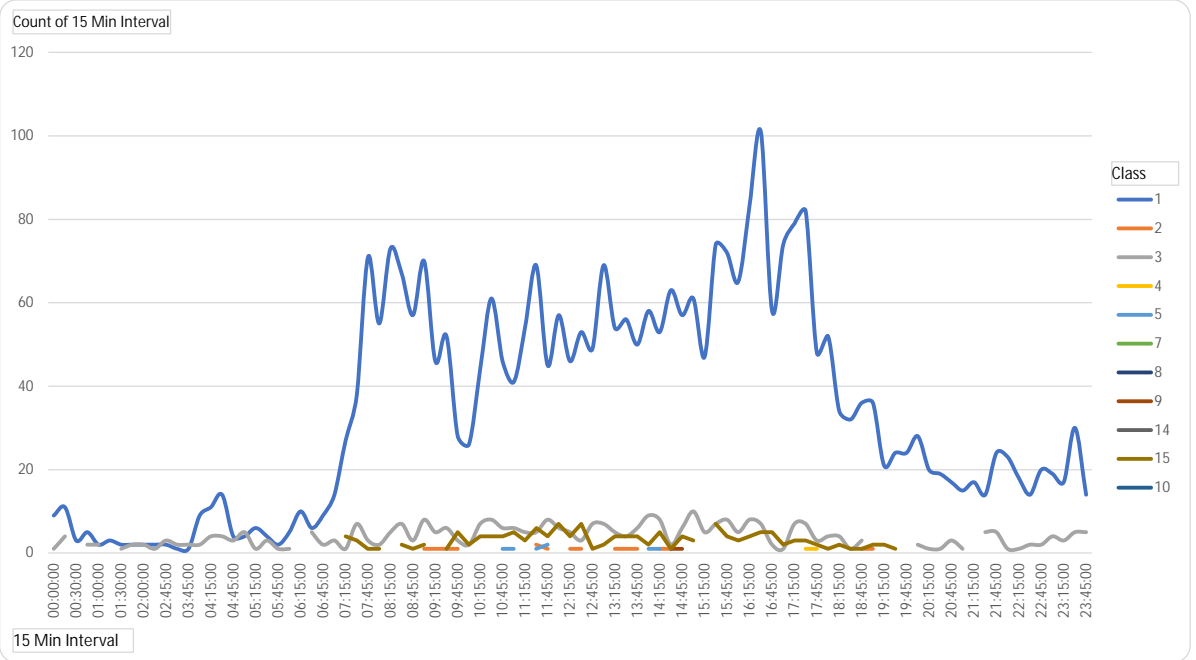
Tuesday

Wednesday

Thursday

Friday

Saturday



Count of 15 Min Interval	Column Labels	1	2	3	4	5	7	8	9	14	15	10	ind T
00:00:00	Row Labels												
00:00:00		9		1									10
00:15:00		11		4									15
00:30:00		3											3
00:45:00		5		2									7
01:00:00		2		2									4
01:15:00		3											3
01:30:00		2		1									3
01:45:00		2		2									4
02:00:00		2		2									4
02:30:00		2		1									3
02:45:00		2		3									5
03:30:00		1		2									3
03:45:00		1		2									3
04:00:00		9		2									11
04:15:00		11		4									15
04:30:00		14		4									18
04:45:00		4		3									7
05:00:00		4		5									9

Row Labels	07-19	06-22	06-00	00-00
Monday	774	868	927	938
Tuesday	418	446	466	497
Wednesday	407	437	458	490
Thursday	433	474	496	524
Friday	459	491	498	523
Saturday	335	386	424	430
Sunday	281	332	344	357
Grand Total	3107	3434	3613	3759

Row Labels	Average 5 Days	1 of Average 7 D
00:00:00	1.20	1.43
00:15:00	2.40	2.14
00:30:00	0.40	0.43
00:45:00	0.80	1.00
01:00:00	0.40	0.57
01:15:00	0.00	0.43
01:30:00	0.60	0.43
01:45:00	0.80	0.57
02:00:00	0.60	0.57
02:30:00	0.60	0.43
02:45:00	1.00	0.71
03:30:00	0.40	0.43
03:45:00	0.60	0.43
04:00:00	2.20	1.57
04:15:00	3.00	2.14
04:30:00	3.60	2.57
04:45:00	1.20	1.00
05:00:00	1.80	1.29
05:15:00	1.40	1.00

05:15:00	6	1				7
05:30:00	4		3			7
05:45:00	2		1		2	5
06:00:00	5		1			6
06:15:00	10					10
06:30:00	6		5		1	12
06:45:00	9		2			11
07:00:00	14		1	3		18
07:15:00	27		1			28
07:30:00	38		7		3	48
07:45:00	71		3		1	75
08:00:00	55		2		1	58
08:15:00	73		5	1	1	80
08:30:00	67		3	7		77
08:45:00	57			3	1	61
09:00:00	70		1	8	2	81
09:15:00	46		1	5		52
09:30:00	52		1	6	1	60
09:45:00	28		1	3		32
10:00:00	26			2	2	30
10:15:00	44		7	2	1	54
10:30:00	61		8		1	70
10:45:00	46		6	1		53
11:00:00	41		1	6	1	45
11:15:00	54			5	2	61
11:30:00	69		2	5	1	77
11:45:00	45		1	8	1	53
12:00:00	57			6		63
12:15:00	46		1	5		52
12:30:00	53		1	3	3	60
12:45:00	49			7		56
13:00:00	69			7	1	77
13:15:00	54		1	5		60
13:30:00	56		1	4	1	62
13:45:00	50		1	6	1	58
14:00:00	58			9	1	68
14:15:00	53		1	8	1	63
14:30:00	63		1	2	1	67
14:45:00	57			6	1	64
15:00:00	61			10		71
15:15:00	47			5	1	53
15:30:00	74		1	7		82
15:45:00	72			8		80
16:00:00	65			5	1	71
16:15:00	83			8		91
16:30:00	101			7	1	109
16:45:00	58			2		60
17:00:00	74			1	2	77
17:15:00	79		1	7	1	88

05:30:00	1.40	1.00
05:45:00	1.00	0.71
06:00:00	1.20	0.86
06:15:00	2.00	1.43
06:30:00	2.20	1.71
06:45:00	2.20	1.71
07:00:00	3.60	2.57
07:15:00	6.20	4.57
07:30:00	8.20	6.86
07:45:00	14.60	10.71
08:00:00	10.20	8.29
08:15:00	14.40	11.43
08:30:00	15.20	11.29
08:45:00	10.80	8.71
09:00:00	14.20	11.57
09:15:00	9.60	7.43
09:30:00	8.60	8.71
09:45:00	5.00	5.29
10:00:00	5.20	4.29
10:15:00	9.00	8.29
10:30:00	8.20	10.57
10:45:00	8.80	8.14
11:00:00	8.00	7.86
11:15:00	10.20	9.14
11:30:00	12.20	11.86
11:45:00	8.60	8.71
12:00:00	9.60	10.00
12:15:00	8.40	8.00
12:30:00	10.60	9.57
12:45:00	8.00	8.14
13:00:00	12.20	11.29
13:15:00	10.20	9.14
13:30:00	9.80	9.43
13:45:00	8.00	9.00
14:00:00	9.60	10.14
14:15:00	10.20	9.86
14:30:00	11.60	9.86
14:45:00	9.60	9.86
15:00:00	11.60	10.57
15:15:00	7.80	7.57
15:30:00	14.00	12.71
15:45:00	14.60	12.00
16:00:00	12.20	10.57
16:15:00	14.60	13.71
16:30:00	19.40	16.29
16:45:00	10.80	9.29
17:00:00	13.40	11.29
17:15:00	14.80	13.00
17:30:00	16.60	13.43

17:30:00	82		7	1		1	3	94				
17:45:00	48		3	1	1		2	55				
18:00:00	52	1	4				1	58				
18:15:00	34		4		1		2	41				
18:30:00	32		1	1			1	35				
18:45:00	36	1	3				1	41				
19:00:00	36	1					2	39				
19:15:00	21						2	23				
19:30:00	24				1	1		26				
19:45:00	24							24				
20:00:00	28	1	2					31				
20:15:00	20		1		1		1	23				
20:30:00	19		1					20				
20:45:00	17		3					20				
21:00:00	15		1					16				
21:15:00	17							17				
21:30:00	14		5					19				
21:45:00	24		5					29				
22:00:00	23		1	1				25				
22:15:00	18		1					19				
22:30:00	14		2					16				
22:45:00	20		2					22				
23:00:00	19		4					23				
23:15:00	17		3					20				
23:30:00	30		5					35				
23:45:00	14		5					19				
Grand Total	3190	25	344	9	18	3	1	9	7	##	1	###

17:45:00	9.00	7.86
18:00:00	10.80	8.29
18:15:00	7.40	5.86
18:30:00	6.40	5.00
18:45:00	6.20	5.86
19:00:00	6.20	5.57
19:15:00	3.40	3.29
19:30:00	3.20	3.71
19:45:00	4.00	3.43
20:00:00	3.80	4.43
20:15:00	2.80	3.29
20:30:00	1.60	2.86
20:45:00	2.00	2.86
21:00:00	2.40	2.29
21:15:00	2.00	2.43
21:30:00	2.60	2.71
21:45:00	3.40	4.14
22:00:00	2.80	3.57
22:15:00	2.00	2.71
22:30:00	2.20	2.29
22:45:00	2.60	3.14
23:00:00	3.40	3.29
23:15:00	2.80	2.86
23:30:00	6.40	5.00
23:45:00	3.60	2.71
Grand Total	594.40	537.00

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

Class  <--- Clear for All Data

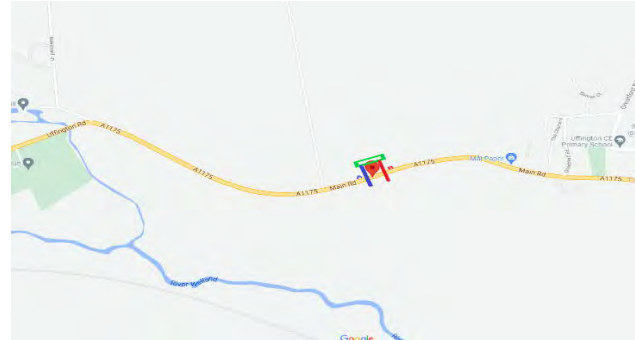
Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	938	38.25	45.45	50.00	1	0.11%	0	0.00%	0	0.00%
Tuesday	497	37.72	46.46	51.02	1	0.20%	0	0.00%	0	0.00%
Wednesday	490	37.31	45.83	50.00	0	0.00%	0	0.00%	0	0.00%
Thursday	524	38.47	47.00	52.67	6	1.15%	0	0.00%	0	0.00%
Friday	523	38.54	46.67	52.50	2	0.38%	0	0.00%	0	0.00%
Saturday	430	37.30	45.87	50.26	2	0.47%	0	0.00%	0	0.00%
Sunday	357	36.89	45.50	49.80	0	0.00%	0	0.00%	0	0.00%
5day	2972	38.10	46.14	51.10	10	0.34%	0	0.00%	0	0.00%
7day	3759	37.89	46.00	51.10	12	0.32%	0	0.00%	0	0.00%



# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 19



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
10
11
14

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
79766	0.12%	0.02%	0.01%

Count of	Compass direction	Column Labels	Grand Total
Row Labels	W	E	
11 October 2021	34478	36032	70510
18 October 2021	4633	4623	9256
Grand Total	39111	40655	79766

Count of	Compass direction	Column Labels
Row Labels	W	E
Monday	9635	10187
Tuesday	5183	5553
Wednesday	5464	5714
Thursday	5393	5735
Friday	5643	5880
Saturday	4527	4388
Sunday	3266	3198
Grand Total	39111	40655

Average of Speed	Column Labels	
Row Labels	W	E
Monday	36.60	35.16
Tuesday	36.56	35.18
Wednesday	36.89	34.89
Thursday	36.95	35.01
Friday	37.26	35.63
Saturday	37.90	37.07
Sunday	37.77	37.36
Grand Total	37.03	35.55

% Over PSL	% Over ACPO	% Over DFT
0.12%	0.02%	0.01%

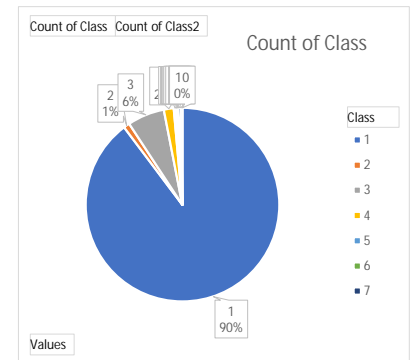
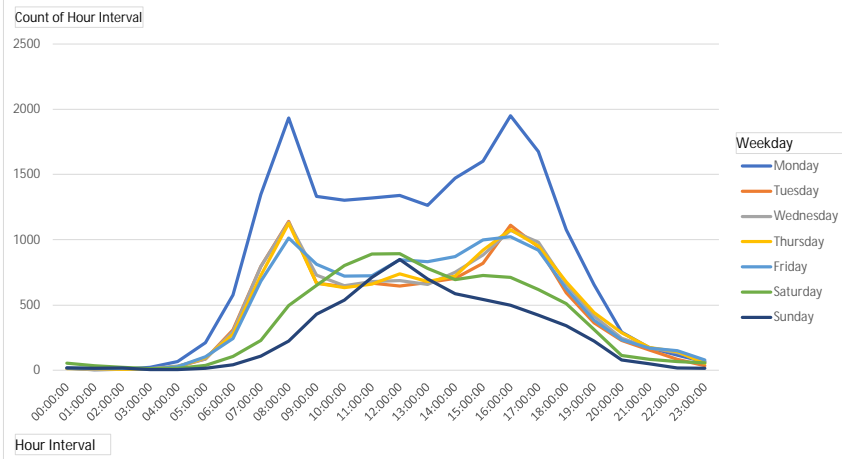
vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)



Row Labels	Count of Class	Count of Class2
1	71546	89.69%
2	837	1.05%
3	4923	6.17%
4	1331	1.67%
5	279	0.35%
6	73	0.09%
7	92	0.12%
8	58	0.07%
9	88	0.11%
11	5	0.01%
14	336	0.42%
15	194	0.24%
10	4	0.01%
Grand Total	79766	100.00%

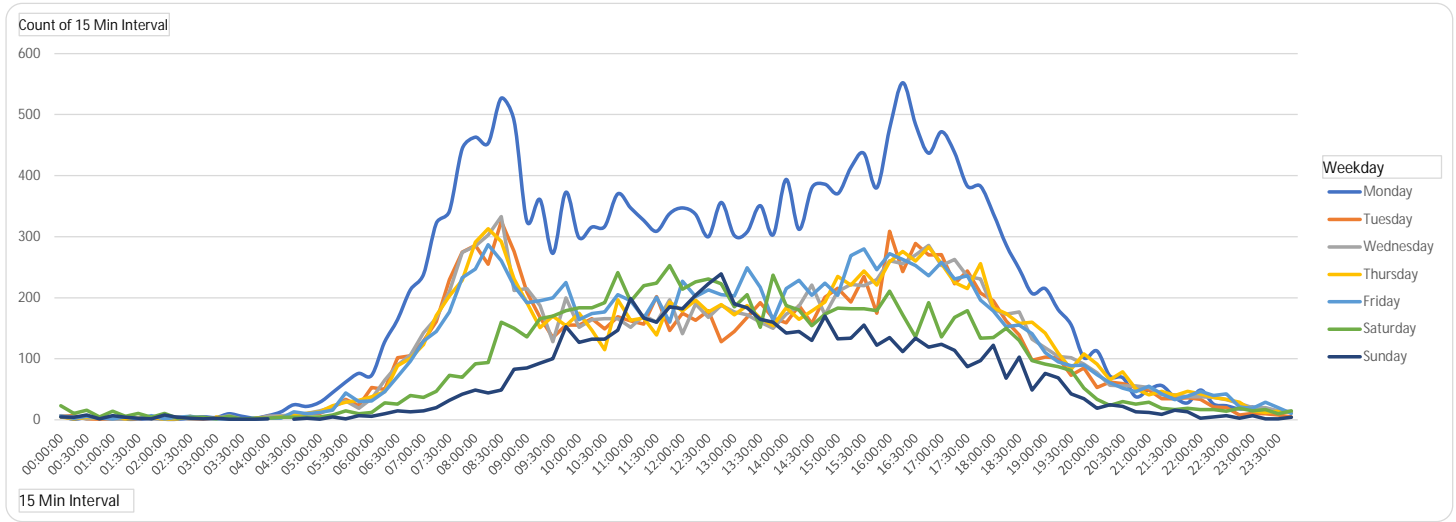


Week Commencing
11 October 2021
18 October 2021

Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
10

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
00:00:00	7	6	7	5	6	23	5	59
00:15:00	1	7	5	2	3	11	4	33
00:30:00	4	2	2	4	6	16	8	42
00:45:00	3	1	4	3	3	5	2	21
01:00:00		2	1	5	2	14	7	31
01:15:00	1	3	1	2	5	6	4	22
01:30:00	1	2		3	2	11	3	22
01:45:00	3	5	2	4	7	4	2	27
02:00:00	1	1	1	1	2	11	8	25
02:15:00	1	5	4	2	4	3	4	23
02:30:00	3	2	1	6	6	4	3	25
02:45:00	5	2	3		3	4	2	19
03:00:00	4	3	3	5	2	2	3	22
03:15:00	10	3	7	2	2	6	1	31
03:30:00	6	1	1		2	1	1	12
03:45:00	3	1	2	3	1	3	1	14
04:00:00	7	6	6	3	3	3	2	30
04:15:00	13	4	7	5	3	4		36
04:30:00	25	8	8	8	13	4	1	67
04:45:00	22	10	11	11	10	4	3	71
05:00:00	29	11	15	13	12	5	1	86
05:15:00	45	20	21	23	16	8	5	138
05:30:00	62	34	31	29	44	15	2	217
05:45:00	76	23	19	32	30	10	7	197

Row Labels	07-19	06-22	06-00	00-00
Monday	17616	19310	19490	19822
Tuesday	9402	10457	10574	10736
Wednesday	9683	10813	11016	11178
Thursday	9583	10761	10957	11128
Friday	10075	11106	11336	11523
Saturday	7999	8614	8738	8915
Sunday	5956	6352	6385	6464
<b>Grand Total</b>	<b>70314</b>	<b>77413</b>	<b>78496</b>	<b>79766</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	6.20	8.43
00:15:00	3.60	4.71
00:30:00	3.60	6.00
00:45:00	2.80	3.00
01:00:00	2.00	4.43
01:15:00	2.40	3.14
01:30:00	1.60	3.14
01:45:00	4.20	3.86
02:00:00	1.20	3.57
02:15:00	3.20	3.29
02:30:00	3.60	3.57
02:45:00	2.60	2.71
03:00:00	3.40	3.14
03:15:00	4.80	4.43
03:30:00	2.00	1.71
03:45:00	2.00	2.00
04:00:00	5.00	4.29
04:15:00	6.40	5.14
04:30:00	12.40	9.57
04:45:00	12.80	10.14
05:00:00	16.00	12.29
05:15:00	25.00	19.71
05:30:00	40.00	31.00
05:45:00	36.00	28.14
06:00:00	46.00	35.43

06:00:00	73	53	35	38	31	12	6	248
06:15:00	127	50	65	46	46	28	10	372
06:30:00	164	102	90	89	71	26	15	557
06:45:00	213	105	106	101	96	40	13	674
07:00:00	238	129	143	123	129	37	15	814
07:15:00	322	161	167	171	145	47	20	1033
07:30:00	342	230	210	203	177	73	32	1267
07:45:00	444	275	274	229	233	70	42	1567
08:00:00	463	286	285	291	247	92	49	1713
08:15:00	453	255	303	313	287	94	44	1749
08:30:00	527	325	333	292	261	160	49	1947
08:45:00	490	276	212	231	219	150	83	1661
09:00:00	325	209	215	192	192	136	85	1354
09:15:00	361	168	187	151	195	166	93	1321
09:30:00	273	135	128	170	200	170	100	1176
09:45:00	373	155	200	154	225	179	153	1439
10:00:00	299	155	152	175	164	184	127	1256
10:15:00	316	166	164	147	174	184	132	1283
10:30:00	317	149	166	115	177	192	132	1248
10:45:00	370	169	166	197	205	241	147	1495
11:00:00	347	162	152	163	195	194	199	1412
11:15:00	327	157	171	167	167	220	167	1376
11:30:00	309	202	160	139	201	224	160	1395
11:45:00	338	146	197	193	160	253	185	1472
12:00:00	347	175	141	178	227	214	182	1464
12:15:00	337	163	190	196	202	226	204	1518
12:30:00	300	179	168	177	213	231	223	1491
12:45:00	356	128	188	189	205	223	239	1528
13:00:00	302	145	177	172	203	185	190	1374
13:15:00	308	168	172	187	249	205	184	1473
13:30:00	351	192	160	167	217	152	165	1404
13:45:00	303	167	150	154	163	237	160	1334
14:00:00	394	159	173	184	215	187	142	1454
14:15:00	312	187	186	165	229	180	145	1404
14:30:00	381	158	221	178	204	154	130	1426
14:45:00	386	201	172	193	224	173	170	1519
15:00:00	371	216	210	235	204	183	133	1552
15:15:00	413	193	222	221	269	182	134	1634
15:30:00	437	235	220	244	280	182	155	1753
15:45:00	380	175	230	221	246	179	122	1553
16:00:00	477	309	261	259	272	211	135	1924
16:15:00	552	243	256	276	263	172	112	1874
16:30:00	484	289	270	260	253	136	134	1826
16:45:00	437	270	286	283	236	192	119	1823
17:00:00	472	271	253	256	258	136	124	1770
17:15:00	438	223	263	225	231	168	114	1662
17:30:00	383	244	235	215	236	179	87	1579
17:45:00	383	208	231	256	196	134	97	1505
18:00:00	338	195	181	184	178	135	122	1333
18:15:00	286	162	173	174	153	150	68	1166

06:15:00	66.80	53.14
06:30:00	103.20	79.57
06:45:00	124.20	96.29
07:00:00	152.40	116.29
07:15:00	193.20	147.57
07:30:00	232.40	181.00
07:45:00	291.00	223.86
08:00:00	314.40	244.71
08:15:00	322.20	249.86
08:30:00	347.60	278.14
08:45:00	285.60	237.29
09:00:00	226.60	193.43
09:15:00	212.40	188.71
09:30:00	181.20	168.00
09:45:00	221.40	205.57
10:00:00	189.00	179.43
10:15:00	193.40	183.29
10:30:00	184.80	178.29
10:45:00	221.40	213.57
11:00:00	203.80	201.71
11:15:00	197.80	196.57
11:30:00	202.20	199.29
11:45:00	206.80	210.29
12:00:00	213.60	209.14
12:15:00	217.60	216.86
12:30:00	207.40	213.00
12:45:00	213.20	218.29
13:00:00	199.80	196.29
13:15:00	216.80	210.43
13:30:00	217.40	200.57
13:45:00	187.40	190.57
14:00:00	225.00	207.71
14:15:00	215.80	200.57
14:30:00	228.40	203.71
14:45:00	235.20	217.00
15:00:00	247.20	221.71
15:15:00	263.60	233.43
15:30:00	283.20	250.43
15:45:00	250.40	221.86
16:00:00	315.60	274.86
16:15:00	318.00	267.71
16:30:00	311.20	260.86
16:45:00	302.40	260.43
17:00:00	302.00	252.86
17:15:00	276.00	237.43
17:30:00	262.60	225.57
17:45:00	254.80	215.00
18:00:00	215.20	190.43
18:15:00	189.60	166.57
18:30:00	175.20	158.43

18:30:00	247	139	177	158	155	130	103	1109
18:45:00	207	98	132	160	141	97	49	884
19:00:00	215	103	118	142	110	91	76	855
19:15:00	181	102	104	109	95	87	69	747
19:30:00	156	73	102	83	89	81	43	627
19:45:00	102	85	91	108	90	52	35	563
20:00:00	113	53	77	91	74	34	19	461
20:15:00	72	62	57	66	61	24	25	367
20:30:00	69	59	56	79	52	30	22	367
20:45:00	38	53	56	51	46	26	13	283
21:00:00	50	49	53	41	55	29	12	289
21:15:00	56	35	41	47	43	19	9	250
21:30:00	37	35	41	40	33	17	16	219
21:45:00	28	36	38	47	39	19	13	220
22:00:00	49	34	38	43	47	17	3	231
22:15:00	26	21	37	37	40	17	5	183
22:30:00	23	20	33	34	43	14	7	174
22:45:00	18	8	27	29	21	19	3	125
23:00:00	21	11	20	15	19	15	7	108
23:15:00	16	10	20	12	29	17	2	106
23:30:00	13	8	15	14	20	10	2	82
23:45:00	14	5	13	12	11	15	4	74
Grand Total	19822	10736	11178	11128	11523	8915	6464	79766

18:45:00	147.60	126.29
19:00:00	137.60	122.14
19:15:00	118.20	106.71
19:30:00	100.60	89.57
19:45:00	95.20	80.43
20:00:00	81.60	65.86
20:15:00	63.60	52.43
20:30:00	63.00	52.43
20:45:00	48.80	40.43
21:00:00	49.60	41.29
21:15:00	44.40	35.71
21:30:00	37.20	31.29
21:45:00	37.60	31.43
22:00:00	42.20	33.00
22:15:00	32.20	26.14
22:30:00	30.60	24.86
22:45:00	20.60	17.86
23:00:00	17.20	15.43
23:15:00	17.40	15.14
23:30:00	14.00	11.71
23:45:00	11.00	10.57
Grand Total	12877.40	11395.14

Class	Axis	Access	Description	Parameters	Dimension Details	Accesses
1	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
2	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
3	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
4	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
5	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
6	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
7	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
8	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
9	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
10	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
11	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
12	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
13	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
14	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
15	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
16	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
17	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
18	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
19	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
20	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
21	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
22	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
23	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
24	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
25	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
26	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
27	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
28	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
29	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
30	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
31	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
32	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
33	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
34	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
35	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light
36	017	3	Short - Car sign (in)	011+0.1m, 012+0.2m & access2	011+0.1m, 012+0.2m & access2	Light

Week Commencing

11 October 2021

18 October 2021

Compass direction

E

W

Class

1

2

3

4

5

Weekday

Monday

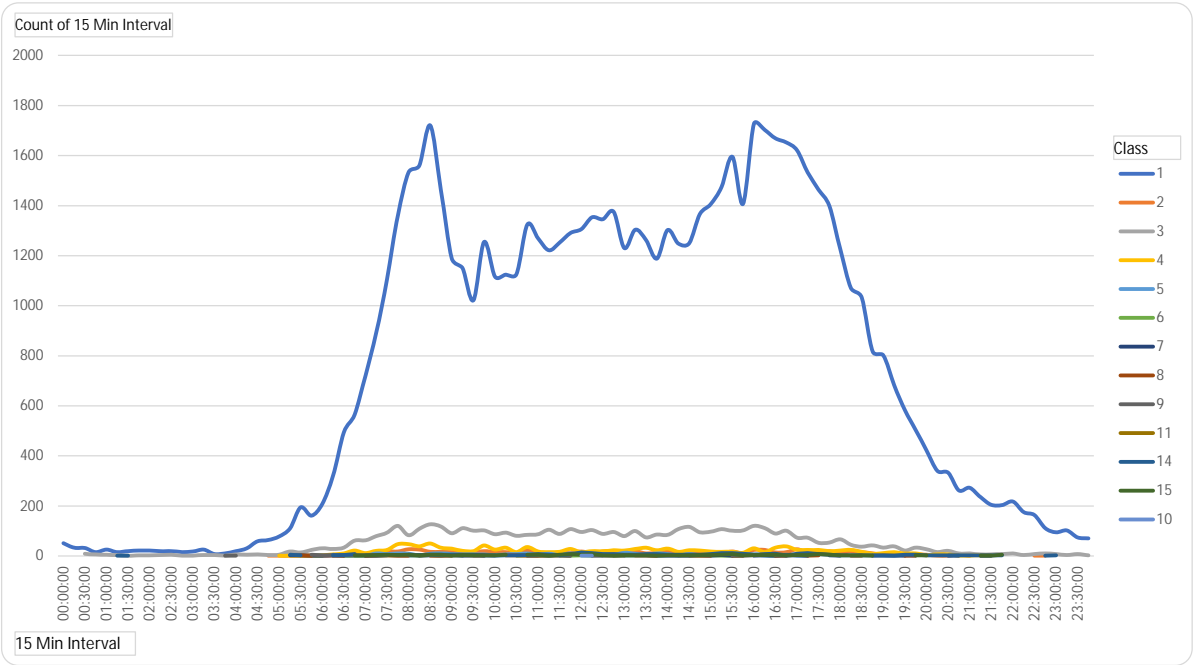
Tuesday

Wednesday

Thursday

Friday

Saturday



Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	11	14	15	10	rand Tot
00:00:00	51			7	1										59
00:15:00	33														33
00:30:00	32			9						1					42
00:45:00	15			6											21
01:00:00	26			5											31
01:15:00	15			4		1				1		1			22
01:30:00	20			1								1			22
01:45:00	22			3	2										27
02:00:00	22			3											25
02:15:00	19			4											23
02:30:00	20			5											25
02:45:00	16			2						1					19
03:00:00	18		1	2	1										22
03:15:00	26			4						1					31
03:30:00	8			4											12
03:45:00	11			2						1					14
04:00:00	19			6	3					1		1			30
04:15:00	31			5											36

Row Labels	07-19	06-22	06-00	00-00
Monday	17616	19310	19490	19822
Tuesday	9402	10457	10574	10736
Wednesday	9683	10813	11016	11178
Thursday	9583	10761	10957	11128
Friday	10075	11106	11336	11523
Saturday	7999	8614	8738	8915
Sunday	5956	6352	6385	6464
Grand Total	70314	77413	78496	79766

Row Labels	Average 5 Days	1 of Average 7 D
00:00:00	6.20	8.43
00:15:00	3.60	4.71
00:30:00	3.60	6.00
00:45:00	2.80	3.00
01:00:00	2.00	4.43
01:15:00	2.40	3.14
01:30:00	1.60	3.14
01:45:00	4.20	3.86
02:00:00	1.20	3.57
02:15:00	3.20	3.29
02:30:00	3.60	3.57
02:45:00	2.60	2.71
03:00:00	3.40	3.14
03:15:00	4.80	4.43
03:30:00	2.00	1.71
03:45:00	2.00	2.00
04:00:00	5.00	4.29
04:15:00	6.40	5.14
04:30:00	12.40	9.57



16:45:00	1653	15	101	38	5	3	1	1	3	3	1823			
17:00:00	1621	27	73	25	2	3		5	1	9	4	1770		
17:15:00	1532	12	73	24	2	1	1	1	12	4	1662			
17:30:00	1464	17	53	24		4		2	8	7	1579			
17:45:00	1398	19	54	20	2	2			5	5	1505			
18:00:00	1226	11	67	22		1			3	3	1333			
18:15:00	1071	19	45	25			1	1	2	2	1166			
18:30:00	1032	15	37	17	1		1	1	3	2	1109			
18:45:00	817	11	43	9		1			2	1	884			
19:00:00	802	4	34	12		2			1		855			
19:15:00	683	7	39	15		1			1	1	747			
19:30:00	582	3	22	10	3	1	1		5		627			
19:45:00	504	6	34	10	1		1		5	2	563			
20:00:00	422	5	27	3					2	2	461			
20:15:00	341	1	16	7					2		367			
20:30:00	333	2	21	6	1	1			2	1	367			
20:45:00	262	5	10	2		1			3		283			
21:00:00	273	1	10	2					3		289			
21:15:00	235		6	3		1	1		3	1	250			
21:30:00	205		7	3		1			2	1	219			
21:45:00	203		8						3	6	220			
22:00:00	218	1	10	2							231			
22:15:00	176		4		1		1		1		183			
22:30:00	164	1	8	1							174			
22:45:00	112	2	10						1		125			
23:00:00	95		8	1		1			2	1	108			
23:15:00	102		4								106			
23:30:00	74		8								82			
23:45:00	71		3								74			
Grand Total	71546	837	4923	###	##	73	92	58	88	5	336	194	4	79766

17:00:00	302.00	252.86
17:15:00	276.00	237.43
17:30:00	262.60	225.57
17:45:00	254.80	215.00
18:00:00	215.20	190.43
18:15:00	189.60	166.57
18:30:00	175.20	158.43
18:45:00	147.60	126.29
19:00:00	137.60	122.14
19:15:00	118.20	106.71
19:30:00	100.60	89.57
19:45:00	95.20	80.43
20:00:00	81.60	65.86
20:15:00	63.60	52.43
20:30:00	63.00	52.43
20:45:00	48.80	40.43
21:00:00	49.60	41.29
21:15:00	44.40	35.71
21:30:00	37.20	31.29
21:45:00	37.60	31.43
22:00:00	42.20	33.00
22:15:00	32.20	26.14
22:30:00	30.60	24.86
22:45:00	20.60	17.86
23:00:00	17.20	15.43
23:15:00	17.40	15.14
23:30:00	14.00	11.71
23:45:00	11.00	10.57
Grand Total	12877.40	11395.14



Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

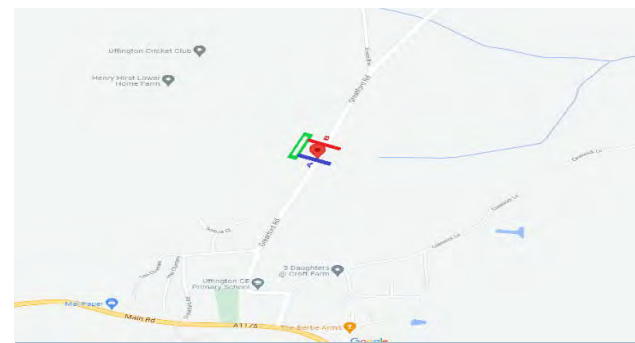
Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	19822	35.86	41.40	45.30	21	0.11%	1	0.01%	1	0.01%
Tuesday	10736	35.85	41.30	45.20	10	0.09%	1	0.01%	0	0.00%
Wednesday	11178	35.86	41.30	45.20	5	0.04%	1	0.01%	0	0.00%
Thursday	11128	35.95	41.40	45.60	12	0.11%	2	0.02%	1	0.01%
Friday	11523	36.43	41.80	46.10	18	0.16%	5	0.04%	2	0.02%
Saturday	8915	37.49	43.00	47.00	14	0.16%	3	0.03%	2	0.02%
Sunday	6464	37.57	43.10	47.20	12	0.19%	3	0.05%	1	0.02%
5day	64387	35.98	41.40	45.47	66	0.10%	10	0.02%	4	0.01%
7day	79766	36.28	41.80	45.80	92	0.12%	16	0.02%	7	0.01%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 20



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

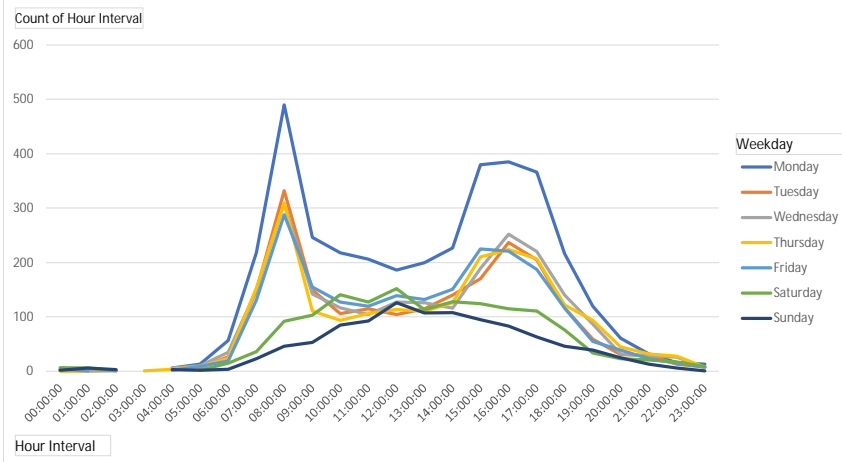
Week Commencing
18 October 2021
11 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
14
15

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
14795	0.34%	0.05%	0.01%

Count of Compass direction	Column Labels	N	S	Grand Total
11 October 2021		6577	6588	13165
18 October 2021		832	798	1630
Grand Total		7409	7386	14795



Count of Compass direction	Column Labels	N	S
Monday		1850	1810
Tuesday		1046	1077
Wednesday		1116	1111
Thursday		1092	1041
Friday		1098	1069
Saturday		704	749
Sunday		503	529
Grand Total		7409	7386

Average of Speed	Column Labels	N	S
Monday		38.46	34.07
Tuesday		38.23	33.72
Wednesday		37.19	33.37
Thursday		38.47	33.41
Friday		39.19	34.58
Saturday		38.19	35.01
Sunday		39.38	34.47
Grand Total		38.38	34.02

% Over PSL	% Over ACPO	% Over DFT
0.34%	0.05%	0.01%

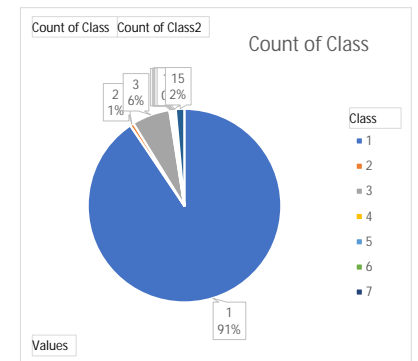
vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)



Row Labels	Count of Class	Count of Class2
1	13394	90.53%
2	99	0.67%
3	935	6.32%
4	30	0.20%
5	27	0.18%
6	4	0.03%
7	21	0.14%
8	1	0.01%
9	13	0.09%
14	61	0.41%
15	210	1.42%
Grand Total	14795	100.00%

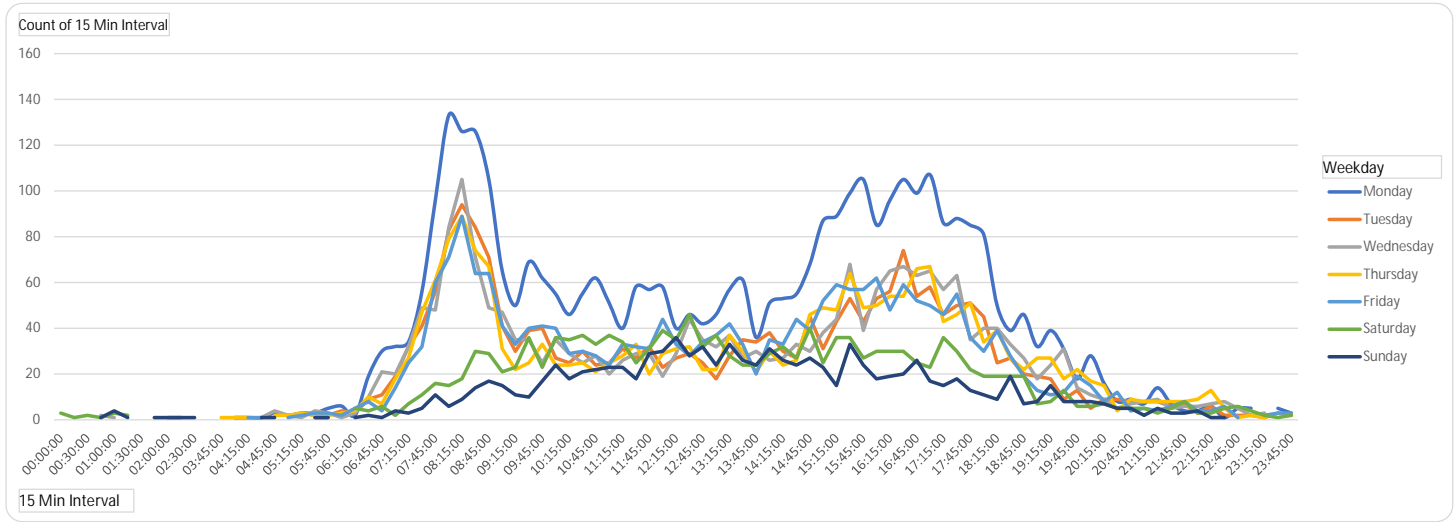


Week Commencing
11 October 2021
18 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
14

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Grand Total
00:00:00				1	3	3		7
00:15:00	1	1	1			1	1	5
00:30:00					1	2		3
00:45:00			2			1	1	4
01:00:00			1			3	4	8
01:15:00					1	2	1	4
01:30:00		1		1				2
01:45:00						1	1	2
02:00:00	1	1					1	3
02:15:00	1						1	2
02:30:00		1	1			1	1	4
02:45:00	1							1
03:45:00				1				1
04:00:00	1	1	1	1			1	5
04:15:00	1	1		1	1			4
04:30:00	1		1		1		1	4
04:45:00	3	4	4	2			1	14
05:00:00	2		2	2	1			7
05:15:00	3	3	1	3	2			12
05:30:00	3	2	4	2	3	1	1	16
05:45:00	5	2	3	2	3	1	1	17
06:00:00	6	4	1	3	2			16
06:15:00	2	3	3	4	5	5	1	23
06:30:00	19	9	10	10	8	4	2	62

Row Labels	07-19	06-22	06-00	00-00
Monday	3338	3608	3637	3660
Tuesday	1939	2085	2106	2123
Wednesday	1991	2173	2206	2227
Thursday	1886	2081	2117	2133
Friday	1992	2128	2151	2167
Saturday	1318	1411	1437	1453
Sunday	928	1009	1016	1032
<b>Grand Total</b>	<b>13392</b>	<b>14495</b>	<b>14670</b>	<b>14795</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	0.80	1.00
00:15:00	0.60	0.71
00:30:00	0.20	0.43
00:45:00	0.40	0.57
01:00:00	0.20	1.14
01:15:00	0.20	0.57
01:30:00	0.40	0.29
01:45:00	0.00	0.29
02:00:00	0.40	0.43
02:15:00	0.20	0.29
02:30:00	0.40	0.57
02:45:00	0.20	0.14
03:45:00	0.20	0.14
04:00:00	0.80	0.71
04:15:00	0.80	0.57
04:30:00	0.60	0.57
04:45:00	2.60	2.00
05:00:00	1.40	1.00
05:15:00	2.40	1.71
05:30:00	2.80	2.29
05:45:00	3.00	2.43
06:00:00	3.20	2.29
06:15:00	3.40	3.29
06:30:00	11.20	8.86
06:45:00	14.60	11.43

06:45:00	30	11	21	7	4	6	1	80
07:00:00	32	19	20	18	14	2	4	109
07:15:00	34	32	32	27	25	7	3	160
07:30:00	56	41	49	47	32	11	5	241
07:45:00	96	56	48	61	60	16	11	348
08:00:00	133	83	84	79	71	15	6	471
08:15:00	126	94	105	89	89	18	9	530
08:30:00	126	84	71	74	64	30	14	463
08:45:00	105	71	49	67	64	29	17	402
09:00:00	65	41	47	31	41	21	15	261
09:15:00	50	30	35	22	33	23	11	204
09:30:00	69	39	35	25	40	36	10	254
09:45:00	62	40	25	33	41	23	17	241
10:00:00	55	27	35	24	40	36	24	241
10:15:00	46	25	29	24	29	35	18	206
10:30:00	55	30	25	25	30	37	21	223
10:45:00	62	24	28	21	28	33	22	218
11:00:00	51	25	20	25	24	37	23	205
11:15:00	40	31	26	28	33	34	23	215
11:30:00	58	27	29	33	32	25	18	222
11:45:00	57	32	29	20	31	31	29	229
12:00:00	58	23	19	29	44	39	30	242
12:15:00	40	27	29	31	33	35	36	231
12:30:00	46	29	44	32	28	46	28	253
12:45:00	42	25	35	22	34	32	32	222
13:00:00	46	18	32	22	37	37	24	216
13:15:00	57	28	37	37	42	28	33	262
13:30:00	61	35	27	30	33	24	26	236
13:45:00	36	34	30	21	20	24	24	189
14:00:00	51	38	26	30	35	29	31	240
14:15:00	53	30	27	24	33	32	26	225
14:30:00	55	27	33	26	44	27	24	236
14:45:00	68	45	30	46	39	40	27	295
15:00:00	87	31	38	49	52	25	23	305
15:15:00	89	43	44	48	59	36	15	334
15:30:00	99	53	68	64	57	36	33	410
15:45:00	105	43	39	49	57	27	24	344
16:00:00	85	53	57	50	62	30	18	355
16:15:00	96	56	65	54	48	30	19	368
16:30:00	105	74	67	54	59	30	20	409
16:45:00	99	54	63	66	52	25	26	385
17:00:00	107	58	65	67	50	23	17	387
17:15:00	86	46	57	43	46	36	15	329
17:30:00	88	50	63	46	55	30	18	350
17:45:00	85	51	35	51	36	22	13	293
18:00:00	81	45	40	34	30	19	11	260
18:15:00	50	25	40	39	39	19	9	221
18:30:00	39	27	33	27	28	19	19	192
18:45:00	46	20	27	22	19	19	7	160
19:00:00	32	19	18	27	13	7	8	124

07:00:00	20.60	15.57
07:15:00	30.00	22.86
07:30:00	45.00	34.43
07:45:00	64.20	49.71
08:00:00	90.00	67.29
08:15:00	100.60	75.71
08:30:00	83.80	66.14
08:45:00	71.20	57.43
09:00:00	45.00	37.29
09:15:00	34.00	29.14
09:30:00	41.60	36.29
09:45:00	40.20	34.43
10:00:00	36.20	34.43
10:15:00	30.60	29.43
10:30:00	33.00	31.86
10:45:00	32.60	31.14
11:00:00	29.00	29.29
11:15:00	31.60	30.71
11:30:00	35.80	31.71
11:45:00	33.80	32.71
12:00:00	34.60	34.57
12:15:00	32.00	33.00
12:30:00	35.80	36.14
12:45:00	31.60	31.71
13:00:00	31.00	30.86
13:15:00	40.20	37.43
13:30:00	37.20	33.71
13:45:00	28.20	27.00
14:00:00	36.00	34.29
14:15:00	33.40	32.14
14:30:00	37.00	33.71
14:45:00	45.60	42.14
15:00:00	51.40	43.57
15:15:00	56.60	47.71
15:30:00	68.20	58.57
15:45:00	58.60	49.14
16:00:00	61.40	50.71
16:15:00	63.80	52.57
16:30:00	71.80	58.43
16:45:00	66.80	55.00
17:00:00	69.40	55.29
17:15:00	55.60	47.00
17:30:00	60.40	50.00
17:45:00	51.60	41.86
18:00:00	46.00	37.14
18:15:00	38.60	31.57
18:30:00	30.80	27.43
18:45:00	26.80	22.86
19:00:00	21.80	17.71
19:15:00	23.80	20.29

19:15:00	39	18	24	27	11	8	15	142
19:30:00	31	9	31	18	12	13	8	122
19:45:00	18	13	14	22	19	6	8	100
20:00:00	28	5	11	17	15	6	8	90
20:15:00	16	9	9	15	8	7	7	71
20:30:00	8	9	5	4	12	5	5	48
20:45:00	9	8	7	9	4	5	5	47
21:00:00	7	8	8	8	5	5	2	43
21:15:00	14	8	9	8	4	3	5	51
21:30:00	7	6	5	8	6	5	3	40
21:45:00	4	7	6	8	8	8	3	44
22:00:00	4	3	6	9	4	3	4	33
22:15:00	6	6	7	13	4	3	1	40
22:30:00	1	2	8	5	6	5	1	28
22:45:00	5	2	5	1	1	6		20
23:00:00	5	2	2	2		4	1	16
23:15:00		1	3	1	2	2		9
23:30:00	5	3		3	3	1		15
23:45:00	3	2	2	2	3	2		14
Grand Total	3660	2123	2227	2133	2167	1453	1032	14795

19:30:00	20.20	17.43
19:45:00	17.20	14.29
20:00:00	15.20	12.86
20:15:00	11.40	10.14
20:30:00	7.60	6.86
20:45:00	7.40	6.71
21:00:00	7.20	6.14
21:15:00	8.60	7.29
21:30:00	6.40	5.71
21:45:00	6.60	6.29
22:00:00	5.20	4.71
22:15:00	7.20	5.71
22:30:00	4.40	4.00
22:45:00	2.80	2.86
23:00:00	2.20	2.29
23:15:00	1.40	1.29
23:30:00	2.80	2.14
23:45:00	2.40	2.00
Grand Total	2462.00	2113.57

Class	Axis	Access	Description	Parameters	Dimension Details	Attributes
1	017	3	Short - Car sign (in)	011+017m, 012+017m & access2	017	Light
2	017	3	Short Towing - Traction Control (Short, etc)	group01, 012+017m, 013+017m, 014+017m & access2, A, B	017	Light
3	017	3	Long wire (short or flat)	012+017m & access2	017	Light
4	017	3	Three wire (short or flat)	access2 & group01	017	Light
5	14	3	Four wire (short)	access2 & group01	017	Light
6	017	3	Three wire articulated vehicle or rigid vehicle and trailer	012+017m, access2 & group01	017	Light
7	017	3	Four wire articulated vehicle or rigid vehicle and trailer	012+017m or 013+017m or 014+017m & access2 & B & group01	017	Light
8	017	3	Five wire articulated vehicle or rigid vehicle and trailer	012+017m or 013+017m or 014+017m & access2 & B & group01	017	Light
9	017	3	Six (or more) wire articulated vehicle or rigid vehicle and trailer	access2 & group01 or access2 & group01	017	Light
10	017	3	Double road train or heavy truck and two trailers	group01 & access2	017	Light
11	017	3	Triple road train or heavy truck and three (or more) trailers	group01 & access2	017	Light
12	017	3	Motorcycle	011+017m, 012+017m & access2	017	Light
13	017	3	Trailer	011+017m, 012+017m & access2	017	Light

Week Commencing

11 October 2021

18 October 2021

Compass direction

N

S

Class

1

2

3

4

5

Weekday

Monday

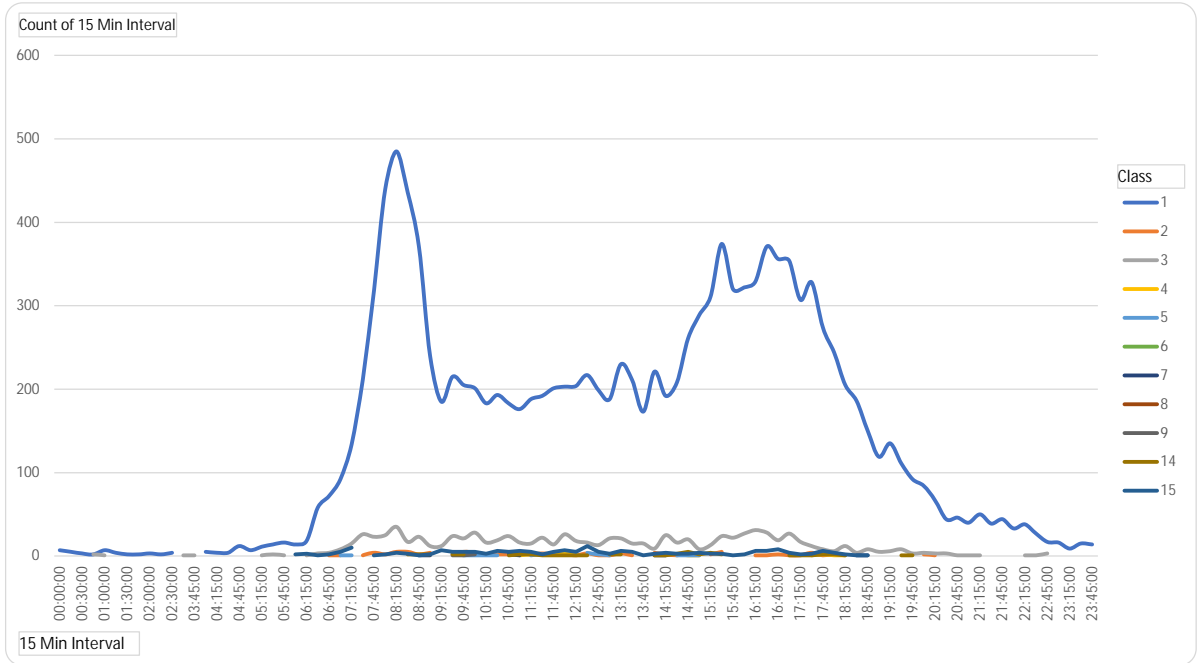
Tuesday

Wednesday

Thursday

Friday

Saturday



Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	14	15	Ind Tot
00:00:00	7												7
00:15:00	5												5
00:30:00	3												3
00:45:00	2			2									4
01:00:00	7			1									8
01:15:00	4												4
01:30:00	2												2
01:45:00	2												2
02:00:00	3												3
02:15:00	2												2
02:30:00	4												4
02:45:00				1									1
03:45:00				1									1
04:00:00	5												5
04:15:00	4												4
04:30:00	4												4
04:45:00	12			2									14
05:00:00	7												7

Row Labels	07-19	06-22	06-00	00-00
Monday	3338	3608	3637	3660
Tuesday	1939	2085	2106	2123
Wednesday	1991	2173	2206	2227
Thursday	1886	2081	2117	2133
Friday	1992	2128	2151	2167
Saturday	1318	1411	1437	1453
Sunday	928	1009	1016	1032
Grand Total	13392	14495	14670	14795

Row Labels	Average 5 Days	1 of Average 7 D
00:00:00	0.80	1.00
00:15:00	0.60	0.71
00:30:00	0.20	0.43
00:45:00	0.40	0.57
01:00:00	0.20	1.14
01:15:00	0.20	0.57
01:30:00	0.40	0.29
01:45:00	0.00	0.29
02:00:00	0.40	0.43
02:15:00	0.20	0.29
02:30:00	0.40	0.57
02:45:00	0.20	0.14
03:45:00	0.20	0.14
04:00:00	0.80	0.71
04:15:00	0.80	0.57
04:30:00	0.60	0.57
04:45:00	2.60	2.00
05:00:00	1.40	1.00
05:15:00	2.40	1.71

05:15:00	11		1							12
05:30:00	14		2							16
05:45:00	16		1							17
06:00:00	14								2	16
06:15:00	18	1	1						3	23
06:30:00	58		3						1	62
06:45:00	72	1	4					1	2	80
07:00:00	92	1	8	1	1	1			5	109
07:15:00	134		15	1					10	160
07:30:00	212	1	26	1		1				241
07:45:00	319	4	23				1		1	348
08:00:00	440	2	25						2	471
08:15:00	485	5	35	1					4	530
08:30:00	436	5	17						2	463
08:45:00	371	2	23	2		1			2	402
09:00:00	240	4	12			1			2	261
09:15:00	185		12						7	204
09:30:00	215	2	24	2	3		1	2	5	254
09:45:00	205	5	21		1	1	1	2	5	241
10:00:00	201	4	28		1			2	5	241
10:15:00	183	2	16	1	1				3	206
10:30:00	193	2	19		1			2	6	223
10:45:00	183	2	24			1	2		1	218
11:00:00	176	3	16	1			1		2	205
11:15:00	188	2	15	2	1				2	215
11:30:00	192	3	22		2				1	222
11:45:00	201	2	14	2	2	1	1		1	229
12:00:00	203	2	26	3					1	242
12:15:00	204	1	18	2					1	231
12:30:00	217	3	16		4				1	253
12:45:00	199	1	13	2	2				5	222
13:00:00	188	1	21		1				2	216
13:15:00	230	3	21						2	262
13:30:00	211	1	15	2		1	1		5	236
13:45:00	173		15						1	189
14:00:00	221	4	9			1	1		1	240
14:15:00	192	2	25				1		1	225
14:30:00	208	1	16	2	1			2	3	236
14:45:00	261	3	20	1	1	1			5	295
15:00:00	289		8	1	1				2	305
15:15:00	311	2	13					1	4	334
15:30:00	374	5	24	1		1			2	410
15:45:00	320		22					1	1	344
16:00:00	322		27						4	355
16:15:00	329	1	31			1			6	368
16:30:00	371	1	28		1				2	409
16:45:00	356	2	19						8	385
17:00:00	354	1	27						1	387
17:15:00	307	1	17		1				1	329

05:30:00	2.80	2.29
05:45:00	3.00	2.43
06:00:00	3.20	2.29
06:15:00	3.40	3.29
06:30:00	11.20	8.86
06:45:00	14.60	11.43
07:00:00	20.60	15.57
07:15:00	30.00	22.86
07:30:00	45.00	34.43
07:45:00	64.20	49.71
08:00:00	90.00	67.29
08:15:00	100.60	75.71
08:30:00	83.80	66.14
08:45:00	71.20	57.43
09:00:00	45.00	37.29
09:15:00	34.00	29.14
09:30:00	41.60	36.29
09:45:00	40.20	34.43
10:00:00	36.20	34.43
10:15:00	30.60	29.43
10:30:00	33.00	31.86
10:45:00	32.60	31.14
11:00:00	29.00	29.29
11:15:00	31.60	30.71
11:30:00	35.80	31.71
11:45:00	33.80	32.71
12:00:00	34.60	34.57
12:15:00	32.00	33.00
12:30:00	35.80	36.14
12:45:00	31.60	31.71
13:00:00	31.00	30.86
13:15:00	40.20	37.43
13:30:00	37.20	33.71
13:45:00	28.20	27.00
14:00:00	36.00	34.29
14:15:00	33.40	32.14
14:30:00	37.00	33.71
14:45:00	45.60	42.14
15:00:00	51.40	43.57
15:15:00	56.60	47.71
15:30:00	68.20	58.57
15:45:00	58.60	49.14
16:00:00	61.40	50.71
16:15:00	63.80	52.57
16:30:00	71.80	58.43
16:45:00	66.80	55.00
17:00:00	69.40	55.29
17:15:00	55.60	47.00
17:30:00	60.40	50.00



17:30:00	328	4	12	1		1	1	3	350			
17:45:00	274	1	8	2			2	6	293			
18:00:00	244	2	6	1		1	2	4	260			
18:15:00	205		12	1			1	2	221			
18:30:00	186		4			1		1	192			
18:45:00	150		8			1		1	160			
19:00:00	119		5						124			
19:15:00	135		6			1			142			
19:30:00	111		8		1		1	1	122			
19:45:00	92		3				1	4	100			
20:00:00	84	2	4						90			
20:15:00	67	1	3						71			
20:30:00	44		3					1	48			
20:45:00	46		1						47			
21:00:00	40		1			1		1	43			
21:15:00	50		1						51			
21:30:00	39							1	40			
21:45:00	44								44			
22:00:00	33								33			
22:15:00	38	1	1						40			
22:30:00	27		1						28			
22:45:00	17		3						20			
23:00:00	16								16			
23:15:00	9								9			
23:30:00	15								15			
23:45:00	14								14			
Grand Total	13394	99	935	30	27	4	21	1	13	61	210	###

17:45:00	51.60	41.86
18:00:00	46.00	37.14
18:15:00	38.60	31.57
18:30:00	30.80	27.43
18:45:00	26.80	22.86
19:00:00	21.80	17.71
19:15:00	23.80	20.29
19:30:00	20.20	17.43
19:45:00	17.20	14.29
20:00:00	15.20	12.86
20:15:00	11.40	10.14
20:30:00	7.60	6.86
20:45:00	7.40	6.71
21:00:00	7.20	6.14
21:15:00	8.60	7.29
21:30:00	6.40	5.71
21:45:00	6.60	6.29
22:00:00	5.20	4.71
22:15:00	7.20	5.71
22:30:00	4.40	4.00
22:45:00	2.80	2.86
23:00:00	2.20	2.29
23:15:00	1.40	1.29
23:30:00	2.80	2.14
23:45:00	2.40	2.00
Grand Total	2462.00	2113.57

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	3660	36.28	43.92	49.50	16	0.44%	1	0.03%	0	0.00%
Tuesday	2123	35.94	43.20	48.59	11	0.52%	2	0.09%	0	0.00%
Wednesday	2227	35.28	42.60	47.67	4	0.18%	2	0.09%	0	0.00%
Thursday	2133	36.00	43.30	48.44	5	0.23%	2	0.09%	1	0.05%
Friday	2167	36.92	44.40	49.40	9	0.42%	1	0.05%	0	0.00%
Saturday	1453	36.55	44.10	49.70	4	0.28%	0	0.00%	0	0.00%
Sunday	1032	36.86	45.00	50.65	2	0.19%	0	0.00%	0	0.00%
5day	12310	36.11	43.50	48.90	45	0.37%	8	0.06%	1	0.01%
7day	14795	36.20	43.70	49.10	51	0.34%	8	0.05%	1	0.01%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 21



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
10
11
14

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
52334	10.67%	1.80%	0.54%

Count of	Compass direction	Column Labels		
Row Labels	N	S	Grand Total	
11 October 2021	23099	22694	45793	
18 October 2021	3316	3225	6541	
Grand Total	26415	25919	52334	

Count of	Compass direction	Column Labels	
Row Labels	N	S	
Monday	6738	6624	
Tuesday	3524	3466	
Wednesday	3724	3667	
Thursday	3686	3690	
Friday	3870	3772	
Saturday	2822	2708	
Sunday	2051	1992	
Grand Total	26415	25919	

Row Labels	Count of Class	Count of Class2
1	47100	90.00%
2	292	0.56%
3	4151	7.93%
4	85	0.16%
5	78	0.15%
6	44	0.08%
7	46	0.09%
8	59	0.11%
9	56	0.11%
11	2	0.00%
14	376	0.72%
15	43	0.08%
10	2	0.00%
Grand Total	52334	100.00%

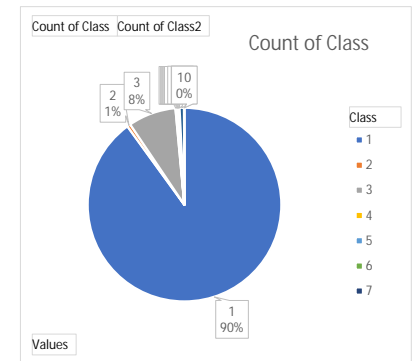
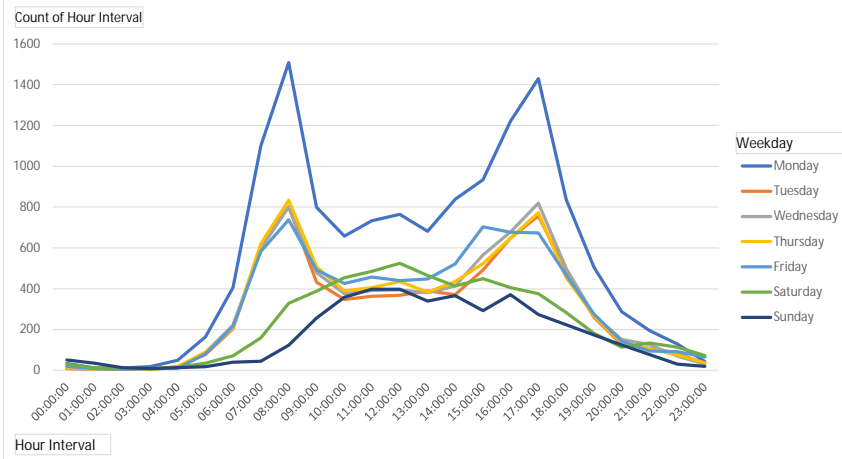
Average of Speed	Column Labels	
Row Labels	N	S
Monday	52.33	51.78
Tuesday	52.40	52.12
Wednesday	52.68	52.60
Thursday	52.71	51.58
Friday	52.80	52.68
Saturday	52.84	52.63
Sunday	53.28	52.30
Grand Total	52.64	52.17

% Over PSL	% Over ACPO	% Over DFT
10.67%	1.80%	0.54%

vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)

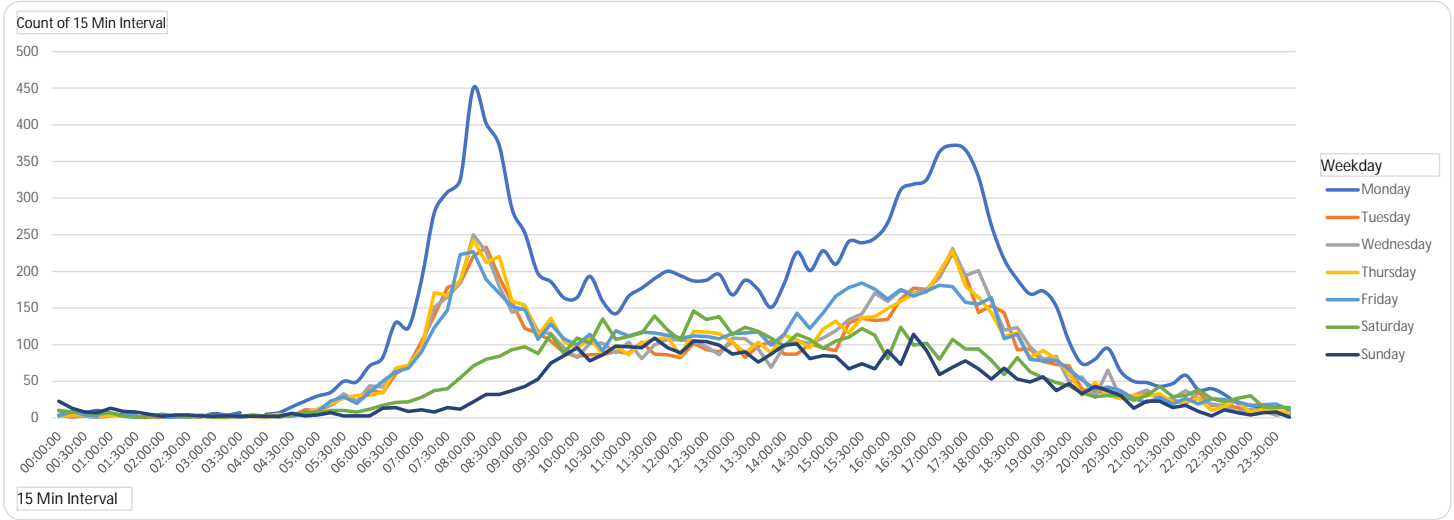


Week Commencing
11 October 2021
18 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
10

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels								Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday		
00:00:00	10	4	4	3	3	10	23		57
00:15:00	6	1	3	4	9	8	13		44
00:30:00	7	3	2	4	4	8	8		36
00:45:00	10	1	1	3	3	5	7		30
01:00:00	6	3		3		7	13		32
01:15:00	4		2	3	4	2	9		24
01:30:00	1	1			4	1	8		15
01:45:00	1	1	1			2	5		10
02:00:00	5	1	5	3	1	4	2		21
02:15:00	1		1	3	1	3	4		13
02:30:00	3	3	1	2		1	4		14
02:45:00	2	1	4	2	3	2	3		17
03:00:00	6		1	2	1	1	2		13
03:15:00	4	3	2	1	4	1	3		18
03:30:00	7	1	2		1	2	2		15
03:45:00		2		1	3	4	2		12
04:00:00	5	1	2	3		2	2		15
04:15:00	7	3	3	5	2	1	2		23
04:30:00	15	2	2	3	3	4	6		35
04:45:00	23	11	6	7	5	8	3		63
05:00:00	30	10	12	12	9	7	4		84
05:15:00	35	17	19	20	23	10	7		131
05:30:00	50	28	33	27	29	10	3		180
05:45:00	49	23	23	31	20	8	3		157

Row Labels	07-19	06-22	06-00	00-00
Monday	11508	12902	13075	13362
Tuesday	6057	6755	6870	6990
Wednesday	6393	7161	7262	7391
Thursday	6410	7123	7234	7376
Friday	6623	7353	7510	7642
Saturday	4732	5233	5419	5530
Sunday	3442	3855	3905	4043
<b>Grand Total</b>	<b>45165</b>	<b>50382</b>	<b>51275</b>	<b>52334</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	4.80	8.14
00:15:00	4.60	6.29
00:30:00	4.00	5.14
00:45:00	3.60	4.29
01:00:00	2.40	4.57
01:15:00	2.60	3.43
01:30:00	1.20	2.14
01:45:00	0.60	1.43
02:00:00	3.00	3.00
02:15:00	1.20	1.86
02:30:00	1.80	2.00
02:45:00	2.40	2.43
03:00:00	2.00	1.86
03:15:00	2.80	2.57
03:30:00	2.20	2.14
03:45:00	1.20	1.71
04:00:00	2.20	2.14
04:15:00	4.00	3.29
04:30:00	5.00	5.00
04:45:00	10.40	9.00
05:00:00	14.60	12.00
05:15:00	22.80	18.71
05:30:00	33.40	25.71
05:45:00	29.20	22.43
06:00:00	43.80	33.43

06:00:00	71	38	44	31	35	12	3	234
06:15:00	82	34	42	35	50	17	13	273
06:30:00	130	60	64	68	63	21	14	420
06:45:00	123	71	72	72	68	22	9	437
07:00:00	188	104	97	95	90	28	11	613
07:15:00	280	140	151	171	123	37	8	910
07:30:00	308	178	165	167	147	40	14	1019
07:45:00	325	184	184	188	223	55	12	1171
08:00:00	450	220	250	243	227	71	22	1483
08:15:00	402	233	227	212	189	80	32	1375
08:30:00	372	192	179	220	170	84	32	1249
08:45:00	285	157	144	159	152	93	37	1027
09:00:00	252	122	151	154	148	97	43	967
09:15:00	197	116	118	113	107	88	53	792
09:30:00	186	105	115	136	128	114	75	859
09:45:00	164	89	96	104	108	89	85	735
10:00:00	164	84	82	95	100	109	96	730
10:15:00	193	86	102	109	114	102	78	784
10:30:00	159	86	102	87	92	135	86	747
10:45:00	142	91	89	98	119	107	98	744
11:00:00	166	88	103	86	112	111	97	763
11:15:00	177	103	81	102	117	116	96	792
11:30:00	190	87	100	107	116	139	109	848
11:45:00	200	86	107	110	113	120	96	832
12:00:00	194	82	106	85	109	106	89	771
12:15:00	187	102	105	118	112	146	105	875
12:30:00	188	93	97	117	111	134	104	844
12:45:00	196	90	86	115	108	138	99	832
13:00:00	168	104	109	103	115	114	87	800
13:15:00	188	83	108	89	116	124	90	798
13:30:00	175	98	94	103	117	118	76	781
13:45:00	151	104	69	89	99	109	87	708
14:00:00	183	87	98	113	114	98	99	792
14:15:00	226	87	105	106	143	114	101	882
14:30:00	201	101	102	96	122	107	81	810
14:45:00	228	96	109	121	143	95	85	877
15:00:00	210	92	119	132	166	105	84	908
15:15:00	241	130	134	116	178	110	67	976
15:30:00	239	136	142	137	184	122	74	1034
15:45:00	245	133	170	138	176	113	67	1042
16:00:00	266	134	159	149	162	81	92	1043
16:15:00	311	162	174	159	175	124	73	1178
16:30:00	319	177	170	169	166	99	114	1214
16:45:00	325	175	175	172	173	102	92	1214
17:00:00	363	192	193	200	181	80	59	1268
17:15:00	372	225	231	228	179	107	69	1411
17:30:00	366	195	194	180	158	94	78	1265
17:45:00	329	144	201	165	155	94	67	1155
18:00:00	263	153	160	144	164	79	53	1016
18:15:00	216	144	120	111	108	59	68	826

06:15:00	48.60	39.00
06:30:00	77.00	60.00
06:45:00	81.20	62.43
07:00:00	114.80	87.57
07:15:00	173.00	130.00
07:30:00	193.00	145.57
07:45:00	220.80	167.29
08:00:00	278.00	211.86
08:15:00	252.60	196.43
08:30:00	226.60	178.43
08:45:00	179.40	146.71
09:00:00	165.40	138.14
09:15:00	130.20	113.14
09:30:00	134.00	122.71
09:45:00	112.20	105.00
10:00:00	105.00	104.29
10:15:00	120.80	112.00
10:30:00	105.20	106.71
10:45:00	107.80	106.29
11:00:00	111.00	109.00
11:15:00	116.00	113.14
11:30:00	120.00	121.14
11:45:00	123.20	118.86
12:00:00	115.20	110.14
12:15:00	124.80	125.00
12:30:00	121.20	120.57
12:45:00	119.00	118.86
13:00:00	119.80	114.29
13:15:00	116.80	114.00
13:30:00	117.40	111.57
13:45:00	102.40	101.14
14:00:00	119.00	113.14
14:15:00	133.40	126.00
14:30:00	124.40	115.71
14:45:00	139.40	125.29
15:00:00	143.80	129.71
15:15:00	159.80	139.43
15:30:00	167.60	147.71
15:45:00	172.40	148.86
16:00:00	174.00	149.00
16:15:00	196.20	168.29
16:30:00	200.20	173.43
16:45:00	204.00	173.43
17:00:00	225.80	181.14
17:15:00	247.00	201.57
17:30:00	218.60	180.71
17:45:00	198.80	165.00
18:00:00	176.80	145.14
18:15:00	139.80	118.00
18:30:00	127.00	110.00

18:30:00	189	93	123	116	114	82	53	770
18:45:00	169	94	97	83	80	63	49	635
19:00:00	173	77	80	92	78	55	56	611
19:15:00	153	73	84	81	79	48	37	555
19:30:00	104	71	49	61	66	44	47	442
19:45:00	74	39	56	31	52	34	33	319
20:00:00	80	35	28	48	39	29	43	302
20:15:00	95	36	65	31	42	31	37	337
20:30:00	63	32	27	26	37	30	31	246
20:45:00	50	25	31	31	26	24	13	200
21:00:00	48	36	38	30	21	31	23	227
21:15:00	43	27	24	33	28	43	23	221
21:30:00	47	25	27	21	19	29	14	182
21:45:00	58	19	37	22	27	31	17	211
22:00:00	38	35	27	26	19	38	9	192
22:15:00	40	17	19	10	26	26	3	141
22:30:00	32	17	16	16	25	22	11	139
22:45:00	20	14	8	23	22	27	7	121
23:00:00	17	9	12	7	17	30	4	96
23:15:00	13	12	9	12	18	15	7	86
23:30:00	8	4	4	9	19	14	8	66
23:45:00	5	7	6	8	11	14	1	52
Grand Total	13362	6990	7391	7376	7642	5530	4043	52334

18:45:00	104.60	90.71
19:00:00	100.00	87.29
19:15:00	94.00	79.29
19:30:00	70.20	63.14
19:45:00	50.40	45.57
20:00:00	46.00	43.14
20:15:00	53.80	48.14
20:30:00	37.00	35.14
20:45:00	32.60	28.57
21:00:00	34.60	32.43
21:15:00	31.00	31.57
21:30:00	27.80	26.00
21:45:00	32.60	30.14
22:00:00	29.00	27.43
22:15:00	22.40	20.14
22:30:00	21.20	19.86
22:45:00	17.40	17.29
23:00:00	12.40	13.71
23:15:00	12.80	12.29
23:30:00	8.80	9.43
23:45:00	7.40	7.43
Grand Total	8552.20	7476.29

Class	Axis	Access	Description	Parameters	Dimension Details	Accesses
11	017	3	Short - Car sign (in)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
12	017	3	Short - Car sign (out)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
13	017	3	Short - Car sign (in)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
14	017	3	Short - Car sign (out)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
15	017	3	Short - Car sign (in)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
16	017	3	Short - Car sign (out)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
17	017	3	Short - Car sign (in)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
18	017	3	Short - Car sign (out)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
19	017	3	Short - Car sign (in)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
20	017	3	Short - Car sign (out)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
21	017	3	Short - Car sign (in)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
22	017	3	Short - Car sign (out)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
23	017	3	Short - Car sign (in)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
24	017	3	Short - Car sign (out)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
25	017	3	Short - Car sign (in)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
26	017	3	Short - Car sign (out)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
27	017	3	Short - Car sign (in)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
28	017	3	Short - Car sign (out)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
29	017	3	Short - Car sign (in)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light
30	017	3	Short - Car sign (out)	011+01, 012+01, 013+01	011+01, 012+01, 013+01	Light

**Week Commencing**

11 October 2021

18 October 2021

**Class**

1

2

3

4

5

**Compass direction**

N

S

**Weekday**

Monday

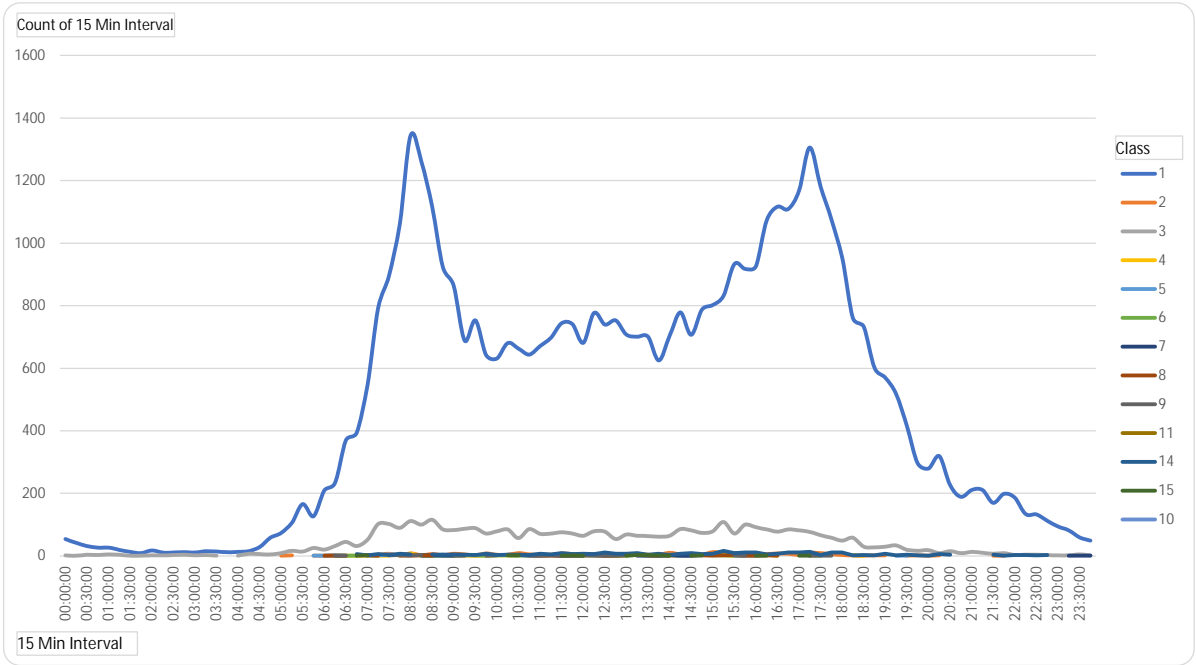
Tuesday

Wednesday

Thursday

Friday

Saturday



Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	11	14	15	10	rand Tot
00:00:00	54			2										1	57
00:15:00	42			1		1									44
00:30:00	32			4											36
00:45:00	27			3											30
01:00:00	27			5											32
01:15:00	20			4											24
01:30:00	13			1						1					15
01:45:00	9			1											10
02:00:00	18			2					1						21
02:15:00	11			2											13
02:30:00	11			3											14
02:45:00	12			4								1			17
03:00:00	11			2											13
03:15:00	15			3											18
03:30:00	14			1											15
03:45:00	12														12
04:00:00	13			1								1			15
04:15:00	16			7											23

Row Labels	07-19	06-22	06-00	00-00
Monday	11508	12902	13075	13362
Tuesday	6057	6755	6870	6990
Wednesday	6393	7161	7262	7391
Thursday	6410	7123	7234	7376
Friday	6623	7353	7510	7642
Saturday	4732	5233	5419	5530
Sunday	3442	3855	3905	4043
Grand Total	45165	50382	51275	52334

Row Labels	Average 5 Days	1 of Average 7 D
00:00:00	4.80	8.14
00:15:00	4.60	6.29
00:30:00	4.00	5.14
00:45:00	3.60	4.29
01:00:00	2.40	4.57
01:15:00	2.60	3.43
01:30:00	1.20	2.14
01:45:00	0.60	1.43
02:00:00	3.00	3.00
02:15:00	1.20	1.86
02:30:00	1.80	2.00
02:45:00	2.40	2.43
03:00:00	2.00	1.86
03:15:00	2.80	2.57
03:30:00	2.20	2.14
03:45:00	1.20	1.71
04:00:00	2.20	2.14
04:15:00	4.00	3.29
04:30:00	5.00	5.00







Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

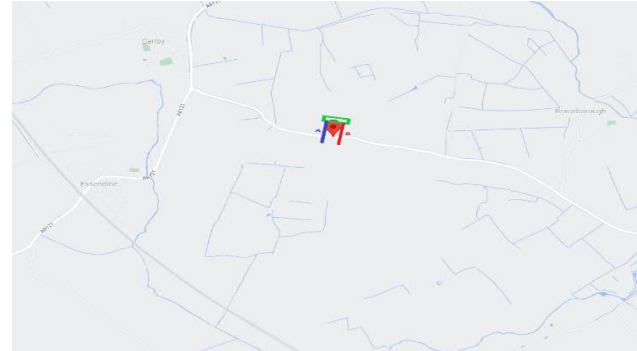
Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	13362	52.06	58.40	62.79	1300	9.73%	195	1.46%	53	0.40%
Tuesday	6990	52.26	58.30	62.90	688	9.84%	127	1.82%	39	0.56%
Wednesday	7391	52.64	58.50	63.10	751	10.16%	126	1.70%	37	0.50%
Thursday	7376	52.14	58.30	63.20	732	9.92%	136	1.84%	48	0.65%
Friday	7642	52.74	58.90	63.10	871	11.40%	137	1.79%	46	0.60%
Saturday	5530	52.74	59.40	64.26	706	12.77%	123	2.22%	31	0.56%
Sunday	4043	52.80	59.50	64.30	535	13.23%	100	2.47%	26	0.64%
5day	42761	52.33	58.50	63.00	4342	10.15%	721	1.69%	223	0.52%
7day	52334	52.41	58.60	63.20	5583	10.67%	944	1.80%	280	0.54%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 22



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

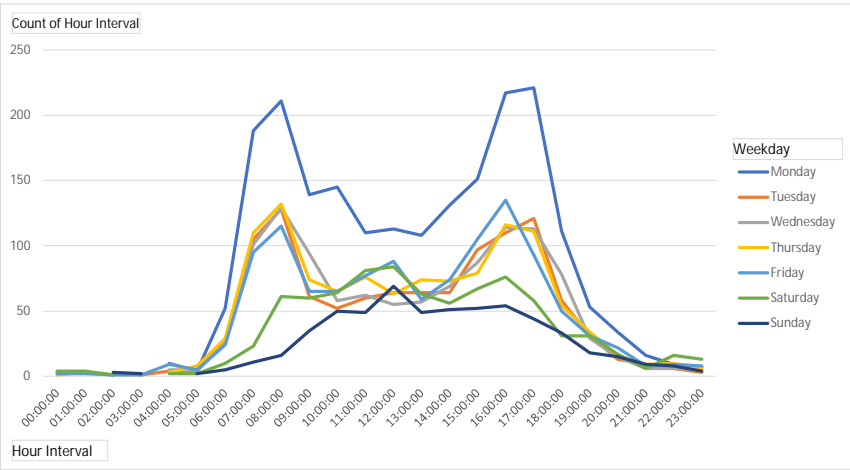
Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
14
15

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
7936	0.67%	0.10%	0.06%

Count of	Compass direction	Column Labels	Grand Total
Row Labels	W	E	
11 October 2021	3459	3493	6952
18 October 2021	475	509	984
Grand Total	3934	4002	7936



Count of	Compass direction	Column Labels
Row Labels	W	E
Monday	996	1041
Tuesday	547	535
Wednesday	564	549
Thursday	576	570
Friday	569	574
Saturday	401	429
Sunday	281	304
Grand Total	3934	4002

Average of Speed	Column Labels	
Row Labels	W	E
Monday	40.36	42.28
Tuesday	39.31	42.48
Wednesday	40.12	43.37
Thursday	40.22	43.05
Friday	39.23	42.58
Saturday	38.95	40.64
Sunday	40.02	41.98
Grand Total	39.83	42.41

% Over PSL	% Over ACPO	% Over DFT
0.67%	0.10%	0.06%

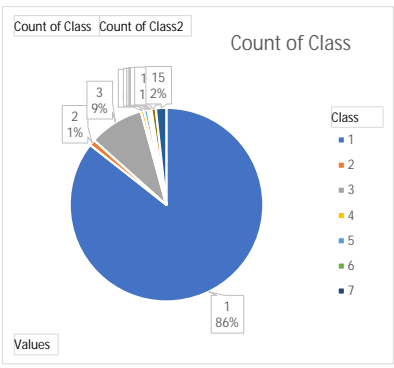
vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)



Row Labels	Count of Class	Count of Class2
1	6792	85.58%
2	80	1.01%
3	727	9.16%
4	41	0.52%
5	49	0.62%
6	11	0.14%
7	18	0.23%
8	6	0.08%
9	12	0.15%
14	60	0.76%
15	140	1.76%
Grand Total	7936	100.00%

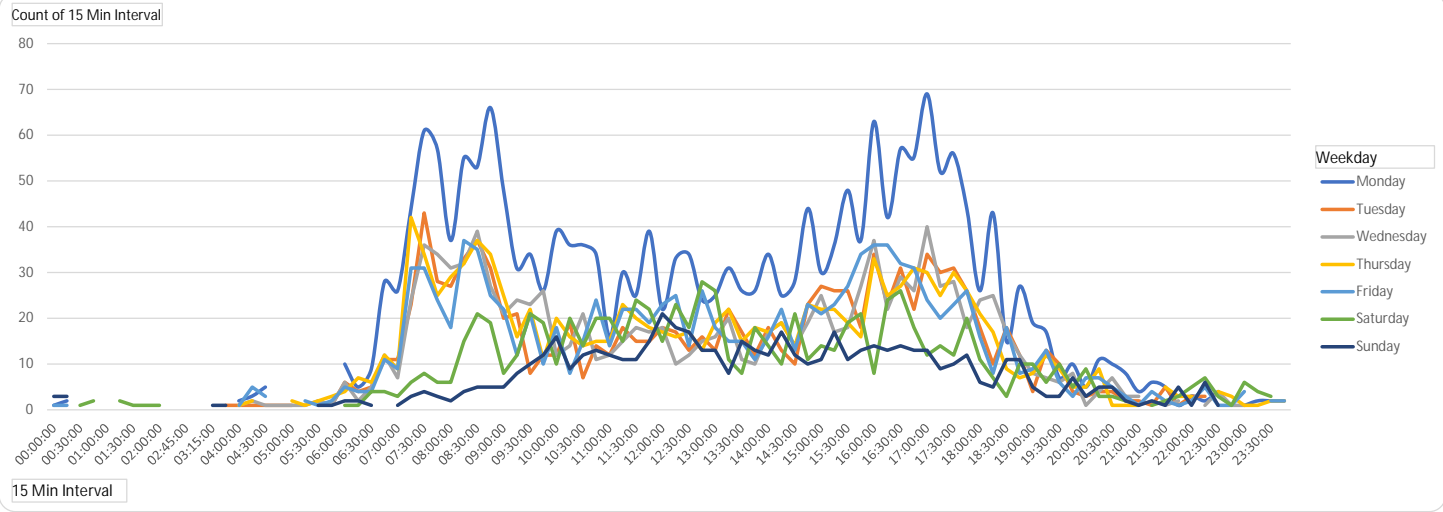


Week Commencing
11 October 2021
18 October 2021

Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
14

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							Grand Total
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
00:00:00	1	1		1	1	1	3	8
00:15:00	2				1		3	6
00:30:00						1		1
00:45:00						2		2
01:00:00	3				2			5
01:15:00						2		2
01:30:00				3		1		4
01:45:00						1		1
02:00:00	1					1	1	3
02:15:00					1			1
02:45:00							2	2
03:00:00					1			1
03:15:00							1	1
03:30:00		1					1	2
04:00:00	2	1	1	1	1			6
04:15:00	3	1	2	2	5			13
04:30:00	5	1	1		3	2		12
04:45:00		1	1					2
05:00:00	1	1	1	2		1		6
05:15:00			1	1	2			4
05:30:00	3	2	2	2	1	1	1	12
05:45:00		1	1	3	2		1	8
06:00:00	10	6	6	4	5	1	2	34
06:15:00	5	4	2	7	4	1	2	25

Row Labels	07-19	06-22	06-06	00-00
Monday	1845	2000	2016	2037
Tuesday	984	1063	1072	1082
Wednesday	1017	1092	1103	1113
Thursday	1027	1115	1131	1146
Friday	1021	1106	1123	1143
Saturday	724	788	817	830
Sunday	513	560	572	585
<b>Grand Total</b>	<b>7131</b>	<b>7724</b>	<b>7834</b>	<b>7936</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	0.80	1.14
00:15:00	0.60	0.86
00:30:00	0.00	0.14
00:45:00	0.00	0.29
01:00:00	1.00	0.71
01:15:00	0.00	0.29
01:30:00	0.60	0.57
01:45:00	0.00	0.14
02:00:00	0.20	0.43
02:15:00	0.20	0.14
02:45:00	0.00	0.29
03:00:00	0.20	0.14
03:15:00	0.00	0.14
03:30:00	0.20	0.29
04:00:00	1.20	0.86
04:15:00	2.60	1.86
04:30:00	2.00	1.71
04:45:00	0.40	0.29
05:00:00	1.00	0.86
05:15:00	0.80	0.57
05:30:00	2.00	1.71
05:45:00	1.40	1.14
06:00:00	6.20	4.86
06:15:00	4.40	3.57
06:30:00	5.80	4.86

06:30:00	9	5	5	6	4	4	1	34
06:45:00	28	11	12	12	11	4		78
07:00:00	26	11	7	9	9	3	1	66
07:15:00	44	23	24	42	31	6	3	173
07:30:00	61	43	36	34	31	8	4	217
07:45:00	57	28	34	25	24	6	3	177
08:00:00	37	27	31	29	18	6	2	150
08:15:00	55	33	32	32	37	15	4	208
08:30:00	53	37	39	37	35	21	5	227
08:45:00	66	31	27	34	25	19	5	207
09:00:00	48	20	21	25	22	8	5	149
09:15:00	31	21	24	16	12	12	8	124
09:30:00	34	8	23	22	21	21	10	139
09:45:00	26	12	26	11	10	19	12	116
10:00:00	39	12	12	20	18	10	16	127
10:15:00	36	19	14	16	8	20	9	122
10:30:00	36	7	21	14	15	14	12	119
10:45:00	34	14	11	15	24	20	13	131
11:00:00	16	12	12	15	14	20	12	101
11:15:00	30	18	15	23	22	15	11	134
11:30:00	25	15	18	20	22	24	11	135
11:45:00	39	15	17	18	19	22	15	145
12:00:00	22	18	18	17	23	15	21	134
12:15:00	33	17	10	16	25	23	18	142
12:30:00	34	13	12	17	14	18	17	125
12:45:00	24	16	15	13	26	28	13	135
13:00:00	25	13	16	19	18	26	13	130
13:15:00	31	22	20	22	15	11	8	129
13:30:00	26	17	11	15	15	8	15	107
13:45:00	26	12	10	18	11	18	13	108
14:00:00	34	18	17	17	16	14	12	128
14:15:00	25	13	19	19	22	10	17	125
14:30:00	28	10	14	14	13	21	12	112
14:45:00	44	23	19	23	23	11	10	153
15:00:00	30	27	25	22	21	14	11	150
15:15:00	36	26	17	22	23	13	17	154
15:30:00	48	26	18	19	27	19	11	168
15:45:00	37	18	27	16	34	21	13	166
16:00:00	63	34	37	33	36	8	14	225
16:15:00	42	23	22	25	36	24	13	185
16:30:00	57	31	29	27	32	26	14	216
16:45:00	55	22	26	31	31	18	13	196
17:00:00	69	34	40	30	24	12	13	222
17:15:00	52	30	27	25	20	14	9	177
17:30:00	56	31	28	30	23	12	10	190
17:45:00	44	26	18	26	26	20	12	172
18:00:00	26	18	24	21	16	11	6	122
18:15:00	43	10	25	17	8	7	5	115
18:30:00	15	18	17	9	18	3	11	91
18:45:00	27	12	12	7	8	10	11	87

06:45:00	14.80	11.14
07:00:00	12.40	9.43
07:15:00	32.80	24.71
07:30:00	41.00	31.00
07:45:00	33.60	25.29
08:00:00	28.40	21.43
08:15:00	37.80	29.71
08:30:00	40.20	32.43
08:45:00	36.60	29.57
09:00:00	27.20	21.29
09:15:00	20.80	17.71
09:30:00	21.60	19.86
09:45:00	17.00	16.57
10:00:00	20.20	18.14
10:15:00	18.60	17.43
10:30:00	18.60	17.00
10:45:00	19.60	18.71
11:00:00	13.80	14.43
11:15:00	21.60	19.14
11:30:00	20.00	19.29
11:45:00	21.60	20.71
12:00:00	19.60	19.14
12:15:00	20.20	20.29
12:30:00	18.00	17.86
12:45:00	18.80	19.29
13:00:00	18.20	18.57
13:15:00	22.00	18.43
13:30:00	16.80	15.29
13:45:00	15.40	15.43
14:00:00	20.40	18.29
14:15:00	19.60	17.86
14:30:00	15.80	16.00
14:45:00	26.40	21.86
15:00:00	25.00	21.43
15:15:00	24.80	22.00
15:30:00	27.60	24.00
15:45:00	26.40	23.71
16:00:00	40.60	32.14
16:15:00	29.60	26.43
16:30:00	35.20	30.86
16:45:00	33.00	28.00
17:00:00	39.40	31.71
17:15:00	30.80	25.29
17:30:00	33.60	27.14
17:45:00	28.00	24.57
18:00:00	21.00	17.43
18:15:00	20.60	16.43
18:30:00	15.40	13.00
18:45:00	13.20	12.43
19:00:00	9.60	9.00

19:00:00	19	4	8	8	9	10	5	63
19:15:00	17	13	7	12	13	6	3	71
19:30:00	7	10	6	9	6	10	3	51
19:45:00	10	4	8	5	3	5	7	42
20:00:00	5	3	1	5	7	9	3	33
20:15:00	11	4	4	9	7	3	5	43
20:30:00	10	4	7	1	5	3	5	35
20:45:00	8	2	3	1	3	2	2	21
21:00:00	4	2	3	1	1		1	12
21:15:00	6	1			4	1	2	14
21:30:00	5	5	1	5	2	2	1	21
21:45:00	1	1	2	3	1	3	5	16
22:00:00	3	3		3	2	5	1	17
22:15:00	2	3	1		5	7	6	24
22:30:00	4		4	4	1	3	1	17
22:45:00			1	3	1	1		6
23:00:00	1	2	1	1	4	6	3	18
23:15:00	2			1		4		7
23:30:00	2		4	2	2	3		13
23:45:00	2	1		2	2		1	8
Grand Total	2037	1082	1113	1146	1143	830	585	7936

19:15:00	12.40	10.14
19:30:00	7.60	7.29
19:45:00	6.00	6.00
20:00:00	4.20	4.71
20:15:00	7.00	6.14
20:30:00	5.40	5.00
20:45:00	3.40	3.00
21:00:00	2.20	1.71
21:15:00	2.20	2.00
21:30:00	3.60	3.00
21:45:00	1.60	2.29
22:00:00	2.20	2.43
22:15:00	2.20	3.43
22:30:00	2.60	2.43
22:45:00	1.00	0.86
23:00:00	1.80	2.57
23:15:00	0.60	1.00
23:30:00	2.00	1.86
23:45:00	1.40	1.14
Grand Total	1304.20	1133.71



Class	Area	Reason	Description	Parameters	Dismissal Details	Dismissal
11	017	3	Short - Car sign (in)	011+017, 012+013, 014+015	017	Light
12	017	3	Short - Car sign (out)	011+017, 012+013, 014+015	017	Light
13	017	3	Short - Car sign (in)	011+017, 012+013, 014+015	017	Light
14	017	3	Short - Car sign (out)	011+017, 012+013, 014+015	017	Light
15	017	3	Short - Car sign (in)	011+017, 012+013, 014+015	017	Light
16	017	3	Short - Car sign (out)	011+017, 012+013, 014+015	017	Light
17	017	3	Short - Car sign (in)	011+017, 012+013, 014+015	017	Light
18	017	3	Short - Car sign (out)	011+017, 012+013, 014+015	017	Light
19	017	3	Short - Car sign (in)	011+017, 012+013, 014+015	017	Light
20	017	3	Short - Car sign (out)	011+017, 012+013, 014+015	017	Light
21	017	3	Short - Car sign (in)	011+017, 012+013, 014+015	017	Light
22	017	3	Short - Car sign (out)	011+017, 012+013, 014+015	017	Light
23	017	3	Short - Car sign (in)	011+017, 012+013, 014+015	017	Light
24	017	3	Short - Car sign (out)	011+017, 012+013, 014+015	017	Light
25	017	3	Short - Car sign (in)	011+017, 012+013, 014+015	017	Light
26	017	3	Short - Car sign (out)	011+017, 012+013, 014+015	017	Light
27	017	3	Short - Car sign (in)	011+017, 012+013, 014+015	017	Light
28	017	3	Short - Car sign (out)	011+017, 012+013, 014+015	017	Light
29	017	3	Short - Car sign (in)	011+017, 012+013, 014+015	017	Light
30	017	3	Short - Car sign (out)	011+017, 012+013, 014+015	017	Light

Week Commencing

11 October 2021

18 October 2021

Compass direction

E

W

Class

1

2

3

4

5

Weekday

Monday

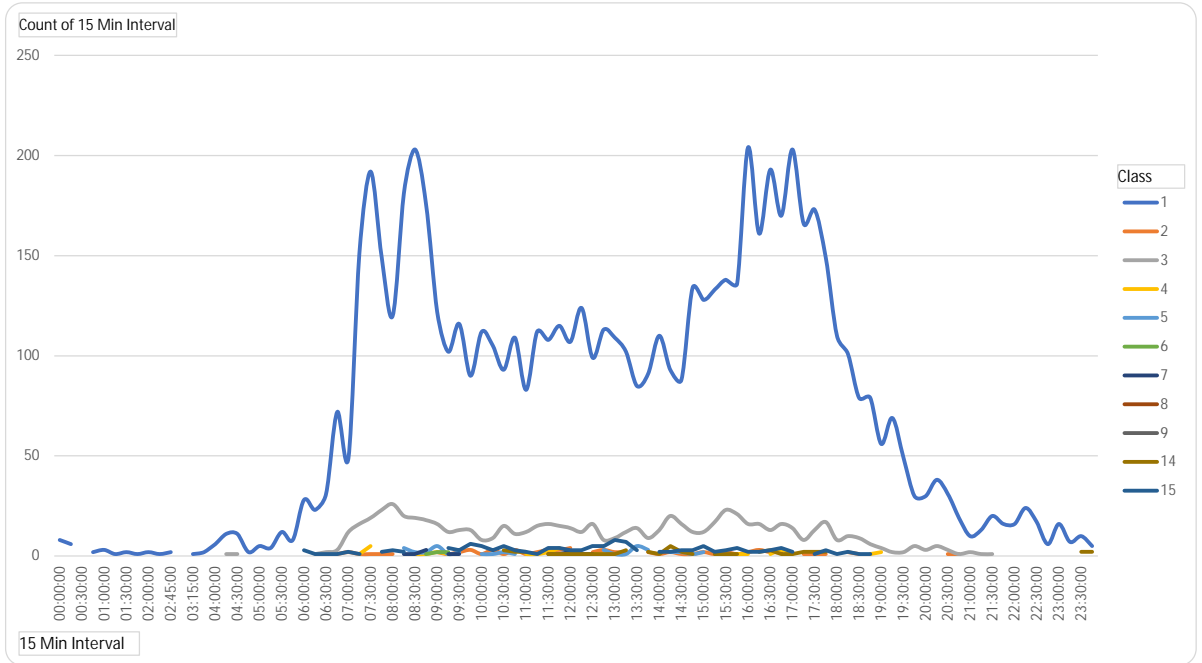
Tuesday

Wednesday

Thursday

Friday

Saturday



Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	14	15	ind Tot
00:00:00	8												8
00:15:00	6												6
00:30:00				1									1
00:45:00	2												2
01:00:00	3											2	5
01:15:00	1		1										2
01:30:00	2											2	4
01:45:00	1												1
02:00:00	2												3
02:15:00	1												1
02:45:00	2												2
03:00:00				1									1
03:15:00	1												1
03:30:00	2												2
04:00:00	6												6
04:15:00	11			1							1		13
04:30:00	11			1									12
04:45:00	2												2

Row Labels	07-19	06-22	06-00	00-00
Monday	1845	2000	2016	2037
Tuesday	984	1063	1072	1082
Wednesday	1017	1092	1103	1113
Thursday	1027	1115	1131	1146
Friday	1021	1106	1123	1143
Saturday	724	788	817	830
Sunday	513	560	572	585
Grand Total	7131	7724	7834	7936

Row Labels	Average 5 Days	1 of Average 7 D
00:00:00	0.80	1.14
00:15:00	0.60	0.86
00:30:00	0.00	0.14
00:45:00	0.00	0.29
01:00:00	1.00	0.71
01:15:00	0.00	0.29
01:30:00	0.60	0.57
01:45:00	0.00	0.14
02:00:00	0.20	0.43
02:15:00	0.20	0.14
02:45:00	0.00	0.29
03:00:00	0.20	0.14
03:15:00	0.00	0.14
03:30:00	0.20	0.29
04:00:00	1.20	0.86
04:15:00	2.60	1.86
04:30:00	2.00	1.71
04:45:00	0.40	0.29
05:00:00	1.00	0.86

05:00:00	5		1							6			
05:15:00	4									4			
05:30:00	12									12			
05:45:00	8									8			
06:00:00	28		3						3	34			
06:15:00	23			1					1	25			
06:30:00	31			2					1	34			
06:45:00	72		1	3				1	1	78			
07:00:00	49		2	12				1	2	66			
07:15:00	151		1	16	1	2		1	1	173			
07:30:00	192		1	19	5					217			
07:45:00	149		1	23				1	1	2	177		
08:00:00	120		1	26						3	150		
08:15:00	181			20		4		1		2	208		
08:30:00	203		1	19	1	2		1			227		
08:45:00	176			18	1	2	1	3	1	1	4	207	
09:00:00	122		2	16	2	5	2					149	
09:15:00	102		1	12	1	1	2	1			4	124	
09:30:00	116		2	13		2		1	2	3	139		
09:45:00	90		3	13	2				2	6	116		
10:00:00	112		1	8		1				5	127		
10:15:00	105		3	9		1		1		3	122		
10:30:00	93		1	15		2			3	5	119		
10:45:00	109		3	11		1	1		1	2	3	131	
11:00:00	83		1	12	1					2	2	101	
11:15:00	112		2	15	1	2		1			1	134	
11:30:00	108		3	16	2				1	1	4	135	
11:45:00	115		3	15	4	1		1	1	1	4	145	
12:00:00	107		4	14			1	2	1	1	1	3	134
12:15:00	124			12				1	1	1	3	142	
12:30:00	99		2	16	1			1		1	5	125	
12:45:00	113		3	8	1	3			1	1	5	135	
13:00:00	109		2	9		1				1	8	130	
13:15:00	102		2	12	1	1		1		3	7	129	
13:30:00	85			14		5					3	107	
13:45:00	91		2	9	1	3				2		108	
14:00:00	110		1	13				1		1	2	128	
14:15:00	93		2	20	1	2				5	2	125	
14:30:00	88		1	16		2				2	3	112	
14:45:00	134		1	12	1	1				1	3	153	
15:00:00	128		2	12		2	1				5	150	
15:15:00	133		1	17						1	2	154	
15:30:00	138		2	23			1			1	3	168	
15:45:00	136		1	21	1	1		1		1	4	166	
16:00:00	204		2	16	1						2	225	
16:15:00	161		3	16					1	2	2	185	
16:30:00	193		2	13	1		1			3	3	216	
16:45:00	170		2	16	3					1	4	196	
17:00:00	203			14	1				1	1	2	222	

05:15:00	0.80	0.57
05:30:00	2.00	1.71
05:45:00	1.40	1.14
06:00:00	6.20	4.86
06:15:00	4.40	3.57
06:30:00	5.80	4.86
06:45:00	14.80	11.14
07:00:00	12.40	9.43
07:15:00	32.80	24.71
07:30:00	41.00	31.00
07:45:00	33.60	25.29
08:00:00	28.40	21.43
08:15:00	37.80	29.71
08:30:00	40.20	32.43
08:45:00	36.60	29.57
09:00:00	27.20	21.29
09:15:00	20.80	17.71
09:30:00	21.60	19.86
09:45:00	17.00	16.57
10:00:00	20.20	18.14
10:15:00	18.60	17.43
10:30:00	18.60	17.00
10:45:00	19.60	18.71
11:00:00	13.80	14.43
11:15:00	21.60	19.14
11:30:00	20.00	19.29
11:45:00	21.60	20.71
12:00:00	19.60	19.14
12:15:00	20.20	20.29
12:30:00	18.00	17.86
12:45:00	18.80	19.29
13:00:00	18.20	18.57
13:15:00	22.00	18.43
13:30:00	16.80	15.29
13:45:00	15.40	15.43
14:00:00	20.40	18.29
14:15:00	19.60	17.86
14:30:00	15.80	16.00
14:45:00	26.40	21.86
15:00:00	25.00	21.43
15:15:00	24.80	22.00
15:30:00	27.60	24.00
15:45:00	26.40	23.71
16:00:00	40.60	32.14
16:15:00	29.60	26.43
16:30:00	35.20	30.86
16:45:00	33.00	28.00
17:00:00	39.40	31.71
17:15:00	30.80	25.29

17:15:00	166	1	8							2	177	
17:30:00	173	1	13							2	1	190
17:45:00	149	1	17							2	3	172
18:00:00	110		8	1	2						1	122
18:15:00	101	2	10								2	115
18:30:00	79	1	9							1	1	91
18:45:00	79		6	1							1	87
19:00:00	56		4	2						1		63
19:15:00	69		2									71
19:30:00	49		2									51
19:45:00	30	1	5	2						4		42
20:00:00	30		3									33
20:15:00	38		5									43
20:30:00	31	1	3									35
20:45:00	19	1	1									21
21:00:00	10		2									12
21:15:00	13		1									14
21:30:00	20		1									21
21:45:00	16											16
22:00:00	16		1									17
22:15:00	24											24
22:30:00	17											17
22:45:00	6											6
23:00:00	16		2									18
23:15:00	7											7
23:30:00	10		1							2		13
23:45:00	5						1		2			8
Grand Total	6792	80	727	41	49	11	18	6	12	60	140	###

17:30:00	33.60	27.14
17:45:00	28.00	24.57
18:00:00	21.00	17.43
18:15:00	20.60	16.43
18:30:00	15.40	13.00
18:45:00	13.20	12.43
19:00:00	9.60	9.00
19:15:00	12.40	10.14
19:30:00	7.60	7.29
19:45:00	6.00	6.00
20:00:00	4.20	4.71
20:15:00	7.00	6.14
20:30:00	5.40	5.00
20:45:00	3.40	3.00
21:00:00	2.20	1.71
21:15:00	2.20	2.00
21:30:00	3.60	3.00
21:45:00	1.60	2.29
22:00:00	2.20	2.43
22:15:00	2.20	3.43
22:30:00	2.60	2.43
22:45:00	1.00	0.86
23:00:00	1.80	2.57
23:15:00	0.60	1.00
23:30:00	2.00	1.86
23:45:00	1.40	1.14
Grand Total	1304.20	1133.71

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	2037	41.34	48.80	53.60	10	0.49%	0	0.00%	0	0.00%
Tuesday	1082	40.87	48.37	53.00	3	0.28%	0	0.00%	0	0.00%
Wednesday	1113	41.73	49.70	54.04	8	0.72%	3	0.27%	1	0.09%
Thursday	1146	41.63	48.90	53.78	10	0.87%	0	0.00%	0	0.00%
Friday	1143	40.91	48.80	53.20	12	1.05%	2	0.17%	1	0.09%
Saturday	830	39.83	47.97	52.80	6	0.72%	0	0.00%	0	0.00%
Sunday	585	41.04	49.40	53.88	4	0.68%	3	0.51%	3	0.51%
5day	6521	41.30	48.90	53.60	43	0.66%	5	0.08%	2	0.03%
7day	7936	41.13	48.80	53.60	53	0.67%	8	0.10%	5	0.06%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 23



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

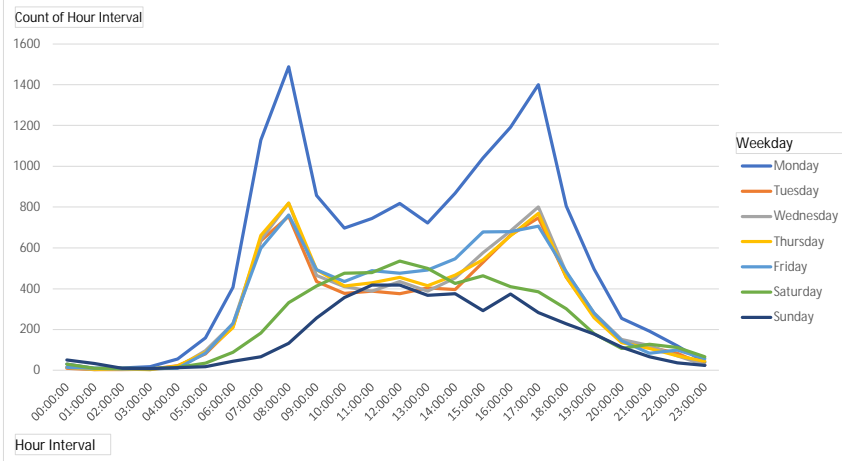
Week Commencing
18 October 2021
11 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
10
14
15

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
53511	6.71%	0.87%	0.21%

Count of	Compass direction	Column Labels		
Row Labels	N	S	Grand Total	
11 October 2021	23820	23035	46855	
18 October 2021	3412	3244	6656	
Grand Total	27232	26279	53511	



Count of	Compass direction	Column Labels	
Row Labels	N	S	
Monday	6889	6665	
Tuesday	3622	3511	
Wednesday	3846	3711	
Thursday	3805	3741	
Friday	4012	3852	
Saturday	2925	2767	
Sunday	2133	2032	
Grand Total	27232	26279	

Average of Speed	Column Labels	
Row Labels	N	S
Monday	48.41	51.53
Tuesday	47.88	51.83
Wednesday	48.31	52.07
Thursday	48.47	51.53
Friday	47.90	52.12
Saturday	49.16	52.99
Sunday	49.29	52.95
Grand Total	48.41	52.00

% Over PSL	% Over ACPO	% Over DFT
6.71%	0.87%	0.21%

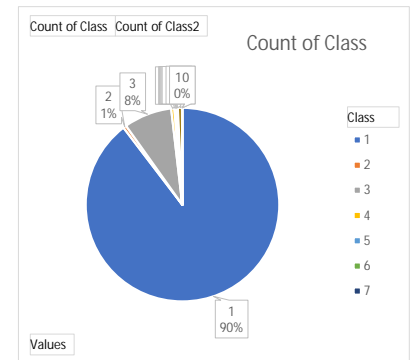
vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)



Row Labels	Count of Class	Count of Class2
1	47947	89.60%
2	282	0.53%
3	4296	8.03%
4	260	0.49%
5	111	0.21%
6	31	0.06%
7	40	0.07%
8	67	0.13%
9	67	0.13%
14	387	0.72%
15	21	0.04%
10	2	0.00%
Grand Total	53511	100.00%

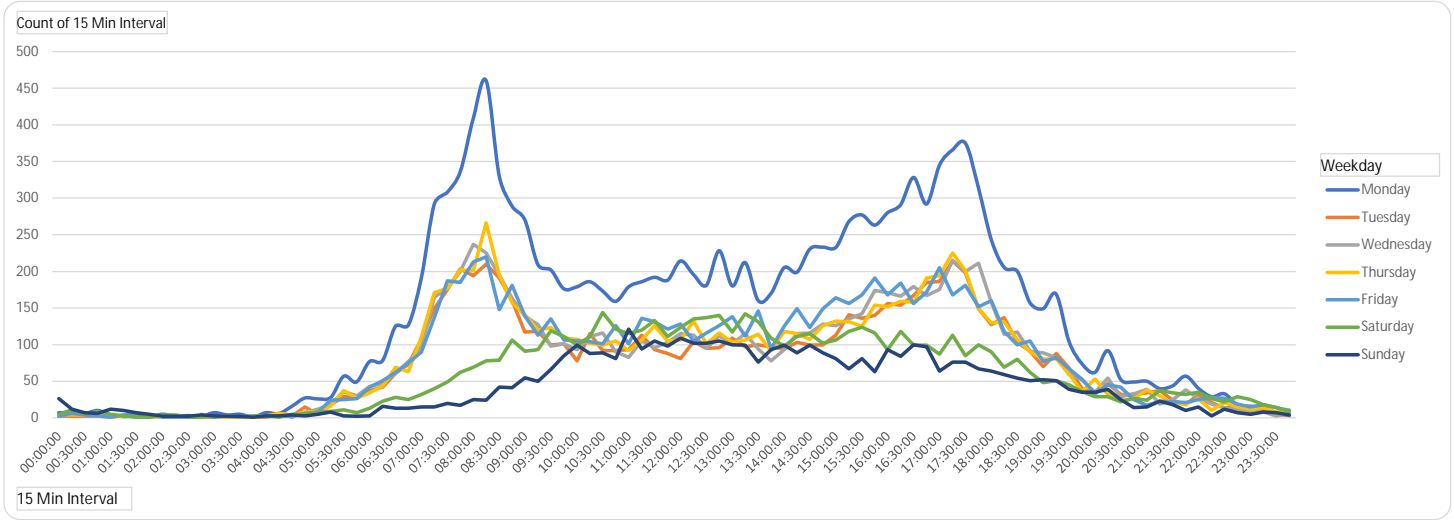


Week Commencing
11 October 2021
18 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
10

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Grand Total
00:00:00	7	3	3	4	2	5	26	50
00:15:00	7	2	6	4	6	11	12	48
00:30:00	6	2	3	4	4	5	7	31
00:45:00	10	3	2	3	3	9	6	36
01:00:00	4	4		1	1	5	12	27
01:15:00	2		2	3	4	3	10	24
01:30:00	3				5	1	7	16
01:45:00	1		2	1		1	5	10
02:00:00	5	1	1	2	1	4	2	16
02:15:00	2		3	2	1	4	2	14
02:30:00	3			1	1	1	2	8
02:45:00	2	3	5	1	3	1	4	19
03:00:00	7	1	1	1	1	3	3	17
03:15:00	4	3	3	1	3	2	2	18
03:30:00	5	1		1	2	1	2	12
03:45:00	1	1		1	2	3	1	9
04:00:00	7	1	1	3		3	3	18
04:15:00	6	4	6	6	2	1	3	28
04:30:00	16	2	1	4	2	5	4	34
04:45:00	27	15	7	8	6	5	3	71
05:00:00	26	5	12	9	8	8	5	73
05:15:00	28	18	18	16	24	9	8	121
05:30:00	57	29	36	37	25	11	3	198
05:45:00	49	28	30	27	26	7	2	169

Row Labels	07-19	06-22	06-00	00-00
Monday	11761	13110	13269	13554
Tuesday	6162	6898	7007	7133
Wednesday	6537	7319	7415	7557
Thursday	6580	7289	7406	7546
Friday	6839	7576	7732	7864
Saturday	4903	5406	5584	5692
Sunday	3569	3970	4031	4165
<b>Grand Total</b>	<b>46351</b>	<b>51568</b>	<b>52444</b>	<b>53511</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	3.80	7.14
00:15:00	5.00	6.86
00:30:00	3.80	4.43
00:45:00	4.20	5.14
01:00:00	2.00	3.86
01:15:00	2.20	3.43
01:30:00	1.60	2.29
01:45:00	0.80	1.43
02:00:00	2.00	2.29
02:15:00	1.60	2.00
02:30:00	1.00	1.14
02:45:00	2.80	2.71
03:00:00	2.20	2.43
03:15:00	2.80	2.57
03:30:00	1.80	1.71
03:45:00	1.00	1.29
04:00:00	2.40	2.57
04:15:00	4.80	4.00
04:30:00	5.00	4.86
04:45:00	12.60	10.14
05:00:00	12.00	10.43
05:15:00	20.80	17.29
05:30:00	36.80	28.29
05:45:00	32.00	24.14
06:00:00	46.60	35.57

06:00:00	77	37	43	34	42	13	3	249
06:15:00	78	42	47	44	51	23	16	301
06:30:00	125	61	61	69	62	28	13	419
06:45:00	127	73	77	63	75	25	13	453
07:00:00	192	108	97	111	90	32	15	645
07:15:00	292	149	165	171	137	40	15	969
07:30:00	308	175	177	177	187	49	20	1093
07:45:00	336	203	200	202	185	62	17	1205
08:00:00	409	194	237	201	213	69	25	1348
08:15:00	460	210	225	266	220	78	24	1483
08:30:00	330	191	195	195	148	79	42	1180
08:45:00	289	160	163	157	181	106	41	1097
09:00:00	270	117	139	141	139	91	55	952
09:15:00	209	118	127	120	113	93	50	830
09:30:00	202	100	98	123	135	119	66	843
09:45:00	176	101	101	109	106	111	85	789
10:00:00	179	78	93	107	105	100	99	761
10:15:00	186	115	111	102	104	111	88	817
10:30:00	173	92	116	99	101	144	89	814
10:45:00	159	92	90	105	126	121	81	774
11:00:00	179	93	83	92	101	115	121	784
11:15:00	186	113	105	106	136	120	94	860
11:30:00	192	93	96	126	131	133	105	876
11:45:00	188	88	103	105	121	111	98	814
12:00:00	214	81	115	106	128	123	109	876
12:15:00	196	104	113	132	105	135	102	887
12:30:00	181	95	95	101	116	137	102	827
12:45:00	228	96	112	116	126	140	105	923
13:00:00	180	109	101	103	138	117	100	848
13:15:00	212	97	115	106	112	142	99	883
13:30:00	160	100	94	114	146	131	76	821
13:45:00	170	97	78	92	95	109	93	734
14:00:00	205	94	93	118	125	98	99	832
14:15:00	199	103	115	115	149	111	89	881
14:30:00	231	99	116	107	123	115	99	890
14:45:00	233	100	128	126	149	102	89	927
15:00:00	233	113	126	132	164	106	81	955
15:15:00	268	141	135	131	156	118	67	1016
15:30:00	277	136	142	125	168	124	81	1053
15:45:00	263	140	174	154	191	116	63	1101
16:00:00	280	156	171	152	168	93	93	1113
16:15:00	291	154	166	159	184	118	84	1156
16:30:00	328	167	179	158	156	99	100	1187
16:45:00	292	185	167	191	172	99	97	1203
17:00:00	345	186	175	194	205	87	64	1256
17:15:00	366	214	215	225	168	113	76	1377
17:30:00	375	198	200	201	181	85	76	1316
17:45:00	314	149	211	149	152	100	67	1142
18:00:00	243	127	158	130	160	90	64	972
18:15:00	205	137	114	131	118	69	59	833

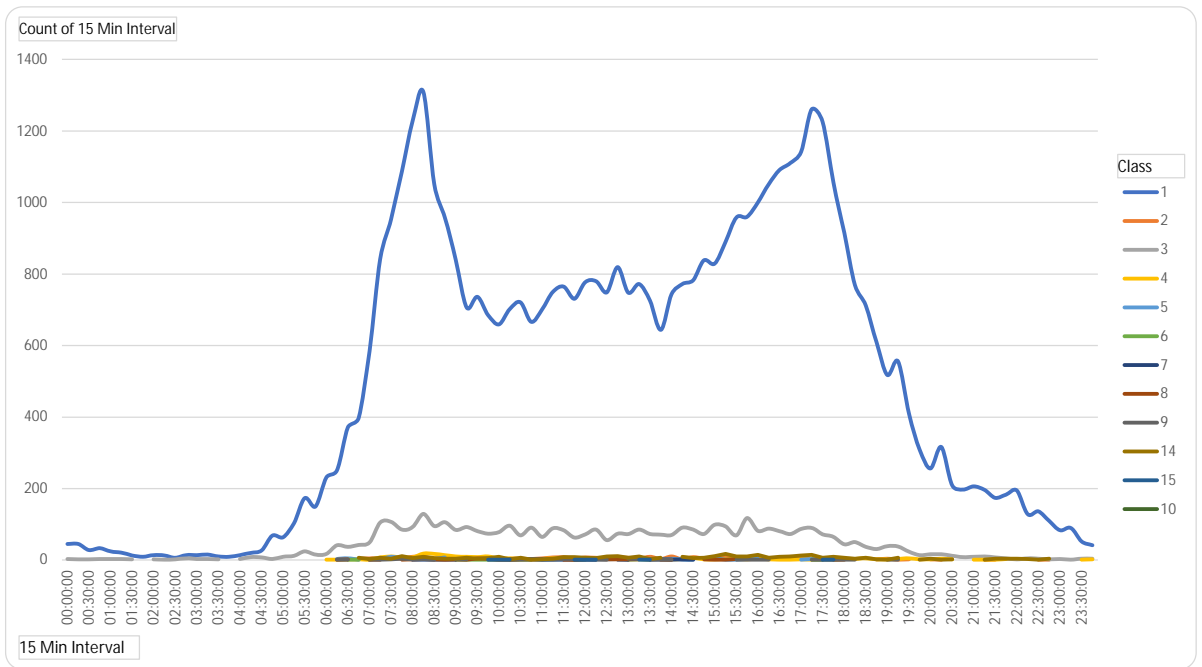
06:15:00	52.40	43.00
06:30:00	75.60	59.86
06:45:00	83.00	64.71
07:00:00	119.60	92.14
07:15:00	182.80	138.43
07:30:00	204.80	156.14
07:45:00	225.20	172.14
08:00:00	250.80	192.57
08:15:00	276.20	211.86
08:30:00	211.80	168.57
08:45:00	190.00	156.71
09:00:00	161.20	136.00
09:15:00	137.40	118.57
09:30:00	131.60	120.43
09:45:00	118.60	112.71
10:00:00	112.40	108.71
10:15:00	123.60	116.71
10:30:00	116.20	116.29
10:45:00	114.40	110.57
11:00:00	109.60	112.00
11:15:00	129.20	122.86
11:30:00	127.60	125.14
11:45:00	121.00	116.29
12:00:00	128.80	125.14
12:15:00	130.00	126.71
12:30:00	117.60	118.14
12:45:00	135.60	131.86
13:00:00	126.20	121.14
13:15:00	128.40	126.14
13:30:00	122.80	117.29
13:45:00	106.40	104.86
14:00:00	127.00	118.86
14:15:00	136.20	125.86
14:30:00	135.20	127.14
14:45:00	147.20	132.43
15:00:00	153.60	136.43
15:15:00	166.20	145.14
15:30:00	169.60	150.43
15:45:00	184.40	157.29
16:00:00	185.40	159.00
16:15:00	190.80	165.14
16:30:00	197.60	169.57
16:45:00	201.40	171.86
17:00:00	221.00	179.43
17:15:00	237.60	196.71
17:30:00	231.00	188.00
17:45:00	195.00	163.14
18:00:00	163.60	138.86
18:15:00	141.00	119.00
18:30:00	125.40	108.71



18:30:00	200	103	117	107	100	80	54	761
18:45:00	157	91	91	90	105	62	51	647
19:00:00	149	70	89	80	77	48	52	565
19:15:00	169	88	82	81	82	51	51	604
19:30:00	104	68	59	60	67	45	39	442
19:45:00	74	40	52	36	53	36	35	326
20:00:00	62	33	35	53	33	29	35	280
20:15:00	92	47	54	32	45	29	39	338
20:30:00	52	32	29	24	42	22	25	226
20:45:00	49	32	33	26	25	27	14	206
21:00:00	50	34	39	38	17	24	15	217
21:15:00	40	37	19	30	23	37	23	209
21:30:00	44	24	25	20	22	34	18	187
21:45:00	57	18	38	19	21	32	10	195
22:00:00	40	32	27	26	25	35	15	200
22:15:00	29	21	19	10	28	26	3	136
22:30:00	33	13	14	21	27	22	12	142
22:45:00	17	18	11	15	19	29	7	116
23:00:00	16	5	8	12	15	25	5	86
23:15:00	14	12	8	14	18	18	8	92
23:30:00	7	4	3	8	14	14	7	57
23:45:00	3	4	6	11	10	9	4	47
Grand Total	13554	7133	7557	7546	7864	5692	4165	53511

18:45:00	106.80	92.43
19:00:00	93.00	80.71
19:15:00	100.40	86.29
19:30:00	71.60	63.14
19:45:00	51.00	46.57
20:00:00	43.20	40.00
20:15:00	54.00	48.29
20:30:00	35.80	32.29
20:45:00	33.00	29.43
21:00:00	35.60	31.00
21:15:00	29.80	29.86
21:30:00	27.00	26.71
21:45:00	30.60	27.86
22:00:00	30.00	28.57
22:15:00	21.40	19.43
22:30:00	21.60	20.29
22:45:00	16.00	16.57
23:00:00	11.20	12.29
23:15:00	13.20	13.14
23:30:00	7.20	8.14
23:45:00	6.80	6.71
Grand Total	8730.80	7644.43

Class	Axis	Access	Description	Parameters	Dimension Details	Access
1	017	0	000 0	001+0.0m, 002+0.0m & access		Light
2	017	0	000 0	001+0.0m, 002+0.0m & access		Light
3	017	0	000 0	001+0.0m, 002+0.0m & access		Light
4	017	0	000 0	001+0.0m, 002+0.0m & access		Light
5	017	0	000 0	001+0.0m, 002+0.0m & access		Light
6	017	0	000 0	001+0.0m, 002+0.0m & access		Light
7	017	0	000 0	001+0.0m, 002+0.0m & access		Light
8	017	0	000 0	001+0.0m, 002+0.0m & access		Light
9	017	0	000 0	001+0.0m, 002+0.0m & access		Light
10	017	0	000 0	001+0.0m, 002+0.0m & access		Light
11	017	0	000 0	001+0.0m, 002+0.0m & access		Light
12	017	0	000 0	001+0.0m, 002+0.0m & access		Light
13	017	0	000 0	001+0.0m, 002+0.0m & access		Light
14	017	0	000 0	001+0.0m, 002+0.0m & access		Light
15	017	0	000 0	001+0.0m, 002+0.0m & access		Light
16	017	0	000 0	001+0.0m, 002+0.0m & access		Light
17	017	0	000 0	001+0.0m, 002+0.0m & access		Light
18	017	0	000 0	001+0.0m, 002+0.0m & access		Light
19	017	0	000 0	001+0.0m, 002+0.0m & access		Light
20	017	0	000 0	001+0.0m, 002+0.0m & access		Light
21	017	0	000 0	001+0.0m, 002+0.0m & access		Light
22	017	0	000 0	001+0.0m, 002+0.0m & access		Light
23	017	0	000 0	001+0.0m, 002+0.0m & access		Light
24	017	0	000 0	001+0.0m, 002+0.0m & access		Light
25	017	0	000 0	001+0.0m, 002+0.0m & access		Light



Week Commencing

11 October 2021

18 October 2021

Compass direction

N

S

Class

1

2

3

4

5

Weekday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	14	15	10	Grand Total
00:00:00	Row Labels	45		3	1									50
00:15:00	Row Labels	45		2		1								48
00:30:00	Row Labels	28		2			1							31
00:45:00	Row Labels	33		3				1						36
01:00:00	Row Labels	24		3										27
01:15:00	Row Labels	21		3										24
01:30:00	Row Labels	13		2						1				16
01:45:00	Row Labels	9						1						10
02:00:00	Row Labels	14		2										16
02:15:00	Row Labels	13		1										14
02:30:00	Row Labels	6		2										8
02:45:00	Row Labels	14		5										19
03:00:00	Row Labels	14		3										17
03:15:00	Row Labels	15		3										18
03:30:00	Row Labels	10		2										12
03:45:00	Row Labels	9												9
04:00:00	Row Labels	14		3						1				18
04:15:00	Row Labels	20		8										28

Row Labels	07-19	06-22	06-00	00-00
Monday	11761	13110	13269	13554
Tuesday	6162	6898	7007	7133
Wednesday	6537	7319	7415	7557
Thursday	6580	7289	7406	7546
Friday	6839	7576	7732	7864
Saturday	4903	5406	5584	5692
Sunday	3569	3970	4031	4165
Grand Total	46351	51568	52444	53511

Row Labels	Average 5 Days	of Average 7 Days
00:00:00	3.80	7.14
00:15:00	5.00	6.86
00:30:00	3.80	4.43
00:45:00	4.20	5.14
01:00:00	2.00	3.86
01:15:00	2.20	3.43
01:30:00	1.60	2.29
01:45:00	0.80	1.43
02:00:00	2.00	2.29
02:15:00	1.60	2.00
02:30:00	1.00	1.14
02:45:00	2.80	2.71
03:00:00	2.20	2.43
03:15:00	2.80	2.57
03:30:00	1.80	1.71
03:45:00	1.00	1.29
04:00:00	2.40	2.57
04:15:00	4.80	4.00
04:30:00	5.00	4.86



16:45:00	1110	9	73	1					10			1203	
17:00:00	1142	6	87	2	1		2		13	2	1	1256	
17:15:00	1261	4	90	1	3	1		1	1	15		1377	
17:30:00	1226	5	72	2	1	1			1	7	1	1316	
17:45:00	1056	7	65	1				1	1	1	9	1142	
18:00:00	915		44	3	1			1	1	7		972	
18:15:00	769	4	50	3		1	1		1	4		833	
18:30:00	712		37	5						7		761	
18:45:00	608	2	31	2				2		2		647	
19:00:00	518	4	39	2					1	1		565	
19:15:00	555	1	38	3					1	6		604	
19:30:00	409	2	23	5	2		1					442	
19:45:00	309		14	2						1		326	
20:00:00	256	2	16	2						4		280	
20:15:00	316	1	16	4						1		338	
20:30:00	209		12	2	1					2		226	
20:45:00	197		8						1			206	
21:00:00	206		9	1	1							217	
21:15:00	196	1	10	1						1		209	
21:30:00	174	1	7	1						4		187	
21:45:00	183		5	3						4		195	
22:00:00	194		2							4		200	
22:15:00	128		5							3		136	
22:30:00	136	1	4							1		142	
22:45:00	109	1	2							4		116	
23:00:00	83		3									86	
23:15:00	90		1							1		92	
23:30:00	52		4	1								57	
23:45:00	41		4	2								47	
Grand Total	47947	282	4296	260	##	31	40	67	67	##	21	2	53511

17:00:00	221.00	179.43
17:15:00	237.60	196.71
17:30:00	231.00	188.00
17:45:00	195.00	163.14
18:00:00	163.60	138.86
18:15:00	141.00	119.00
18:30:00	125.40	108.71
18:45:00	106.80	92.43
19:00:00	93.00	80.71
19:15:00	100.40	86.29
19:30:00	71.60	63.14
19:45:00	51.00	46.57
20:00:00	43.20	40.00
20:15:00	54.00	48.29
20:30:00	35.80	32.29
20:45:00	33.00	29.43
21:00:00	35.60	31.00
21:15:00	29.80	29.86
21:30:00	27.00	26.71
21:45:00	30.60	27.86
22:00:00	30.00	28.57
22:15:00	21.40	19.43
22:30:00	21.60	20.29
22:45:00	16.00	16.57
23:00:00	11.20	12.29
23:15:00	13.20	13.14
23:30:00	7.20	8.14
23:45:00	6.80	6.71
Grand Total	8730.80	7644.43

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

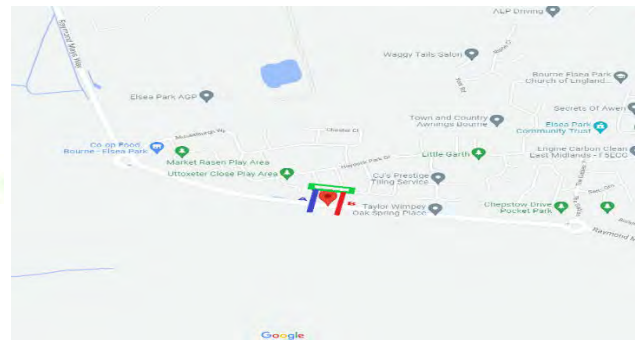
Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	13554	49.94	56.60	60.70	814	6.01%	102	0.75%	25	0.18%
Tuesday	7133	49.82	56.50	60.90	444	6.22%	58	0.81%	11	0.15%
Wednesday	7557	50.16	56.60	60.90	466	6.17%	37	0.49%	10	0.13%
Thursday	7546	49.99	56.50	60.70	437	5.79%	69	0.91%	22	0.29%
Friday	7864	49.96	56.90	61.30	541	6.88%	61	0.78%	16	0.20%
Saturday	5692	51.02	57.80	62.70	521	9.15%	80	1.41%	17	0.30%
Sunday	4165	51.08	57.80	62.48	370	8.88%	61	1.46%	10	0.24%
5day	43654	49.97	56.60	60.80	2702	6.19%	327	0.75%	84	0.19%
7day	53511	50.17	56.80	61.20	3593	6.71%	468	0.87%	111	0.21%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 24



Unit A, Taper Studios, The Leather Market, 130 Weston Street, London, SE1 4GS



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
10
11
14

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
64009	7.41%	14.33%	2.46%

Count of	Compass direction	Column Labels	
Row Labels	W	E	Grand Total
11 October 2021	29592	26086	55678
18 October 2021	4405	3926	8331
Grand Total	33997	30012	64009

Count of	Compass direction	Column Labels	
Row Labels	W	E	
Monday	8916	7856	
Tuesday	4661	4030	
Wednesday	4577	4042	
Thursday	4567	4003	
Friday	5018	4307	
Saturday	3572	3236	
Sunday	2686	2538	
Grand Total	33997	30012	

Row Labels	Count of Class	Count of Class2
1	57735	90.20%
2	363	0.57%
3	3811	5.95%
4	235	0.37%
5	567	0.89%
6	18	0.03%
7	110	0.17%
8	274	0.43%
9	460	0.72%
11	8	0.01%
14	361	0.56%
15	57	0.09%
10	10	0.02%
Grand Total	64009	100.00%

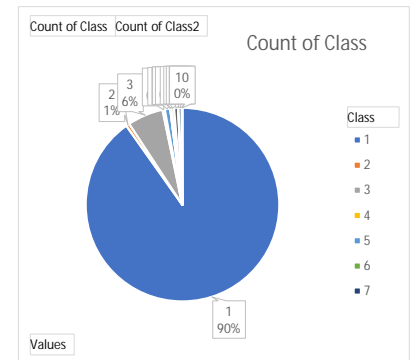
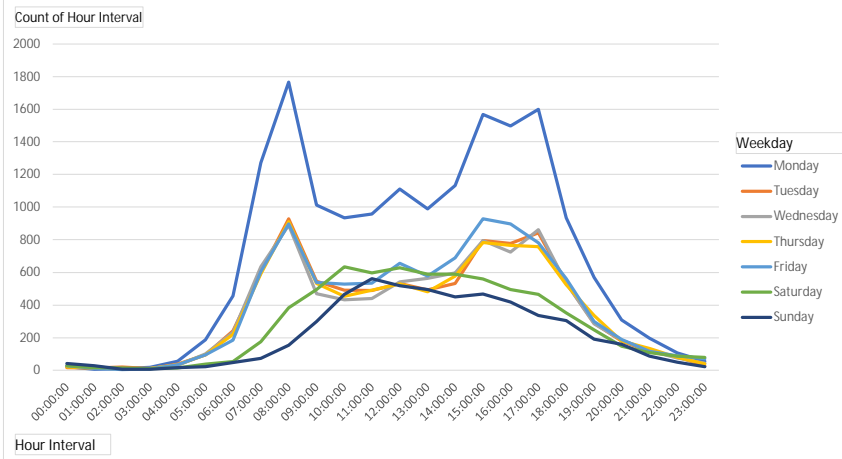
Average of Speed	Column Labels	
Row Labels	W	E
Monday	48.36	51.21
Tuesday	48.41	51.27
Wednesday	48.38	51.60
Thursday	48.44	51.46
Friday	48.54	51.12
Saturday	50.24	52.19
Sunday	50.36	53.04
Grand Total	48.76	51.55

% Over PSL	% Over ACPO	% Over DFT
7.41%	14.33%	2.46%

vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)

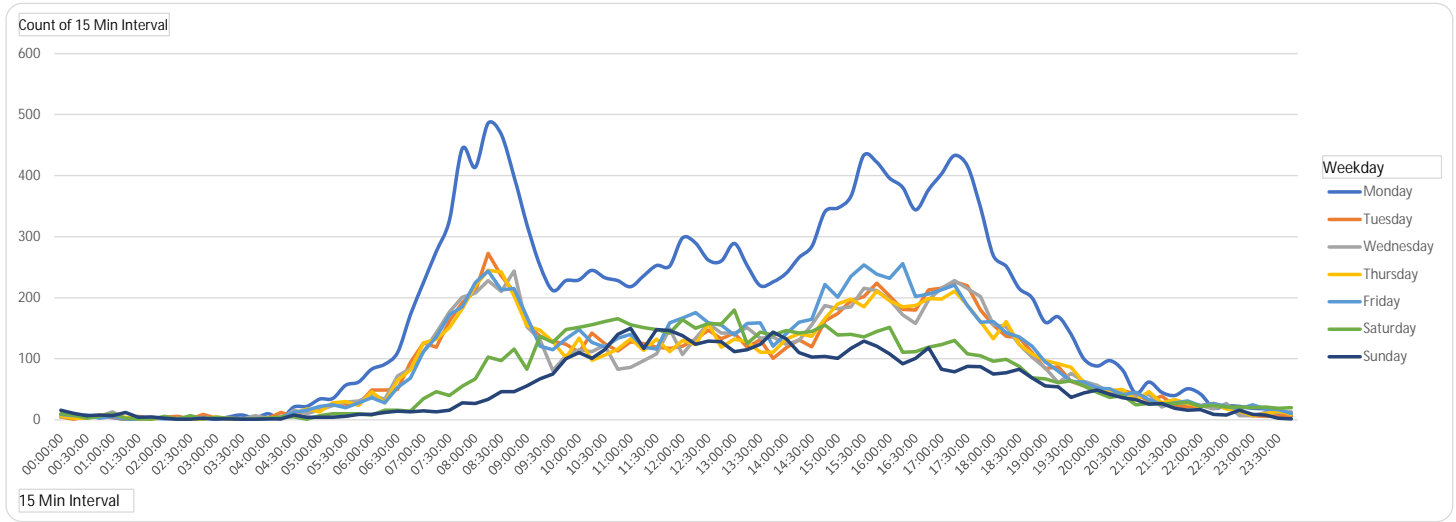


Week Commencing
11 October 2021
18 October 2021

Compass direction
E
W

Class
1
2
3
4
5
6
7
8
9
10

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Grand Total
00:00:00	5	5	4	6	9	10	16	55
00:15:00	8	1	10	3	7	8	11	48
00:30:00	5	6	5	3	8	3	7	37
00:45:00	5	4	6	8	3	6	8	40
01:00:00	4	5	13	7	6	10	7	52
01:15:00	1	1	2	4	2	3	12	25
01:30:00	2	6	4	2	2	2	4	22
01:45:00		2	3	1	3	1	5	15
02:00:00	2	4		4	2	6	3	21
02:15:00	5	6	3	1	2	1	1	19
02:30:00	1	1	1	1		7	1	12
02:45:00	3	9	4	2		1	3	22
03:00:00	1	3	3	5	3	4	2	21
03:15:00	5	3	1	2	3	3	2	19
03:30:00	8	2	1	2	2	1	1	17
03:45:00	3	3	7	1	1	2	1	18
04:00:00	10	3	3	3	2	3	2	26
04:15:00	2	12	2	3	4	5	2	30
04:30:00	21	6	16	11	12	5	8	79
04:45:00	22	16	10	18	16	1	4	87
05:00:00	34	16	17	13	22	7	4	113
05:15:00	35	26	23	28	25	10	4	151
05:30:00	57	26	29	30	20	10	6	178
05:45:00	62	26	31	24	28	10	9	190

Row Labels	07-19	06-22	06-00	00-00
Monday	14776	16308	16471	16772
Tuesday	7563	8390	8499	8691
Wednesday	7481	8301	8421	8619
Thursday	7398	8268	8388	8570
Friday	8191	8982	9143	9325
Saturday	5963	6521	6689	6808
Sunday	4542	5029	5101	5224
<b>Grand Total</b>	<b>55914</b>	<b>61799</b>	<b>62712</b>	<b>64009</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	5.80	7.86
00:15:00	5.80	6.86
00:30:00	5.40	5.29
00:45:00	5.20	5.71
01:00:00	7.00	7.43
01:15:00	2.00	3.57
01:30:00	3.20	3.14
01:45:00	1.80	2.14
02:00:00	2.40	3.00
02:15:00	3.40	2.71
02:30:00	0.80	1.71
02:45:00	3.60	3.14
03:00:00	3.00	3.00
03:15:00	2.80	2.71
03:30:00	3.00	2.43
03:45:00	3.00	2.57
04:00:00	4.20	3.71
04:15:00	4.60	4.29
04:30:00	13.20	11.29
04:45:00	16.40	12.43
05:00:00	20.40	16.14
05:15:00	27.40	21.57
05:30:00	32.40	25.43
05:45:00	34.20	27.14
06:00:00	51.00	38.86



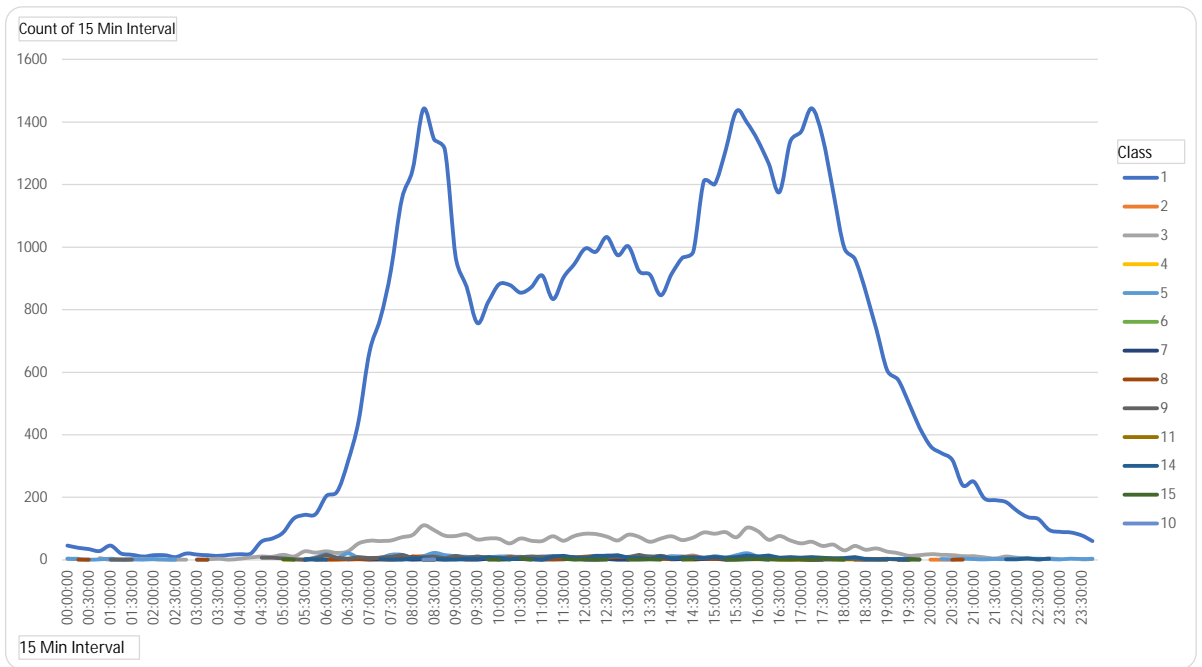
06:00:00	83	49	41	46	36	8	9	272
06:15:00	91	49	34	28	28	16	12	258
06:30:00	110	50	72	65	53	16	14	380
06:45:00	172	94	84	82	68	14	13	527
07:00:00	225	126	112	126	112	35	15	751
07:15:00	276	119	143	132	136	46	13	865
07:30:00	327	162	177	151	172	40	16	1045
07:45:00	444	192	201	182	185	55	28	1287
08:00:00	414	211	208	220	225	67	27	1372
08:15:00	486	273	228	245	244	103	34	1613
08:30:00	468	236	210	242	213	97	46	1512
08:45:00	398	209	244	203	215	116	46	1431
09:00:00	320	157	153	154	169	83	56	1092
09:15:00	253	137	131	147	121	137	67	993
09:30:00	212	129	81	128	115	127	75	867
09:45:00	228	124	105	102	133	148	100	940
10:00:00	229	111	115	134	148	152	110	999
10:15:00	245	142	112	98	127	156	101	981
10:30:00	233	125	122	106	119	161	115	981
10:45:00	228	113	83	116	134	166	140	980
11:00:00	218	128	86	133	140	156	150	1011
11:15:00	236	125	97	114	119	151	117	959
11:30:00	253	119	108	132	116	148	148	1024
11:45:00	252	117	149	112	159	142	146	1077
12:00:00	298	121	107	130	167	164	138	1125
12:15:00	290	132	134	123	176	150	124	1129
12:30:00	262	147	158	158	159	158	129	1171
12:45:00	260	133	142	119	155	157	128	1094
13:00:00	289	142	142	132	139	180	112	1136
13:15:00	253	119	151	128	158	125	115	1049
13:30:00	220	131	134	111	159	144	124	1023
13:45:00	226	101	136	111	121	139	144	978
14:00:00	240	118	124	132	141	146	133	1034
14:15:00	266	131	130	141	160	142	110	1080
14:30:00	285	120	156	137	165	145	103	1111
14:45:00	341	162	187	166	222	155	104	1337
15:00:00	347	174	182	190	201	139	101	1334
15:15:00	366	195	185	198	235	140	117	1436
15:30:00	433	202	216	185	254	136	129	1555
15:45:00	422	224	212	211	239	145	121	1574
16:00:00	396	203	197	195	232	152	108	1483
16:15:00	381	181	172	185	256	111	92	1378
16:30:00	344	180	158	187	202	112	101	1284
16:45:00	377	213	197	199	206	119	118	1429
17:00:00	403	216	216	198	213	123	83	1452
17:15:00	433	226	228	211	221	130	79	1528
17:30:00	416	220	215	188	187	108	88	1422
17:45:00	348	180	202	161	160	105	87	1243
18:00:00	269	155	156	133	161	96	75	1045
18:15:00	251	137	153	161	143	99	77	1021

06:15:00	46.00	36.86
06:30:00	70.00	54.29
06:45:00	100.00	75.29
07:00:00	140.20	107.29
07:15:00	161.20	123.57
07:30:00	197.80	149.29
07:45:00	240.80	183.86
08:00:00	255.60	196.00
08:15:00	295.20	230.43
08:30:00	273.80	216.00
08:45:00	253.80	204.43
09:00:00	190.60	156.00
09:15:00	157.80	141.86
09:30:00	133.00	123.86
09:45:00	138.40	134.29
10:00:00	147.40	142.71
10:15:00	144.80	140.14
10:30:00	141.00	140.14
10:45:00	134.80	140.00
11:00:00	141.00	144.43
11:15:00	138.20	137.00
11:30:00	145.60	146.29
11:45:00	157.80	153.86
12:00:00	164.60	160.71
12:15:00	171.00	161.29
12:30:00	176.80	167.29
12:45:00	161.80	156.29
13:00:00	168.80	162.29
13:15:00	161.80	149.86
13:30:00	151.00	146.14
13:45:00	139.00	139.71
14:00:00	151.00	147.71
14:15:00	165.60	154.29
14:30:00	172.60	158.71
14:45:00	215.60	191.00
15:00:00	218.80	190.57
15:15:00	235.80	205.14
15:30:00	258.00	222.14
15:45:00	261.60	224.86
16:00:00	244.60	211.86
16:15:00	235.00	196.86
16:30:00	214.20	183.43
16:45:00	238.40	204.14
17:00:00	249.20	207.43
17:15:00	263.80	218.29
17:30:00	245.20	203.14
17:45:00	210.20	177.57
18:00:00	174.80	149.29
18:15:00	169.00	145.86
18:30:00	146.40	129.00

18:30:00	215	135	123	123	136	88	83	903
18:45:00	200	110	103	108	121	69	69	780
19:00:00	160	84	85	97	95	67	56	644
19:15:00	169	87	61	92	80	61	54	604
19:30:00	140	63	76	86	63	64	37	529
19:45:00	100	56	63	61	62	56	44	442
20:00:00	88	46	57	49	52	45	49	386
20:15:00	97	43	45	48	51	37	42	363
20:30:00	81	48	47	50	41	40	36	343
20:45:00	43	43	36	32	45	25	33	257
21:00:00	62	31	42	46	33	27	26	267
21:15:00	45	39	21	28	25	26	27	211
21:30:00	40	24	29	33	28	27	19	200
21:45:00	51	21	27	27	31	29	16	202
22:00:00	42	23	24	22	23	22	17	173
22:15:00	20	27	18	26	27	24	9	151
22:30:00	23	20	27	18	22	21	8	139
22:45:00	22	13	7	14	18	21	16	111
23:00:00	19	7	7	7	25	20	9	94
23:15:00	18	6	12	10	18	21	8	93
23:30:00	12	7	12	14	17	19	3	84
23:45:00	7	6	13	9	11	20	2	68
Grand Total	16772	8691	8619	8570	9325	6808	5224	64009

18:45:00	128.40	111.43
19:00:00	104.20	92.00
19:15:00	97.80	86.29
19:30:00	85.60	75.57
19:45:00	68.40	63.14
20:00:00	58.40	55.14
20:15:00	56.80	51.86
20:30:00	53.40	49.00
20:45:00	39.80	36.71
21:00:00	42.80	38.14
21:15:00	31.60	30.14
21:30:00	30.80	28.57
21:45:00	31.40	28.86
22:00:00	26.80	24.71
22:15:00	23.60	21.57
22:30:00	22.00	19.86
22:45:00	14.80	15.86
23:00:00	13.00	13.43
23:15:00	12.80	13.29
23:30:00	12.40	12.00
23:45:00	9.20	9.71
Grand Total	10395.40	9144.14

Class	Axis	Access	Description	Parameters	Dimension Details	Access
11	017	0	1000 0	011+0.1m, 012+0.2m & access	011+0.1m, 012+0.2m & access	Light
0	017	0	1000 0	011+0.1m, 012+0.2m & access	011+0.1m, 012+0.2m & access	Light
1	017	0	1000 0	011+0.1m, 012+0.2m & access	011+0.1m, 012+0.2m & access	Light
2	017	0	1000 0	011+0.1m, 012+0.2m & access	011+0.1m, 012+0.2m & access	Light
3	017	0	1000 0	011+0.1m, 012+0.2m & access	011+0.1m, 012+0.2m & access	Light
4	017	0	1000 0	011+0.1m, 012+0.2m & access	011+0.1m, 012+0.2m & access	Light
5	017	0	1000 0	011+0.1m, 012+0.2m & access	011+0.1m, 012+0.2m & access	Light
6	017	0	1000 0	011+0.1m, 012+0.2m & access	011+0.1m, 012+0.2m & access	Light
7	017	0	1000 0	011+0.1m, 012+0.2m & access	011+0.1m, 012+0.2m & access	Light
8	017	0	1000 0	011+0.1m, 012+0.2m & access	011+0.1m, 012+0.2m & access	Light
9	017	0	1000 0	011+0.1m, 012+0.2m & access	011+0.1m, 012+0.2m & access	Light
10	017	0	1000 0	011+0.1m, 012+0.2m & access	011+0.1m, 012+0.2m & access	Light



**Week Commencing**

11 October 2021

18 October 2021

**Compass direction**

E

W

**Class**

1

2

3

4

5

**Weekday**

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Count of 15 Min Interval	Column Labels	1	2	3	4	5	6	7	8	9	11	14	15	10	rand Tot
00:00:00	46			4		4								1	55
00:15:00	39		1	4		3			1						48
00:30:00	35					1				1					37
00:45:00	29			6	2	2		1							40
01:00:00	46			1		4					1				52
01:15:00	21			2		1					1				25
01:30:00	17			2		2					1				22
01:45:00	11			3		1									15
02:00:00	15			2		3							1		21
02:15:00	16			1		2									19
02:30:00	9			1		1							1		12
02:45:00	21			1											22
03:00:00	18					1				1				1	21
03:15:00	15			2		1			1						19
03:30:00	13			4											17
03:45:00	17			1											18
04:00:00	19			4		1					2				26
04:15:00	21			8						1					30

Row Labels	07-19	06-22	06-00	00-00
Monday	14776	16308	16471	16772
Tuesday	7563	8390	8499	8691
Wednesday	7481	8301	8421	8619
Thursday	7398	8268	8388	8570
Friday	8191	8982	9143	9325
Saturday	5963	6521	6689	6808
Sunday	4542	5029	5101	5224
<b>Grand Total</b>	<b>55914</b>	<b>61799</b>	<b>62712</b>	<b>64009</b>

Row Labels	Average 5 Days	1 of Average 7 D
00:00:00	5.80	7.86
00:15:00	5.80	6.86
00:30:00	5.40	5.29
00:45:00	5.20	5.71
01:00:00	7.00	7.43
01:15:00	2.00	3.57
01:30:00	3.20	3.14
01:45:00	1.80	2.14
02:00:00	2.40	3.00
02:15:00	3.40	2.71
02:30:00	0.80	1.71
02:45:00	3.60	3.14
03:00:00	3.00	3.00
03:15:00	2.80	2.71
03:30:00	3.00	2.43
03:45:00	3.00	2.57
04:00:00	4.20	3.71
04:15:00	4.60	4.29
04:30:00	13.20	11.29



16:45:00	1338	3	63	1	3	3	2	6	9	1	1429			
17:00:00	1369	7	53	1	3	4	2	2	2	7	2	1452		
17:15:00	1444	7	58	2	1	1	1	2	1	10	1	1528		
17:30:00	1351	5	45	1	1	1	2	5	7	4	1422			
17:45:00	1173	5	49	1	2	2	4	5	2	1243				
18:00:00	998	3	31	1	1	1	3	6	1	1045				
18:15:00	962	45	1	1	3	9	1021							
18:30:00	858	4	33	1	1	1	1	3	1	903				
18:45:00	734	3	37	1	2	1	2	780						
19:00:00	606	4	27	1	2	1	3	644						
19:15:00	576	1	22	1	1	3	604							
19:30:00	501	1	13	2	1	1	1	1	4	3	1	529		
19:45:00	423	16	2	1	442									
20:00:00	364	1	19	1	1	386								
20:15:00	342	1	17	3	363									
20:30:00	320	1	16	2	1	1	2	343						
20:45:00	239	12	1	4	1	257								
21:00:00	251	12	3	1	267									
21:15:00	197	8	2	2	2	211								
21:30:00	191	1	5	3	200									
21:45:00	185	11	3	1	2	202								
22:00:00	158	7	5	1	2	173								
22:15:00	137	5	4	5	151									
22:30:00	131	1	1	4	2	139								
22:45:00	96	5	3	1	2	4	111							
23:00:00	90	2	2	94										
23:15:00	88	4	1	93										
23:30:00	79	2	3	84										
23:45:00	61	3	4	68										
Grand Total	57735	363	3811	235	##	18	##	##	##	8	361	57	10	64009

17:00:00	249.20	207.43
17:15:00	263.80	218.29
17:30:00	245.20	203.14
17:45:00	210.20	177.57
18:00:00	174.80	149.29
18:15:00	169.00	145.86
18:30:00	146.40	129.00
18:45:00	128.40	111.43
19:00:00	104.20	92.00
19:15:00	97.80	86.29
19:30:00	85.60	75.57
19:45:00	68.40	63.14
20:00:00	58.40	55.14
20:15:00	56.80	51.86
20:30:00	53.40	49.00
20:45:00	39.80	36.71
21:00:00	42.80	38.14
21:15:00	31.60	30.14
21:30:00	30.80	28.57
21:45:00	31.40	28.86
22:00:00	26.80	24.71
22:15:00	23.60	21.57
22:30:00	22.00	19.86
22:45:00	14.80	15.86
23:00:00	13.00	13.43
23:15:00	12.80	13.29
23:30:00	12.40	12.00
23:45:00	9.20	9.71
Grand Total	10395.40	9144.14

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

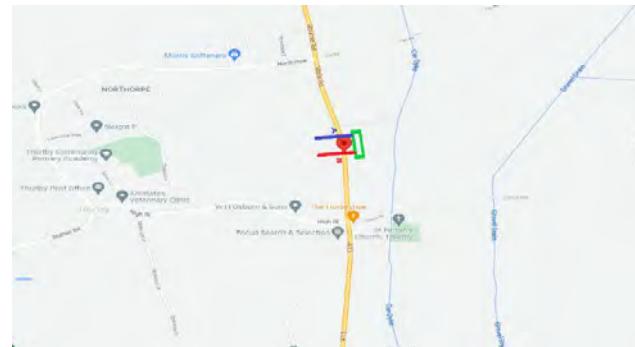
Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	16772	49.69	56.20	61.04	1055	6.29%	2080	12.40%	337	2.01%
Tuesday	8691	49.74	56.60	61.80	629	7.24%	1183	13.61%	196	2.26%
Wednesday	8619	49.89	56.80	61.70	652	7.56%	1228	14.25%	199	2.31%
Thursday	8570	49.85	56.60	61.60	586	6.84%	1182	13.79%	194	2.26%
Friday	9325	49.73	56.60	61.50	643	6.90%	1272	13.64%	202	2.17%
Saturday	6808	51.17	57.80	63.20	629	9.24%	1222	17.95%	255	3.75%
Sunday	5224	51.66	58.30	63.50	548	10.49%	1005	19.24%	190	3.64%
5day	51977	49.77	56.50	61.50	3565	6.86%	6945	13.36%	1128	2.17%
7day	64009	50.07	56.80	61.80	4742	7.41%	9172	14.33%	1573	2.46%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 25



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)

Week Commencing
18 October 2021
11 October 2021

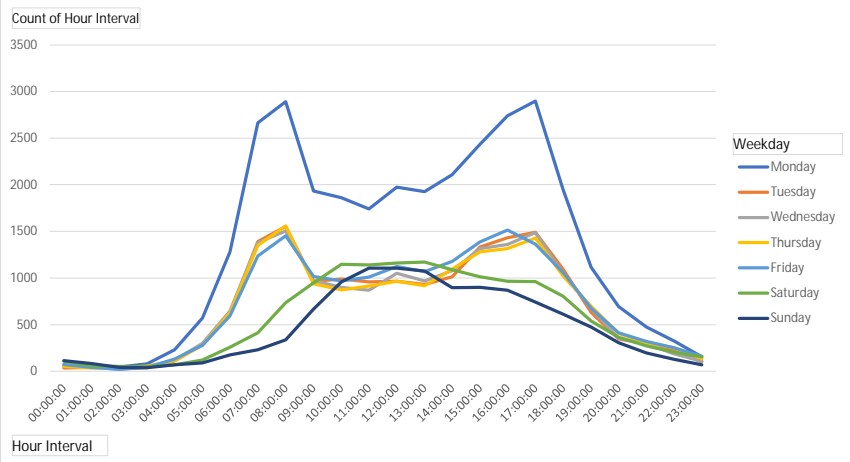
Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
10
11
12

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
125061	5.55%	0.09%	0.04%

Count of	Compass direction	Column Labels	
Row Labels	N	S	Grand Total
11 October 2021	54440	54864	109304
18 October 2021	7807	7950	15757
Grand Total	62247	62814	125061



Count of	Compass direction	Column Labels	
Row Labels	N	S	
Monday	15978	16232	
Tuesday	8398	8481	
Wednesday	8389	8416	
Thursday	8276	8390	
Friday	8680	8712	
Saturday	6900	6913	
Sunday	5626	5670	
Grand Total	62247	62814	

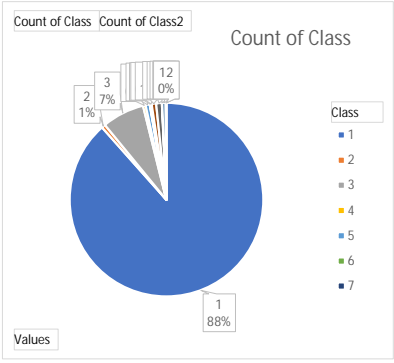
Average of Speed	Column Labels	
Row Labels	N	S
Monday	42.84	41.10
Tuesday	42.85	41.28
Wednesday	42.82	41.63
Thursday	41.02	37.70
Friday	41.62	39.54
Saturday	43.86	42.68
Sunday	43.97	42.64
Grand Total	42.64	40.84

% Over PSL	% Over ACPO	% Over DFT
5.55%	0.09%	0.04%

vehicles are travelling over posted speed limit (50mph)  
 vehicles are traveling 10% +2 over PSL (57mph)  
 vehicles are 15mph over PSL (65mph)



Row Labels	Count of Class	Count of Class2
1	110554	88.40%
2	816	0.65%
3	8794	7.03%
4	547	0.44%
5	895	0.72%
6	69	0.06%
7	339	0.27%
8	936	0.75%
9	1152	0.92%
11	78	0.06%
14	734	0.59%
15	76	0.06%
10	68	0.05%
12	3	0.00%
Grand Total	125061	100.00%



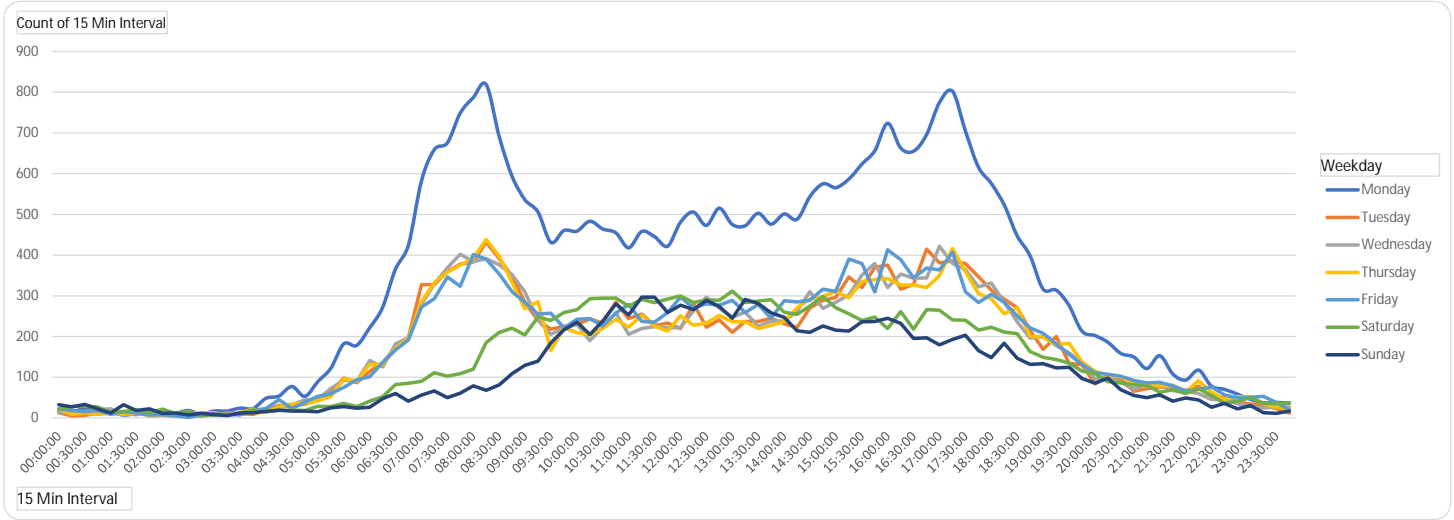


Week Commencing
11 October 2021
18 October 2021

Compass direction
N
S

Class
1
2
3
4
5
6
7
8
9
10

Weekday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday



Count of 15 Min Interval	Column Labels							
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Grand Total
00:00:00	16	13	13	21	22	22	32	139
00:15:00	14	5	13	9	18	29	27	115
00:30:00	23	6	16	12	15	29	33	134
00:45:00	14	11	20	9	18	27	22	121
01:00:00	15	11	22	11	9	14	12	94
01:15:00	7	10	8	9	15	16	32	97
01:30:00	11	8	15	11	12	19	18	94
01:45:00	15	14	5	6	7	13	22	82
02:00:00	8	12	6	8	8	21	11	74
02:15:00	11	10	4	5	5	11	12	58
02:30:00	18	4	6	13	1	17	7	66
02:45:00	9	10	5	12	7	5	11	59
03:00:00	17	6	6	13	10	9	8	69
03:15:00	17	13	10	7	8	8	6	69
03:30:00	24	10	11	14	7	11	12	89
03:45:00	23	9	19	21	18	20	13	123
04:00:00	48	18	18	14	23	15	16	152
04:15:00	54	31	27	28	45	18	19	222
04:30:00	77	28	32	34	23	19	17	230
04:45:00	53	34	44	37	39	18	17	242
05:00:00	89	43	45	42	53	29	15	316
05:15:00	122	61	72	52	59	28	25	419
05:30:00	182	98	93	95	75	36	28	607
05:45:00	178	87	90	91	94	28	24	592

Row Labels	07-19	06-22	06-00	00-00
Monday	27113	30685	31165	32210
Tuesday	14115	16009	16327	16879
Wednesday	13941	15912	16205	16805
Thursday	13665	15704	16092	16666
Friday	14383	16387	16801	17392
Saturday	11550	12989	13351	13813
Sunday	9503	10658	10857	11296
<b>Grand Total</b>	<b>104270</b>	<b>118344</b>	<b>120798</b>	<b>125061</b>

Row Labels	Average 5 Days	Sum of Average 7 Days
00:00:00	17.00	19.86
00:15:00	11.80	16.43
00:30:00	14.40	19.14
00:45:00	14.40	17.29
01:00:00	13.60	13.43
01:15:00	9.80	13.86
01:30:00	11.40	13.43
01:45:00	9.40	11.71
02:00:00	8.40	10.57
02:15:00	7.00	8.29
02:30:00	8.40	9.43
02:45:00	8.60	8.43
03:00:00	10.40	9.86
03:15:00	11.00	9.86
03:30:00	13.20	12.71
03:45:00	18.00	17.57
04:00:00	24.20	21.71
04:15:00	37.00	31.71
04:30:00	38.80	32.86
04:45:00	41.40	34.57
05:00:00	54.40	45.14
05:15:00	73.20	59.86
05:30:00	108.60	86.71
05:45:00	108.00	84.57
06:00:00	141.60	110.71

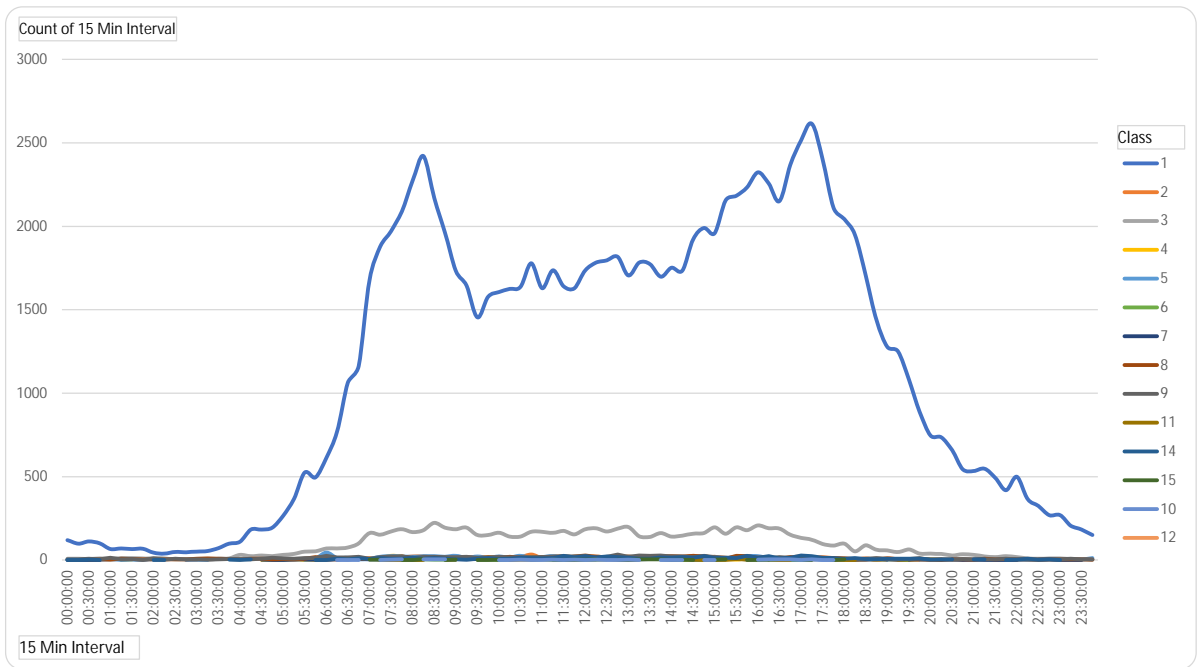
06:00:00	221	114	141	131	101	41	26	775
06:15:00	271	136	125	132	136	52	47	899
06:30:00	366	173	182	171	167	82	60	1201
06:45:00	424	197	197	196	191	85	41	1331
07:00:00	582	327	279	286	272	90	56	1892
07:15:00	659	327	329	332	293	111	66	2117
07:30:00	676	360	369	358	346	102	50	2261
07:45:00	749	378	402	375	324	109	61	2398
08:00:00	787	383	384	393	401	120	79	2547
08:15:00	819	432	391	438	390	185	68	2723
08:30:00	691	391	376	396	353	210	81	2498
08:45:00	593	347	352	333	310	220	109	2264
09:00:00	536	284	309	268	284	204	129	2014
09:15:00	506	239	240	286	255	248	139	1913
09:30:00	431	218	206	165	257	239	184	1700
09:45:00	460	225	220	221	221	259	217	1823
10:00:00	459	230	230	209	242	266	235	1871
10:15:00	483	243	190	204	244	293	205	1862
10:30:00	464	233	223	219	226	294	238	1897
10:45:00	455	284	258	242	257	294	280	2070
11:00:00	418	244	206	223	278	275	253	1897
11:15:00	458	255	219	252	237	291	297	2009
11:30:00	445	227	224	225	235	283	297	1936
11:45:00	422	233	221	213	259	292	259	1899
12:00:00	481	219	222	251	297	300	277	2047
12:15:00	506	281	264	228	270	283	266	2098
12:30:00	473	223	297	233	280	290	289	2085
12:45:00	515	241	270	252	277	289	274	2118
13:00:00	475	210	247	236	289	312	245	2014
13:15:00	472	237	260	236	259	283	291	2038
13:30:00	503	237	225	219	278	287	281	2030
13:45:00	476	245	238	228	245	290	258	1980
14:00:00	501	231	238	237	288	260	247	2002
14:15:00	488	222	262	271	285	254	214	1996
14:30:00	544	270	310	292	289	275	210	2190
14:45:00	575	289	269	298	316	298	226	2271
15:00:00	566	296	284	311	311	271	216	2255
15:15:00	587	346	302	295	390	256	213	2389
15:30:00	623	320	351	335	379	239	236	2483
15:45:00	656	370	379	340	309	248	237	2539
16:00:00	724	375	320	342	413	219	245	2638
16:15:00	663	316	353	326	389	261	232	2540
16:30:00	655	328	343	326	345	218	195	2410
16:45:00	696	415	344	320	368	266	197	2606
17:00:00	775	381	422	349	363	265	180	2735
17:15:00	802	385	379	416	407	241	193	2823
17:30:00	705	379	364	360	310	240	203	2561
17:45:00	616	347	322	305	283	216	165	2254
18:00:00	576	314	331	293	304	223	148	2189
18:15:00	522	292	285	256	284	211	183	2033

06:15:00	160.00	128.43
06:30:00	211.80	171.57
06:45:00	241.00	190.14
07:00:00	349.20	270.29
07:15:00	388.00	302.43
07:30:00	421.80	323.00
07:45:00	445.60	342.57
08:00:00	469.60	363.86
08:15:00	494.00	389.00
08:30:00	441.40	356.86
08:45:00	387.00	323.43
09:00:00	336.20	287.71
09:15:00	305.20	273.29
09:30:00	255.40	242.86
09:45:00	269.40	260.43
10:00:00	274.00	267.29
10:15:00	272.80	266.00
10:30:00	273.00	271.00
10:45:00	299.20	295.71
11:00:00	273.80	271.00
11:15:00	284.20	287.00
11:30:00	271.20	276.57
11:45:00	269.60	271.29
12:00:00	294.00	292.43
12:15:00	309.80	299.71
12:30:00	301.20	297.86
12:45:00	311.00	302.57
13:00:00	291.40	287.71
13:15:00	292.80	291.14
13:30:00	292.40	290.00
13:45:00	286.40	282.86
14:00:00	299.00	286.00
14:15:00	305.60	285.14
14:30:00	341.00	312.86
14:45:00	349.40	324.43
15:00:00	353.60	322.14
15:15:00	384.00	341.29
15:30:00	401.60	354.71
15:45:00	410.80	362.71
16:00:00	434.80	376.86
16:15:00	409.40	362.86
16:30:00	399.40	344.29
16:45:00	428.60	372.29
17:00:00	458.00	390.71
17:15:00	477.80	403.29
17:30:00	423.60	365.86
17:45:00	374.60	322.00
18:00:00	363.60	312.71
18:15:00	327.80	290.43
18:30:00	295.00	261.29

18:30:00	447	271	236	271	250	207	147	1829
18:45:00	398	215	196	201	221	163	132	1526
19:00:00	316	169	201	198	208	149	133	1374
19:15:00	314	200	177	180	182	143	123	1319
19:30:00	276	134	160	183	156	135	124	1168
19:45:00	213	131	137	138	132	115	97	963
20:00:00	202	84	95	114	111	109	85	800
20:15:00	186	104	100	105	107	89	98	789
20:30:00	158	96	88	101	102	86	69	700
20:45:00	150	65	71	85	92	81	55	599
21:00:00	121	72	83	85	86	80	50	577
21:15:00	153	76	82	77	88	63	57	596
21:30:00	108	76	67	80	79	69	41	520
21:45:00	93	67	65	63	66	60	49	463
22:00:00	117	78	60	91	70	72	44	532
22:15:00	78	50	45	63	76	55	26	393
22:30:00	70	51	46	46	57	36	36	342
22:45:00	58	39	35	52	49	41	22	296
23:00:00	46	34	29	52	51	50	30	292
23:15:00	37	31	25	35	53	36	13	230
23:30:00	38	23	26	26	38	35	11	197
23:45:00	36	12	27	23	20	37	17	172
Grand Total	32210	16879	16805	16666	17392	13813	11296	125061

18:45:00	246.20	218.00
19:00:00	218.40	196.29
19:15:00	210.60	188.43
19:30:00	181.80	166.86
19:45:00	150.20	137.57
20:00:00	121.20	114.29
20:15:00	120.40	112.71
20:30:00	109.00	100.00
20:45:00	92.60	85.57
21:00:00	89.40	82.43
21:15:00	95.20	85.14
21:30:00	82.00	74.29
21:45:00	70.80	66.14
22:00:00	83.20	76.00
22:15:00	62.40	56.14
22:30:00	54.00	48.86
22:45:00	46.60	42.29
23:00:00	42.40	41.71
23:15:00	36.20	32.86
23:30:00	30.20	28.14
23:45:00	23.60	24.57
Grand Total	19990.40	17865.86

Class	Axis	Access	Description	Parameters	Dimension Details	Accesses
11	107	3	1000 3	001+0.1m, 002+0.2m & access2		Light
12	107	3	1000 3	001+0.1m, 002+0.2m, 003+0.3m & access2, A, B		Light
13	103	2	2	001+0.1m & access1		Access
14	103	2	2	access2 & group102		Access
15	14	1.8	2	access2 & group102		Access
16	107	3	3	001+0.1m, access2 & group102		Access
17	107	3	3	001+0.1m or 002+0.2m or 003+0.3m & A & group102		Access
18	107	3	3	001+0.1m or 002+0.2m or 003+0.3m & B & group102		Access
19	107	3	3	001+0.1m or 002+0.2m or 003+0.3m & B & group102		Access
20	107	3	3	001+0.1m or 002+0.2m or 003+0.3m & B & group102		Access
21	107	3	3	001+0.1m or 002+0.2m or 003+0.3m & B & group102		Access
22	107	3	3	001+0.1m or 002+0.2m or 003+0.3m & B & group102		Access
23	107	3	3	001+0.1m or 002+0.2m or 003+0.3m & B & group102		Access
24	107	3	3	001+0.1m or 002+0.2m or 003+0.3m & B & group102		Access
25	107	3	3	001+0.1m or 002+0.2m or 003+0.3m & B & group102		Access



Week Commencing

11 October 2021

18 October 2021

Compass direction

N

S

Class

1

2

3

4

5

Weekday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Count of 15 Min Interval	Column Labels	Row Labels	07-19	06-22	06-00	00-00
00:00:00	1 2 3 4 5 6 7 8 9 11 14 15 10 12 and To	Monday	27113	30685	31165	32210
00:15:00		Tuesday	14115	16009	16327	16879
00:30:00		Wednesday	13941	15912	16205	16805
00:45:00		Thursday	13665	15704	16092	16666
01:00:00		Friday	14383	16387	16801	17392
01:15:00		Saturday	11550	12989	13351	13813
01:30:00		Sunday	9503	10658	10857	11296
01:45:00		Grand Total	104270	118344	120798	125061
02:00:00						
02:15:00						
02:30:00						
02:45:00						
03:00:00						
03:15:00						
03:30:00						
03:45:00						
04:00:00						
04:15:00						

Row Labels	Average 5 Days	of Average 7 D
00:00:00	17.00	19.86
00:15:00	11.80	16.43
00:30:00	14.40	19.14
00:45:00	14.40	17.29
01:00:00	13.60	13.43
01:15:00	9.80	13.86
01:30:00	11.40	13.43
01:45:00	9.40	11.71
02:00:00	8.40	10.57
02:15:00	7.00	8.29
02:30:00	8.40	9.43
02:45:00	8.60	8.43
03:00:00	10.40	9.86
03:15:00	11.00	9.86
03:30:00	13.20	12.71
03:45:00	18.00	17.57
04:00:00	24.20	21.71
04:15:00	37.00	31.71
04:30:00	38.80	32.86



16:45:00	2367	16	151	10	9	1	3	17	15	1	13		3	2606	
17:00:00	2516	22	133	4	2	1	4	10	14		27	1	1	2735	
17:15:00	2616	17	122	5	6		5	9	15	1	23	1	3	2823	
17:30:00	2403	17	97	6	3	1	3	8	7		14		1	2561	
17:45:00	2113	12	86	5	4		2	11	6	2	11	1	1	2254	
18:00:00	2043	12	98	3	3		3	6	7	1	9	4		2189	
18:15:00	1950	5	52	1			2	4	5	1	12		1	2033	
18:30:00	1704	10	88	5	1		2	4	9		6			1829	
18:45:00	1435	1	61	2			3	7	11		3	2	1	1526	
19:00:00	1278	11	57	2	2		2	6	8		8			1374	
19:15:00	1250	4	48	1	1	1		2	4		8			1319	
19:30:00	1080	4	63	1		1	2	3	6		7	1		1168	
19:45:00	888	3	39	4	2		3	4	11	1	8			963	
20:00:00	746	2	38	5	1			2	1		5			800	
20:15:00	736	4	36	1	3			1	6		2			789	
20:30:00	658		28		2		3	4	2		3			700	
20:45:00	544	4	35	1	4		1	4	6					599	
21:00:00	533		31		1		2	2	4		4			577	
21:15:00	548		22	3	6		1	7	5		3	1		596	
21:30:00	493		17		1		1	4	4					520	
21:45:00	418	2	23	1	4		1	6	7		1			463	
22:00:00	499	1	18		2		1	4	4		2	1		532	
22:15:00	365		10		1			5	4		8			393	
22:30:00	324		8	1	1		2	2	2		2			342	
22:45:00	269		9		4		3	4	3		4			296	
23:00:00	269		10		3		1	5	3		1			292	
23:15:00	206	1	6		5		1	4	7					230	
23:30:00	182		4		3		1	4	3					197	
23:45:00	149	1	3	1	12	1		2	3					172	
Grand Total	110554	816	8794	547	##	69	##	##	##	78	734	76	68	3	1E+05

17:00:00	458.00	390.71
17:15:00	477.80	403.29
17:30:00	423.60	365.86
17:45:00	374.60	322.00
18:00:00	363.60	312.71
18:15:00	327.80	290.43
18:30:00	295.00	261.29
18:45:00	246.20	218.00
19:00:00	218.40	196.29
19:15:00	210.60	188.43
19:30:00	181.80	166.86
19:45:00	150.20	137.57
20:00:00	121.20	114.29
20:15:00	120.40	112.71
20:30:00	109.00	100.00
20:45:00	92.60	85.57
21:00:00	89.40	82.43
21:15:00	95.20	85.14
21:30:00	82.00	74.29
21:45:00	70.80	66.14
22:00:00	83.20	76.00
22:15:00	62.40	56.14
22:30:00	54.00	48.86
22:45:00	46.60	42.29
23:00:00	42.40	41.71
23:15:00	36.20	32.86
23:30:00	30.20	28.14
23:45:00	23.60	24.57
Grand Total	19990.40	17865.86

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

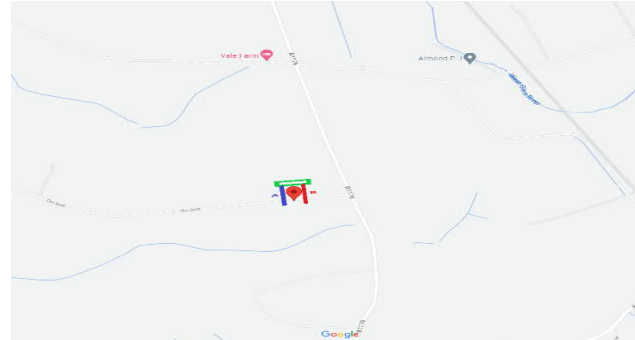
Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	32210	41.96	46.70	49.90	1565	4.86%	22	0.07%	8	0.02%
Tuesday	16879	42.06	46.70	50.20	876	5.19%	7	0.04%	0	0.00%
Wednesday	16805	42.23	47.00	50.60	975	5.80%	12	0.07%	2	0.01%
Thursday	16666	39.35	46.10	49.60	741	4.45%	15	0.09%	7	0.04%
Friday	17392	40.57	46.50	49.90	819	4.71%	13	0.07%	2	0.01%
Saturday	13813	43.27	47.80	51.40	1042	7.54%	35	0.25%	18	0.13%
Sunday	11296	43.30	48.00	51.70	925	8.19%	14	0.12%	8	0.07%
5day	99952	41.35	46.60	50.00	4976	4.98%	69	0.07%	19	0.02%
7day	125061	41.73	46.90	50.40	6943	5.55%	118	0.09%	45	0.04%

# Traffic Analysis Report

Contract: Velocity - TP  
Report Date: 26/10/2021  
Author: Transport Survey Systems  
Location: 26



- [Dashboard](#)
- [15 Minute Interval](#)
- [Hourly Interval](#)
- [Classed Volume 15 Minute Interval](#)
- [Classed Volume Hourly Interval](#)
- [Speed Data](#)
- [Percentile](#)



Week Commencing
18 October 2021

Total	Sum of % Over PSL	Sum of % Over ACPO	Sum of % Over DFT
224	0.00%	0.00%	0.00%

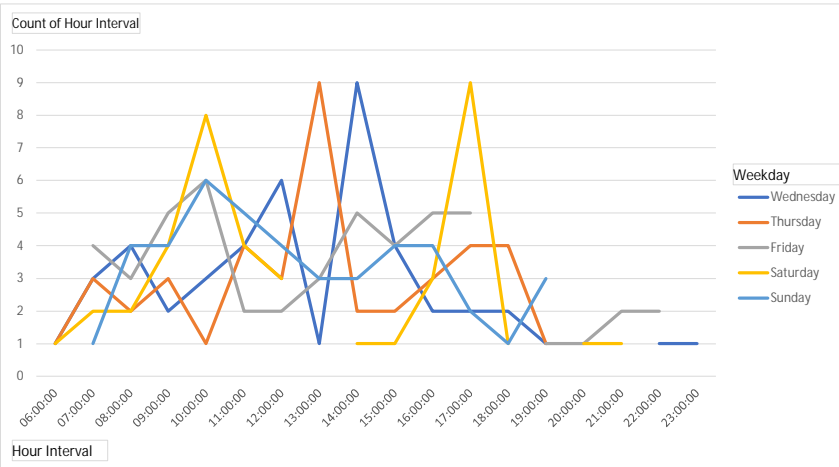
Count of	Compass direction	Column Labels	
Row Labels	W	E	Grand Total
18 October 2021	112	112	224
Grand Total	112	112	224

Count of	Compass direction	Column Labels
Row Labels	W	E
Wednesday	23	23
Thursday	21	21
Friday	25	25
Saturday	19	22
Sunday	24	21
Grand Total	112	112

Row Labels	Count of Class	Count of Class2
1	206	91.96%
2	2	0.89%
3	10	4.46%
14	1	0.45%
15	5	2.23%
Grand Total	224	100.00%

Compass direction
E
W

Class
1
2
3
14
15



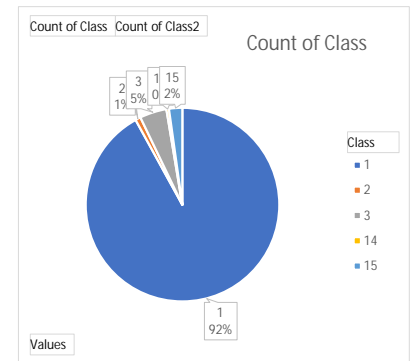
Average of Speed	Column Labels
Row Labels	W E
Wednesday	26.88 30.24
Thursday	26.61 30.03
Friday	29.54 32.27
Saturday	26.40 32.35
Sunday	28.18 30.75
Grand Total	27.62 31.17

% Over PSL	% Over ACPO	% Over DFT
0.00%	0.00%	0.00%

vehicles are travelling over posted speed limit (60mph)

vehicles are traveling 10% +2 over PSL (68mph)

vehicles are 15mph over PSL (75mph)



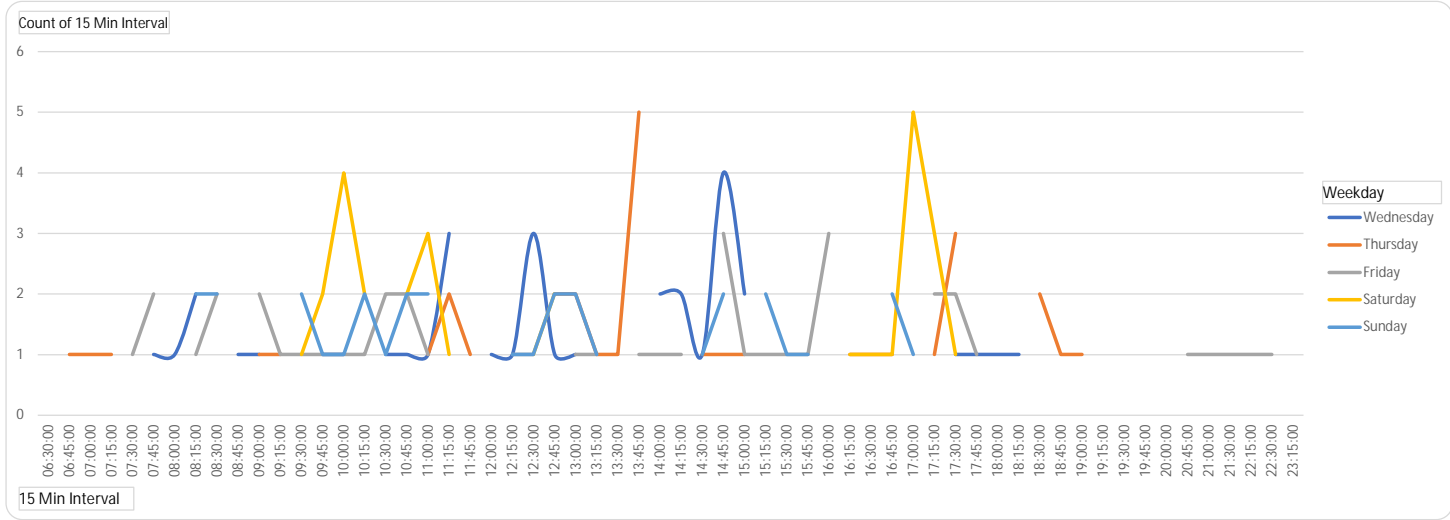
Week Commencing  
18 October 2021

Compass direction  
E  
W

- Class
- 1
  - 2
  - 3
  - 14
  - 15
  - 4
  - 5
  - 6
  - 7
  - 8

Weekday

- Wednesday
- Thursday
- Friday
- Saturday
- Sunday



Count of 15 Min Interval	Column Labels					
Row Labels	Wednesday	Thursday	Friday	Saturday	Sunday	Grand Total
06:30:00	1					1
06:45:00		1		1		2
07:00:00	2	1	1			4
07:15:00		1			1	2
07:30:00			1	2		3
07:45:00	1	1	2			4
08:00:00	1			1		2
08:15:00	2	2	1		2	7
08:30:00			2	1	2	5
08:45:00	1					1
09:00:00	1	1	2	1	1	6
09:15:00		1	1			2
09:30:00			1	1	2	4
09:45:00	1	1	1	2	1	6
10:00:00	1		1	4	1	7
10:15:00		1	1	2	2	6
10:30:00	1		2		1	4
10:45:00	1		2	2	2	7
11:00:00	1	1	1	3	2	8
11:15:00	3	2		1		6
11:45:00		1	1		3	5
12:00:00	1					1
12:15:00	1	1	1		1	4
12:30:00	3		1	1	1	6

Row Labels	07-19	06-22	06-00	00-00
Wednesday	42	44	46	46
Thursday	40	42	42	42
Friday	44	48	50	50
Saturday	38	41	41	41
Sunday	41	45	45	45
Grand Total	205	220	224	224

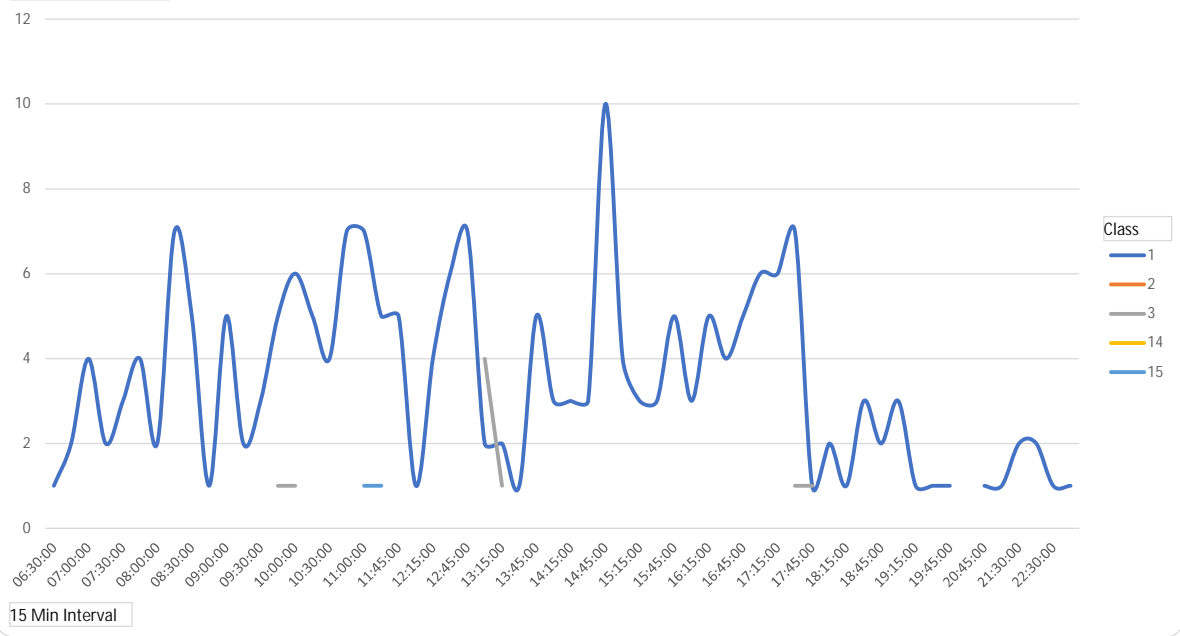
Row Labels	Average 5 Days	Sum of Average 7 Days
06:30:00	0.20	0.14
06:45:00	0.20	0.29
07:00:00	0.80	0.57
07:15:00	0.20	0.29
07:30:00	0.20	0.43
07:45:00	0.80	0.57
08:00:00	0.20	0.29
08:15:00	1.00	1.00
08:30:00	0.40	0.71
08:45:00	0.20	0.14
09:00:00	0.80	0.86
09:15:00	0.40	0.29
09:30:00	0.20	0.57
09:45:00	0.60	0.86
10:00:00	0.40	1.00
10:15:00	0.40	0.86
10:30:00	0.60	0.57
10:45:00	0.60	1.00
11:00:00	0.60	1.14
11:15:00	1.00	0.86
11:45:00	0.40	0.71
12:00:00	0.20	0.14
12:15:00	0.60	0.57
12:30:00	0.80	0.86
12:45:00	0.60	1.00

12:45:00	1	2		2	2	7
13:00:00	1	2	1		2	6
13:15:00		1	1		1	3
13:30:00		1				1
13:45:00		5	1			6
14:00:00	2		1			3
14:15:00	2		1			3
14:30:00	1	1			1	3
14:45:00	4	1	3	1	2	11
15:00:00	2	1	1			4
15:15:00			1		2	3
15:30:00			1	1	1	3
15:45:00	2	1	1		1	5
16:00:00			3			3
16:15:00	1	1		1	2	5
16:30:00		1	2	1		4
16:45:00	1	1		1	2	5
17:00:00				5	1	6
17:15:00		1	2	3		6
17:30:00	1	3	2	1	1	8
17:45:00	1		1			2
18:00:00	1	1				2
18:15:00	1					1
18:30:00		2			1	3
18:45:00		1		1		2
19:00:00		1			2	3
19:15:00	1					1
19:30:00			1			1
19:45:00					1	1
20:00:00				1		1
20:45:00			1			1
21:00:00			1	1		2
21:30:00			1		1	2
22:15:00	1		1			2
22:30:00			1			1
23:15:00	1					1
Grand Total	46	42	50	41	45	224

13:00:00	0.80	0.86
13:15:00	0.40	0.43
13:30:00	0.20	0.14
13:45:00	1.20	0.86
14:00:00	0.60	0.43
14:15:00	0.60	0.43
14:30:00	0.40	0.43
14:45:00	1.60	1.57
15:00:00	0.80	0.57
15:15:00	0.20	0.43
15:30:00	0.20	0.43
15:45:00	0.80	0.71
16:00:00	0.60	0.43
16:15:00	0.40	0.71
16:30:00	0.60	0.57
16:45:00	0.40	0.71
17:00:00	0.00	0.86
17:15:00	0.60	0.86
17:30:00	1.20	1.14
17:45:00	0.40	0.29
18:00:00	0.40	0.29
18:15:00	0.20	0.14
18:30:00	0.40	0.43
18:45:00	0.20	0.29
19:00:00	0.20	0.43
19:15:00	0.20	0.14
19:30:00	0.20	0.14
19:45:00	0.00	0.14
20:00:00	0.00	0.14
20:45:00	0.20	0.14
21:00:00	0.20	0.29
21:30:00	0.20	0.29
22:15:00	0.40	0.29
22:30:00	0.20	0.14
23:15:00	0.20	0.14
Grand Total	27.60	32.00

Class	Axis	Element	Description	Parameters	Element_Vehicle	Axis/Element
1	07	2	3 08 3	Start - Cap Light View	0121+L-7m, 0121+L-2m & 0121+L-1m	Light
2	07	2	4 07 3	Start Training - Train, Caravan, Boat, etc.	0121+L-7m, 0121+L-2m, 0121+L-1m & 0121+L-0.5m	Light
3	07	2	2	Three axle truck or Bus	0121+L-2m & 0121+L-1m	Medium
4	07	2	2	Three axle truck or Bus	0121+L-2m & 0121+L-1m	Medium
5	14	2	2	Four axle truck	0121+L-2m & 0121+L-1m	Medium
6	07	3	2	Three axle articulated vehicle or rigid vehicle and trailer	0121+L-2m, 0121+L-1m & 0121+L-0.5m	Medium
7	07	4	2	Four axle articulated vehicle or rigid vehicle and trailer	0121+L-2m, 0121+L-1m, 0121+L-0.5m & 0121+L-0.2m	Medium
8	07	5	2	Five axle articulated vehicle or rigid vehicle and trailer	0121+L-2m, 0121+L-1m, 0121+L-0.5m & 0121+L-0.2m	Medium
9	07	6	2	Six (or more) axle articulated vehicle or rigid vehicle and trailer	0121+L-2m, 0121+L-1m, 0121+L-0.5m & 0121+L-0.2m	Medium
10	07	7	4	Tractor (or heavy) truck and trailer	0121+L-2m & 0121+L-1m	Medium
11	07	8	6	Double road train or heavy truck and two trailers	0121+L-2m & 0121+L-1m	Medium
12	07	9	6	Triple road train or heavy truck and three (or more) trailers	0121+L-2m & 0121+L-1m	Medium
14	07	2	2 08 2	Motorcycle	0121+L-1m, 0121+L-0.5m & 0121+L-0.2m	Light
15	07	3	2 08 2	Cycle	0121+L-1m & 0121+L-0.5m	Light

Count of 15 Min Interval



15 Min Interval

Week Commencing  
18 October 2021

Compass direction  
E  
W

Class  
1  
2  
3  
14  
15

Weekday  
Wednesday  
Thursday  
Friday  
Saturday  
Sunday

Count of 15 Min Interval	Column Labels	1	2	3	14	15	nd T
06:30:00	Row Labels	1					1
06:45:00	Row Labels	2					2
07:00:00	Row Labels	4					4
07:15:00	Row Labels	2					2
07:30:00	Row Labels	3					3
07:45:00	Row Labels	4					4
08:00:00	Row Labels	2					2
08:15:00	Row Labels	7					7
08:30:00	Row Labels	5					5
08:45:00	Row Labels	1					1
09:00:00	Row Labels	5				1	6
09:15:00	Row Labels	2					2
09:30:00	Row Labels	3			1		4
09:45:00	Row Labels	5		1			6
10:00:00	Row Labels	6		1			7
10:15:00	Row Labels	5				1	6
10:30:00	Row Labels	4					4

Row Labels	07-19	06-22	06-00	00-00
Wednesday	42	44	46	46
Thursday	40	42	42	42
Friday	44	48	50	50
Saturday	38	41	41	41
Sunday	41	45	45	45
Grand Total	205	220	224	224

Row Labels	Average 5 Days	of Average 7 D
06:30:00	0.20	0.14
06:45:00	0.20	0.29
07:00:00	0.80	0.57
07:15:00	0.20	0.29
07:30:00	0.20	0.43
07:45:00	0.80	0.57
08:00:00	0.20	0.29
08:15:00	1.00	1.00
08:30:00	0.40	0.71
08:45:00	0.20	0.14
09:00:00	0.80	0.86
09:15:00	0.40	0.29
09:30:00	0.20	0.57
09:45:00	0.60	0.86
10:00:00	0.40	1.00
10:15:00	0.40	0.86
10:30:00	0.60	0.57
10:45:00	0.60	1.00

10:45:00	7				7
11:00:00	7			1	8
11:15:00	5			1	6
11:45:00	5				5
12:00:00	1				1
12:15:00	4				4
12:30:00	6				6
12:45:00	7				7
13:00:00	2		4		6
13:15:00	2		1		3
13:30:00	1				1
13:45:00	5		1		6
14:00:00	3				3
14:15:00	3				3
14:30:00	3				3
14:45:00	10			1	11
15:00:00	4				4
15:15:00	3				3
15:30:00	3				3
15:45:00	5				5
16:00:00	3				3
16:15:00	5				5
16:30:00	4				4
16:45:00	5				5
17:00:00	6				6
17:15:00	6				6
17:30:00	7		1		8
17:45:00	1		1		2
18:00:00	2				2
18:15:00	1				1
18:30:00	3				3
18:45:00	2				2
19:00:00	3				3
19:15:00	1				1
19:30:00	1				1
19:45:00	1				1
20:00:00			1		1
20:45:00	1				1
21:00:00	1		1		2
21:30:00	2				2
22:15:00	2				2
22:30:00	1				1
23:15:00	1				1
Grand Total	206	2	10	1	5 ##

11:00:00	0.60	1.14
11:15:00	1.00	0.86
11:45:00	0.40	0.71
12:00:00	0.20	0.14
12:15:00	0.60	0.57
12:30:00	0.80	0.86
12:45:00	0.60	1.00
13:00:00	0.80	0.86
13:15:00	0.40	0.43
13:30:00	0.20	0.14
13:45:00	1.20	0.86
14:00:00	0.60	0.43
14:15:00	0.60	0.43
14:30:00	0.40	0.43
14:45:00	1.60	1.57
15:00:00	0.80	0.57
15:15:00	0.20	0.43
15:30:00	0.20	0.43
15:45:00	0.80	0.71
16:00:00	0.60	0.43
16:15:00	0.40	0.71
16:30:00	0.60	0.57
16:45:00	0.40	0.71
17:00:00	0.00	0.86
17:15:00	0.60	0.86
17:30:00	1.20	1.14
17:45:00	0.40	0.29
18:00:00	0.40	0.29
18:15:00	0.20	0.14
18:30:00	0.40	0.43
18:45:00	0.20	0.29
19:00:00	0.20	0.43
19:15:00	0.20	0.14
19:30:00	0.20	0.14
19:45:00	0.00	0.14
20:00:00	0.00	0.14
20:45:00	0.20	0.14
21:00:00	0.20	0.29
21:30:00	0.20	0.29
22:15:00	0.40	0.29
22:30:00	0.20	0.14
23:15:00	0.20	0.14
Grand Total	27.60	32.00

Week Commencing  <--- Clear for All Data

Include Class 15?

Y

Compass Direction  <--- Clear for All Data

Class  <--- Clear for All Data

Weekday  <--- Clear for All Data

Day	Total	Avg Speed	85th	95th	% >PSL	% >PSL	% >ACPO	% >ACPO	%>DFT	%>DFT
Monday	0	#DIV/0!	#NUM!	#NUM!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Tuesday	0	#DIV/0!	#NUM!	#NUM!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Wednesday	46	28.56	33.75	36.05	0	0.00%	0	0.00%	0	0.00%
Thursday	42	28.32	34.28	38.57	0	0.00%	0	0.00%	0	0.00%
Friday	50	30.91	38.76	41.26	0	0.00%	0	0.00%	0	0.00%
Saturday	41	29.60	37.30	38.80	0	0.00%	0	0.00%	0	0.00%
Sunday	45	29.38	36.96	38.64	0	0.00%	0	0.00%	0	0.00%
5day	138	#DIV/0!	35.85	39.88	0	0.00%	0	0.00%	0	0.00%
7day	224	#DIV/0!	36.16	39.56	0	0.00%	0	0.00%	0	0.00%





# Mallard Pass

Solar Farm

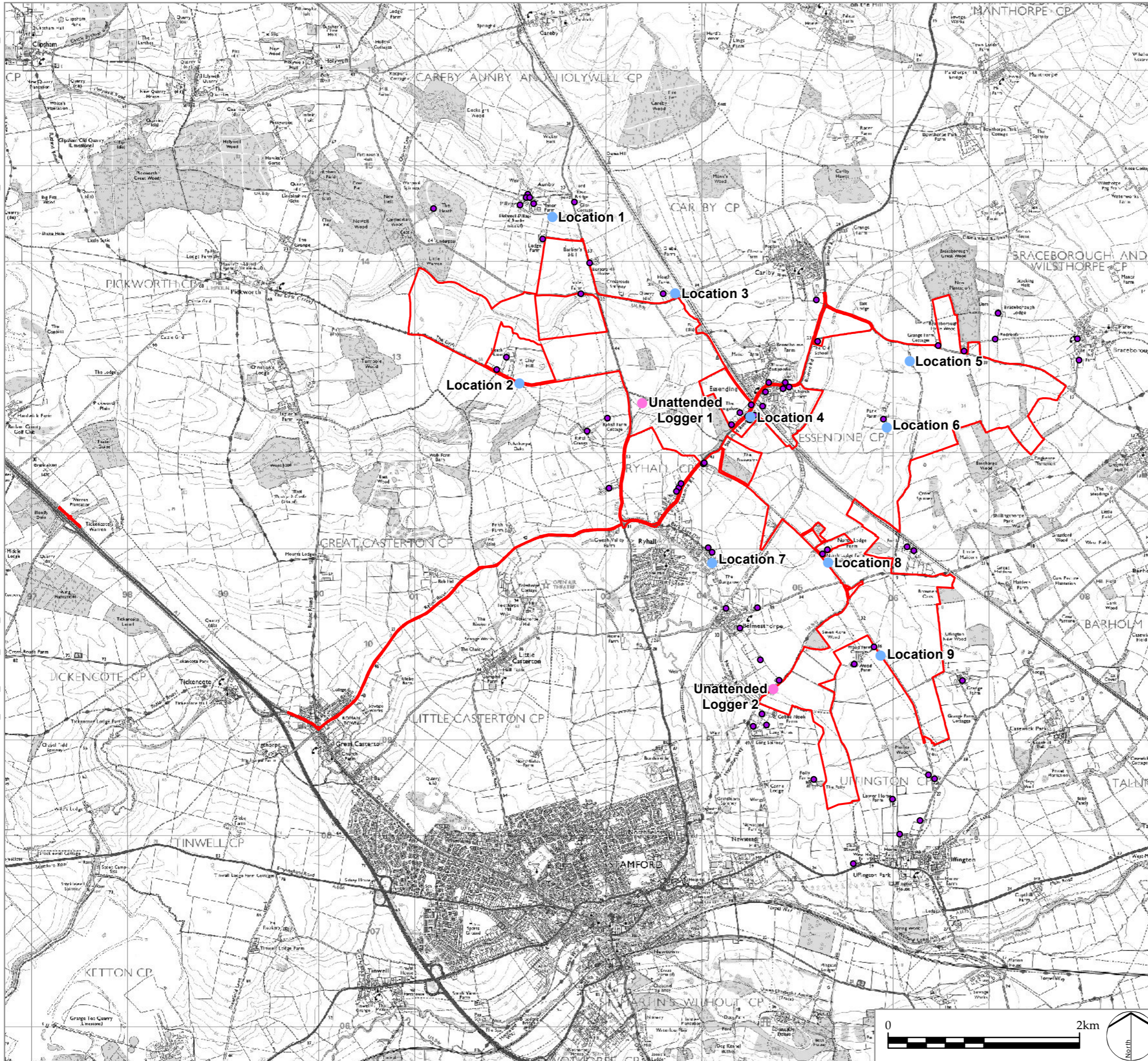
## **Mallard Pass Solar Farm**

**Scoping Report**

**Appendix 7.4: Proposed Noise  
Monitoring Locations**

**February 2022**





- LEGEND**
- Site boundary
  - Nearest Potential Receptor
  - Unattended Noise Monitoring Locations
  - Attended Noise Monitoring Locations

# LD A DESIGN

PROJECT TITLE  
**MALLARD PASS SOLAR FARM:  
 EIA SCOPING REPORT**

DRAWING TITLE  
**Proposed Noise Monitoring Locations**

ISSUED BY	Oxford	T: 01865 887050
DATE	January 2022	DRAWN AG
SCALE @A3	1:40,000	CHECKED DB
STATUS	Final	APPROVED RP

**DWG. NO. Appendix 7.4**

No dimensions are to be scaled from this drawing.  
 All dimensions are to be checked on site.  
 Area measurements for indicative purposes only.

© LDA Design Consulting Ltd. Quality Assured to BS EN ISO 9001 : 2008

Sources: Ordnance Survey, Esri







# Mallard Pass

Solar Farm

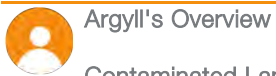
## **Mallard Pass Solar Farm**

**Scoping Report**

**Appendix 7.5a: Argyll Environmental  
Report - Braceborough Grange**

**February 2022**

## EstateSolutions Farm



### Contaminated Land :

The property poses an acceptably low contamination risk and no further investigation is required. However, your attention is drawn to prudent measures suggested on page 4 that you may wish to implement.

### Flood Risk :

Moderate - The Site is susceptible to flooding from one or more sources. A prudent purchaser should ask the vendor whether there has been any historical flooding and confirm the availability of building and contents insurance. You may also want to carry out further assessment and explore options for managing flood risk (see pages 3 & 4).

### Environmental Hazards :

The following other Environmental Hazards have been identified in the immediate vicinity of the Site: Radon 10 to 30%, Radon Protection Measures, Ground Instability Hazard, and Infilled Land One or more Control of Major Accident Hazards (COMAH) sites are located within 500m.



Report on:

**Braceborough Grange, Carlby Road, Braceborough, PE9 4NU**

**Report prepared for:**  
Womble Bond Dickinson

**Client Reference:**

**Report Reference:**  
AEL-4305-PSF-1022716

**National Grid Reference:**  
506741,313059

**Report date:**  
17th May 2021



## Site Location

### Report prepared on

Braceborough Grange, Carlby Road, Braceborough, PE9 4NU

### Site Area (hectares)

216.134

### Current Use

Agricultural

### Proposed Use

Agricultural

### Report Prepared For

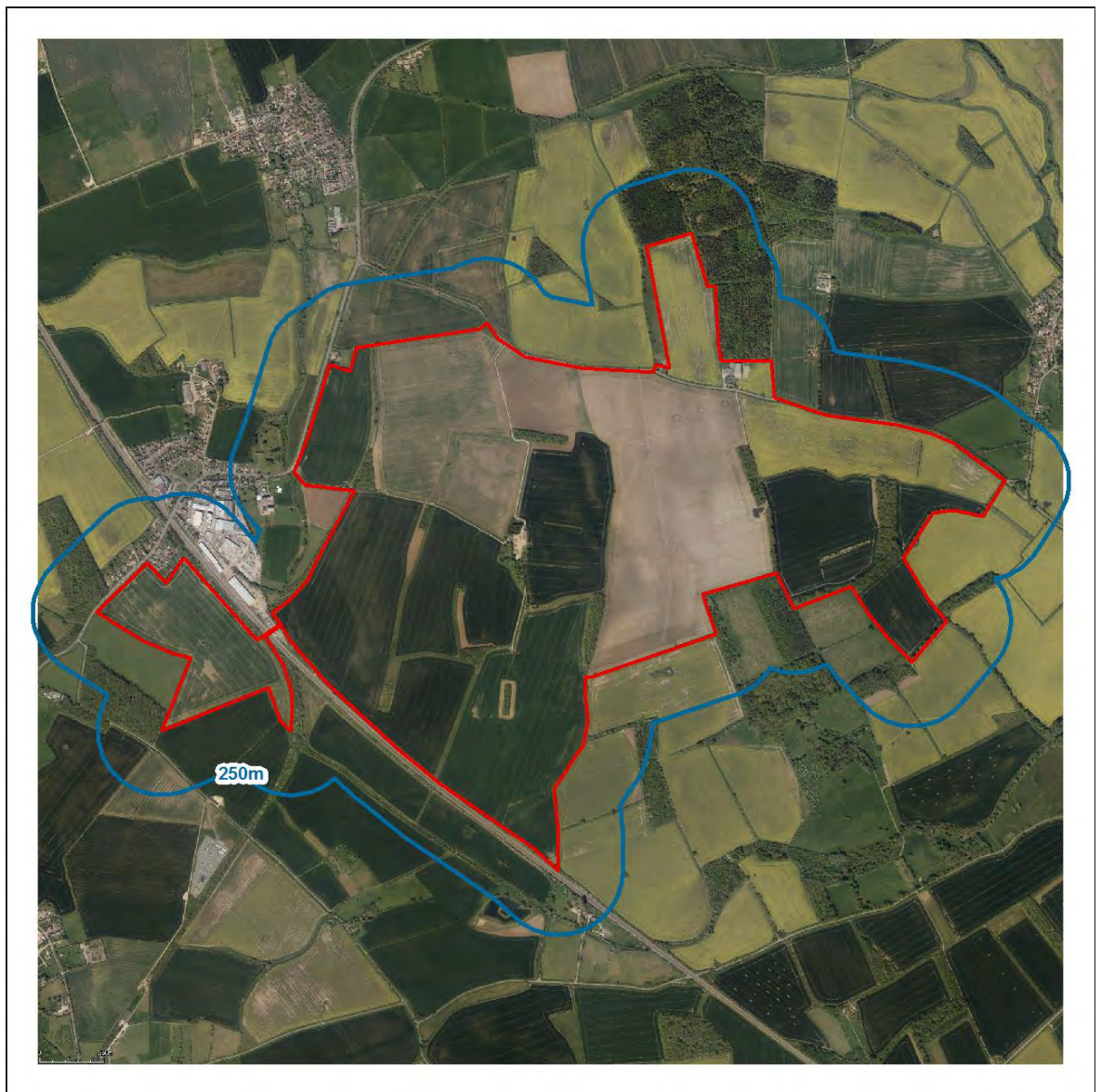
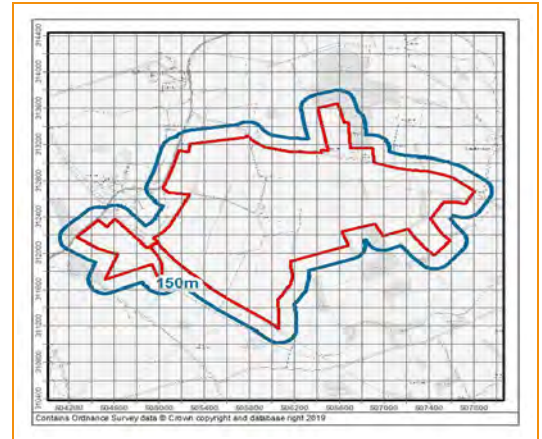
Assumed purchase

### Report Author

Tamsin Jones

Telephone: 0330 036 6115

E-mail: [orders@argyllenviro.com](mailto:orders@argyllenviro.com)





# Summary of Liabilities and Risk

Issue	Evaluation
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## Contaminated Land Liability Assessment



**PASSED**



What is the pollution risk from within the property?	Low to Moderate
What is the pollution risk from the surrounding area?	Low to Moderate
What is the sensitivity of this area to pollution?	High
What is the overall liability risk of this property?	Low to Moderate

**Within the scope of this assessment no liabilities have been identified. However, your attention is drawn to the prudent measures suggested overleaf.**



**PASSED**



## Flood Risk Summary

What is the overall risk of flooding at the farm, assuming flood defences are operational?

Moderate  
(see recommendations below)



## Additional Considerations Summary

Asbestos		Ground Instability		Mining Hazard	
Radon		Coal Mining		Nitrate Vulnerability	
Brine Compensation		Historic Rights of Way		Sensitive Land Uses	
Water Abstractions		Sewage Discharges		Stewardship Schemes	
Unexploded Ordnance		Soil Chemistry		Transmission Lines	
COMAH Sites		Listed Buildings			

Please refer to the Additional Considerations section for further details for those considerations that have been flagged by the report.



**PASSED**



## Contaminated Land Recommendation

### **Tanks, filled ponds, gravel pit and a dismantled railway**

There appear to be a storage tank on the farm, likely to contain fuel or agrochemicals. Spills or leaks could have contaminated the surrounding soils to some degree. This will be more of a problem if the tank is not located on hardstanding, but overall is not likely to result in environmental liability for the farm.

We have identified filled features at the farm, which could have contaminated the ground to some degree. The railway may have been founded on Victorian waste materials such as ash and clinker.

Given the size and setting it is unlikely to result in environmental liability for the farm. However, it could reduce productivity in the area and create problems for future development.

- Ask the vendor to supply any relevant information they have. This could include information on ground conditions and signs of pollution, reduced productivity or ground instability.
- Inspect the area for obstructions, discoloured soil, distressed vegetation and poor soil quality.

### **Groundwater abstraction**

We have identified a groundwater abstraction on the farm for general agricultural and domestic use. While the abstraction does not present a risk in itself, it should be tested for potential pollutants, such as agrochemicals and fuel.

We recommend the following actions:

- Ask the vendor for the results of a recent test
- Contact the relevant Authority to ensure compliance with the permit
- Ensure ongoing testing inline with the abstraction license

### **Discharge consent**

The farm holds an operational discharge consent. This is an Environmental Permit, which allows the release of waste water or effluent to the environment. The permit will stipulate conditions which must be followed.

We recommend the following actions:

- Review who has management responsibility for the permit
- Ensure the discharge activity is well managed and that infrastructure is in a good state of repair
- Contact the Environment Agency to ensure compliance with the permit
- Ask the vendor to confirm that there have been no breaches of the permit conditions

*Please call your report writer on 03300 366 115 to discuss any aspect of this recommendation*



PASSED








## Flood Risk Recommendations

1. Although areas of the Site have been identified as at an increased risk of flooding, owing to the limited extent and location of this risk in relation to the main operational areas, further detailed assessment is not deemed necessary. However, it would be prudent to check with the current vendor to confirm whether or not historical flooding has significantly impacted upon farm operations, facilities and general farming practices.
2. If this risk relates to areas where buildings are present, you may wish to consider further assessment to establish anticipated flood depths which will aid a cost appraisal and installation of flood resistance and/or resilience protection measures (Please contact Argyll for more details).
3. You may wish to consider obtaining insurance terms prior to the completion of this transaction if the main buildings on Site are at risk.





# Contaminated Land Risk Analysis

Investigation	Risk Commentary
 <p><b>Farm description</b></p> <p>The farm is approximately 216 hectares and is formed of arable land, grassland and small areas of woodland.</p> <p>Braceborough Grange is located in the north east comprised of barns, a yard, a tank and a residential property. Park Farm is located in the centre with barns, small agricultural structures and a tank. A Discharge Consent is associated with this farm.</p> <p>No redevelopment is proposed.</p> <p><b>Farm History</b></p> <p>A review of historical maps dating from 1887 shows that the Site has remained relatively similar since 1886. Braceborough Grange and Park Farm have been present since this time, with alterations to the built footprint occurring throughout mapping. Railways were present from the first map edition in the west this was dismantled by 1975.</p> <p>Tanks were noted at Park Farm from 1975, cleared c.2000 with a further tank identified c.2021. In addition a tank was noted at Braceborough Grange c.2021.</p> <p>A gravel pit was identified encroaching the south-east of the Site c.1886, filled/levelled by 1959. A further area of worked ground was identified in the centre from c.1886 levelled/filled by 1975. A sheepwash was identified in the centre c.1904. Ponds were filled across the Site in c.1975 and c.2000.</p>	
<p><b>Argyll's Comment</b></p> 	<p>As a result of the historical and current use of the Site, there is a <b>low to moderate risk</b> of contaminants being present.</p>
 <p><b>Current and historical surrounding area description</b></p> <p>According to current mapping and aerial photography the farm is almost entirely surrounded by arable land or grassland, associated farmyards and small areas of woodland. An industrial estate is identified from 60m north.</p> <p>A review of historical maps dating from 1887 shows the following potentially contaminative uses within 100m of the farm: wider extent of the gravel pit railways adjacent c.1887-present, with a further railway adjacent c.1877 dismantled by 1975, industrial estate 60m north c.2021 and a gasometer adjacent east c.1904-c.1959</p> <p>We have identified the following regulated processes in proximity to the farm:</p> <ul style="list-style-type: none"> <li>• two Control of Major Accident Hazards Sites (COMAH) (159m west and 179m north west)</li> <li>• a Notification of Installations Handling Hazardous Substances (NIHHS) (218m north west)</li> <li>• Planning Hazardous Substance Consents (151m north west and 222m north west).</li> </ul>	
<p><b>Argyll's Comment</b></p> 	<p>The historical and current use of the surrounding area is therefore considered to present a <b>low to moderate risk</b> of affecting the Site.</p>
 <p><b>Water resources and sensitive habitats</b></p> <p>The general area appears to be in agricultural use, with residential properties located on Site at the aforementioned farms.</p> <p>The superficial hydrogeology underlying the Site is classified as a Secondary (A) Aquifer (deposits with moderate permeability), and a Secondary (Undifferentiated) Aquifer (deposits with variable/limited permeability). The bedrock hydrogeology is classified as a Secondary (B) Aquifer (formations with limited permeability), a Secondary (A) Aquifer (deposits with moderate permeability), a Principal Aquifer (highly permeable formations), and an Unproductive Stratum (deposits of negligible permeability).</p> <p>The Site lies within a Zone II Source Protection Zone (SPZ). An SPZ is a protection zone placed around a well or borehole that supplies groundwater of potable quality.</p> <p>There are six abstraction licences located within 500m. The closest of these are a stream abstraction (on Site) for spray irrigation use, and a groundwater abstraction (on Site) for general farming and domestic use.</p> <p>Drains and ponds are located on Site. Finally no designated eco-receptors were identified within a 500m radius of the Site.</p>	

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Argyll's  
Comment



Overall, the Site is therefore considered to have a **high environmental sensitivity**.

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Additional  
Sources of  
Information

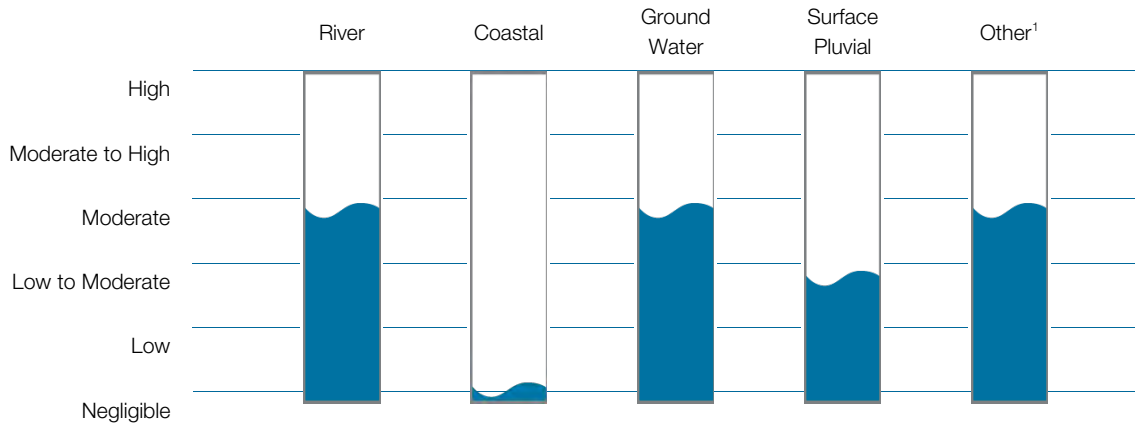
The following additional historical map packs were used to produce this report.

- Envirocheck Ref: 278727578 centred on 506741, 313059.
-



# Flood Risk Screening

<b>Flood Analysis of Whole Farm</b>	What is the overall risk of flooding at the farm, assuming defences fail or are absent or over-topped?	<b>Moderate</b>
<b>Flood Defences Effect</b>	Are there existing flood defences that might benefit the Site?	<b>Yes</b>
	What is the risk of flooding when these defences are operational?	<b>Moderate</b>



**Flood Analysis of Buildings** Are the main farm buildings at significant risk of flooding? **No**

**Riparian Ownership** Is there a water feature located within or adjacent to the Site? **Yes**

**Argyll's Comment**



A riparian owner describes anyone who owns a property where there is a watercourse within or adjacent to the boundaries of their property.

Under common law, a riparian owner has rights and responsibilities relating to the stretch of watercourse that falls within or beside the boundaries of their land. Their primary responsibility is to keep the watercourse free of any obstructions that could hinder normal water flow. If the riparian owner fails to carry out their responsibilities, this could result in civil action.

A riparian owner should also check before carrying out any works near to the edge of a river, as such works may be subject to byelaws. If infringed, this could lead to enforcement action by the Environment Agency.

There is a presumption that the boundary between properties abutting a watercourse is the centre line of that watercourse. To confirm whether this is the case, a solicitor should check the deeds or the Index Map.

The Environment Agency has published useful guidance "Living on the edge" for owners of land or property alongside a watercourse. Sometimes, the Environment Agency or other organisations managing flood risk, may have statutory rights of access to properties which adjoin a watercourse. This may be for for maintenance, repair or rebuilding of any part of the watercourse or for access to or repair of monitoring equipment.

**Development Control** Is there a water feature located within 250m of the Site? **Yes**

**Argyll's Comment**



Sites which lie close to (but do not adjoin) a watercourse, may be subject to planning controls should redevelopment be considered. The Environment Agency and Internal Drainage Boards are normally consulted regarding any development within 50m of a Main River or drainage channel. Navigation authorities are normally consulted regarding any development within 250m of a canal, although this varies on a site by site basis. Please see The Environment Agency website to check if there is a Main River within 20m of your property.

<sup>1</sup>Other factors influencing flood risk include historic flood events, geological indicators of flooding, proximate surface water features and elevation above sea level.

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**Dam and Reservoir Failure**

Could the Site be affected by dam or reservoir failure? **No**

**Argyll's Comment**



The answer is based on detailed models provided by JBA Risk Management. These predict the areas liable to flood around approximately 1700 key dams and reservoirs across England and Wales (if that dam or reservoir were to fail).

---



## Recommendations

1. Although areas of the Site have been identified as at an increased risk of flooding, owing to the limited extent and location of this risk in relation to the main operational areas, further detailed assessment is not deemed necessary. However, it would be prudent to check with the current vendor to confirm whether or not historical flooding has significantly impacted upon farm operations, facilities and general farming practices.
2. If this risk relates to areas where buildings are present, you may wish to consider further assessment to establish anticipated flood depths which will aid a cost appraisal and installation of flood resistance and/or resilience protection measures (Please contact Argyll for more details).
3. You may wish to consider obtaining insurance terms prior to the completion of this transaction if the main buildings on Site are at risk.



## Additional Considerations

Item	Summary	Suggested Action
<b>Asbestos (Commercial)</b>	If the buildings at the Site were constructed or renovated during the period between 1950 and 1999, then the fabric of these buildings may contain asbestos in a variety of forms.	Check Asbestos Register and Management Plan
<b>Historic Rights of Way</b>	A review of historic mapping indicates there may be former rights of way on the farm. It is possible that these could be re-instated by Natural England under the Discovering Lost Ways project. This project aims to identify former rights of way which have disappeared from local authority maps and statements, and will be run until 2026. Argyll can conduct a desktop assessment, showing the location of such historic rights of way and assessing the risk of whether these might be subject to future re-instatement.	Contact Natural England or Natural Resources Wales for further information
<b>Sewage Discharges</b>	The data indicates that the Site has an operational sewage treatment system and an associated discharge consent. Discharge consents are granted by the Environment Agency (EA) under Section 84(1) of the Water Resources Act 1991. We would advise consultation with the local EA office to determine the conditions placed on any consent or whether an exemption has been granted. If a consent is present, you should check whether there have been any breaches or discharge limits. It would be prudent to check any existing equipment to determine its age and whether replacement/upgrade is likely to be necessary within the short term.	Confirm with current owner whether or not this discharge is located on the farm. If so, confirm that the discharge complies with all current regulations and equipment is in good order
<b>Nitrate Vulnerable Zones</b>	The farm is located within a Nitrate Vulnerable Zone. Nitrate Vulnerable Zones are designated areas of land draining into waters assessed to be polluted by nitrates. As the farm lies within a designated zone the land owner will need to comply with the requirements of the Nitrates Action Programme regulated by DEFRA and the Environment Agency.	Contact the Environment Agency for further information
<b>Soils</b>	BGS soil chemistry data for the Site indicates 15 - 25 mg/kg of arsenic, <15 mg/kg of arsenic, <1.8 mg/kg of cadmium, 40 - 60 mg/kg of chromium, 60 - 90 mg/kg of chromium, <100 mg/kg of lead, 15 - 30 mg/kg of nickel. 30 - 45 mg/kg of nickel. <15 mg/kg of nickel.	None required
<b>Agricultural Land Classifications</b>	The farm is located within a Grade 3 classification (good). The classification system forms part of the planning system in England and Wales. Agricultural land is classified into five categories according to versatility and suitability for growing crops. The top three grades 1, 2 and 3a are considered the best and most versatile land, 3b – 5 are considered moderate to very poor.	Contact Natural England for further information
<b>Water Abstractions</b>	Water abstractions have been identified at the Site. It would be prudent to check the terms of these licences to ensure that there have been no breaches of licence conditions and that continued abstraction is compliant with the permitted rates for the specified use(s).  It should be noted that The Water Act 2003 changes how water abstraction is regulated, and there may be implications for the current licence holder.	Contact the Environment Agency or Natural Resources Wales for further information
<b>Radon 10 to 30%</b>	Employers are required by the Management of Health and Safety at Work Regulations 1999 to assess risks from radon in workplaces.  You may therefore wish to contact the Health Protection Agency for further information regarding radon monitoring.	Contact the Public Health England for further information regarding radon monitoring.

<b>Radon Protection Measures</b>	If redevelopment or building extensions are proposed, radon protection may be required. As the data provided in this report is not site specific, it would be prudent to order a more detailed radon report from the British Geological Survey ( <a href="http://www.bgs.ac.uk/georeports">www.bgs.ac.uk/georeports</a> ) or contact the local Building Controls Officer to clarify the level of radon protection required (if any) in accordance with Building Research Establishment report BR211.	Contact the Public Health England for further information regarding radon monitoring.
<b>Ground Instability Hazard</b>	As a potential ground instability hazard was identified, you may wish to consult a local RICS accredited surveyor and/or review any available geotechnical surveys.	Contact RICS accredited Surveyor for further guidance
<b>COMAH</b>	One or more Control of Major Accident Hazards (COMAH) sites are located within 500m. Although risks at such facilities are controlled under the COMAH Regulations you should be aware that the Site may lie within an evacuation zone which could be affected if an accident occurred. Additionally, planning restrictions may apply. If redevelopment is planned it would be prudent to contact the local planning department. Further information is available at <a href="http://www.hse.gov.uk/comah/">www.hse.gov.uk/comah/</a>	Contact the Health and Safety Executive for further information

## Generic Guidance

Item	Summary	Suggested Action
<b>Energy Performance Certificate</b>	Under the Energy Performance of Buildings (England and Wales) Regulations 2012 and the Energy Performance of Buildings (Scotland) Regulations 2008, there is a requirement for all buildings to have an Energy Performance Certificate (EPC) upon their construction, sale or lease (and in some cases when the building is modified).	Check EPC or conduct energy assessment
<b>Silage, Slurry, Oil, Storage (Farms)</b>	Under the Control of Pollution (Silage, Slurry and Agricultural Fuel Oil) Regulations 1991, silage, slurry or fuel storage facilities constructed after March 1991 have to be designed and built to minimum standards to prevent the pollution of Controlled Waters.	Compliance Audit
<b>Above and Below Ground Storage</b>	It is common for agricultural premises to store a variety of substances in above ground and underground storage tanks (ASTs and USTs). Most commonly red diesel, heating oil and occasionally petrol on larger estates. There is no reliable database of underground storage tanks nor are all above ground tanks marked on historical maps.	Check all tanks and surrounding land for signs of leaks or spills, such as stained ground or vegetation die-back
<b>Tree Preservation Orders / Hedgerows</b>	The objective of a TPO is to protect trees that make a significant impact on their surroundings (important feature within the local landscape or an historical association within the local area). If a tree has an associated TPO then it is an offence to cut down, prune, uproot, wilfully damage or destroy it.  Under The Town and Country Planning (Tree Preservation) (England) Regulations 2012, the existing regulations have continued for England and Wales. Farms situated in Wales will follow guidance regulated by the Welsh Assembly Government.	Contact the Local Planning Authority for further information
<b>Hedgerow Regulations 1997</b>	The Hedgerow Regulations came into force in 1997 to protect the most important hedges in the countryside from being removed. The regulations apply to hedges which are more than 20 metres long or which meet another hedgerow at either end. If you remove a hedgerow without permission you are liable to an unlimited fine and may have to replace the hedgerow.	Contact the Local Planning Authority for further information

Item	Summary	Suggested Action
<b>Change of Use Redevelopment</b>	Proposed changes in land use require permission from the Local Authority and are subject to conditions as part of the statutory planning process.	Contact local planning authority or speak with planning consultant

Whilst this assessment is primarily a desktop assessment of potential soil and groundwater liabilities, the above potential liability considerations that fall outside the scope of the Risk Analysis Methodology have been identified.

Additional sources of information may be available for the Site. These sources could include previous environmental reports (including audits, contaminated land investigation and remediation reports), valuation reports (including property observation checklists), a Land Quality Record, and property deeds. Argyll Environmental would be pleased to review any reports that are available and revise this report accordingly. This may entail additional fees depending upon the volume and complexity of information available. Please contact us for further information.

## Contents of the Data Section

Section	Description
<b>Tabular Summary</b>	<p>This section presents a tabular summary of information found for the Site and surrounding area. The data is presented in three buffer zones for ease of reference: data found at the Site, from 1-250m and from 251-500m.</p> <p>If a database has been searched the number of records found will be displayed under the relevant search band. If a database is not available or has not been searched, this will be represented by the abbreviation N/A under the relevant search band.</p>
<b>Current Land Use Mapping</b>	<p>This section provides information on current land uses and is divided into three sections, statutory information, waste and current industrial uses. It is preceded by two maps.</p>
<b>Statutory Information</b>	<p>This section presents detailed statutory information for the Site and surrounding area (up to 500m depending upon dataset). The Map ID of each feature is indicated (where applicable) followed by specific information on each feature and its distance and direction from the Site.</p> <p>If no data is identified then the section will be omitted.</p>
<b>Waste</b>	<p>This section presents detailed information on waste and landfill sites for the Site and surrounding area (up to 500m depending upon dataset). The Map ID of each feature is indicated (where applicable) followed by specific information on each feature and its distance and direction from the Site.</p> <p>If no data is identified then the section will be omitted.</p>
<b>Current Industrial Land Use</b>	<p>This section presents detailed information on current land use for the Site and surrounding area (0-250m). The Map ID of each feature is indicated (where applicable) followed by specific information on each feature and its distance and direction from the Site.</p> <p>If no data is identified then the section will be omitted.</p>
<b>Historical Land Use Mapping</b>	<p>The Historical Land Use Map presents 1:10,000 scale and selected 1:2,500 scale (tanks and energy facilities) historical land use information within 250m of the Site boundary.</p>
<b>Historical Land Use</b>	<p>This section presents selected information on historical land use for the Site and surrounding area (0-250m). The Map ID of each feature is indicated (where applicable) followed by specific information on each feature and its distance and direction from the Site.</p> <p>If no data is identified then the section will be omitted.</p>
<b>Aquifer Designations and Geology</b>	<p>This section is preceded by two maps that present information relating to the aquifer designations beneath the Site. The first of these maps indicates the designation of the Superficial geology. The second map presents the aquifer designation of the solid geology.</p> <p>These maps are followed by detailed information in relation to aquifer designations/groundwater vulnerability and geology at the Site and surrounding area (0-500m).</p> <p>If no data is identified then the section will be omitted.</p>
<b>Environmental Sensitivity</b>	<p>This section presents detailed information on the environmental sensitivity of the Site and surrounding area (up to 500m depending upon dataset) and is preceded by two maps. The first shows areas with statutory designations, the second shows source protection zones. The Map ID of each feature is indicated (where applicable) followed by specific information on each feature and its distance and direction from the Site.</p> <p>If no data is identified then the section will be omitted.</p>
<b>Natural and Mining Related Hazards</b>	<p>This section contains information on natural and mining related hazards which may affect the Site. These include subsidence, radon and mining.</p> <p>If no data is identified then the section will be omitted.</p>
<b>Farm Specific Issues</b>	<p>This section firstly presents data relating to designated features and areas that may be present on or in proximity to a farm and could affect or restrict farming operations (e.g. listed buildings, heritage sites etc.).</p> <p>If no data is identified then the section will be omitted.</p>



**Soil Chemistry**

This section is preceded by five maps that present information relating to the concentrations of Arsenic, Cadmium, Chromium, Lead and Nickel within soils beneath the farm and surrounding area. The maps are immediately followed by the detailed data.

If no data is identified then the section will be omitted.

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**Flooding Risk Information**

This section presents information relating to the four main types of flooding – River flooding, Coastal/tidal flooding, surface water flooding and groundwater flooding. Some of this data will be preceded by an associated map.

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## Tabular Summary (1)

### Statutory Information

Authorisations	On-site	1-250m	251-500m
Local Authority Pollution Prevention and Controls	0	0	N/A
Local Authority Integrated Pollution Prevention and Controls	0	0	N/A
Integrated Pollution Controls	0	0	N/A
Integrated Pollution Prevention And Control	0	0	N/A
Registered Radioactive Substances	0	0	N/A
Discharges	On-site	1-250m	251-500m
Discharge Consents	1	6	N/A
Water Industry Act Referrals	0	0	N/A
Control of Major Accident Hazards Sites	0	2	1
Explosive Sites	0	0	0
Notification of Installations Handling Hazardous Substances	0	1	0
Planning Hazardous Substance Consents	0	6	0
Contraventions	On-site	1-250m	251-500m
Contaminated Land Register Entries and Notices	0	0	N/A
Local Authority Pollution Prevention and Control Enforcements	0	0	N/A
Enforcement and Prohibition Notices	0	0	N/A
Planning Hazardous Substance Enforcements	0	0	0
Substantiated Pollution Incident Register	0	1	0
Prosecutions Relating to Authorised Processes	0	0	N/A
Prosecutions Relating to Controlled Waters	0	0	N/A

### Waste

Waste/Landfill Sites	On-site	1-250m	251-500m
BGS Recorded Landfill Sites	0	0	0
Integrated Pollution Control Registered Waste Sites	0	0	N/A
Licensed Waste Management Facilities (Landfill Boundaries)	0	0	N/A
Licensed Waste Management Facilities (Locations)	0	0	0
Local Authority Recorded Landfill Sites	0	0	0
Registered Landfill Sites	0	0	0
Registered Waste Transfer Sites	0	0	N/A
Registered Waste Treatment or Disposal Sites	0	0	N/A
Historical Landfill Sites	0	0	0

### Current Land Use

Current Potentially Contaminative Uses	On-site	1-250m	251-500m
Contemporary Trade Directory Entries	0	6	N/A
Fuel Station Entries	0	0	N/A
Other Features	On-site	1-250m	251-500m
Overhead Transmission Lines	0	0	N/A

### Historical Land Use

Historical Potentially Contaminative Uses	On-site	1-250m	251-500m
Potentially Contaminative Industrial Uses (Past Land Use)	5	5	N/A
Historical Tanks And Energy Facilities	1	4	N/A

## Historical Land Use

Potentially Infilled Land	On-site	1-250m	251-500m
Former Marshes	0	0	N/A
Potentially Infilled Land (Non-Water)	1	0	N/A
Potentially Infilled Land (Water)	0	1	N/A

## Groundwater Vulnerability

Hydrogeology	On-site	1-250m	251-500m
Superficial Aquifer Designations	4	1	0
Bedrock Aquifer Designations	11	6	0
Geology	On-site	1-250m	251-500m
BGS 1:625,000 Solid Geology	3	N/A	N/A

## Environmental Sensitivity

Environmental Sensitivity	On-site	1-250m	251-500m
Areas of Outstanding Natural Beauty	0	0	N/A
Environmentally Sensitive Areas	0	0	N/A
Forest Parks	0	0	N/A
Local Nature Reserves	0	0	0
Marine Nature Reserves	0	0	0
National Nature Reserves	0	0	0
National Parks	0	0	N/A
National Scenic Areas	0	0	N/A
Nitrate Sensitive Areas	0	N/A	N/A
Nitrate Vulnerable Zones	2	N/A	N/A
Ramsar Sites	0	0	0
River Quality Biology Sampling Points	0	0	N/A
River Quality Chemistry Sampling Points	0	0	N/A
Nearest Surface Water Feature	1	0	N/A
Sites of Special Scientific Interest	0	0	0
Special Areas of Conservation	0	0	0
Special Protection Areas	0	0	0
Water Abstractions	2	4	0
Source Protection Zones	2	0	N/A

## Natural and Mining Related Hazards

Subsidence	On-site	1-250m	251-500m
Collapsible Ground Stability Hazards	1	1 <sup>2</sup>	N/A
Compressible Ground Stability Hazards	1	1	N/A
Ground Dissolution Stability Hazards	1	1	N/A
Landslide Ground Stability Hazards	1	1	N/A
Running Sand Ground Stability Hazards	1	1	N/A
Shrinking or Swelling Clay Subsidence Hazards	1	1	N/A
Non-Coal Mining Hazards	0	0	N/A
Radon	On-site	1-250m	251-500m
Radon Potential	1	N/A	N/A
Radon Protection Measures	1	N/A	N/A

<sup>2</sup>Ground stability hazards are only searched to a radius of 50m from the Site boundary.

## Natural and Mining Related Hazards

Mining	On-site	1-250m	251-500m
Brine Compensation Areas	0	N/A	N/A
Coal Mining Affected Areas	0	N/A	N/A
Natural and Mining Cavities	0	0	N/A
Mining Instability	0	0	N/A
BGS Recorded Mineral Sites	0	0	N/A

## Farm Specific Issues

Farm Specific Issues	On-site	1-250m	251-500m
Listed Buildings	0	3	3
World Heritage Sites	0	0	0
Scheduled Monuments	0	1	1
Historic Battlefields	0	0	0
Historic Landscapes	0	0	0
Country Parks	0	0	0
Ancient Woodlands	1	1	0

Soils	On-site	1-250m	251-500m
BGS Soil Chemistry Arsenic	2	0	0
BGS Soil Chemistry Cadmium	1	0	0
BGS Soil Chemistry Chromium	2	0	1
BGS Soil Chemistry Lead	1	0	0
BGS Soil Chemistry Nickel	3	0	0

## Tabular Summary (2)

### Statutory Information

Authorisations	On-site	1-250m	251-500m
Local Authority Pollution Prevention and Controls	0	0	N/A
Local Authority Integrated Pollution Prevention and Controls	0	0	N/A
Integrated Pollution Controls	0	0	N/A
Integrated Pollution Prevention And Control	0	0	N/A
Registered Radioactive Substances	0	0	N/A
Discharges	On-site	1-250m	251-500m
Discharge Consents	0	1	N/A
Water Industry Act Referrals	0	0	N/A
Control of Major Accident Hazards Sites	0	0	0
Explosive Sites	0	0	0
Notification of Installations Handling Hazardous Substances	0	0	0
Planning Hazardous Substance Consents	0	0	0
Contraventions	On-site	1-250m	251-500m
Contaminated Land Register Entries and Notices	0	0	N/A
Local Authority Pollution Prevention and Control Enforcements	0	0	N/A
Enforcement and Prohibition Notices	0	0	N/A
Planning Hazardous Substance Enforcements	0	0	0
Substantiated Pollution Incident Register	0	0	0
Prosecutions Relating to Authorised Processes	0	0	N/A
Prosecutions Relating to Controlled Waters	0	0	N/A

### Waste

Waste/Landfill Sites	On-site	1-250m	251-500m
BGS Recorded Landfill Sites	0	0	0
Integrated Pollution Control Registered Waste Sites	0	0	N/A
Licensed Waste Management Facilities (Landfill Boundaries)	0	0	N/A
Licensed Waste Management Facilities (Locations)	0	0	0
Local Authority Recorded Landfill Sites	0	0	0
Registered Landfill Sites	0	0	0
Registered Waste Transfer Sites	0	0	N/A
Registered Waste Treatment or Disposal Sites	0	0	N/A
Historical Landfill Sites	0	0	0

### Current Land Use

Current Potentially Contaminative Uses	On-site	1-250m	251-500m
Contemporary Trade Directory Entries	0	0	N/A
Fuel Station Entries	0	0	N/A
Other Features	On-site	1-250m	251-500m
Overhead Transmission Lines	0	0	N/A

### Historical Land Use

Historical Potentially Contaminative Uses	On-site	1-250m	251-500m
Potentially Contaminative Industrial Uses (Past Land Use)	0	2	N/A
Historical Tanks And Energy Facilities	0	0	N/A

## Historical Land Use

Potentially Infilled Land	On-site	1-250m	251-500m
Former Marshes	0	0	N/A
Potentially Infilled Land (Non-Water)	0	2	N/A
Potentially Infilled Land (Water)	0	0	N/A

## Groundwater Vulnerability

Hydrogeology	On-site	1-250m	251-500m
Superficial Aquifer Designations	3	3	0
Bedrock Aquifer Designations	2	5	0
Geology	On-site	1-250m	251-500m
BGS 1:625,000 Solid Geology	2	N/A	N/A

## Environmental Sensitivity

Environmental Sensitivity	On-site	1-250m	251-500m
Areas of Outstanding Natural Beauty	0	0	N/A
Environmentally Sensitive Areas	0	0	N/A
Forest Parks	0	0	N/A
Local Nature Reserves	0	0	0
Marine Nature Reserves	0	0	0
National Nature Reserves	0	0	0
National Parks	0	0	N/A
National Scenic Areas	0	0	N/A
Nitrate Sensitive Areas	0	N/A	N/A
Nitrate Vulnerable Zones	2	N/A	N/A
Ramsar Sites	0	0	0
River Quality Biology Sampling Points	0	0	N/A
River Quality Chemistry Sampling Points	0	0	N/A
Nearest Surface Water Feature	1	0	N/A
Sites of Special Scientific Interest	0	0	0
Special Areas of Conservation	0	0	0
Special Protection Areas	0	0	0
Water Abstractions	0	0	1
Source Protection Zones	3	0	N/A

## Natural and Mining Related Hazards

Subsidence	On-site	1-250m	251-500m
Collapsible Ground Stability Hazards	1	0 <sup>3</sup>	N/A
Compressible Ground Stability Hazards	1	0	N/A
Ground Dissolution Stability Hazards	1	1	N/A
Landslide Ground Stability Hazards	1	0	N/A
Running Sand Ground Stability Hazards	1	0	N/A
Shrinking or Swelling Clay Subsidence Hazards	1	1	N/A
Non-Coal Mining Hazards	0	0	N/A
Radon	On-site	1-250m	251-500m
Radon Potential	1	N/A	N/A
Radon Protection Measures	1	N/A	N/A

<sup>3</sup>Ground stability hazards are only searched to a radius of 50m from the Site boundary.

## Natural and Mining Related Hazards

Mining	On-site	1-250m	251-500m
Brine Compensation Areas	0	N/A	N/A
Coal Mining Affected Areas	0	N/A	N/A
Natural and Mining Cavities	0	0	N/A
Mining Instability	0	0	N/A
BGS Recorded Mineral Sites	0	1	N/A

## Farm Specific Issues

Farm Specific Issues	On-site	1-250m	251-500m
Listed Buildings	0	3	3
World Heritage Sites	0	0	0
Scheduled Monuments	0	1	1
Historic Battlefields	0	0	0
Historic Landscapes	0	0	0
Country Parks	0	0	0
Ancient Woodlands	1	1	0
Soils	On-site	1-250m	251-500m
BGS Soil Chemistry Arsenic	2	0	0
BGS Soil Chemistry Cadmium	1	0	0
BGS Soil Chemistry Chromium	2	0	1
BGS Soil Chemistry Lead	1	0	0
BGS Soil Chemistry Nickel	3	0	0

## Flooding

Current Flood Risk	On-site	1-250m	251-500m
Flooding From Rivers or Sea	1	0	0
Flooding From Rivers or Sea (in an Extreme Event)	1	0	0
Areas Benefiting from Flood Defences	0	0	0
Flood Water Storage Areas	0	0	0
Flood Defences	2	1	0
Risk of Flooding from Rivers and Sea	3	0	0
Groundwater Flood Risk	3	0	0
Surface Water Flooding (1:75 year rainfall event)	2	0	1
Surface Water Flooding (1:200 year rainfall event)	2	1	0
Surface Water Flooding (1:1,000 year rainfall event)	2	1	0
Dam or Reservoir Failure	0	1	0
Historical Flooding	On-site	1-250m	251-500m
Historical Flood Events	0	0	0
Geological Indicators of Flooding	2	0	0
Other Flood Information	On-site	1-250m	251-500m
Surface Water Feature	18	9	9
MasterMap Water Network	64	54	27

### Tabular Summary Explanation

Argyll has carefully selected a range of datasets which are considered appropriate for the intended use of this report. Each dataset is searched to a set radius from the Site boundary and the tabular summary is divided into different search bands accordingly. If a database is searched and information is found, then the number of records available are detailed in the table above. If the database was searched and no data was found, then a zero will be present. If a database was not searched then the abbreviation N/A will be found, indicating this information was not available at the radius searched.

## Landfill Site Information

Registered landfill site boundaries (where available), are shown on the map as a red diagonal hatched polygon and referred to in the map legend as Registered Landfill Sites. At present no complete national dataset exists for landfill site boundaries, therefore a point grid reference provided by the data supplier is used for some landfill sites. The point grid references supplied provide only an approximate position, and can vary from the site entrance to the centre of the site. A point cannot properly define landfill boundaries therefore Landmark constructs a 250 metre or 100 metre "buffer" zone around the point to warn of the possible presence of landfill. The "buffer" zone is shown on the map as an orange crosshatched area and is referred to in the map legend as Potential Landfill Buffer.

Local Authority landfill data is sourced from individual local authorities that were able to provide information on sites operating prior to the introduction of the Control of Pollution Act (COPA) in 1974. Appropriate authorities are listed under Local Authority Landfill Coverage with an indication of whether or not they were able to make landfill data available. Details of any records identified are disclosed. You should be aware that if the local authority had landfill data but passed it to the relevant Environment Agency office, it does not necessarily mean that local authority landfill data is now included in our other Landfill datasets. In addition if no data has been made available for all or part of the search area, you should be aware that a negative response under 'Local Authority Recorded Landfill Sites' does not necessarily confirm that no local authority landfills exist.

## Subsidence Hazards

Information on subsidence hazards is provided by the British Geological Survey (BGS). Information present within 250m of the Site is reported under Natural and Mining Related Hazards. Due to the level of detail of this data and the complexities of the real world, the BGS recommends a precautionary approach when using this information and advises taking the worst reading noted for each dataset within the vicinity of a property. Therefore, Argyll reports the presence of a ground stability or non-coal related mining hazard in the Risk Analysis section based on the highest reading found within 50m of the Site boundary.





# Statutory Information (1)

## Discharges

### Discharge Consents

Map ID	Details	Distance	Direction
1	Operator: Sentry Farms Group Plc, Property Type: Arable Farming, Location: Park Farm Essendine, Stamford, Lincs, Pe9 3ur, Authority: Environment Agency, Anglian Region, Catchment Area: Catchment 29 Unknown Detail, Permit Ref: Gwnlf40738, Permit Version: 1, Effective Date: 1st April 1999, Issued Date: 19th July 2000, Revocation Date: Not Supplied, Discharge Type: Trade Discharge - Agricultural And Surface, Discharge Environment: Onto Land, Receiving Water: Groundwater, Status: Deemed Groundwater Regulations Authorisation, Positional Accuracy: Located by supplier to within 10m.	On Site	E
2	Operator: Anglian Water Services Limited, Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY), Location: Essendine Terminal Pumping Station, Bourne Road Essendine, Stamford, Lincolnshire, Pe9 4lh, Authority: Environment Agency, Anglian Region, Catchment Area: Not Supplied, Permit Ref: Aw5nf5257, Permit Version: 2, Effective Date: 25th August 2020, Issued Date: 25th August 2020, Revocation Date: Not Supplied, Discharge Type: Sewage Discharges - Pumping Station - Water Company, Discharge Environment: Freshwater Stream/River, Receiving Water: The West Glen, Status: Varied under EPR 2010, Positional Accuracy: Located by supplier to within 10m.	111m	NW
3	Operator: Anglian Water Services Limited, Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY), Location: Essendine Terminal Pumping Station, Bourne Road Essendine, Stamford, Lincolnshire, Pe9 4lh, Authority: Environment Agency, Anglian Region, Catchment Area: Not Supplied, Permit Ref: Aw5nf5257, Permit Version: 2, Effective Date: 25th August 2020, Issued Date: 25th August 2020, Revocation Date: Not Supplied, Discharge Type: Public Sewage: Storm Sewage Overflow, Discharge Environment: Freshwater Stream/River, Receiving Water: The West Glen, Status: Varied under EPR 2010, Positional Accuracy: Located by supplier to within 10m.	111m	NW
4	Operator: Tarmac Roadstone Ltd (East Midlands), Property Type: Undefined Or Other, Location: Essendine Sand And Gravel Pit Greatford Road, Essendine, Leics, Authority: Environment Agency, Anglian Region, Catchment Area: Not Supplied, Permit Ref: Pr5nf5162, Permit Version: 1, Effective Date: 5th June 1986, Issued Date: 5th June 1986, Revocation Date: 26th February 1992, Discharge Type: Trade Effluent, Discharge Environment: Freshwater Stream/River, Receiving Water: River West Glen, Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989, Positional Accuracy: Located by supplier to within 10m.	166m	SE
5	Operator: Anglian Water Services Limited, Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY), Location: Essendine Terminal Pumping Station, Bourne Road Essendine, Stamford, Lincolnshire, Pe9 4lh, Authority: Environment Agency, Anglian Region, Catchment Area: Not Given, Permit Ref: Aw5nf5257, Permit Version: 1, Effective Date: 31st July 1989, Issued Date: 31st July 1989, Revocation Date: 24th August 2020, Discharge Type: Public Sewage: Storm Sewage Overflow, Discharge Environment: Freshwater Stream/River, Receiving Water: West Glen, Status: Post National Rivers Authority Legislation where issue date > 31/08/1989, Positional Accuracy: Located by supplier to within 100m.	172m	NW
6	Operator: Anglian Water Services Limited, Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY), Location: Essendine Terminal Pumping Station, Bourne Road Essendine, Stamford, Lincolnshire, Pe9 4lh, Authority: Environment Agency, Anglian Region, Catchment Area: Not Given, Permit Ref: Aw5nf453, Permit Version: 1, Effective Date: 11th February 1969, Issued Date: 11th February 1969, Revocation Date: 6th June 1989, Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company, Discharge Environment: Into And/Or Watercourse, Receiving Water: West Glen, Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989, Positional Accuracy: Located by supplier to within 100m.	172m	NW

## Discharge Consents

Map ID	Details	Distance	Direction
7	Operator: Anglian Water Services Limited, Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY), Location: Essendine Terminal Pumping Station, Bourne Road Essendine, Stamford, Lincolnshire, Pe9 4lh, Authority: Environment Agency, Anglian Region, Catchment Area: Not Given, Permit Ref: Aw5nf453, Permit Version: 1, Effective Date: 11th February 1969, Issued Date: 11th February 1969, Revocation Date: 6th June 1989, Discharge Type: Storm /emergency overflow, Discharge Environment: Into And/Or Watercourse, Receiving Water: West Glen, Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989, Positional Accuracy: Located by supplier to within 100m.	172m	NW

## Hazardous Sites

### Control of Major Accident Hazard Sites (COMAH)

Map ID	Details	Distance	Direction
8	Name: The Heys Group Ltd, Location: Meadow Park Industrial Estate, Bourne Road, Essendine, Stamford, Lincolnshire, PE9 4LT, Reference: Not Supplied, Type: Upper Tier, Status: Active, Positional Accuracy: Automatically positioned to the address.	159m	W
9	Name: Heys Group Limited (The), Location: Essendine, Bourne Road, Stamford, Pe9, Reference: Not Supplied, Type: Upper Tier, Status: Active, Positional Accuracy: Manually positioned to the address or location.	179m	NW
10	Name: Heys Group Ltd (The), Location: Essendine, Bourne Road, Stamford, Rutland, Pe9, 4LE, Reference: Not Supplied, Type: Upper Tier, Status: Active, Positional Accuracy: Manually positioned within the geographical locality.	289m	NW

### Notification of Installations Handling Hazardous Substances (NIHHS)

Map ID	Details	Distance	Direction
11	Name: Stamford Storage Limited, Location: Bourne Road Near, STAMFORD, Lincolnshire, PE9 4LT, Status: Not Active, Positional Accuracy: Automatically positioned in the proximity of the address.	218m	NW

### Planning Hazardous Substance Consents

Map ID	Details	Distance	Direction
12	Name: Stamford Storage, Location: Bourne Road, Essendine, STAMFORD, Lincolnshire, PE9 4LT, Authority: Rutland Unitary Council, Planning Support, Application Ref: Hza/1992/0536, Hazardous Substance: Bromine, Maximum Quantity: 1200 Bromine, Application Date: 28th September 1992, Decision: Deemed Consent Granted, Positional Accuracy: Located by supplier to within 10m.	151m	NW
13	Name: Stamford Storage, Location: Bourne Road, Essendine, Authority: Rutland Unitary Council, Planning Support, Application Ref: Hza/1999/0877, Hazardous Substance: Phosphorus trihydride (phosphine), Maximum Quantity: 0 Phosphorus trihydride (phosphine), Application Date: 22nd December 1999, Decision: Withdrawn, Positional Accuracy: Located by supplier to within 10m.	151m	NW
14	Name: Stamford Storage, Location: Bourne Road, Essendine, Authority: Rutland Unitary Council, Planning Support, Application Ref: Hza/2004/0898, Hazardous Substance: Unknown at time of report, Maximum Quantity: 0 Unknown at time of report, Application Date: 26th August 1994, Decision: Deemed Consent Granted, Positional Accuracy: Located by supplier to within 10m.	151m	NW

## Planning Hazardous Substance Consents

Map ID	Details	Distance	Direction
15	Name: Stamford Storage, Location: Bourne Road, Essendine, STAMFORD, Lincolnshire, PE9 4LT, Authority: Rutland Unitary Council, Planning Support, Application Ref: Hza/1992/0536, Hazardous Substance: Ammonium nitrate and ammonium nitrate compounds (where nitrogen content is more than 28% by weight) or aqueous ammonium nitrate solutions (where concentration of ammonium nitrate is more than 90% by weight), Maximum Quantity: 15000 Ammonium nitrate and ammonium nitrate compounds (where nitrogen content is more than 28% by weight) or aqueous ammonium nitrate solutions (where concentration of ammonium nitrate is more than 90% by weight), Application Date: 28th September 1992, Decision: Deemed Consent Granted, Positional Accuracy: Located by supplier to within 10m.	151m	NW
16	Name: Stamford Storage, Location: Meadow Park Industrial Estate, Bourne Road, Essendine, Stamford, Lincolnshire, Pe9 4lt, Authority: Rutland Unitary Council, Planning Support, Application Ref: Hza/1992/0536, Hazardous Substance: Part A, Toxic Substance, Methyl bromide (Bromoethane), where amount held is greater than or equal to 200 tonnes, Maximum Quantity: 516 Part A, Toxic Substance, Methyl bromide (Bromoethane), where amount held is greater than or equal to 200 tonnes, Application Date: 28th September 1992, Decision: Deemed Consent Granted, Positional Accuracy: Located by supplier to within 10m.	151m	NW
17	Name: Baxters Warehousing Peterborough Ltd, Location: Pt Os 7352, Bourne Road, Essendine, Authority: Rutland Unitary Council, Planning Support, Application Ref: Ful/1985/0217, Hazardous Substance: Ammonium nitrate and ammonium nitrate compounds (where nitrogen content is more than 28% by weight) or aqueous ammonium nitrate solutions (where concentration of ammonium nitrate is more than 90% by weight), Maximum Quantity: 10000 Ammonium nitrate and ammonium nitrate compounds (where nitrogen content is more than 28% by weight) or aqueous ammonium nitrate solutions (where concentration of ammonium nitrate is more than 90% by weight), Application Date: 4th June 1985, Decision: Deemed Consent Granted, Positional Accuracy: Located by supplier to within 100m.	222m	NW

## Contraventions

### Substantiated Pollution Incident Register

Map ID	Details	Distance	Direction
18	Authority: Environment Agency - Anglian Region, Northern Area, Date: 7th February 2002, Incident Ref: 56875, Pollutant: 1.Contaminated Water: Firefighting Run-Off, 2.Oils And Fuel: Other Oil Or Fuel, Water Impact: Category 2 - Significant Incident, Air Impact: Category 2 - Significant Incident, Land Impact: Category 3 - Minor Incident, Positional Accuracy: Located by supplier to within 10m.	194m	NW

## Current Land Use (1)

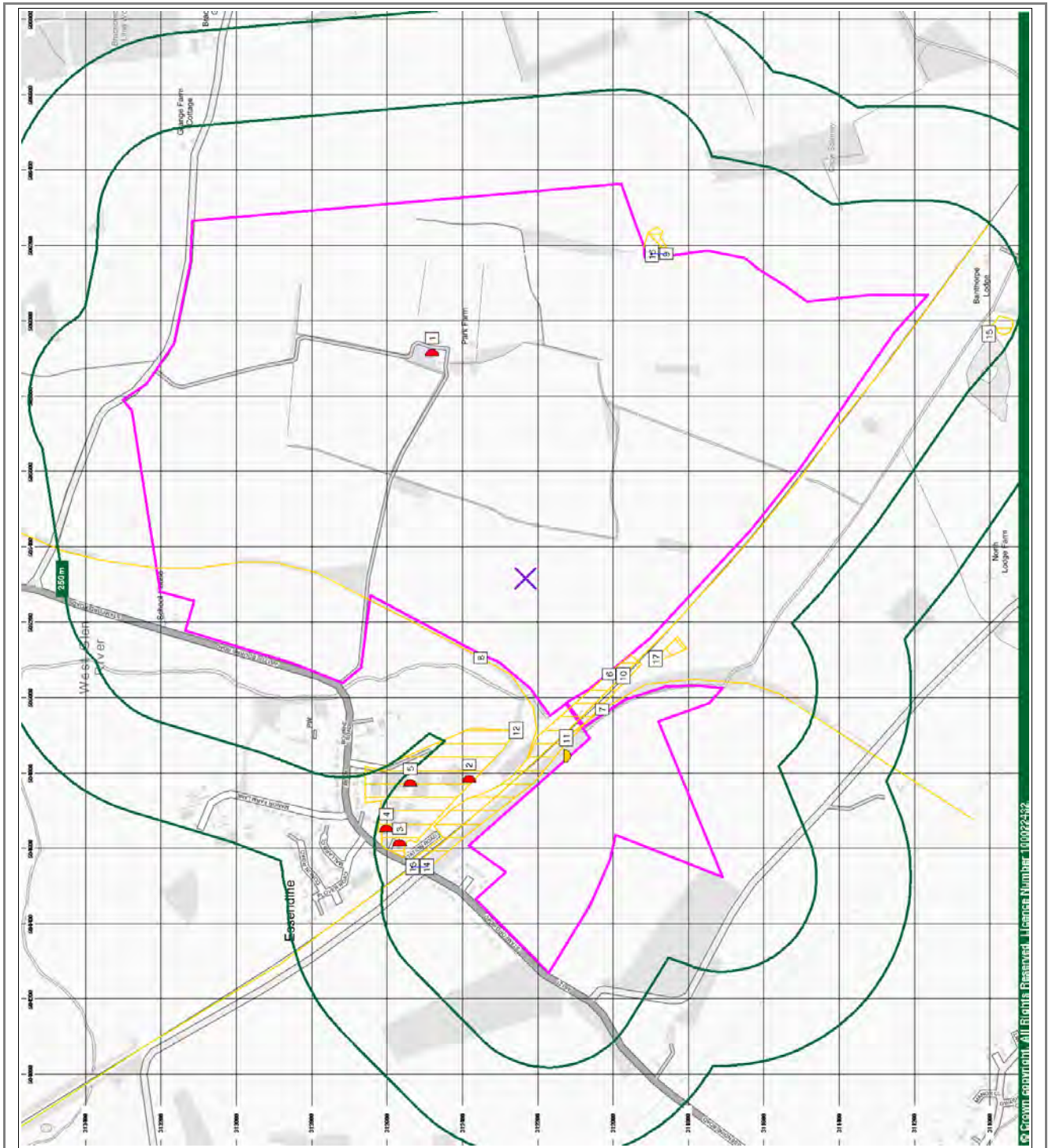
### Current Potentially Contaminative Uses

#### Contemporary Trade Directory Entries

Map ID	Details	Distance	Direction
19	Firework Stockists, Name: Enterprises Unlimited Special Effects, Status: Inactive, Location: Unit 10, Glen Industrial Estate, Essendine, Stamford, Lincolnshire, PE9 4LE, Positional Accuracy: Automatically positioned to the address.	202m	NW
20	Control Panels, Name: Control Systems Technology Ltd, Status: Inactive, Location: Unit 7, Glen Industrial Estate, Essendine, Stamford, Lincolnshire, PE9 4LE, Positional Accuracy: Automatically positioned to the address.	206m	NW
21	Builders' Merchants, Name: Mcarthur Group Ltd, Status: Inactive, Location: Unit 12A, Glen Industrial Estate, Essendine, Stamford, Lincolnshire, PE9 4LE, Positional Accuracy: Automatically positioned to the address.	211m	NW

## Contemporary Trade Directory Entries

Map ID	Details	Distance	Direction
22	Garage Services, Name: Motor-Tech Automotive, Status: Active, Location: Unit 7, Glen Industrial Estate, Essendine, Stamford, PE9 4LE, Positional Accuracy: Automatically positioned to the address.	212m	NW
23	Road Haulage Services, Name: C D Fisher, Status: Inactive, Location: Bourne Rd, Essendine, Stamford, Lincolnshire, PE9 4LT, Positional Accuracy: Manually positioned to the road within the address or location.	239m	NW
24	Greeting Card Publishers & Wholesalers, Name: Images & Editions Ltd, Status: Inactive, Location: Meadow Park Industrial Estate, Bourne Road, Essendine, Stamford, Lincolnshire, PE9 4UW, Positional Accuracy: Automatically positioned to the address.	246m	NW



**Historical Land Uses within 250m**

- General**
- Site Boundary
  - Search Buffer
  - Bearing Reference Point
  - Grid Lines
  - Reference Number
- Potentially Contaminative Uses**
- Point Feature
  - Area Feature
  - Line Feature
- Potentially Infilled Land**
- Point Feature
  - Area Feature
  - Line Feature
- Former Marshes**
- Point Feature
  - Area Feature
  - Line Feature
- Historical Tanks and Energy Facilities**
- Point Feature

## Historical Land Use (1)

### Historical Potentially Contaminative Uses

#### Historical Tanks and Energy Facilities

Map ID	Details	Distance	Direction
1	Tanks, Scale of Mapping: 1:2,500, Date of Mapping: 1975.	On Site	NE
2	Tanks, Scale of Mapping: 1:2,500, Date of Mapping: 1975.	130m	W
3	Petroleum Storage Facilities, Scale of Mapping: 1:2,500, Date of Mapping: 1975.	187m	NW
4	Electricity Industry Facilities, Scale of Mapping: 1:2,500, Date of Mapping: 1975.	223m	NW
5	Tanks, Scale of Mapping: 1:2,500, Date of Mapping: 1975.	225m	NW

#### Potentially Contaminative Industrial Uses (Past Land Use)

Map ID	Details	Distance	Direction
10	Railways, Date of Mapping: 1892-1983.	On Site	SW
6	Railways, Date of Mapping: 1892-1958.	On Site	SW
7	Railways, Date of Mapping: 1892-1958.	On Site	SW
8	Railways, Date of Mapping: 1891-1958.	On Site	NW
9	Quarrying of sand & clay, operation of sand & gravel pits, Date of Mapping: 1892-1905.	On Site	E
11	Oil, petroleum & gas refining & storage, Date of Mapping: 1905-1958.	7m	W
12	Factory or works - use not specified, Date of Mapping: 1983.	96m	W
13	Railways, Date of Mapping: 1983.	161m	W
14	Railways, Date of Mapping: 1891-1958.	161m	W
15	Quarrying of sand & clay, operation of sand & gravel pits, Date of Mapping: 1983.	185m	SE

### Potentially Infilled Land

#### Potentially Infilled Land (Non-Water)

Map ID	Details	Distance	Direction
16	Unknown Filled Ground (Pit, quarry etc), Date of Mapping: 1983.	On Site	E

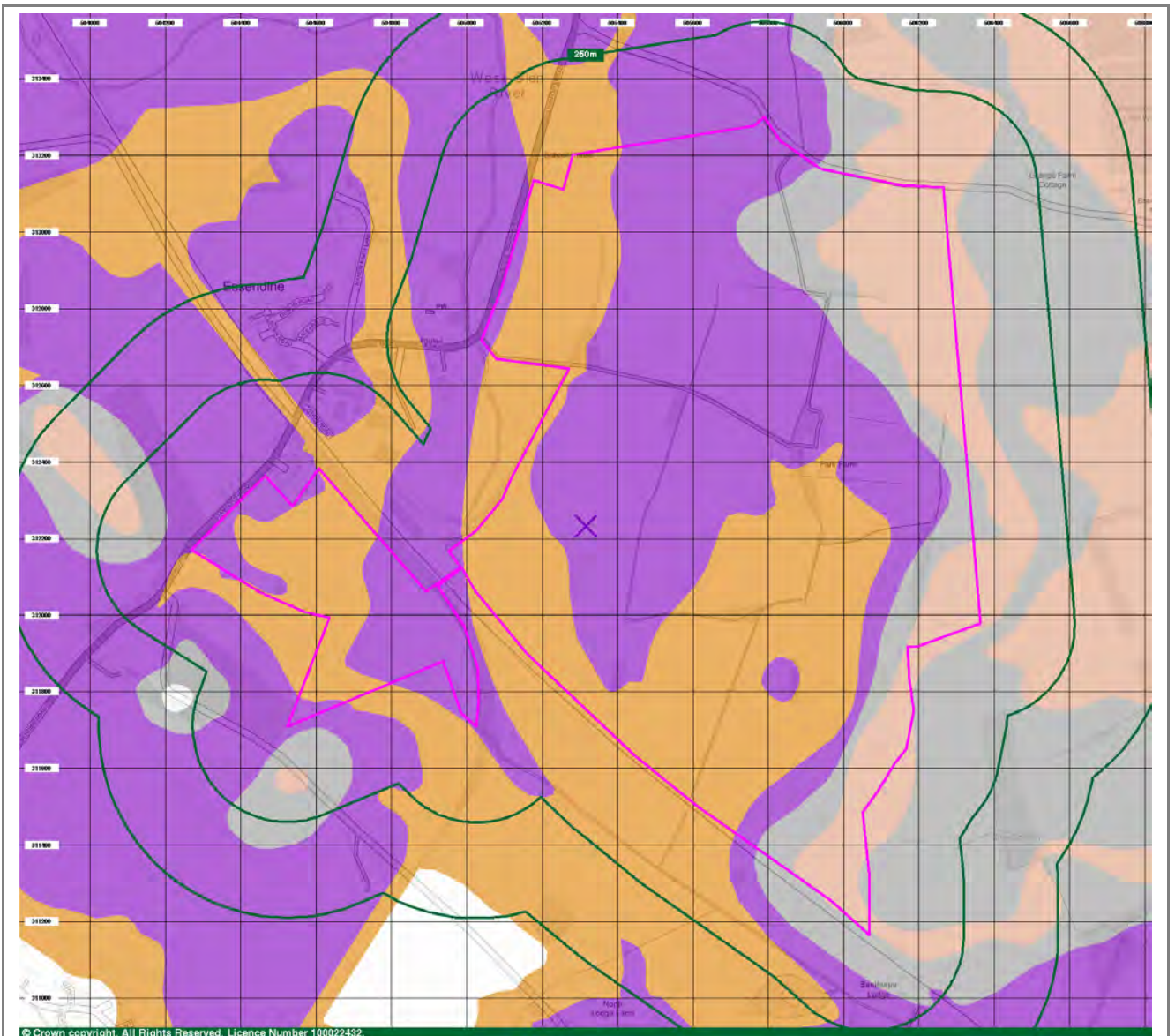
#### Potentially Infilled Land (Water)

Map ID	Details	Distance	Direction
17	Unknown Filled Ground (Pond, marsh, river, stream, dock etc), Date of Mapping: 1905.	49m	SW






# Aquifer Designation (Bedrock) (1)



## Aquifer Designations

- |   |  |
|---|--|
|  Site Boundary           |  Principal Aquifer          |
|  Search Buffer           |  Secondary A Aquifer        |
|  Bearing Reference Point |  Secondary B Aquifer        |
|  N                       |  Secondary Undifferentiated |
|   |  Unproductive Strata        |
|   |  Unknown                    |

# Groundwater Vulnerability (1)

## Hydrogeology

### Superficial Aquifer Designations

Map ID	Details	Distance	Direction
	<p>Secondary Aquifer - A</p> <p>These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.</p>	On Site	W
	<p>Secondary Aquifer - Undifferentiated</p> <p>These aquifers have a variable permeability, yielding varying amounts of groundwater at different locations but not capable of supporting water supplies at a more than a local scale.</p>	On Site	SE
	<p>Secondary Aquifer - A</p> <p>These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.</p>	On Site	SE
	<p>Secondary Aquifer - A</p> <p>These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.</p>	On Site	NW
	<p>Secondary Aquifer - A</p> <p>These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.</p>	99m	W

### Bedrock Aquifer Designations

Map ID	Details	Distance	Direction
	<p>Secondary Aquifer - B</p> <p>These aquifers are formed of predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable layers and weathering.</p>	On Site	W
	<p>Secondary Aquifer - B</p> <p>These aquifers are formed of predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable layers and weathering.</p>	On Site	NW
	<p>Secondary Aquifer - A</p> <p>These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.</p>	On Site	E
	<p>Principal Aquifer</p> <p>These aquifers are typically formed of layers of rock or drift deposits that have a high permeability and provide a high level of water storage. They may support water supply and/or base river flow on a strategic scale.</p>	On Site	-
	<p>Principal Aquifer</p> <p>These aquifers are typically formed of layers of rock or drift deposits that have a high permeability and provide a high level of water storage. They may support water supply and/or base river flow on a strategic scale.</p>	On Site	SE
	<p>Unproductive Strata</p> <p>The rock layers or drift deposits have a low permeability that have negligible significance for water supply or river base flow.</p>	On Site	NE
	<p>Principal Aquifer</p> <p>These aquifers are typically formed of layers of rock or drift deposits that have a high permeability and provide a high level of water storage. They may support water supply and/or base river flow on a strategic scale.</p>	On Site	SW

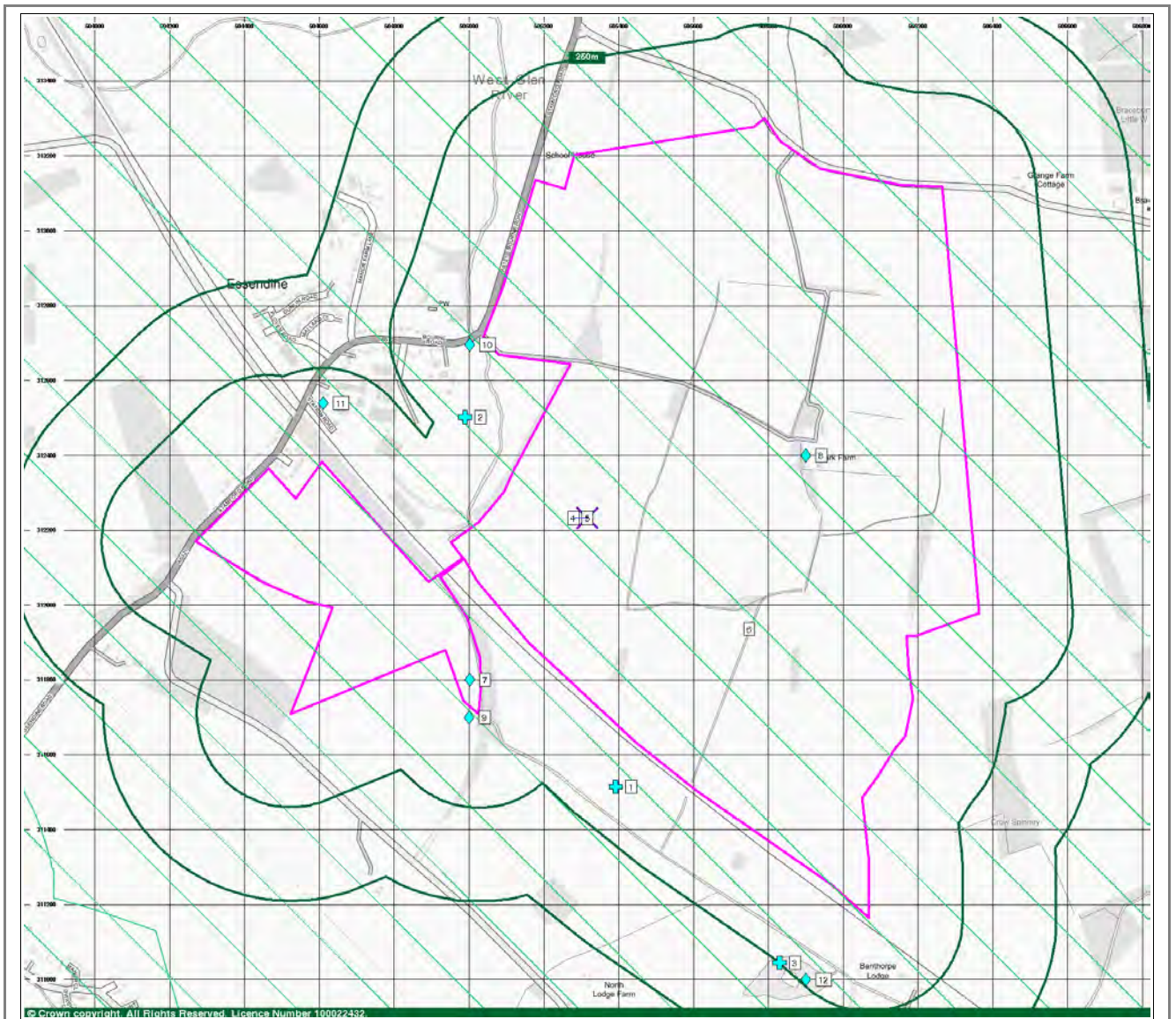
Principal Aquifer These aquifers are typically formed of layers of rock or drift deposits that have a high permeability and provide a high level of water storage. They may support water supply and/or base river flow on a strategic scale.	On Site	NW
Principal Aquifer These aquifers are typically formed of layers of rock or drift deposits that have a high permeability and provide a high level of water storage. They may support water supply and/or base river flow on a strategic scale.	On Site	W
Secondary Aquifer - B These aquifers are formed of predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable layers and weathering.	On Site	SW
Principal Aquifer These aquifers are typically formed of layers of rock or drift deposits that have a high permeability and provide a high level of water storage. They may support water supply and/or base river flow on a strategic scale.	On Site	W
Unproductive Strata The rock layers or drift deposits have a low permeability that have negligible significance for water supply or river base flow.	28m	SW
Unproductive Strata The rock layers or drift deposits have a low permeability that have negligible significance for water supply or river base flow.	81m	W
Principal Aquifer These aquifers are typically formed of layers of rock or drift deposits that have a high permeability and provide a high level of water storage. They may support water supply and/or base river flow on a strategic scale.	86m	NW
Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	108m	SW
Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	145m	W
Unproductive Strata The rock layers or drift deposits have a low permeability that have negligible significance for water supply or river base flow.	165m	SW

## Geology

### BGS 1:625,000 Solid Geology

Map ID	Details	Distance	Direction
	Kellaways Formation And Oxford Clay Formation (Undifferentiated).	On Site	E
	Great Oolite Group.	On Site	-
	Inferior Oolite Group.	On Site	W

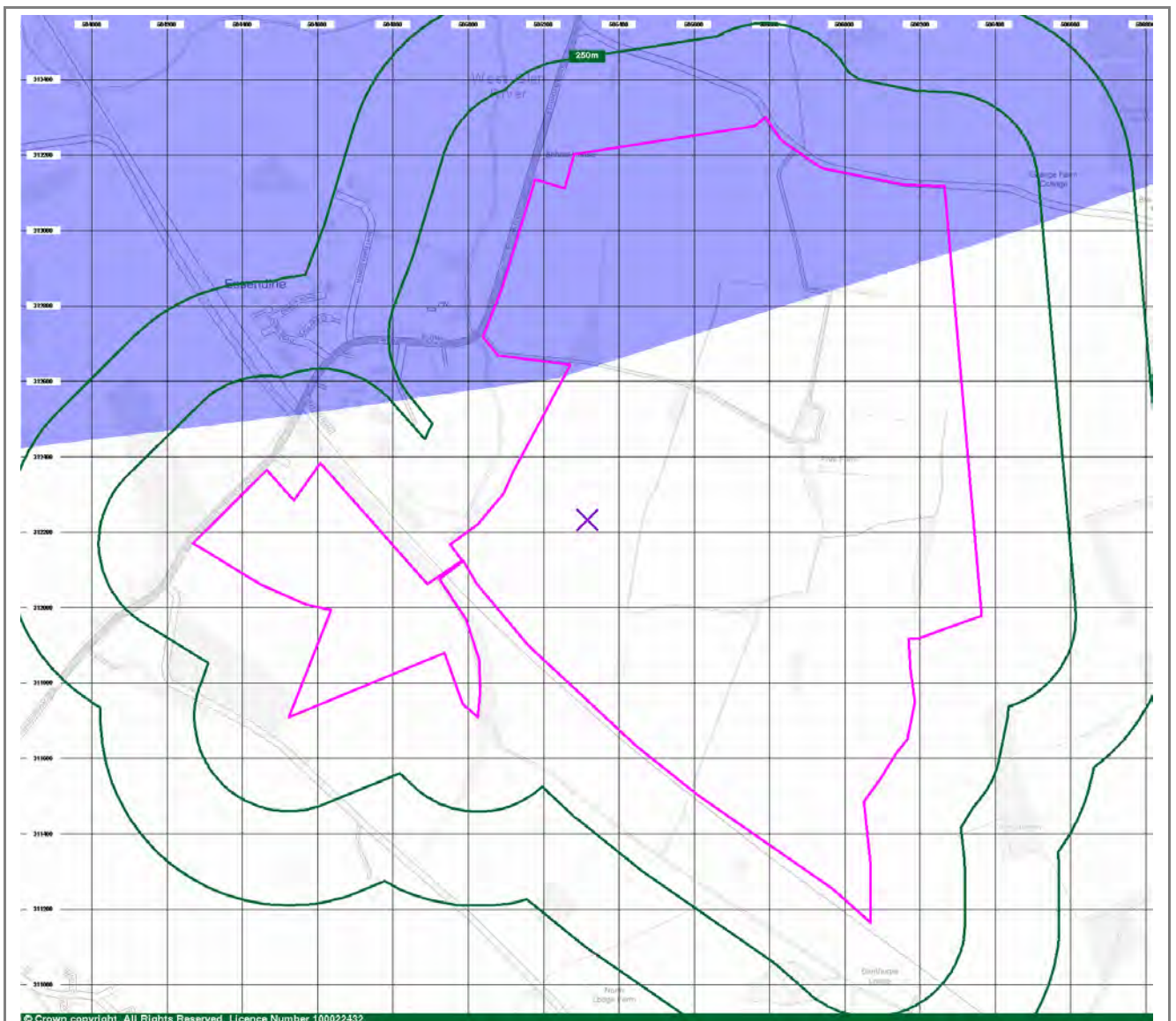
# Sensitive Land Uses (1)



## Sensitive Land Uses

- |                                    |                         |                                     |
|------------------------------------|-------------------------|-------------------------------------|
| Site Boundary                      | Local Nature Reserve    | Ramsar Site                         |
| Search Buffer                      | Marine Nature Reserve   | Nearest Surface Water Feature       |
| Bearing Reference Point            | National Nature Reserve | Site of Special Scientific Interest |
| N                                  | National Park           | Special Area of Conservation        |
| Area of Outstanding Natural Beauty | National Scenic Area    | Special Protection Area             |
| Environmentally Sensitive Area     | Nitrate Sensitive Area  | Water Abstraction                   |
| Forest Park                        | Nitrate Vulnerable Zone | Historical Flood Liability          |

# Source Protection Zones (1)



## Source Protection Zones

- |                         |   |  |
|-------------------------|---|--|
| Site Boundary           | Inner zone (Zone 1)                             | Total catchment (Zone 3)                             |
| Search Buffer           | Inner zone - subsurface activity only (Zone 1c) | Total catchment - subsurface activity only (Zone 3c) |
| Bearing Reference Point | Outer zone (Zone 2)                             | Special interest (Zone 4)                            |
| N                       | Outer zone - subsurface activity only (Zone 2c) |  |

# Environmentally Sensitive Features (1)

## Nitrate Vulnerable Zones

Map ID	Details	Distance	Direction
4	Name: Lincolnshire Limestone, Description: Groundwater, Source: Environment Agency, Head Office.	On Site	-
5	Name: Glen Nvz, Description: Surface Water, Source: Environment Agency, Head Office.	On Site	-

## Nearest Surface Water Feature

Map ID	Details	Distance	Direction
6	Surface water feature identified in proximity.	On Site	SE

## Water Abstractions

Map ID	Details	Distance	Direction
7	Operator: Mr H E Parkinson, Licence Number: 5/31/11/*s/025, Permit Version: Not Supplied, Location: River Glen At, ESSENDINE, Authority: Environment Agency, Anglian Region, Abstraction: Spray Irrigation, Abstraction Type: Not Supplied, Source: Stream, Daily Rate(m <sup>3</sup> ): 4, Yearly Rate (m <sup>3</sup> ): 750000, Status: Revoked, Authorised Start: Not Supplied, Authorised End: Not Supplied, Permit Start Date: Not Supplied, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 10m.	On Site	SW
8	Operator: E W Brown & Son, Licence Number: 5/31/11/*G/0010, Permit Version: 100, Location: Borehole At Park Farm, Authority: Environment Agency, Anglian Region, Abstraction: General Farming And Domestic, Abstraction Type: Water may be abstracted from a single point, Source: Groundwater, Daily Rate(m <sup>3</sup> ): Not Supplied, Yearly Rate (m <sup>3</sup> ): Not Supplied, South Lincolnshire Limestone; Status: Perpetuity, Authorised Start: 01 January, Authorised End: 31 December, Permit Start Date: 1st February 1966, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 10m.	On Site	E
9	Operator: H E Parkinson, Licence Number: 5/31/11/*S/0023, Permit Version: 100, Location: R. Glen, Broadholme Farm, Authority: Environment Agency, Anglian Region, Abstraction: General Agriculture: Spray Irrigation - Direct, Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints, Source: Surface, Daily Rate(m <sup>3</sup> ): Not Supplied, Yearly Rate (m <sup>3</sup> ): Not Supplied, Status: Perpetuity, Authorised Start: 01 April, Authorised End: 31 October, Permit Start Date: 1st April 2000, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 10m.	24m	SW
10	Operator: Mr H E Parkinson, Licence Number: 5/31/11/*s/023, Permit Version: Not Supplied, Location: River Glen, Broadholme Farm , Authority: Environment Agency, Anglian Region, Abstraction: Spray Irrigation, Abstraction Type: Not Supplied, Source: Stream, Daily Rate(m <sup>3</sup> ): 4, Yearly Rate (m <sup>3</sup> ): 750000, Status: Perpetuity, Authorised Start: Not Supplied, Authorised End: Not Supplied, Permit Start Date: Not Supplied, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 10m.	44m	NW
11	Operator: Allis-Chalmers Great Britain, Licence Number: 5/31/11/*g/050, Permit Version: Not Supplied, Location: Bore At Essindine, STAMFORD, Authority: Environment Agency, Anglian Region, Abstraction: Cooling, Abstraction Type: Not Supplied, Source: Well And Borehole, Daily Rate(m <sup>3</sup> ): 5, Yearly Rate (m <sup>3</sup> ): 50000, South Lincolnshire Limestone; Status: Revoked, Authorised Start: Not Supplied, Authorised End: Not Supplied, Permit Start Date: Not Supplied, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 10m.	157m	NW
12	Operator: Mr H E Parkinson, Licence Number: 5/31/11/*s/023, Permit Version: Not Supplied, Location: River Glen, Broadholme Farm , Authority: Environment Agency, Anglian Region, Abstraction: Spray Irrigation, Abstraction Type: Not Supplied, Source: Stream, Daily Rate(m <sup>3</sup> ): 4, Yearly Rate (m <sup>3</sup> ): 750000, Status: Perpetuity, Authorised Start: Not Supplied, Authorised End: Not Supplied, Permit Start Date: Not Supplied, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 10m.	236m	SE

## Source Protection Zones

Map ID	Details	Distance	Direction
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Name: , Source: Environment Agency, Head Office, Reference: Not Supplied, Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	On Site	N
Name: , Source: Environment Agency, Head Office, Reference: Not Supplied, Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	On Site	N

## Natural and Mining Related Hazards (1)

### Subsidence

#### Collapsible Ground Stability Hazards

Details	Distance	Direction
Risk: Very Low, Source: British Geological Survey, National Geoscience Information Service.	On Site	W
Risk: Very Low, Source: British Geological Survey, National Geoscience Information Service.	30m	SW

#### Compressible Ground Stability Hazards

Details	Distance	Direction
Risk: Moderate, Source: British Geological Survey, National Geoscience Information Service.	On Site	W
Risk: No Hazard, Source: British Geological Survey, National Geoscience Information Service.	30m	SW

#### Ground Dissolution Stability Hazards

Details	Distance	Direction
Risk: Low, Source: British Geological Survey, National Geoscience Information Service.	On Site	E
Risk: No Hazard, Source: British Geological Survey, National Geoscience Information Service.	28m	SW

#### Landslide Ground Stability Hazards

Details	Distance	Direction
Risk: Low, Source: British Geological Survey, National Geoscience Information Service.	On Site	SW
Risk: Low, Source: British Geological Survey, National Geoscience Information Service.	20m	W

#### Running Sand Ground Stability Hazards

Details	Distance	Direction
Risk: Low, Source: British Geological Survey, National Geoscience Information Service.	On Site	NW
Risk: Very Low, Source: British Geological Survey, National Geoscience Information Service.	30m	SW

#### Shrinking or Swelling Clay Subsidence Hazards

Details	Distance	Direction
Risk: Moderate, Source: British Geological Survey, National Geoscience Information Service.	On Site	NE
Risk: Moderate, Source: British Geological Survey, National Geoscience Information Service.	28m	SW

# Radon

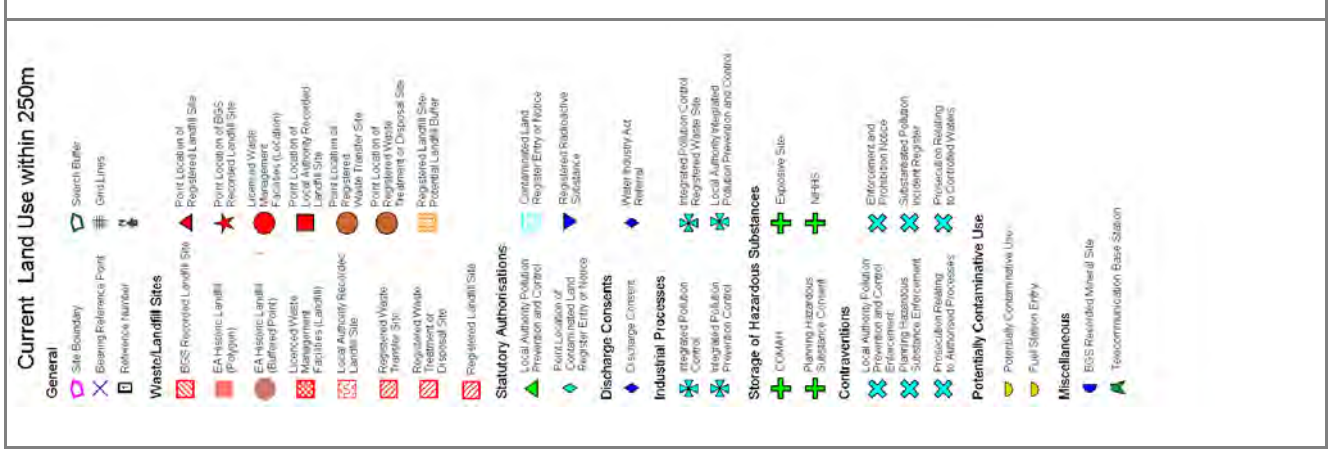
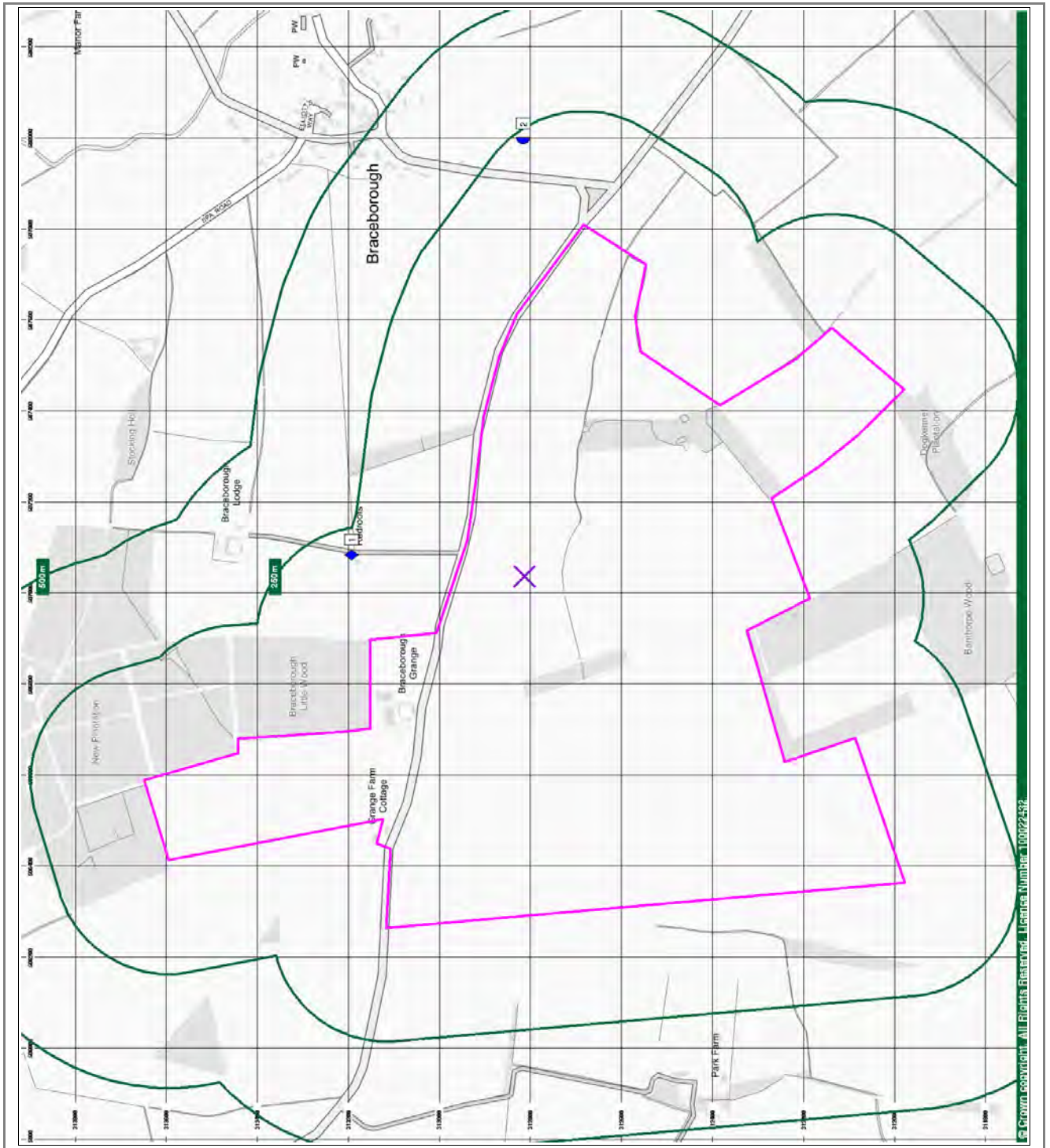
## Radon Potential

Details	Distance	Direction
The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level)., Source: British Geological Survey, National Geoscience Information Service.	On Site	SW

## Radon Protective Measures

Details	Distance	Direction
Full, Source: British Geological Survey, National Geoscience Information Service.	On Site	SW



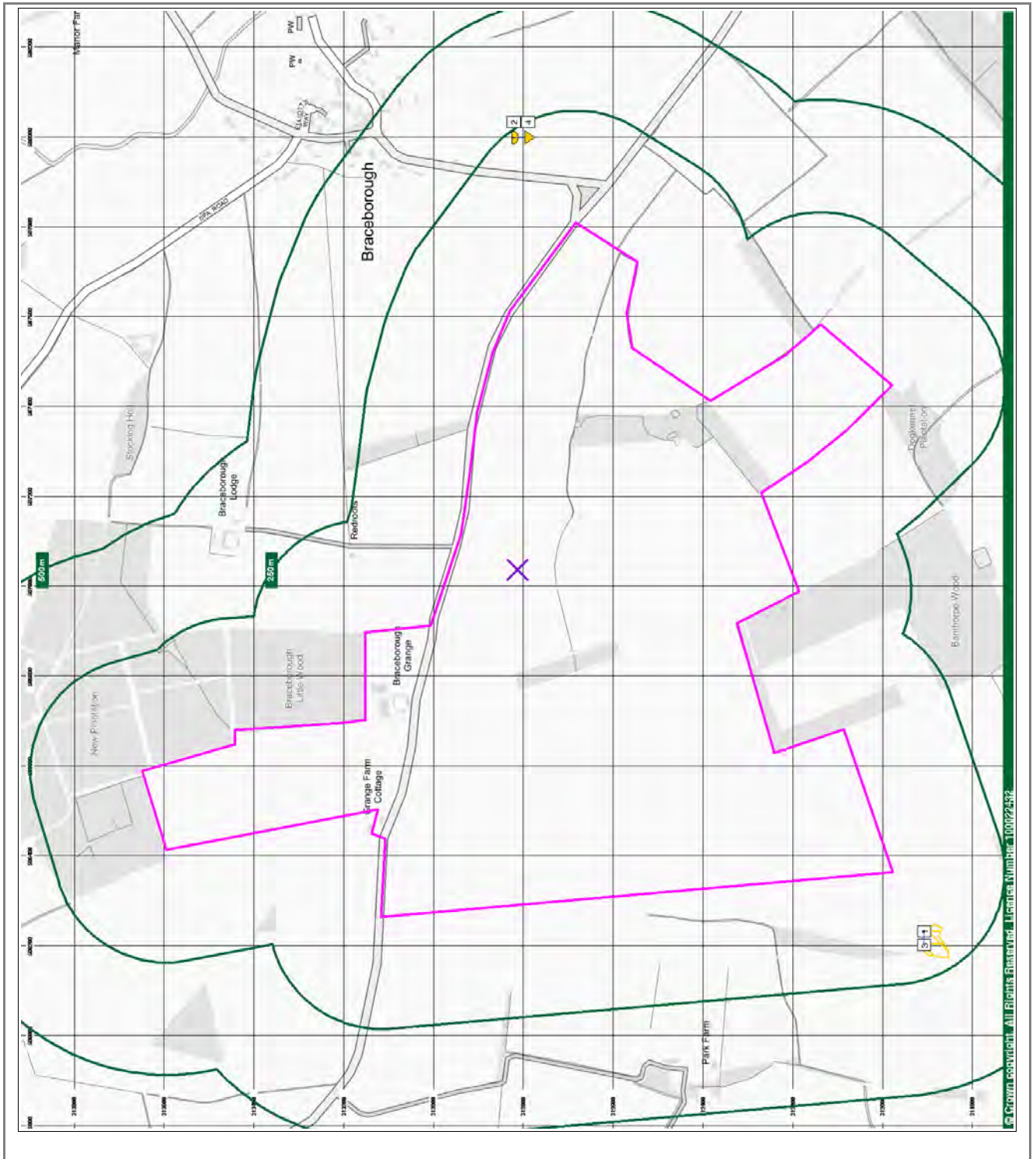


## Statutory Information (2)

### Discharges

#### Discharge Consents

Map ID	Details	Distance	Direction
1	Operator: Mrs Clare Alliston, Property Type: Domestic Property (Single), Location: Lodge Cottage, Carlby Road, Braceborough, Stamford, Pe9 4nu, Authority: Environment Agency, Anglian Region, Catchment Area: Not Supplied, Permit Ref: Eprkb3299rf, Permit Version: 1, Effective Date: 12th July 2018, Issued Date: 12th July 2018, Revocation Date: Not Supplied, Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company, Discharge Environment: Freshwater Stream/River, Receiving Water: Ditch Leading To River Glen, Status: New issued under EPR 2010, Positional Accuracy: Located by supplier to within 10m.	191m	N



**Historical Land Uses within 250m**

- General**
- Site Boundary
  - Search Buffer
  - Bearing Reference Point
  - Grid Lines
  - Reference Number
- Potentially Contaminative Uses**
- Point Feature
  - Area Feature
  - Line Feature
- Potentially Infilled Land**
- Point Feature
  - Area Feature
  - Line Feature
- Former Marshes**
- Point Feature
  - Area Feature
  - Line Feature
- Historical Tanks and Energy Facilities**
- Point Feature

## Historical Land Use (2)

### Historical Potentially Contaminative Uses

#### Potentially Contaminative Industrial Uses (Past Land Use)

Map ID	Details	Distance	Direction
1	Quarrying of sand & clay, operation of sand & gravel pits, Date of Mapping: 1892-1905.	149m	SW
2	Quarrying of sand & clay, operation of sand & gravel pits, Date of Mapping: 1892.	236m	E

### Potentially Infilled Land


#### Potentially Infilled Land (Non-Water)

Map ID	Details	Distance	Direction
3	Unknown Filled Ground (Pit, quarry etc), Date of Mapping: 1983.	149m	SW
4	Unknown Filled Ground (Pit, quarry etc), Date of Mapping: 1983.	236m	E

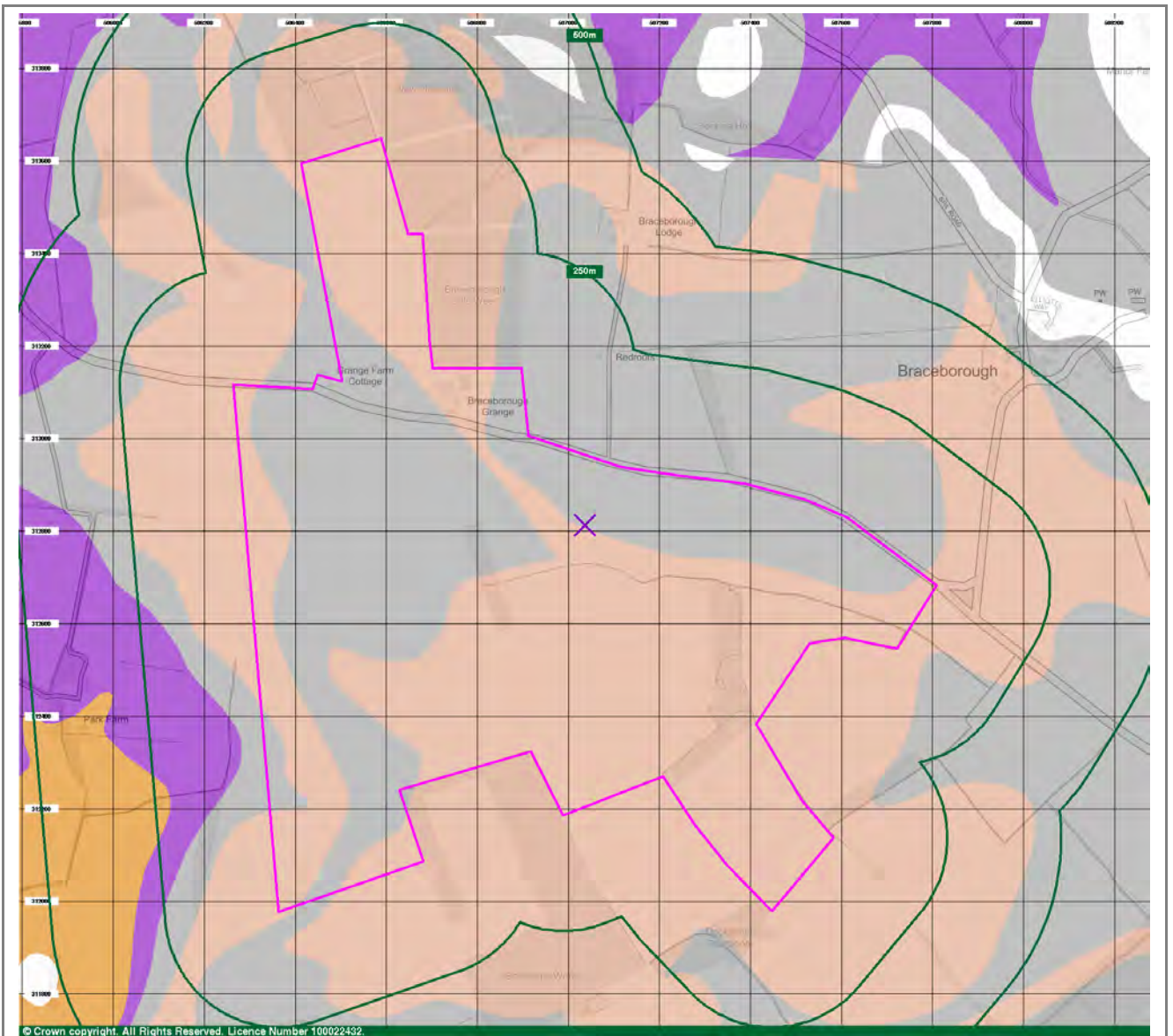
# Aquifer Designation (Superficial) (2)



## Aquifer Designations

-  Site Boundary
-  Search Buffer
-  Bearing Reference Point
-  N
-  Principal Aquifer
-  Secondary A Aquifer
-  Secondary B Aquifer
-  Secondary Undifferentiated
-  Unproductive Strata
-  Unknown

# Aquifer Designation (Bedrock) (2)



## Aquifer Designations

- |   |  |
|---|--|
|  Site Boundary           |  Principal Aquifer          |
|  Search Buffer           |  Secondary A Aquifer        |
|  Bearing Reference Point |  Secondary B Aquifer        |
|  N                       |  Secondary Undifferentiated |
|   |  Unproductive Strata        |
|   |  Unknown                    |

## Groundwater Vulnerability (2)

### Hydrogeology

#### Superficial Aquifer Designations

Map ID	Details	Distance	Direction
	Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	On Site	N
	Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	On Site	SE
	Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	On Site	W
	Secondary Aquifer - Undifferentiated These aquifers have a variable permeability, yielding varying amounts of groundwater at different locations but not capable of supporting water supplies at a more than a local scale.	92m	E
	Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	163m	SE
	Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	219m	SE

#### Bedrock Aquifer Designations

Map ID	Details	Distance	Direction
	Unproductive Strata The rock layers or drift deposits have a low permeability that have negligible significance for water supply or river base flow.	On Site	-
	Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	On Site	SW
	Principal Aquifer These aquifers are typically formed of layers of rock or drift deposits that have a high permeability and provide a high level of water storage. They may support water supply and/or base river flow on a strategic scale.	50m	N
	Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	164m	N
	Secondary Aquifer - B These aquifers are formed of predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable layers and weathering.	218m	SW
	Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	233m	SE

Secondary Aquifer - A

235m

N

These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.

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## Geology

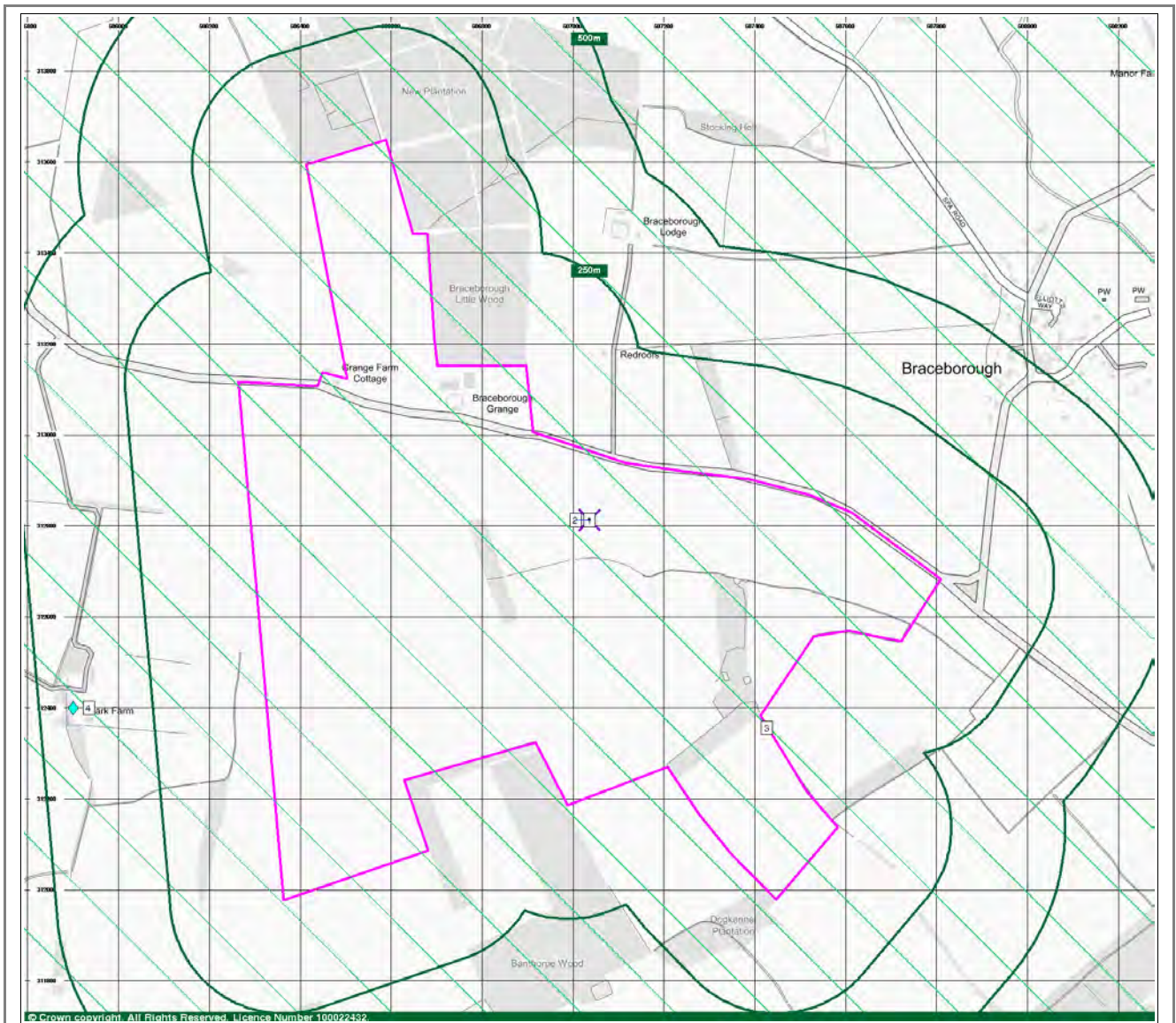
### BGS 1:625,000 Solid Geology

Map ID	Details	Distance	Direction
	Kellaways Formation And Oxford Clay Formation (Undifferentiated).	On Site	-
	Great Oolite Group.	On Site	W

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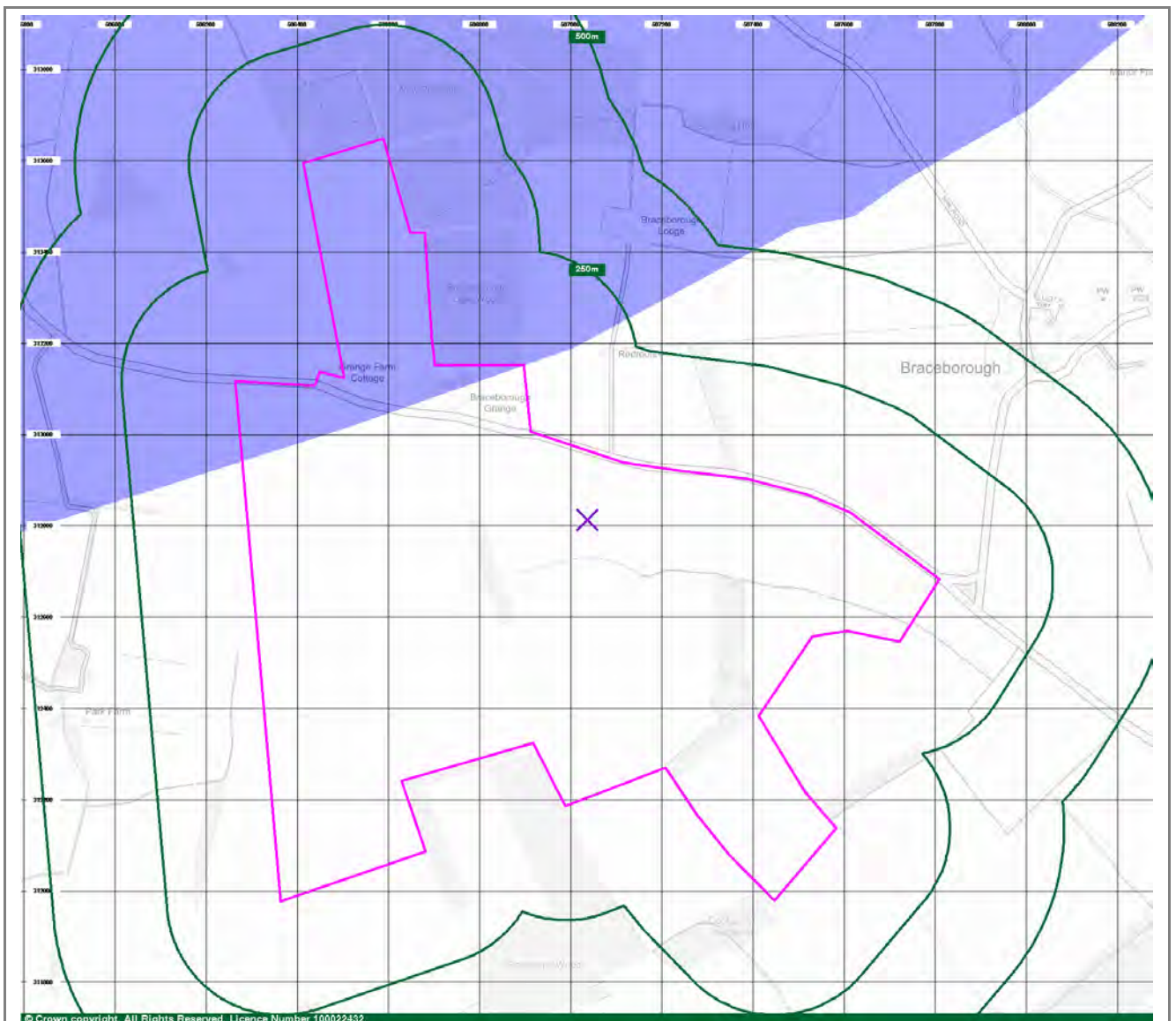
# Sensitive Land Uses (2)



## Sensitive Land Uses

- |                                    |                         |                                     |
|------------------------------------|-------------------------|-------------------------------------|
| Site Boundary                      | Local Nature Reserve    | Ramsar Site                         |
| Search Buffer                      | Marine Nature Reserve   | Nearest Surface Water Feature       |
| Bearing Reference Point            | National Nature Reserve | Site of Special Scientific Interest |
| N                                  | National Park           | Special Area of Conservation        |
| Area of Outstanding Natural Beauty | National Scenic Area    | Special Protection Area             |
| Environmentally Sensitive Area     | Nitrate Sensitive Area  | Water Abstraction                   |
| Forest Park                        | Nitrate Vulnerable Zone | Historical Flood Liability          |

# Source Protection Zones (2)



## Source Protection Zones

- |                         |   |  |
|-------------------------|---|--|
| Site Boundary           | Inner zone (Zone 1)                             | Total catchment (Zone 3)                             |
| Search Buffer           | Inner zone - subsurface activity only (Zone 1c) | Total catchment - subsurface activity only (Zone 3c) |
| Bearing Reference Point | Outer zone (Zone 2)                             | Special interest (Zone 4)                            |
| N                       | Outer zone - subsurface activity only (Zone 2c) |  |

## Environmentally Sensitive Features (2)

### Nitrate Vulnerable Zones

Map ID	Details	Distance	Direction
1	Name: Glen Nvz, Description: Surface Water, Source: Environment Agency, Head Office.	On Site	-
2	Name: Lincolnshire Limestone, Description: Groundwater, Source: Environment Agency, Head Office.	On Site	-

### Nearest Surface Water Feature

Map ID	Details	Distance	Direction
3	Surface water feature identified in proximity.	On Site	SE

### Water Abstractions

Map ID	Details	Distance	Direction
4	Operator: E W Brown & Son, Licence Number: 5/31/11/*G/0010, Permit Version: 100, Location: Borehole At Park Farm, Authority: Environment Agency, Anglian Region, Abstraction: General Farming And Domestic, Abstraction Type: Water may be abstracted from a single point, Source: Groundwater, Daily Rate(m <sup>3</sup> ): Not Supplied, Yearly Rate (m <sup>3</sup> ): Not Supplied, South Lincolnshire Limestone; Status: Perpetuity, Authorised Start: 01 January, Authorised End: 31 December, Permit Start Date: 1st February 1966, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 10m.	426m	W

### Source Protection Zones

Map ID	Details	Distance	Direction
	Name: , Source: Environment Agency, Head Office, Reference: Not Supplied, Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	On Site	N
	Name: , Source: Environment Agency, Head Office, Reference: Not Supplied, Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	On Site	N
	Name: , Source: Environment Agency, Head Office, Reference: Not Supplied, Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	On Site	N

## Natural and Mining Related Hazards (2)

### Subsidence

#### Collapsible Ground Stability Hazards

Details	Distance	Direction
Risk: Very Low, Source: British Geological Survey, National Geoscience Information Service.	On Site	-

#### Compressible Ground Stability Hazards

Details	Distance	Direction
Risk: No Hazard, Source: British Geological Survey, National Geoscience Information Service.	On Site	-

#### Ground Dissolution Stability Hazards

Details	Distance	Direction
Risk: Low, Source: British Geological Survey, National Geoscience Information Service.	On Site	W
Risk: Very Low, Source: British Geological Survey, National Geoscience Information Service.	50m	SW

## Landslide Ground Stability Hazards

Details	Distance	Direction
Risk: Very Low, Source: British Geological Survey, National Geoscience Information Service.	On Site	-

## Running Sand Ground Stability Hazards

Details	Distance	Direction
Risk: Low, Source: British Geological Survey, National Geoscience Information Service.	On Site	SW

## Shrinking or Swelling Clay Subsidence Hazards

Details	Distance	Direction
Risk: Moderate, Source: British Geological Survey, National Geoscience Information Service.	On Site	-
Risk: No Hazard, Source: British Geological Survey, National Geoscience Information Service.	50m	SW

## Radon

### Radon Potential

Details	Distance	Direction
The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level)., Source: British Geological Survey, National Geoscience Information Service.	On Site	-

### Radon Protective Measures

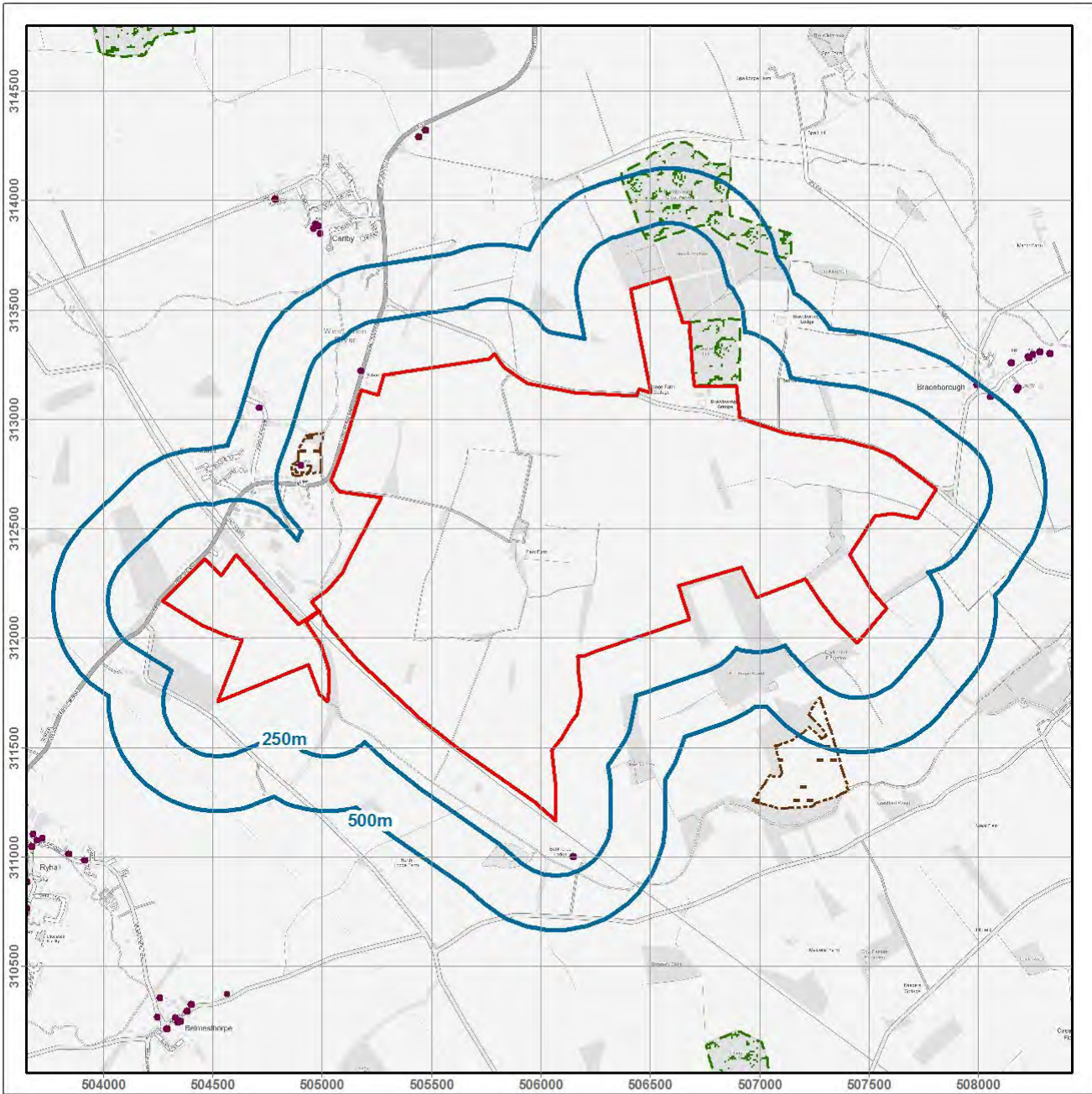
Details	Distance	Direction
None, Source: British Geological Survey, National Geoscience Information Service.	On Site	-

## Mining








### BGS Recorded Mineral Sites

Map ID	Details	Distance	Direction
2	Site Name: Braceborough Gravel Pit, Site Location: Braceborough, Stamford, Lincolnshire, Source: British Geological Survey, National Geoscience Information Service, Reference: 136298, Type: Opencast, Status: Ceased, Operator: Unknown Operator, Operator Location: Not Supplied, Periodic Type: Quaternary, Geology: Head, Commodity: Sand and Gravel, Positional Accuracy: Located by supplier to within 10m.	231m	E

# Farm Specific Issues



## Archaeological Sites of Interest

- |  |   |   |
|--|---|---|
|  Client Site          |  Listed Buildings    |  Historic Battlefields |
|  World Heritage Sites |  Historic Landscapes |   |
|  Scheduled Monuments  |  Ancient Woodlands   |   |

metres  
0 500 1000  


\* - Not all features in legend may be present in above map

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# Farm Specific Issues

## Listed Buildings

Details	Distance	Direction
List Entry: 1164899, Name: PARISH BOUNDARY MARKER, ON BOUNDARY WITH ESSONDINE, Grade: II, List Date: 22/06/1987, Amend Date: , NGR: TF 05177 13222, Capture Scale: 1:2500, Easting: 505177, Northing: 313222, Area (hectares): 0	84.7m	N
List Entry: 1073881, Name: CHURCH OF ST MARY, Grade: II*, List Date: 06/06/1961, Amend Date: , NGR: TF 04902 12789, Capture Scale: 1:2500, Easting: 504902, Northing: 312789, Area (hectares): 0	151.1m	W
List Entry: 1164869, Name: BANTHORPE LODGE, Grade: II, List Date: 22/06/1987, Amend Date: , NGR: TF 06147 11002, Capture Scale: 1:2500, Easting: 506147, Northing: 311002, Area (hectares): 0	178.3m	SE
List Entry: 1319987, Name: MANORS FARMHOUSE, Grade: II, List Date: 06/06/1961, Amend Date: , NGR: TF0471313053, Capture Scale: 1:2500, Easting: 504713, Northing: 313053, Area (hectares): 0	418.2m	W
List Entry: 1062668, Name: IVY FARMHOUSE, Grade: II, List Date: 06/05/1952, Amend Date: , NGR: TF 08057 13103, Capture Scale: 1:2500, Easting: 508057, Northing: 313103, Area (hectares): 0	483.1m	NE
List Entry: 1164890, Name: BERRY FARMHOUSE, Grade: II, List Date: 22/06/1987, Amend Date: , NGR: TF 07996 13159, Capture Scale: 1:2500, Easting: 507996, Northing: 313159, Area (hectares): 0	491.3m	NE

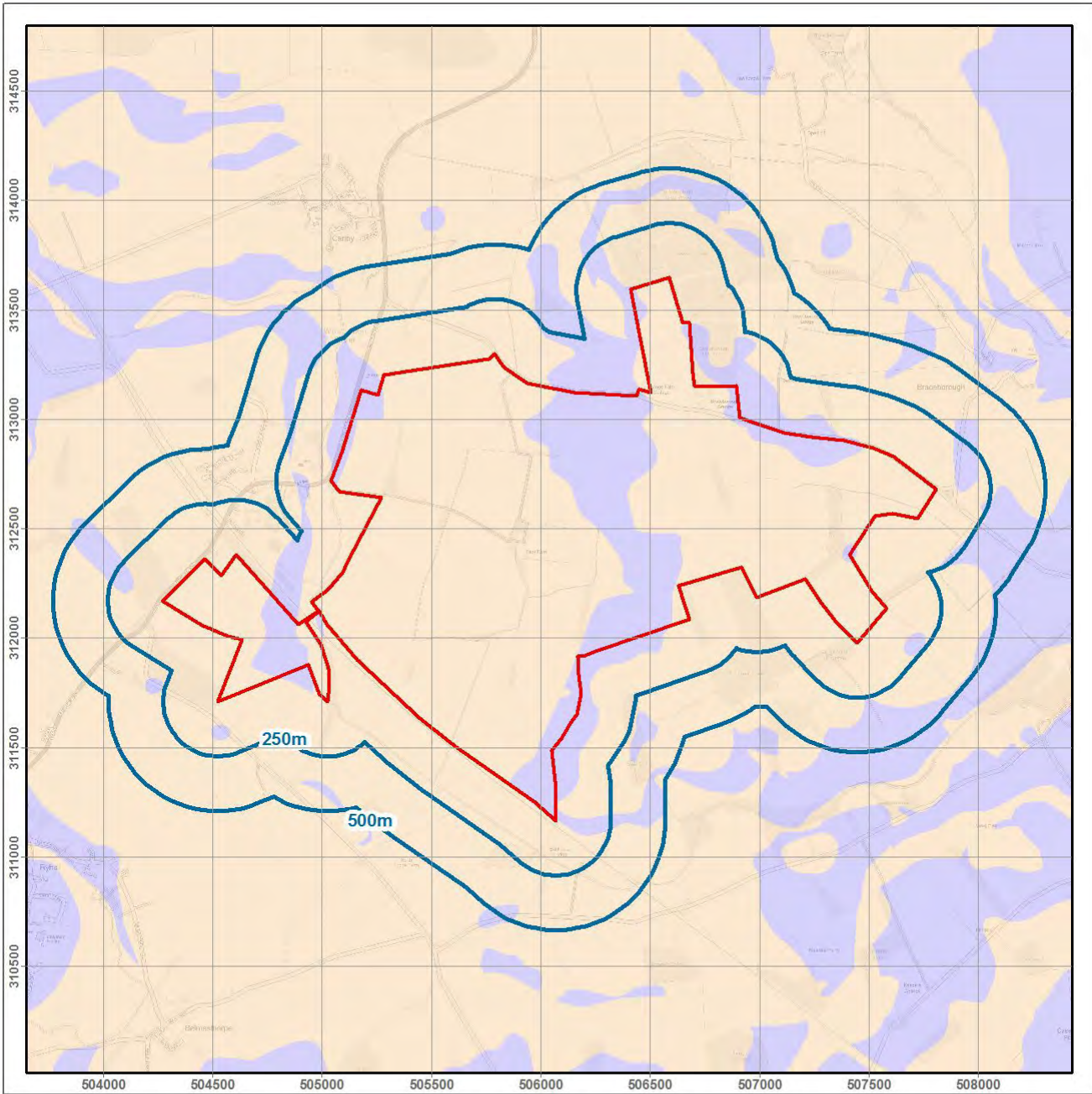
## Scheduled Monuments

Details	Distance	Direction
List Entry: 1010693, Name: Essendine Castle moated site, Schedule Date: 16/04/1951, Amend Date: 04/09/1991, NGR: TF 04932 12839, Capture Scale: 1:10000, Easting: 504942.791165, Northing: 312837.759779, Area (hectares): 1.736	55.8m	W
List Entry: 1018685, Name: Medieval settlement remains at Shillingthorpe Park, Schedule Date: 27/10/1967, Amend Date: 04/02/1999, NGR: TF 07188 11394, Capture Scale: 1:10000, Easting: 507213.628101, Northing: 311400.075698, Area (hectares): 10.702	301.8m	SW

## Ancient Woodland

Details	Distance	Direction
, Name: BRACEBOROUGH LITTLE WOOD, Area (hectares): 6.64	On Site	-
, Name: BRACEBOROUGH GREAT WOOD, Area (hectares): 19.72	181.0m	N

# BGS Soil Chemistry – Arsenic



## Soil Chemistry - Arsenic



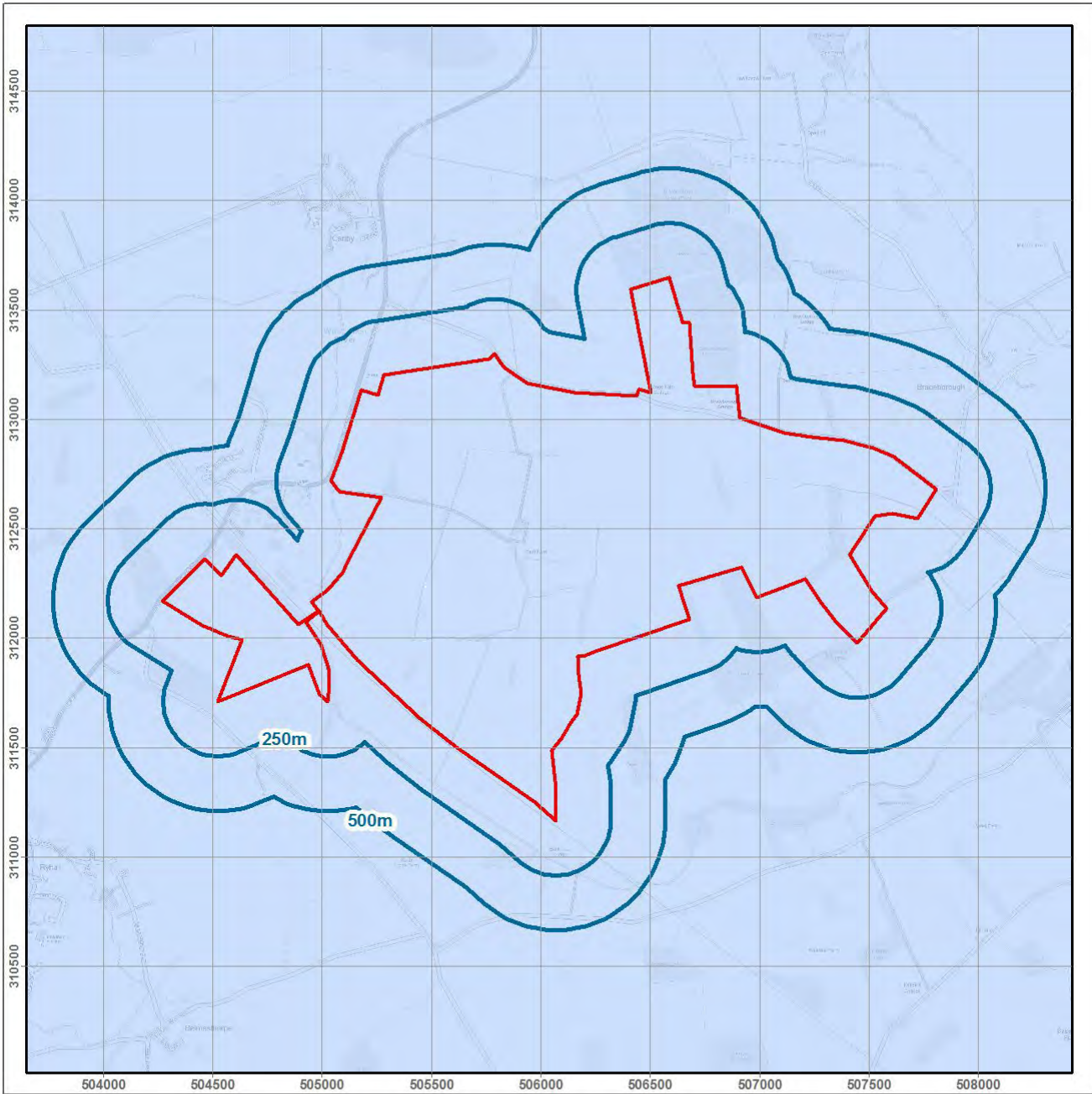
metres  
0 500 1000

\* - Not all features in legend may be present in above map

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# BGS Soil Chemistry – Cadmium



## Soil Chemistry - Cadmium

- Client Site
- No data
- 2.2 - 3.0 mg/kg
- <1.8 mg/kg
- 3.0 - 6.0 mg/kg
- 1.8 - 2.2 mg/kg
- >6.0 mg/kg

metres  
0 500 1000

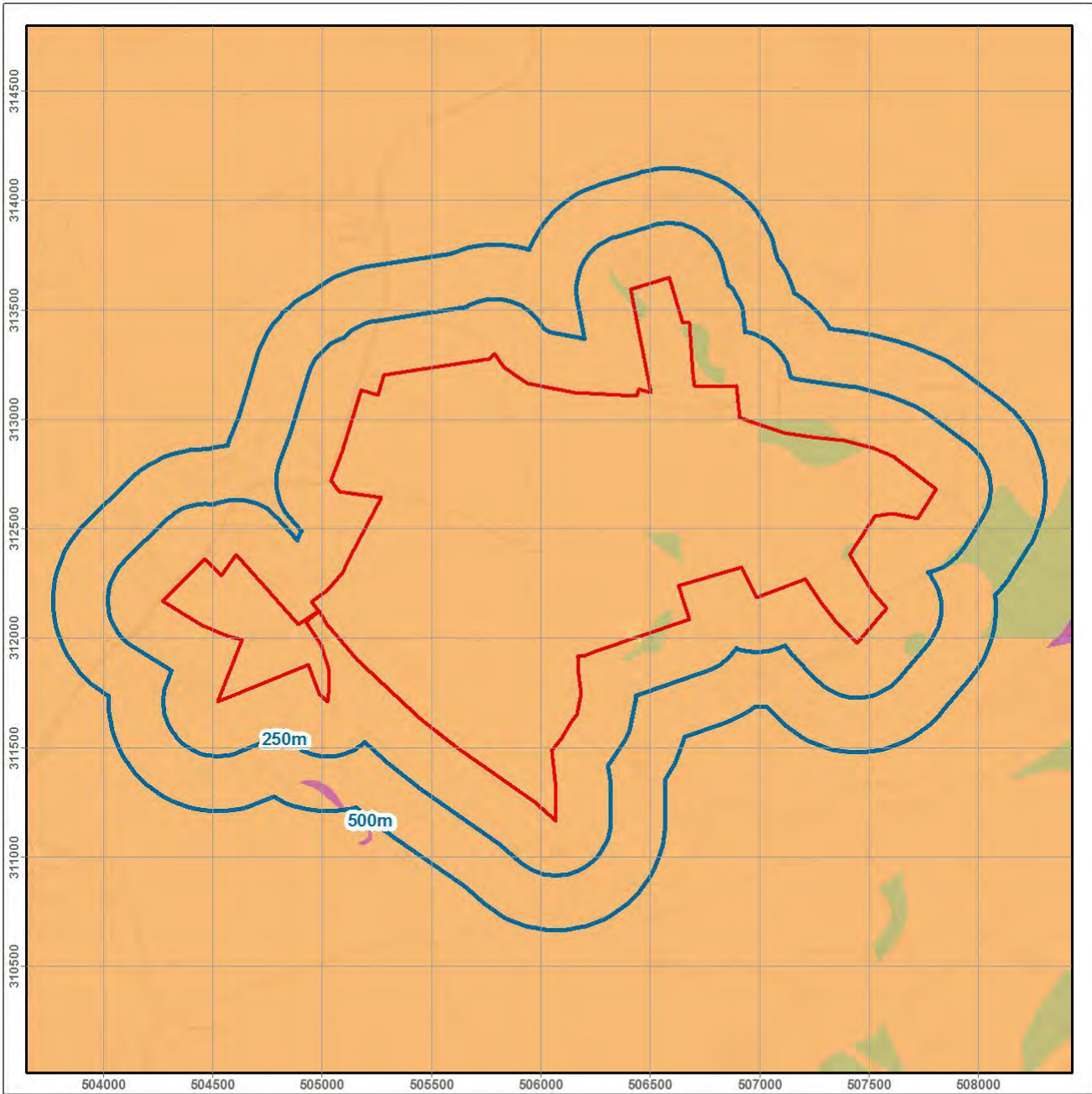
\* - Not all features in legend may be present in above map

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# BGS Soil Chemistry – Chromium



## Soil Chemistry - Chromium



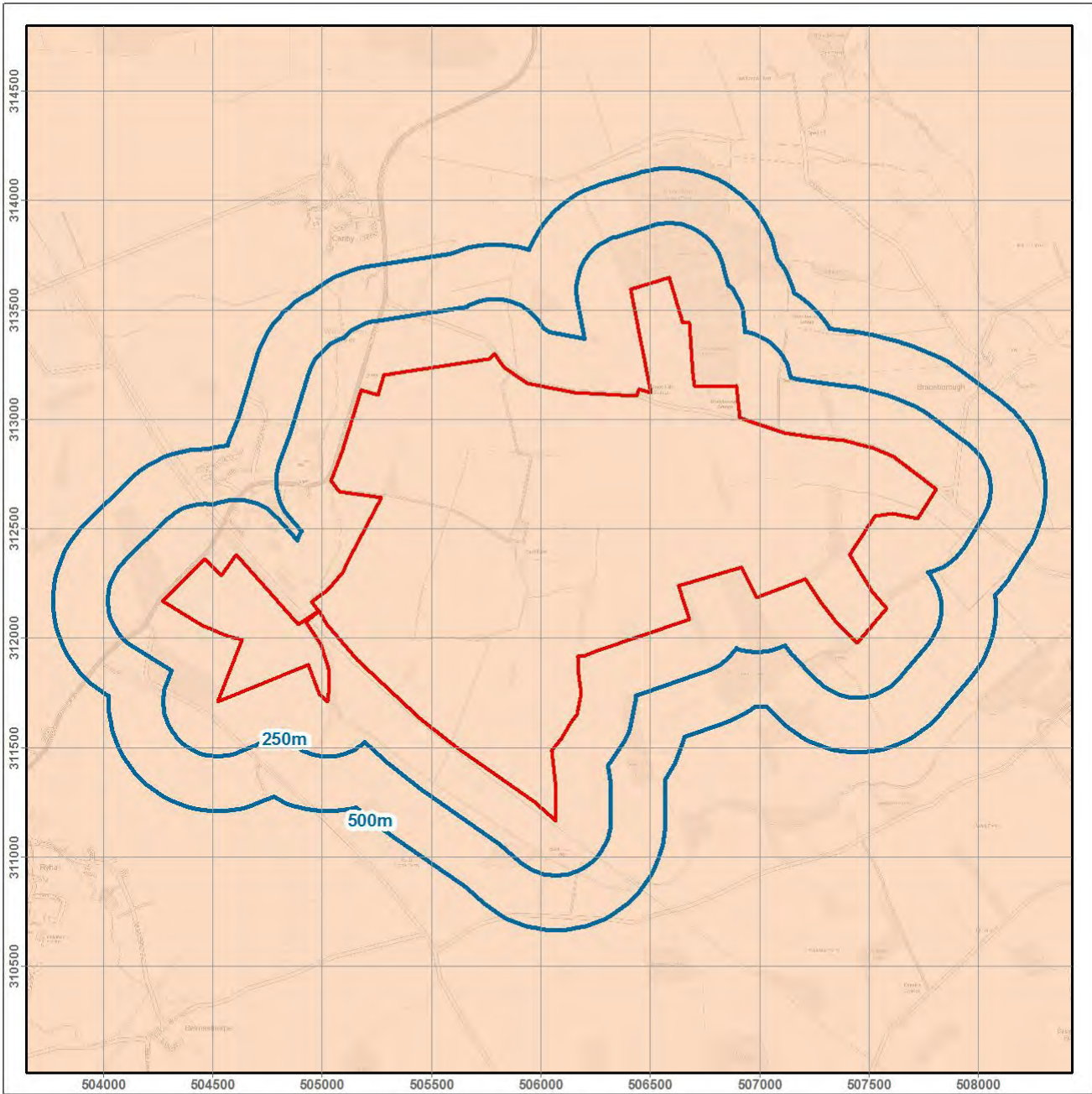
metres  
0 500 1000

\* - Not all features in legend may be present in above map

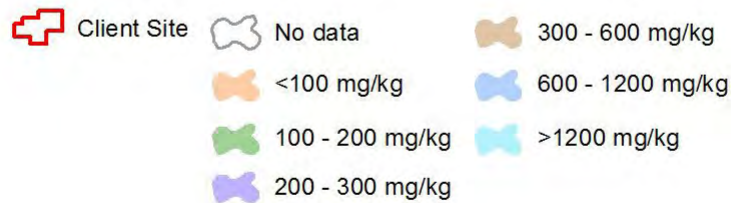
Nominal scale at A4 paper size - 1:29,000

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# BGS Soil Chemistry – Lead



## Soil Chemistry - Lead



metres  
0 500 1000

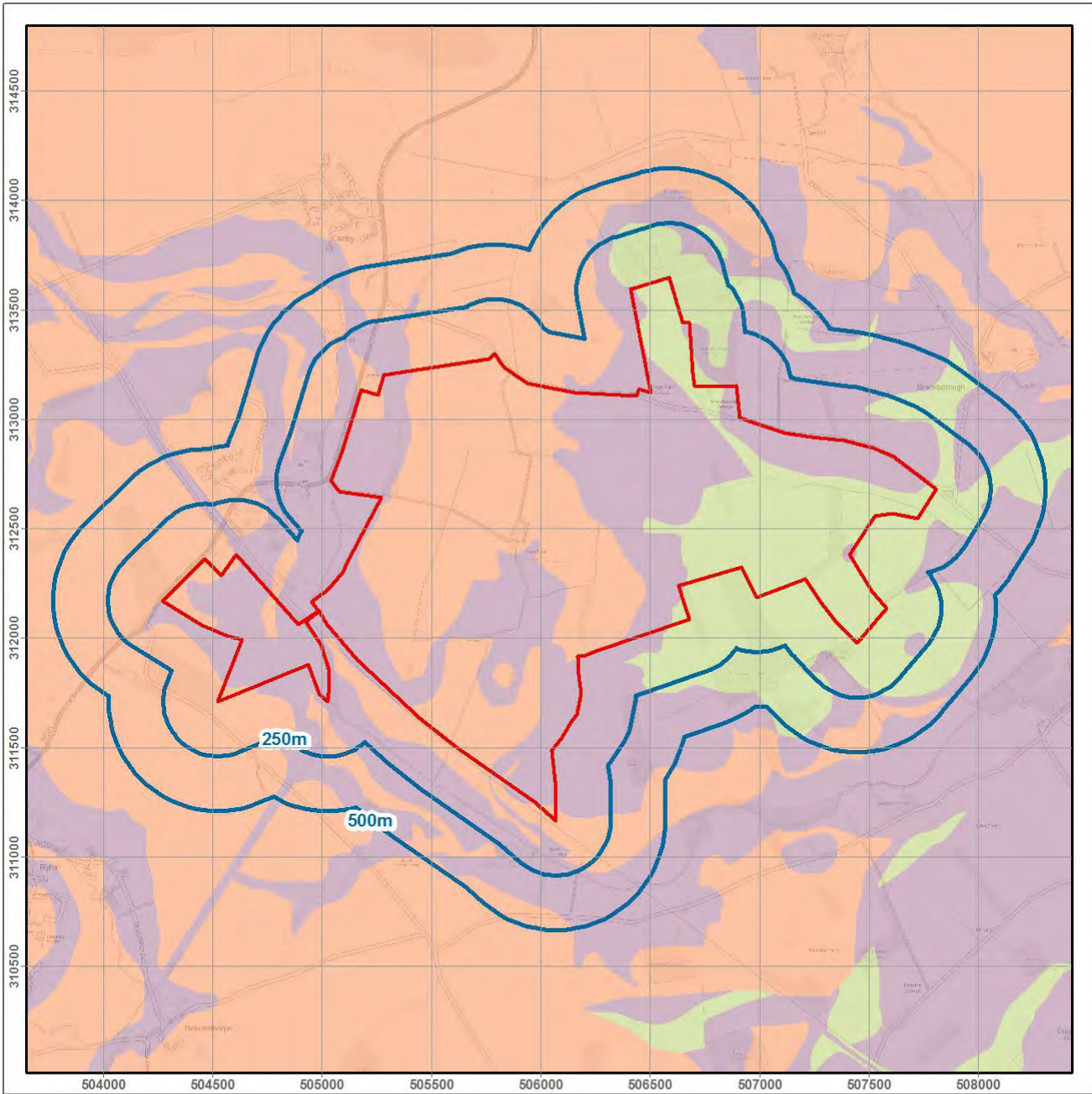


\* - Not all features in legend may be present in above map

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# BGS Soil Chemistry – Nickel



## Soil Chemistry - Nickel

- ▬ Client Site
 
  No data
 

  45 - 60 mg/kg
- <15 mg/kg
 
  60 - 80 mg/kg
- 15 - 30 mg/kg
 
  80 - 100 mg/kg
- 30 - 45 mg/kg
 
  >100 mg/kg

metres  
0 500 1000

\* - Not all features in legend may be present in above map

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# Soil Chemistry

## BGS Soil Chemistry Arsenic

Map ID	Details	Distance	Direction
	Sample Type: RuralSoil, Proportion: 15 - 25 mg/kg	On Site	-
	Sample Type: RuralSoil, Proportion: <15 mg/kg	On Site	-

## BGS Soil Chemistry Cadmium

Map ID	Details	Distance	Direction
	Sample Type: RuralSoil, Proportion: <1.8 mg/kg	On Site	-

## BGS Soil Chemistry Chromium

Map ID	Details	Distance	Direction
	Sample Type: RuralSoil, Proportion: 40 - 60 mg/kg	On Site	-
	Sample Type: RuralSoil, Proportion: 60 - 90 mg/kg	On Site	-
	Sample Type: RuralSoil, Proportion: 90 - 120 mg/kg	365.3m	S

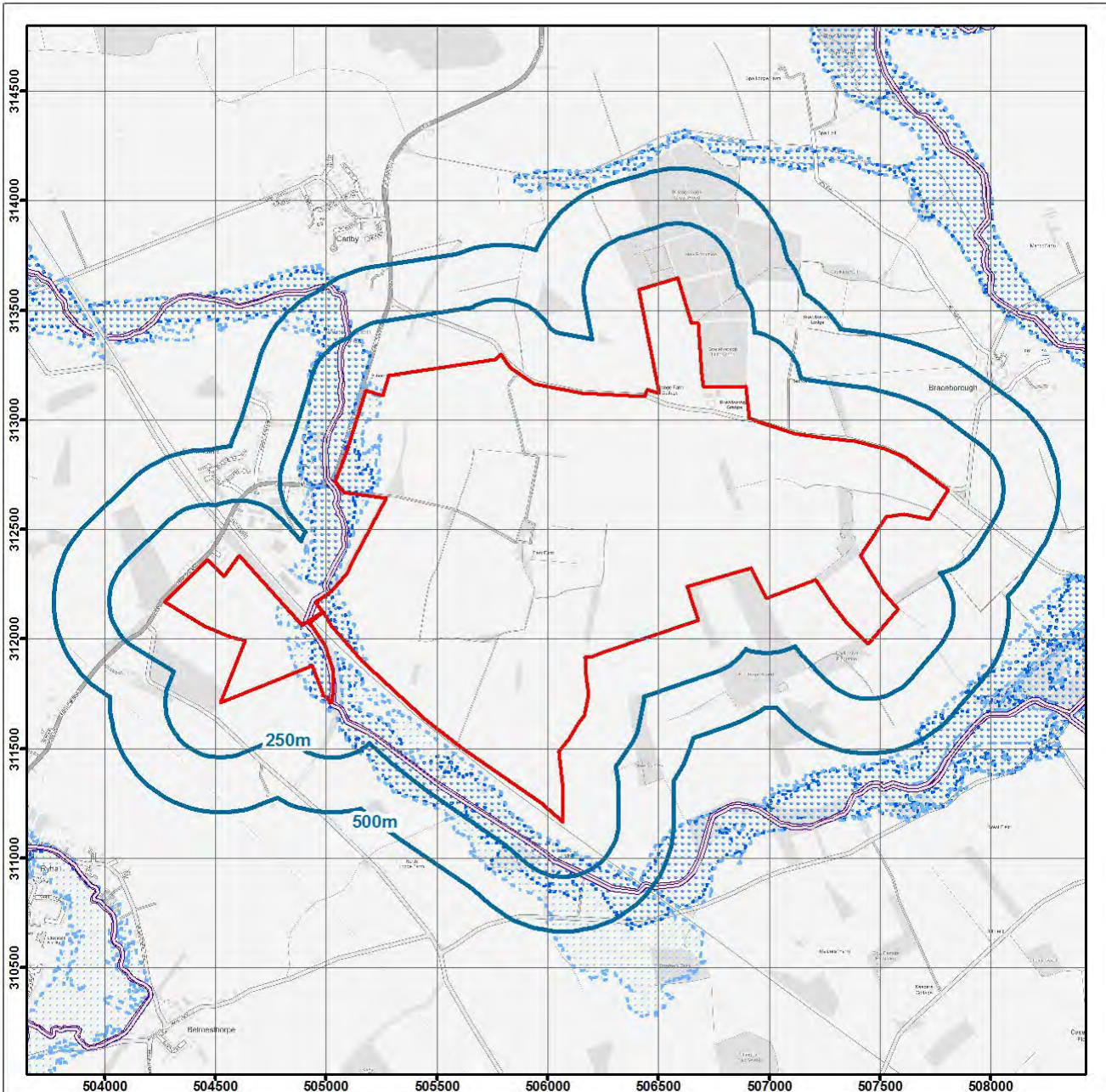
## BGS Soil Chemistry Lead

Map ID	Details	Distance	Direction
	Sample Type: RuralSoil, Proportion: <100 mg/kg	On Site	-

## BGS Soil Chemistry Nickel

Map ID	Details	Distance	Direction
	Sample Type: RuralSoil, Proportion: 15 - 30 mg/kg	On Site	-
	Sample Type: RuralSoil, Proportion: 30 - 45 mg/kg	On Site	-
	Sample Type: RuralSoil, Proportion: <15 mg/kg	On Site	-

# Flooding from Rivers or Sea



## Environment Agency

-  Client Site
-  Defended Areas
-  Flood Defences
-  Flood Zone 2
-  Flood Storage
-  Flood Zone 3

meters  
0 500 1000



\* - Not all features in legend may be present in above map

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# Flooding from Rivers or Sea

## Flooding from River or Sea (Flood Zone 3)

Map ID	Details	Distance	Reply or Direction
	Are there any indicative flood plains within 500m?	<501m	YES
	Type: Fluvial Models, Source: Environment Agency, Head Office, Boundary Accuracy: As Supplied.	On Site	-

## Flooding from River or Sea in an Extreme Event (Flood Zone 2)

Map ID	Details	Distance	Reply or Direction
	Are there any indicative flood plains (extreme events) within 500m?	<501m	YES
	Type: Fluvial Models, Source: Environment Agency, Head Office, Boundary Accuracy: As Supplied.	On Site	-



The Site is at a low risk of flooding from rivers or the sea, as defined by the regulatory body's Flood Map. If the Site area is greater than one hectare, any planning application for development would need to be accompanied by a Flood Risk Assessment in accordance with NPPF.

## Areas Benefiting from Flood Defences

Map ID	Details	Distance	Reply or Direction
	Does the Site or any areas within 500m benefit from flood defences?	<501m	NO



The Site is over 500m from an Area Benefiting from a Flood Defence, as defined by the regulatory body. The residual risk that the Site may flood if the protection standard of any flood defences is exceeded, or if the defences fail, is insignificant.

## Flood Water Storage Areas

Map ID	Details	Distance	Reply or Direction
	Are there any flood water storage areas within 500m?	<501m	NO



The Site is over 500m from a Flood Storage Area (FSA) as defined by the regulatory body. These areas store flood water during significant flood events. It is unlikely that any FSA presents any associated flood risk to the Site.

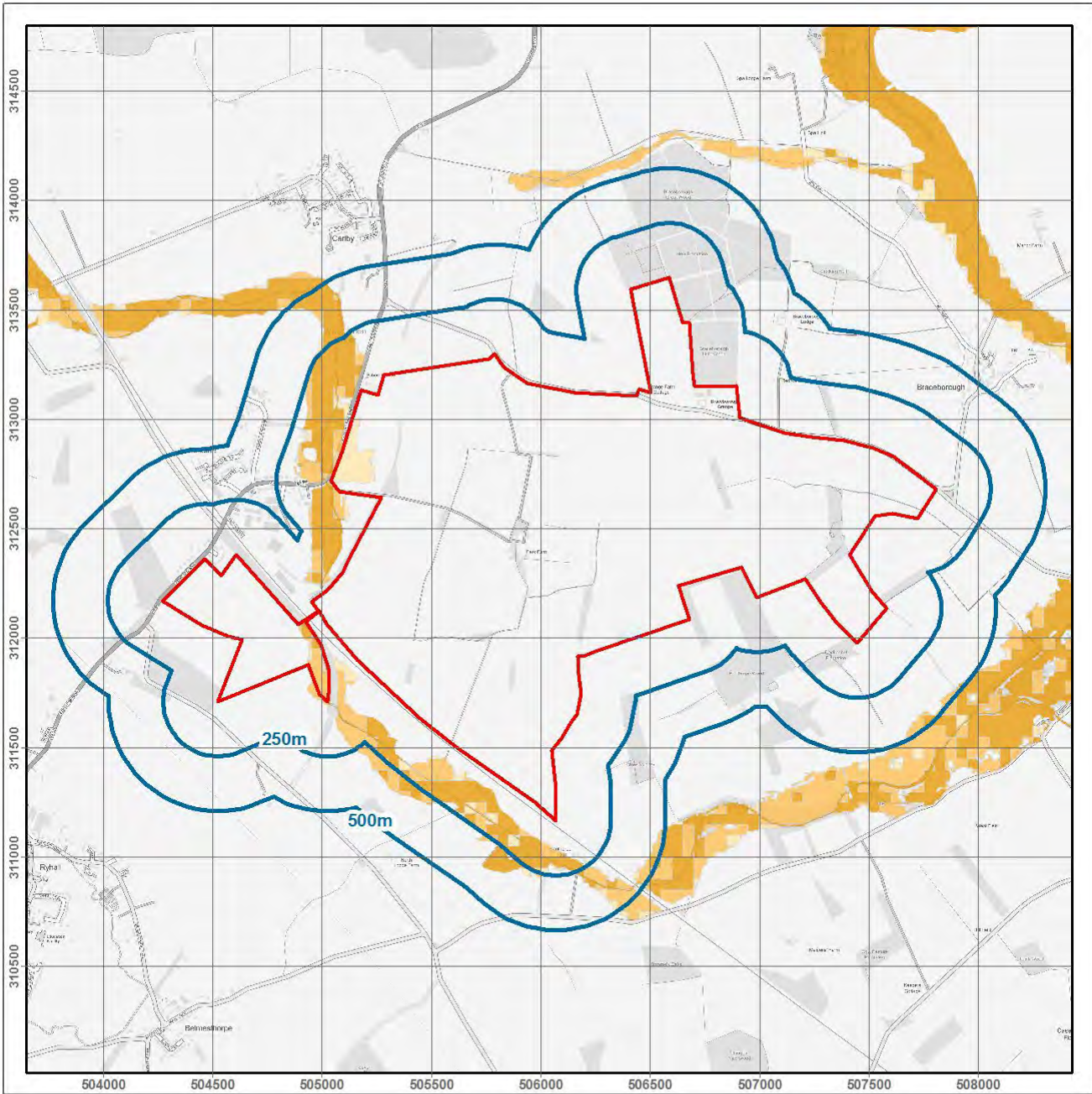
## Flood Defences

Map ID	Details	Distance	Reply or Direction
	Are there any flood defences within 500m?	<501m	YES



There are flood defences on the Site. However, there is a residual risk of flooding should the protection standard of those defences be exceeded (and the defences overtopped) or should the defences fail. It is recommended that further investigations are undertaken into the standard of these defences. Please contact us for further information.

# The Environment Agency Risk of Flooding from Rivers and Sea



## Risk of Flooding from Rivers and Sea (RoFRS)

-  Client Site
-  High
-  Medium
-  Low
-  Very Low

metres  
0 500 1000



\* - Not all features in legend may be present in above map

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# The Environment Agency Risk of Flooding from Rivers and Sea

Details	Distance	Reply or Direction
What is the flood likelihood category for the Site?	On Site	High



The Site (or part of it) has been defined as being at Significant Flood Risk within the regulatory body's risk assessment. This classification relates to the locality as a whole, rather than the individual site and relates only to the risk of coastal or river flooding. It is recommended that a FLOODSOLUTIONS Consult Report is undertaken to further define the flood risk to the Site.

### The Environment Agency Data

The data in the Risk of Flooding from Rivers and Sea Property Flood Likelihood Database is sourced from The Environment Agency's National Property Dataset (NPD2). The information provided includes the flood likelihood category low, moderate, or significant according to the flood risk analysis.



# Groundwater Flooding Risk

## Groundwater Flooding Risk

Details	Distance	Reply or Direction
What is the risk of groundwater flooding at the Site?	On Site	high



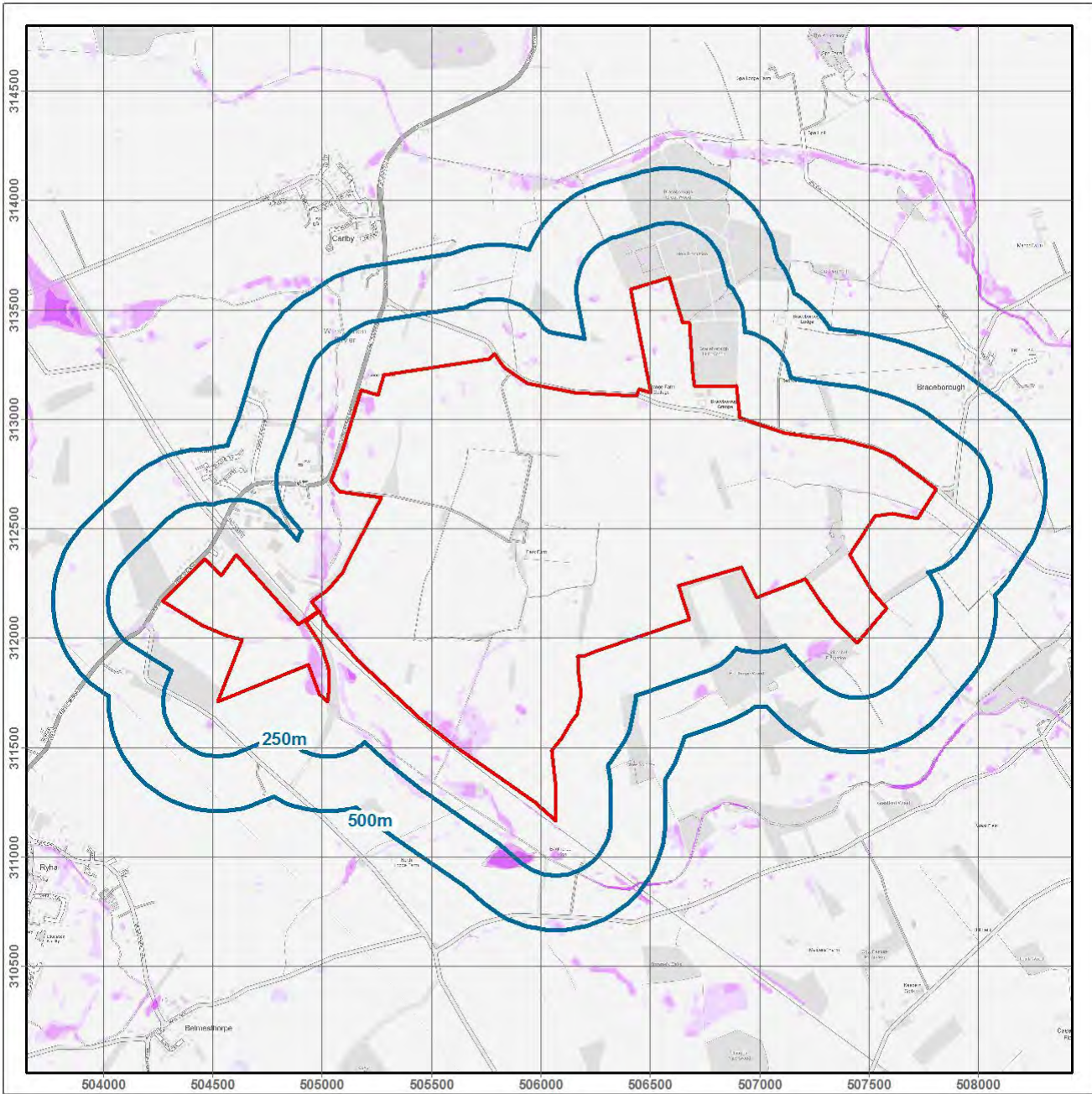
Information from GeoSmart Information Ltd indicates that there is a high risk of groundwater flooding in this area with a return period of 1 in 100 years or more frequent. It is likely that incidence of groundwater flooding will occur, which could lead to damage to property or harm to other sensitive receptors at, or near, this location. Flooding may result in damage to property, road or rail closures and, in exceptional cases, may pose a risk to life. Surface water flooding will be exacerbated when groundwater levels are high. Further consideration of the level of risk and mitigation, by a suitably qualified professional, is recommended.

### GeoSmart Information Ltd Data





GeoSmart Information Ltd provides data to Argyll in relation to groundwater flooding. Through research and development, building on their expertise in addressing groundwater flooding issues for the Environment Agency and other clients in the UK, GeoSmart Information Ltd has developed algorithms and calibrated predictions of the risk of groundwater flooding occurring in England and Wales. This differs from other suppliers of data regarding groundwater flooding which only report on the susceptibility of groundwater flooding. Susceptibility merely has to be identified, whereas risk must be quantified. The resulting map is a 5x5m classification of groundwater flooding risk into four categories (Negligible, Low, Moderate and High). GeoSmart Information Ltd's classifications are based on the level of risk, combining severity and uncertainty that a site will suffer groundwater flooding within a return period of about 100 years.

The map is a general purpose indicative screening tool, and is intended to provide a useful initial view for a wide variety of applications. However, it does not provide an alternative to a site specific assessment, and a detailed risk assessment should be used for any site where the impact of groundwater flooding would have significant adverse consequences.

# Surface Water Flooding (1:200 year rainfall event)



## Surface Water Risk

-  Client Site
-  10cm - 30cm depth
-  30cm - 1m depth
-  1m + depth

metres  
0 500 1000



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# Surface Water Flooding

## Surface Water Flooding

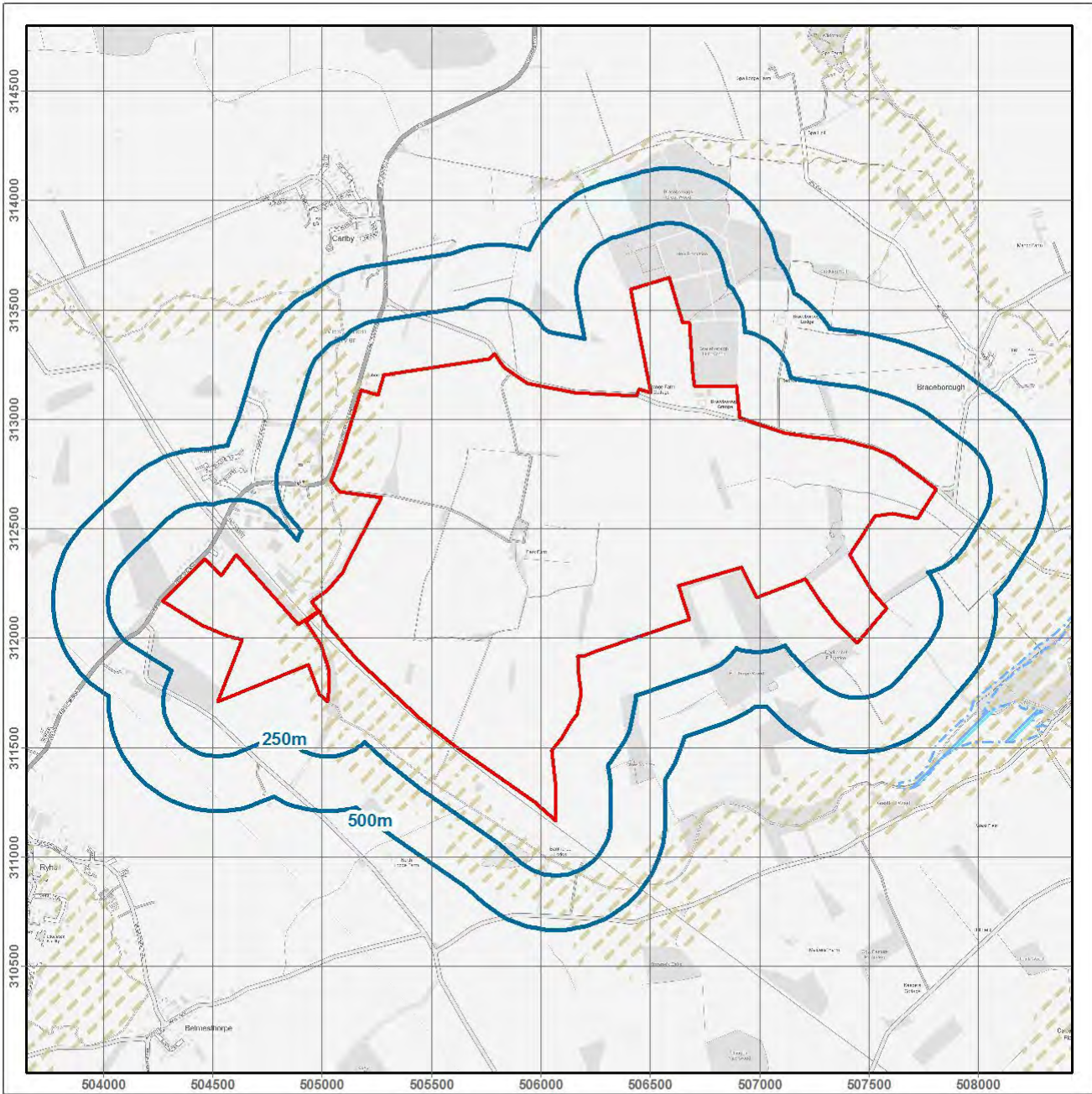
Details	Distance	Reply or Direction
What is the risk of surface water flooding at the Site following a 1 in 75 year rainfall event?	On Site	medium
What is the risk of surface water flooding at the Site following a 1 in 200 year rainfall event?	On Site	medium
What is the risk of surface water flooding at the Site following a 1 in 1,000 year rainfall event?	On Site	medium



### JBA Risk Management Data

Surface Water Flooding - Information regarding the risk of natural surface water or pluvial flooding. The risk is classified by JBA into four categories, low (equal to 10cm), low to medium (more than 10cm), medium (more than 30cm) and high (more than 1m) which reflect varying depths of potential surface water flooding during a range of rainfall events including 1:75 year, 1:200 year, and 1:1000 year.

# Historical Flooding



## Historical Flooding

- Client Site
- Historic Floods
- Geo Indicators

metres  
0 500 1000

\* - Not all features in legend may be present in above map

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# Historical Flooding

## Historical Flood Events

Details	Distance	Reply or Direction
Have any historic flood events occurred at the Site or within 500m?	<501m	NO



The regulatory body's records have no indication of past flooding within 500m of the Site. As these records are not comprehensive, it may still be prudent to ask the Site owner whether they are aware of any previous flooding at the Site or in the surrounding area.

### Environment Agency Data

Historic Flood Outlines - The EA has collated extensive records (including outlines) of flooding from rivers, the sea or groundwater which have occurred in England and Wales since c. 1950. This information comes from various sources including maps, aerial photographs and private records. It is not necessarily comprehensive.

## Geological Indicators of Flooding

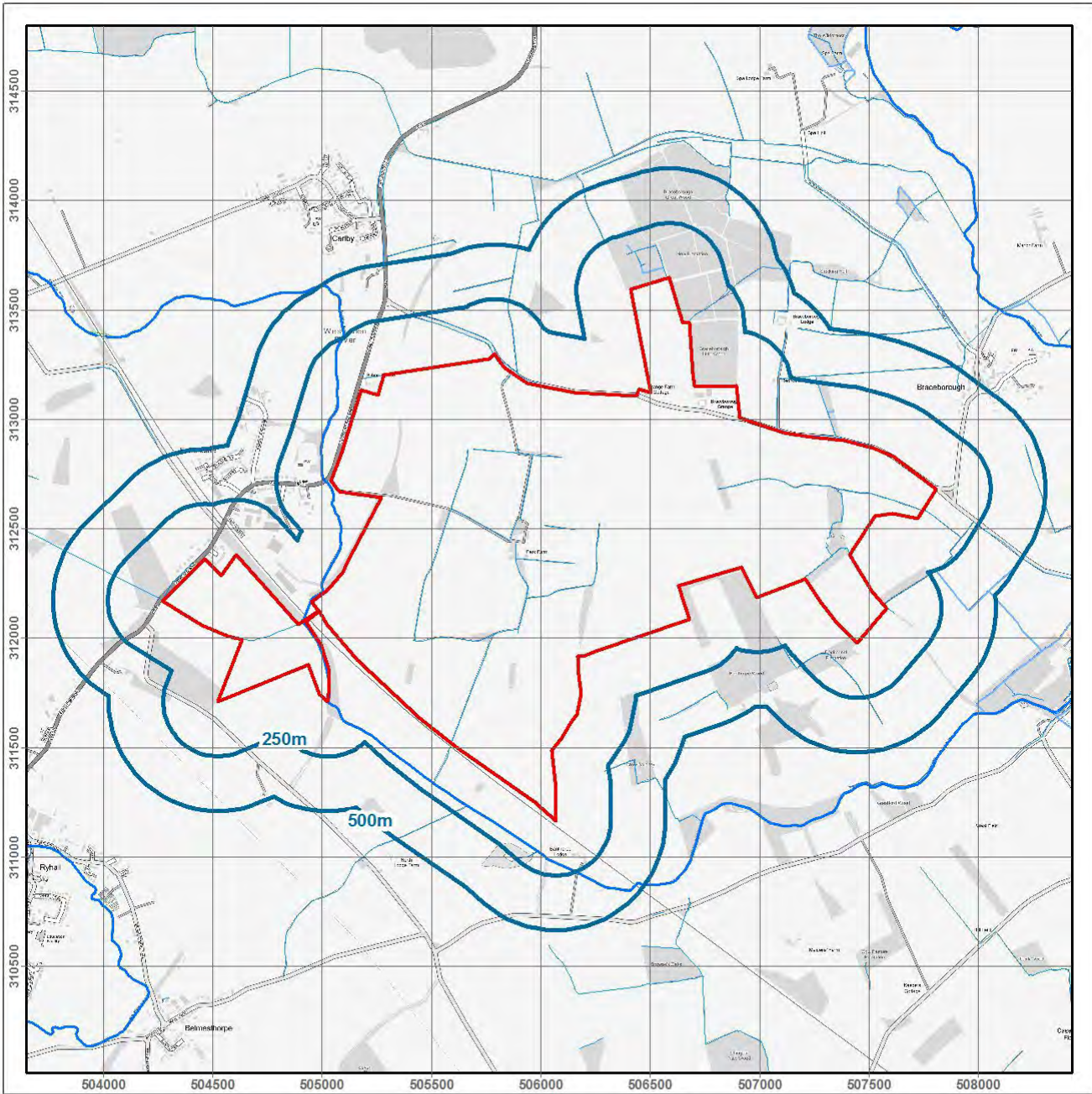
Details	Distance	Reply or Direction
Are there any geological deposits which indicate the Site may have been flooded in the past?	<26m	YES
Fluvial flooding indicators, Lower flood potential from rivers: areas affected by secondary flooding in extreme cases as a result of a prolonged flood event.	On Site	-
Fluvial flooding indicators, Higher flood potential from rivers: the first areas to experience the effects of inland flooding in a river catchment.	On Site	-



### British Geological Survey Data

Geological Indicators of Flooding – The BGS Geological Indicators of Flooding (GIF) data set is a digital map based on the BGS Digital Geological Map of Great Britain at the 1:50,000 scale (DiGMapGB-50). It was produced by characterising Superficial (Drift) Deposits on DiGMapGB-50 in terms of their likely vulnerability to flooding, either from coastal or inland water flow and reflects areas which may have flooded in the recent geological past. This normally relates to flooding which happened many thousands of years ago.

# OS MasterMap Water Network



## OS MasterMap Water Network

- |                         |                         |
|-------------------------|-------------------------|
| Client Site             | Lake or Reservoir       |
| Primary Flow (named)    | Foreshore and Sea       |
| Primary Flow (un-named) | Underground River       |
| Secondary Flow          | Marsh                   |
| Tidal River             | Canal, Lock or Transfer |

metres  
0 500 1000

\* - Not all features in legend may be present in above map

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# OS MasterMap Water Network

## OS MasterMap Water Network

Map ID	Details	Distance	Reply or Direction
	Is there any information from the OS's MasterMap Water Network within 500m?	<501m	YES
	Watercourse Type: Underground River	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	West Glen River Watercourse Type: Primary Flow (named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Lake or Reservoir	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Lake or Reservoir	On Site	-
	Watercourse Type: Underground River	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Underground River	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Lake or Reservoir	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Underground River	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-

## OS MasterMap Water Network

Map ID	Details	Distance	Reply or Direction
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	West Glen River Watercourse Type: Primary Flow (named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	West Glen River Watercourse Type: Primary Flow (named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Underground River	On Site	-
	Watercourse Type: Lake or Reservoir	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	On Site	-
	Watercourse Type: Primary Flow (un-named)	1.6m	NW
	Watercourse Type: Primary Flow (un-named)	1.6m	NW
	Watercourse Type: Primary Flow (un-named)	1.8m	NW
	Watercourse Type: Primary Flow (un-named)	2.5m	NE
	Watercourse Type: Primary Flow (un-named)	2.9m	N
	Watercourse Type: Primary Flow (un-named)	3.7m	N
	West Glen River Watercourse Type: Primary Flow (named)	3.8m	NW
	West Glen River Watercourse Type: Primary Flow (named)	3.8m	NW
	West Glen River Watercourse Type: Primary Flow (named)	4.9m	NW
	Watercourse Type: Primary Flow (un-named)	5.4m	NE
	Watercourse Type: Primary Flow (un-named)	5.9m	N
	Watercourse Type: Primary Flow (un-named)	7.9m	N
	Watercourse Type: Primary Flow (un-named)	10.0m	N
	Watercourse Type: Primary Flow (un-named)	11.3m	N
	Watercourse Type: Primary Flow (un-named)	11.6m	N
	Watercourse Type: Primary Flow (un-named)	12.5m	NE
	Watercourse Type: Primary Flow (un-named)	23.8m	NW
	Watercourse Type: Primary Flow (un-named)	31.8m	SW
	Watercourse Type: Secondary Flow	53.2m	N
	Watercourse Type: Primary Flow (un-named)	53.2m	N
	Watercourse Type: Primary Flow (un-named)	89.5m	N
	Watercourse Type: Primary Flow (un-named)	89.5m	N
	Watercourse Type: Underground River	93.3m	N
	Watercourse Type: Primary Flow (un-named)	98.6m	N
	Watercourse Type: Primary Flow (un-named)	102.0m	NW



## OS MasterMap Water Network

Map ID	Details	Distance	Reply or Direction
	Watercourse Type: Secondary Flow	118.7m	N
	Watercourse Type: Primary Flow (un-named)	118.7m	N
	Watercourse Type: Primary Flow (un-named)	126.7m	SW
	Watercourse Type: Primary Flow (un-named)	154.2m	NE
	Watercourse Type: Primary Flow (un-named)	157.7m	N
	Watercourse Type: Secondary Flow	159.4m	N
	Watercourse Type: Primary Flow (un-named)	159.4m	N
	West Glen River Watercourse Type: Primary Flow (named)	162.6m	SW
	West Glen River Watercourse Type: Primary Flow (named)	163.0m	SW
	Watercourse Type: Primary Flow (un-named)	163.0m	SW
	Watercourse Type: Lake or Reservoir	165.5m	SW
	Watercourse Type: Lake or Reservoir	168.2m	NE
	Watercourse Type: Underground River	181.4m	SW
	Watercourse Type: Primary Flow (un-named)	185.4m	N
	Watercourse Type: Primary Flow (un-named)	187.7m	SW
	West Glen River Watercourse Type: Primary Flow (named)	189.2m	SW
	Watercourse Type: Primary Flow (un-named)	190.2m	SW
	Watercourse Type: Primary Flow (un-named)	193.4m	E
	Watercourse Type: Primary Flow (un-named)	197.5m	S
	Watercourse Type: Underground River	205.4m	SW
	Watercourse Type: Primary Flow (un-named)	209.2m	SW
	Watercourse Type: Primary Flow (un-named)	209.2m	SW
	Watercourse Type: Primary Flow (un-named)	211.5m	SE
	Watercourse Type: Primary Flow (un-named)	218.2m	SE
	Watercourse Type: Underground River	227.4m	S
	Watercourse Type: Primary Flow (un-named)	230.6m	E
	Watercourse Type: Primary Flow (un-named)	232.6m	S
	Watercourse Type: Underground River	240.9m	NE
	Watercourse Type: Primary Flow (un-named)	243.5m	NW
	Watercourse Type: Secondary Flow	253.4m	S
	Watercourse Type: Underground River	272.8m	SW
	Watercourse Type: Primary Flow (un-named)	276.7m	N
	Watercourse Type: Primary Flow (un-named)	279.8m	NE
	Watercourse Type: Primary Flow (un-named)	320.1m	N
	Watercourse Type: Primary Flow (un-named)	333.8m	NE
	Watercourse Type: Underground River	346.6m	N
	Watercourse Type: Primary Flow (un-named)	350.0m	S
	Watercourse Type: Underground River	350.0m	S
	Watercourse Type: Primary Flow (un-named)	350.8m	S
	Watercourse Type: Primary Flow (un-named)	355.8m	N
	Watercourse Type: Primary Flow (un-named)	377.8m	E
	Watercourse Type: Primary Flow (un-named)	383.7m	NE
	Watercourse Type: Primary Flow (un-named)	392.3m	NE
	Watercourse Type: Primary Flow (un-named)	410.9m	NE
	Watercourse Type: Primary Flow (un-named)	416.5m	NE
	Watercourse Type: Primary Flow (un-named)	423.7m	NE

## OS MasterMap Water Network

Map ID	Details	Distance	Reply or Direction
	Watercourse Type: Primary Flow (un-named)	447.9m	E
	Watercourse Type: Underground River	451.0m	NE
	Watercourse Type: Primary Flow (un-named)	452.4m	NE
	Watercourse Type: Secondary Flow	465.7m	SE
	Watercourse Type: Secondary Flow	465.7m	SE
	Watercourse Type: Primary Flow (un-named)	479.1m	N
	Watercourse Type: Underground River	484.7m	N
	Watercourse Type: Primary Flow (un-named)	486.3m	N
	Watercourse Type: Primary Flow (un-named)	491.6m	N
	Watercourse Type: Underground River	499.7m	SE



A water feature has been identified at the property. This does not present an immediate risk, however it may require frequent upkeep and maintenance.

### OS Data

OS MasterMap Water Network is a three-dimensional digital representation of the watercourses in Great Britain. It includes rivers, streams, lakes, lochs and canals as a series of watercourse network lines. The network lines (links) are attributed to provide a range of information about the section of watercourse they depict. The OS MasterMap Water Network will significantly enhance systems used to manage waterways, river and the flood risk they pose.

## Other Information

### Height Above Sea Level

Map ID	Details	Distance	Reply or Direction
	Maximum height of the Site above sea level	On Site	36.80m
	Minimum height of the Site above sea level	On Site	18.00m
	Average height of the Site above sea level	On Site	28.72m



The Site is at a relatively high elevation above sea level. However, this is not in itself indicative of the absence of flood risk and reference should be made to other assessments within this report.

## Distance to Water Features

Details	Distance	Reply or Direction
Are there any water features within 500m?	<501m	YES
Surface water feature	On Site	-
Surface water feature	On Site	-
Surface water feature	On Site	-
Surface water feature	On Site	-
Surface water feature	On Site	-
Surface water feature	On Site	-
Surface water feature	On Site	-
Surface water feature	On Site	-
Surface water feature	On Site	-
Surface water feature	On Site	-
Surface water feature	On Site	-
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Surface water feature	On Site	-
Surface water feature	On Site	-
Surface water feature	On Site	-
Surface water feature	On Site	-
Surface water feature	On Site	-
Surface water feature	10.7m	NE
Surface water feature	20.8m	W
Surface water feature	31.8m	SW
Surface water feature	101.2m	NW
Surface water feature	125.4m	SW
Surface water feature	168.2m	NE
Surface water feature	184.2m	N
Surface water feature	231.6m	S
Surface water feature	243.0m	NW
Surface water feature	318.9m	N
Surface water feature	382.5m	NE
Surface water feature	392.1m	SW
Surface water feature	392.3m	NE
Surface water feature	410.9m	NE
Surface water feature	446.6m	E
Surface water feature	463.4m	SE
Surface water feature	474.0m	SE
Surface water feature	484.4m	N



There is a water feature shown on the Ordnance Survey maps within the Site. This does not represent a flood risk in itself, but its presence has been taken into account in the overall risk assessment in this Report.

## Dam or Reservoir Failure

Details	Distance	Reply or Direction
Is there a risk of the Site being affected by the failure of a nearby dam or reservoir?	On Site	NO



There is a dam or reservoir in the surrounding area. However, models indicate that if this structure failed, the Site is not likely to flood. No further action is required.

### **JBA Risk Management Data**

Dam or Reservoir Failure – JBA has modelled approximately 1700 dams and reservoirs across the UK which are considered to pose the greatest risks to people and property. These models are able to predict the areas likely to flood on all sides of a feature, should an element of it fail e.g. a wall, dam or earth bund.

## Useful Contacts

Name and Address	Telephone/Fax/Email
Argyll Environmental Limited 1 <sup>st</sup> Floor 98 – 99 Queens Road Brighton BN1 3XF <a href="http://www.argyllenvironmental.com">www.argyllenvironmental.com</a>	Telephone 0330 036 6115 orders@argyllenviro.com
Environment Agency National Customer Contact Centre (NCCC) PO Box 544	Telephone 03708 506 506
Health and Safety Executive 5S.2 Redgrave Court <a href="http://www.hse.gov.uk">www.hse.gov.uk</a>	Telephone
Rutland Unitary Council Planning Support Catmose <a href="http://www.rutland.gov.uk">www.rutland.gov.uk</a>	Telephone 01572 722577 Fax: 01572 758307
Lincolnshire County Council 4th Floor <a href="http://www.lincolnshire.gov.uk">www.lincolnshire.gov.uk</a>	Telephone 01522 552222 Fax: 01522 552288 PublicRelations@lincolnshire.gov.uk
South Kesteven District Council Environmental Health Council Offices <a href="http://www.southkesteven.gov.uk">www.southkesteven.gov.uk</a>	Telephone
Rutland Unitary Council Environmental Health Department Catmose <a href="http://www.rutland.gov.uk">www.rutland.gov.uk</a>	Telephone 01572 722577 Fax: 01572 758307
Environment Agency Head Office Rio House	Telephone 01454 624400 Fax: 01454 624409
British Geological Survey Enquiry Service British Geological Survey <a href="http://www.bgs.ac.uk">www.bgs.ac.uk</a>	Telephone 0115 936 3143 Fax: 0115 936 3276 enquiries@bgs.ac.uk
Defra Nobel House 17 Smith Square London SW1P 3JR	Telephone 08459 335577 defra.helpline@defra.gsi.gov.uk
ALA (Agricultural Law Association)	Telephone 01206 383521 Enquiries@aka.org.uk
Please note that the Environment Agency / SEPA have a charging policy in place for enquiries. When contacting these agencies please mention that this data has been received from the Landmark database, alternatively Argyll Environmental Limited would be pleased to assist with consultation to the above bodies. Please contact us for a quotation.	

## Contaminated Land Risk Analysis Methodology

The Estate Solutions reports have been designed to assist in making informed decisions during property transactions. The Report is a desktop assessment of direct liabilities (Liabilities) which could affect the owner /occupier of the Site and arise under Part 2A of the Environmental Protection Act 1990 and/or equivalent requirements under the planning regime and/or the Water Resources Act 1991<sup>4</sup>. (Relevant Legislation). If a risk is identified, then a number of options for finding out more about the risk, managing it or transferring it are proposed.

The assessment of environmental liability under the Relevant Legislation is based upon the principle of determining the presence of a plausible contaminant-pathway-receptor relationship (a contaminant linkage). A 'contaminant' is a source of contamination, a 'pathway' is a medium through which the contamination can mobilise and 'a receptor' is a person or entity that could be detrimentally affected by the contamination. If all three are identified, then a 'plausible contaminant-pathway-receptor relationship' may be present. By definition, this is one which Argyll believes could result in significant harm, a significant possibility of significant harm or significant pollution or the possibility of significant pollution to Controlled Waters.

In our assessment we use the following test to decide if there is a potential liability affecting the Site. For the purpose of this assessment a site where a potential Liability has been identified is defined as follows:

*A Site which, from the information assessed by Argyll, is considered to have the potential of being affected by contaminative substances present in or under the Site (but excluding potential sources of contamination on or above the land) such that, on the basis of its current or proposed use, there is a reasonable likelihood of a UK regulatory authority, acting in accordance with Relevant Legislation, requiring that remedial measures are taken in order to remedy or mitigate the contaminative substances that are present in or under the land that forms all or part of the Site.*

The term Liabilities is defined within the scope of this assessment to mean, remedial works under Part 2A of the Environmental Protection Act 1990 (or where appropriate, equivalent requirements under the planning regime) and/or the Water Resources Act 1991 which may result in direct liability for the site owner/occupier.

The assessment within the Report has been produced and quality checked by a team of qualified environmental professionals. The assessment is based upon a manual review of the data contained within the Data Section of this Report and of 1:2500 and 1:1250 (where available) scale historical mapping.

## Ecological Risk Assessment

The evaluation of ecological risk is becoming an increasingly important input when making risk management decisions. In the Site Solutions Commercial report, Argyll assesses two different drivers for risks and liabilities driven by ecological receptors;

- 1.The Contaminated Land Regime; and
- 2.The Environmental Damage Regulations (EDR) 2009.

The Environment Agency has designed a generic framework for conducting ecological risk assessment (see Assessing Risk to Ecosystems from Land Contamination, R&D Technical Report P299, EA 2002). This recommends a tiered approach in line with best practice for human health and controlled water risk assessment and defines Relevant Ecological Receptors as any of the Relevant Types of Receptor as set out in Table 1 of Defra Statutory Guidance on Contaminated Land dated April 2012.

Argyll assesses Relevant Ecological Receptors as part of its assessment process. To do so it uses the Argyll EcoRisk model which was developed and tested in consultation with leading experts and is based on the Environment Agency framework.

The Environmental Damage (Prevention and Remediation) Regulations 2009 were introduced on 1 March 2009 to implement the provisions of the European Commission's Environmental Liability Directive into law in England<sup>5</sup>. The aim of EDR is to prevent and remedy damage to protected species or natural habitats or a site of special scientific interest, surface water, groundwater or to land. 'Environmental damage' has a specific meaning in the Regulations, and covers only the most severe cases. Existing legislation with provisions for environmental liability remains in place. The Regulations apply on land in England and on the seabed around the UK up to the limits set out in the Continental Shelf Act 1964, and to waters in the Renewable Energy Zone, which extends approximately 200 miles out to sea.

Argyll does not consider the standard of current operations, but reports the potential for environmental damage based on the location of EDR Receptors around the Site.

<sup>4</sup> Water Environment (Controlled Activities)(Scotland) Regulations 2005 where appropriate.




<sup>5</sup> Environmental Damage (Prevention and Remediation) (Wales) Regulations 2009 or Environmental Damage (Prevention and Remediation) (Scotland) Regulations where appropriate.

When conducting either assessment, Argyll will primarily assess information provided in the Data section of the Report. However, in some cases Argyll may choose to supplement this with freely available public information such as that provided by Natural England and/or information provided by the Argyll Europa System.

## Liability Assessment

In this section Argyll will report on any potential soil and groundwater liabilities which it considers are associated with the Site. Our assessment of Liability is based upon the proposed and current use of the Site(as supplied by the client)in line with current Government guidance.

There will be one of the following three responses:

Assessment	Liability Statement & explanation	Defra Category*
<b>PASSED</b> 	<p><b>Within the scope of this assessment no Liabilities have been identified. No further action is required.</b></p> <p>This statement indicates that within the scope of this assessment, no issues have been identified that are likely to result in significant cost liabilities under Relevant Legislation.</p>	3 or 4
<b>PASSED</b> 	<p><b>Within the scope of this assessment no Liabilities have been identified. However, your attention is drawn to the prudent enquiries suggested below.</b></p> <p>This statement indicates that within the scope of this assessment, no issues have been identified that are likely to result in significant cost liabilities under Relevant Legislation. However, a client may wish to obtain further information about other issues disclosed in the Report, which could be material.</p>	3 or 4
<b>FURTHER ACTION</b> 	<p><b>Potential Liabilities have been identified under Part 2A of the Environmental Protection Act 1990 (or where appropriate, equivalent requirements under the planning regime) and/or the Water Resources Act 1991<sup>6</sup>. To quantify these you may decide to undertake a more detailed assessment through the recommendation(s) set out below.</b></p> <p>This statement indicates that within the scope of this assessment, an issue or a number of issues have been identified that are likely to result in significant cost liabilities under Relevant Legislation. In this event, recommendations are made, in order that additional information is collected so that the liabilities may be more accurately assessed.</p>	Potentially 1 or 2

\* According to Defra's updated Statutory Guidance on Contaminated Land, Regulators have a four-stage test to decide when land is and is not contaminated. Category 1 and Category 2 sites would encompass land which is capable of being determined as contaminated land, whereas Category 3 and Category 4 sites would encompass land which is not capable of being determined as contaminated land.

## Limitations of the Report

The Estate Solutions reports have been designed to satisfy standard environmental due-diligence enquiries, as recommended by the Law Society's contaminated land warning card. It is a 'remote' investigation and reviews only information provided by the client and from the databases of publicly available information that have been chosen to enable a desk based environmental assessment of the Site. The Report does not include a site investigation, nor does Argyll make specific information requests of the regulatory authorities for any relevant information they may hold. Therefore, Argyll cannot guarantee that all land uses or factors of concern will have been identified by the Report.

The information in the Data Section of the Report is derived from a number of statutory and non-statutory sources. While every effort is made to ensure accuracy, Argyll cannot guarantee the accuracy or completeness of such information or data. Argyll will not accept responsibility for inaccurate data provided by external data providers.

Further information regarding our risk assessment methodology is provided in the Products and Services User Manual which is available free of charge from the client area of our website [www.argyllenvironmental.com](http://www.argyllenvironmental.com). For further information regarding the datasets reviewed within our assessment, please contact one of our technical team on 0330 036 6115. This report is provided under The Argyll Environmental Terms and Conditions for Data Reports, a copy of which is available on our website.Flood Risk Screening Methodology

<sup>6</sup>Water Environment (Controlled Activities)(Scotland) Regulations 2005 where appropriate.

The EstateSolutions Farm includes a desktop flood risk assessment designed to enable property professionals to assess the risk of flooding at agricultural sites. It examines the overall risk of flooding at a site (not taking into account any flood defences that may be present). The report considers current Government guidance including the National Planning Policy Framework (NPPF) and the agreement between the Association of British Insurers and Defra known as the Statement of Principles. The report has been produced and quality-checked by a qualified consultant using the data contained in this report.

## Flood Risk Rating

Argyll provides an overall flood risk rating based on an assessment of the data provided within this report. It does so by asking one question:

1. What is the overall risk of flooding, assuming flood defence fail or are absent or overtopped?

The answer to this question provides a worst case scenario assuming there are either no defences in the area, that any defences in the area could fail, primarily as a result of river or coastal flooding, or are overtopped by excessive flood volumes.

Questions 1 are answered by one of six standard responses:

Response	Meaning
Negligible	The overall flood risk rating for the Site is assessed to be 'Negligible'. Existing datasets do not indicate any risk at the Site itself, or any feature within the locality of the Site, which would be expected to pose a threat of flooding. It is not considered that any further investigations are necessary in regard to flood risk.
Low	The overall flood risk rating for the Site is assessed to be 'Low'. Although large sites (over 1 ha) would require a Drainage Impact Assessment to accompany any planning application, it is not considered necessary to undertake any other further investigations into the flood risk to the Site.
Low to Moderate	The overall flood risk rating for the Site is assessed to be 'Low to Moderate'. The presence of such features as flood defences, flood storage areas and watercourses within the locality of the Site suggests that there may be a risk of flooding to the Site itself. Further investigations could be undertaken to further assess this risk.
Moderate	The overall flood risk rating for the Site is assessed to be 'Moderate'. Information from existing datasets suggests that there are certain features which may present a risk to the Site and its occupants. Further assessment would normally be suggested as a prudent measure to clarify the risk of flooding at the Site.
Moderate to High	The overall flood risk rating for Site is assessed to be 'Moderate to High'. Information from existing datasets suggests that there are certain features which may present a significant risk to the Site and its occupants. Further assessment is usually recommended in order to clarify the risk of flooding at the Site.
High	The overall flood risk rating for Site is assessed to be 'High', with a consequent risk to life and property. This means that existing datasets reveal significant flood risk issues which need to be addressed. Further assessment is usually recommended in order to clarify the risk of flooding at the Site.

## Flood Analysis

The flood risk gauges provide a more detailed analysis of the risk from each of the four main types of flooding – river, coastal, groundwater and surface water. In addition, a fifth gauge provides an analysis of other factors (i.e. historic flood events, geological deposits which are indicative of past flooding, proximity to surface water features and elevation above sea level) that may affect the overall flood risk. For surface water flooding, only the risk rating generated from the 1:200 year rainfall event data is included in the overall risk assessment. The data on 1:75 year and 1:1,000 year rainfall events is provided for information only. The flood analysis within the report is automated taking into account the percentage of identified flood risk from the individual datasets to assess their significance in the context of the wider farm. This includes an assessment of whether the assumed main buildings within the Site boundary fall within an area of flood risk. For further information on each of these types of flooding, please refer to the Argyll FloodSolutions User Guide.

This analysis takes into account any existing flood defences that are intended to protect the Site and assumes that these work as designed. The analysis also takes into account the other information contained in those data sections of the report



which are relevant to that particular type of flooding. The assessment of the risk as shown in the flood gauge should therefore take priority over the information in the individual data sections of the report.

## Limitations of the Report

The Renaissance Estate Solutions Farm report has been designed to satisfy basic flood-related environmental due-diligence enquiries for farm and large estates. It is a desktop review of information provided by the client and from selected private and public databases. It does not include a site investigation, nor are specific information requests made of the regulatory authorities for any relevant information (other than local water and sewerage providers). Therefore, Argyll cannot guarantee that all issues of concern will be identified by this report, or that the data and information supplied to it by third parties is accurate and complete.

This report includes an assessment of surface water flooding which examines the risk of the general drainage network overflowing during periods of extreme rainfall. This report does not make a detailed site-specific assessment of the suitability of the existing drainage on the Site. If this is required, then a site survey should be considered. The assessment of pluvial flooding does not take into account particular local or temporary factors that may cause surface water flooding such as the blockage or failure of structures on or within watercourses, drains, foul sewers, water mains, canals and other water infrastructure; and any history of drains flooding at the Site or in the locality. Surface water flooding can occur before surface water reaches the general drainage network, for example on hills and inclines.

Environment Agency data does not include flood risk from very small catchments as models of such small scale catchments are not considered to be reliable for UK-wide flood risk assessments. The potential impact of climate change on flood risk to the Site would require further study.

When answering any questions within this report, current applicable legislation is taken into account.

The data used in this report may have inherent limitations and qualifications. Further details are set out in the FloodSolutions User Guide which is available free of charge from our website [www.argyllenvironmental.com](http://www.argyllenvironmental.com) , or by calling one of our technical team on 0330 036 6115.

This report is provided under The Argyll Environmental Terms and Conditions for Flood Solutions Reports, a copy of which is available on our website, [www.argyllenvironmental.com](http://www.argyllenvironmental.com) , or by calling one of our technical team on 0330 036 6115.



## Consumer Protection

### Important Consumer Protection Information

This search has been produced by Argyll Environmental Ltd, 1<sup>st</sup> Floor, 98 – 99 Queens Road, Brighton, BN1 3XF.

Tel: 0330 036 6115, Email: [orders@argyllenviro.com](mailto:orders@argyllenviro.com).

Argyll Environmental adheres to the Conveyancing Information Executive (CIE) standards.

### The Standards:

- Conveyancing Information Executive Members shall act in a professional and honest manner at all times in line with the Conveyancing Information Executive Standards and carry out the delivery of the Search with integrity and due care and skill.
- Compliance with the Conveyancing Information Executive Standards will be a condition within the Conveyancing Information Executive Member's Terms and Conditions.
- Conveyancing Information Executive Members will promote the benefits of and deliver the Search to the agreed standards and in the best interests of the customer and associated parties.
- The standards can be seen here: <http://www.conveyinfoexec.com>

### Complaints

If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award up to £5,000 to you if the Ombudsman finds that you have suffered actual financial loss and/or aggravation, distress or inconvenience as a result of your search provider failing to keep to the Standards.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPO.

### TPOs Contact Details:

The Property Ombudsman scheme  
Milford House  
43-55 Milford Street  
Salisbury  
Wiltshire SP1 2BP

Tel: 01722 333306

Fax: 01722 332296

Web site: [www.tpos.co.uk](http://www.tpos.co.uk)

Email: [admin@tpos.co.uk](mailto:admin@tpos.co.uk)

## Argyll Environmental Complaints Procedure

If you want to make a complaint to Argyll Environmental, we will:

- Acknowledge it within 5 working days of receipt
- Normally deal with it fully and provide a final response, in writing, within 20 working days of receipt
- Keep you informed by letter, telephone or e-mail, as you prefer, if we need more time
- Provide a final response, in writing, at the latest within 40 working days of receipt
- Liaise, at your request, with anyone acting formally on your behalf

Complaints should be sent to:

Legal Director  
Argyll Environmental Ltd  
1<sup>st</sup> Floor  
98 - 99 Queens Road  
Brighton  
BN1 3XF

Tel: 0330 036 6115

Email: [orders@argyllenviro.com](mailto:orders@argyllenviro.com)

If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs):

Tel: 01722 333306,

Email: [admin@tpos.co.uk](mailto:admin@tpos.co.uk)

We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.





# **Mallard Pass**

Solar Farm


## **Mallard Pass Solar Farm**

**Scoping Report**

**Appendix 7.5b: Argyll Environmental  
Report - Wood Farm**

**February 2022**

## EstateSolutions Farm



### Argyll's Overview

#### Contaminated Land :

The property poses a sufficiently serious environmental risk to require further investigation. Please refer to the recommendations on page 4.

#### Flood Risk :

Moderate - The Site is susceptible to flooding from one or more sources. A prudent purchaser should ask the vendor whether there has been any historical flooding and confirm the availability of building and contents insurance. You may also want to carry out further assessment and explore options for managing flood risk (see pages 3 & 4).

#### Environmental Hazards :

The following other Environmental Hazards have been identified in the immediate vicinity of the Site: Radon 1 to 3%, Ground Instability Hazard, and Infilled Land  
Overhead transmission lines are located within 50m of the Site.



Report on:

**Wood Farm Essendine Road, Uffington, PE9 4QE**

#### Report prepared for:

Womble Bond Dickinson

#### Client Reference:

SA1402853\_ESF

#### Report Reference:

AEL-4300-LSF-1023627

#### National Grid Reference:

505755,309610

#### Report date:

21st June 2021



## Site Location

### Report prepared on

Wood Farm Essendine Road, Uffington, PE9 4QE

### Site Area (hectares)

241.5787

### Current Use

Agricultural

### Proposed Use

Agricultural

### Report Prepared For

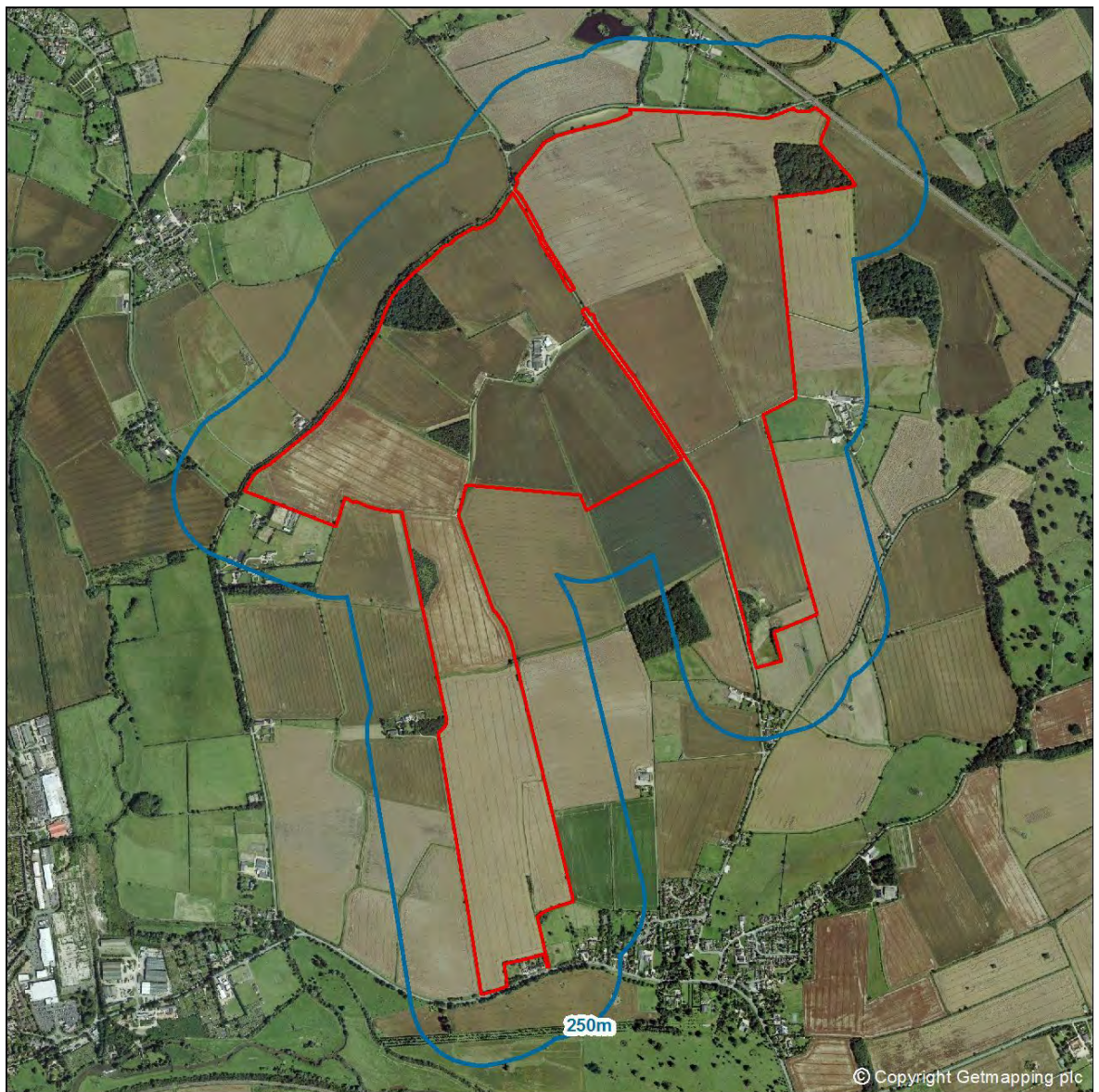
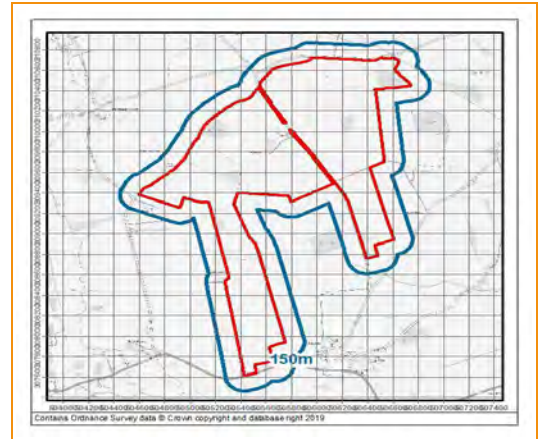
Assumed purchase

### Report Author

Lauren Sharpe

Telephone: 0330 036 6115

E-mail: [orders@argyllenviro.com](mailto:orders@argyllenviro.com)





# Summary of Liabilities and Risk

Issue	Evaluation
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## Contaminated Land Liability Assessment



**FURTHER ACTION**



What is the pollution risk from within the property?	High
What is the pollution risk from the surrounding area?	Low to Moderate
What is the sensitivity of this area to pollution?	High
What is the overall liability risk of this property?	High

Within the scope of this assessment potential liabilities have been identified at the farm. We recommend that you undertake more detailed investigation to better quantify these risks. Please see our recommendations for details.



**PASSED**



## Flood Risk Summary

What is the overall risk of flooding at the farm, assuming flood defences are operational?	Moderate (see recommendations below)
--	---



## Additional Considerations Summary

Asbestos		Ground Instability		Mining Hazard	
Radon		Coal Mining		Nitrate Vulnerability	
Brine Compensation		Historic Rights of Way		Sensitive Land Uses	
Water Abstractions		Sewage Discharges		Stewardship Schemes	
Unexploded Ordnance		Soil Chemistry		Transmission Lines	
COMAH Sites		Listed Buildings			

Please refer to the Additional Considerations section for further details for those considerations that have been flagged by the report.





## FURTHER ACTION



### Contaminated Land Recommendation

We have identified a former landfill on the farm. This means the farm could be designated as “Contaminated Land”. The Local Authority are responsible for investigating Contaminated Land, and should have more information on the severity of the risk. We can gather this information for you as part of our SiteSolutions Consult report.

We recommend the following actions:

- Upgrade to a [SiteSolutions Consult](#): (10-15 working day turnaround) £450 + VAT *including third-party costs.*) This can include a review of any relevant information supplied from the vendor. This could include information on ground conditions and signs of pollution or reduced productivity.
- Inspect the area for obstructions, discoloured soil, distressed vegetation and poor soil quality.

*Please call your report writer on 03300 366 115 to discuss any aspect of this recommendation*



## PASSED









### Flood Risk Recommendations

1. Although areas of the Site have been identified as at an increased risk of flooding, owing to the limited extent and location of this risk in relation to the main operational areas, further detailed assessment is not deemed necessary. However, it would be prudent to check with the current vendor to confirm whether or not historical flooding has significantly impacted upon farm operations, facilities and general farming practices.
2. If this risk relates to areas where buildings are present, you may wish to consider further assessment to establish anticipated flood depths which will aid a cost appraisal and installation of flood resistance and/or resilience protection measures (Please contact Argyll for more details).
3. You may wish to consider obtaining insurance terms prior to the completion of this transaction if the main buildings on Site are at risk.



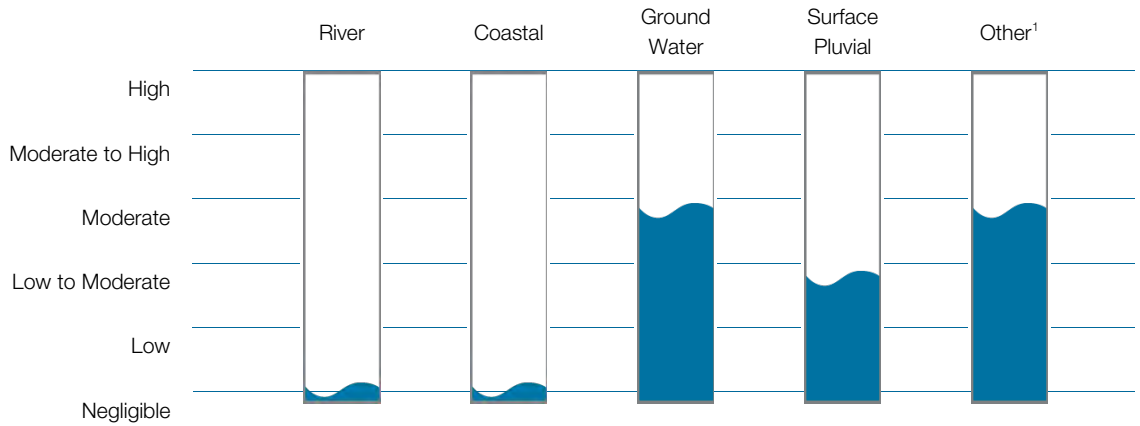
# Contaminated Land Risk Analysis

Investigation	Risk Commentary
 <p><b>Farm description</b></p> <p><b>Farm History</b></p>	<p>The farm is approximately 242 hectares and is formed of arable land and woodland. A farmyard is located in the centre, and is comprised of multiple barns and silos, with an associated residential property. Additional residential properties are also located in the centre of the Farm. A disused pit is located in the south. No redevelopment is proposed.</p> <p>A review of historical maps dating from 1887 shows the following potentially contaminative uses on the farm: a gravel pit in the north c.1887-1905, a gravel pit in the south c.1887-2021 (overgrown rather than infilled), and an additional gravel pit in the south c.1930-1958.</p> <p>Finally, recorded landfill sites have been identified at the farm; a Historical Landfill Site recorded as accepting household waste, and a Local Authority Recorded Landfill Site recorded as accepting dry domestic, construction, waste subject to dpw act waste, and operational until 1979.</p>
<p><b>Argyll's Comment</b></p> 	<p>As a result of the historical and current use of the Site, there is a <b>high risk</b> of contaminants being present.</p>
 <p><b>Current and historical surrounding area description</b></p>	<p>According to current mapping and aerial photography the farm is almost entirely surrounded by arable land or grassland, farmyards and small areas of woodland. Railways are located adjacent north east.</p> <p>A review of historical maps dating from 1877 shows the following potentially contaminative uses within 100m of the farm: railways adjacent north east c.1887-2021, worked ground 70m north c.1888-1892, and a gravel pit adjacent south .1930-1958.</p>
<p><b>Argyll's Comment</b></p> 	<p>The historical and current use of the surrounding area is therefore considered to present a <b>low to moderate risk</b> of affecting the Site.</p>
 <p><b>Water resources and sensitive habitats</b></p>	<p>The general area appears to be in agricultural use, with residential properties located on the Farm.</p> <p>The superficial hydrogeology underlying the Site is classified as a Secondary (A) Aquifer (deposits with moderate permeability), and a Secondary (Undifferentiated) Aquifer (deposits with variable/limited permeability) and the bedrock hydrogeology is classified as a Secondary (A) Aquifer (deposits with moderate permeability), an Unproductive Stratum (deposits of negligible permeability), and a Principal Aquifer (highly permeable formations). The Site lies within a Zone I Source Protection Zone (SPZ). An SPZ is a protection zone placed around a well or borehole that supplies groundwater of potable quality.</p> <p>There are nine abstraction licences located within 500m. The closest of these are a stream abstraction (68m north east) for frost protection use, and a stream abstraction (68m north east) for spray irrigation use.</p> <p>In addition, Site users, buildings and services are considered sensitive receptors due to the potential for volatile gases and aggressive ground conditions in light of historic land uses.</p> <p>Drainage channels are located on Site. Finally no designated eco-receptors were identified within a 500m radius of the Site.</p>
<p><b>Argyll's Comment</b></p> 	<p>Overall, the Site is therefore considered to have a <b>high environmental sensitivity</b>.</p>
<p><b>Additional Sources of Information</b></p>	<p>The following additional historical map packs were used to produce this report.</p> <ul style="list-style-type: none"> <li>• Envirocheck Ref: 280744362 centred on 505755, 309610.</li> </ul>



# Flood Risk Screening

<b>Flood Analysis of Whole Farm</b>	What is the overall risk of flooding at the farm, assuming defences fail or are absent or over-topped?	<b>Moderate</b>
<b>Flood Defences Effect</b>	Are there existing flood defences that might benefit the Site?	<b>Yes</b>
	What is the risk of flooding when these defences are operational?	<b>Moderate</b>



<b>Flood Analysis of Buildings</b>	Are the main farm buildings at significant risk of flooding? <b>No</b>
<b>Riparian Ownership</b>	Is there a water feature located within or adjacent to the Site? <b>Yes</b>
<b>Argyll's Comment</b>	



A riparian owner describes anyone who owns a property where there is a watercourse within or adjacent to the boundaries of their property.

Under common law, a riparian owner has rights and responsibilities relating to the stretch of watercourse that falls within or beside the boundaries of their land. Their primary responsibility is to keep the watercourse free of any obstructions that could hinder normal water flow. If the riparian owner fails to carry out their responsibilities, this could result in civil action.

A riparian owner should also check before carrying out any works near to the edge of a river, as such works may be subject to byelaws. If infringed, this could lead to enforcement action by the Environment Agency.

There is a presumption that the boundary between properties abutting a watercourse is the centre line of that watercourse. To confirm whether this is the case, a solicitor should check the deeds or the Index Map.

The Environment Agency has published useful guidance "Living on the edge" for owners of land or property alongside a watercourse. Sometimes, the Environment Agency or other organisations managing flood risk, may have statutory rights of access to properties which adjoin a watercourse. This may be for for maintenance, repair or rebuilding of any part of the watercourse or for access to or repair of monitoring equipment.

<b>Development Control</b>	Is there a water feature located within 250m of the Site? <b>Yes</b>
<b>Argyll's Comment</b>	



Sites which lie close to (but do not adjoin) a watercourse, may be subject to planning controls should redevelopment be considered. The Environment Agency and Internal Drainage Boards are normally consulted regarding any development within 50m of a Main River or drainage channel. Navigation authorities are normally consulted regarding any development within 250m of a canal, although this varies on a site by site basis. Please see The Environment Agency website to check if there is a Main River within 20m of your property.

<sup>1</sup>Other factors influencing flood risk include historic flood events, geological indicators of flooding, proximate surface water features and elevation above sea level.

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Dam and  
Reservoir Failure  
Argyll's  
Comment



Could the Site be affected by dam or reservoir failure? **Yes**

The answer is based on detailed models provided by JBA Risk Management. These predict the areas liable to flood around approximately 1700 key dams and reservoirs across England and Wales (if that dam or reservoir were to fail).

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## Recommendations

1. Although areas of the Site have been identified as at an increased risk of flooding, owing to the limited extent and location of this risk in relation to the main operational areas, further detailed assessment is not deemed necessary. However, it would be prudent to check with the current vendor to confirm whether or not historical flooding has significantly impacted upon farm operations, facilities and general farming practices.
2. If this risk relates to areas where buildings are present, you may wish to consider further assessment to establish anticipated flood depths which will aid a cost appraisal and installation of flood resistance and/or resilience protection measures (Please contact Argyll for more details).
3. You may wish to consider obtaining insurance terms prior to the completion of this transaction if the main buildings on Site are at risk.



## Additional Considerations

Item	Summary	Suggested Action
<b>Asbestos (Commercial)</b>	If the buildings at the Site were constructed or renovated during the period between 1950 and 1999, then the fabric of these buildings may contain asbestos in a variety of forms.	Check Asbestos Register and Management Plan
<b>Historic Rights of Way</b>	A review of historic mapping indicates there may be former rights of way on the farm. It is possible that these could be re-instated by Natural England under the Discovering Lost Ways project within England. This project aims to identify former rights of way (pre-1949) which have disappeared from local authority maps and statements. Similar projects exist for Scotland and Wales. Argyll recommends contacting the relevant authority for further advice and discussion on the implications for a property owner.	Contact either Natural England, Scottish Natural Heritage, or Natural Resources Wales for further information
<b>Nitrate Vulnerable Zones</b>	The farm is located within a Nitrate Vulnerable Zone. Nitrate Vulnerable Zones are designated areas of land draining into waters assessed to be polluted by nitrates. As the farm lies within a designated zone the land owner will need to comply with the requirements of the Nitrates Action Programme regulated by DEFRA and the Environment Agency.	Contact the Environment Agency for further information
<b>Soils</b>	BGS soil chemistry data for the Site indicates 15 - 25 mg/kg of arsenic, <15 mg/kg of arsenic, <1.8 mg/kg of cadmium, 60 - 90 mg/kg of chromium, <100 mg/kg of lead, 15 - 30 mg/kg of nickel. 30 - 45 mg/kg of nickel. <15 mg/kg of nickel.	None required
<b>Agricultural Land Classifications</b>	The farm is located within a Grade 3 classification (good). The classification system forms part of the planning system in England and Wales. Agricultural land is classified into five categories according to versatility and suitability for growing crops. The top three grades 1, 2 and 3a are considered the best and most versatile land, 3b – 5 are considered moderate to very poor.	Contact Natural England for further information
<b>Radon 1 to 3%</b>	Employers are required by the Management of Health and Safety at Work Regulations 1999 to assess risks from radon in workplaces. You may therefore wish to contact the Health Protection Agency for further information regarding radon monitoring.	Contact the Public Health England for further information regarding radon monitoring.
<b>Ground Instability Hazard</b>	As a potential ground instability hazard was identified, you may wish to consult a local RICS accredited surveyor and/or review any available geotechnical surveys.	Contact RICS accredited Surveyor for further guidance
<b>Overhead Transmission Lines</b>	Overhead transmission lines are located within 50m of the Site (please refer to the Current Land Use maps to determine specific locations).	Contact the Public Health England for further information

## Generic Guidance

Item	Summary	Suggested Action
<b>Energy Performance Certificate</b>	Under the Energy Performance of Buildings (England and Wales) Regulations 2012 and the Energy Performance of Buildings (Scotland) Regulations 2008, there is a requirement for all buildings to have an Energy Performance Certificate (EPC) upon their construction, sale or lease (and in some cases when the building is modified).	Check EPC or conduct energy assessment
<b>Operational Compliance</b>	Such liabilities may arise if the Site is in commercial/industrial use and both the Site and the business are being purchased, or the Site is to be purchased as an investment with an operational business as a tenant.	Compliance audit
<b>Silage, Slurry, Oil, Storage (Farms)</b>	Under the Control of Pollution (Silage, Slurry and Agricultural Fuel Oil) Regulations 1991, silage, slurry or fuel storage facilities constructed after March 1991 have to be designed and built to minimum standards to prevent the pollution of Controlled Waters.	Compliance Audit
<b>Above and Below Ground Storage</b>	It is common for agricultural premises to store a variety of substances in above ground and underground storage tanks (ASTs and USTs). Most commonly red diesel, heating oil and occasionally petrol on larger estates. There is no reliable database of underground storage tanks nor are all above ground tanks marked on historical maps.	Check all tanks and surrounding land for signs of leaks or spills, such as stained ground or vegetation die-back
<b>Tree Preservation Orders / Hedgerows</b>	The objective of a TPO is to protect trees that make a significant impact on their surroundings (important feature within the local landscape or an historical association within the local area). If a tree has an associated TPO then it is an offence to cut down, prune, uproot, wilfully damage or destroy it.  Under The Town and Country Planning (Tree Preservation) (England) Regulations 2012, the existing regulations have continued for England and Wales. Farms situated in Wales will follow guidance regulated by the Welsh Assembly Government.	Contact the Local Planning Authority for further information
<b>Hedgerow Regulations 1997</b>	The Hedgerow Regulations came into force in 1997 to protect the most important hedges in the countryside from being removed. The regulations apply to hedges which are more than 20 metres long or which meet another hedgerow at either end. If you remove a hedgerow without permission you are liable to an unlimited fine and may have to replace the hedgerow.	Contact the Local Planning Authority for further information
<b>Change of Use Redevelopment</b>	Proposed changes in land use require permission from the Local Authority and are subject to conditions as part of the statutory planning process.	Contact local planning authority or speak with planning consultant

Whilst this assessment is primarily a desktop assessment of potential soil and groundwater liabilities, the above potential liability considerations that fall outside the scope of the Risk Analysis Methodology have been identified.

Additional sources of information may be available for the Site. These sources could include previous environmental reports (including audits, contaminated land investigation and remediation reports), valuation reports (including property observation checklists), a Land Quality Record, and property deeds. Argyll Environmental would be pleased to review any reports that are available and revise this report accordingly. This may entail additional fees depending upon the volume and complexity of information available. Please contact us for further information.

## Contents of the Data Section

Section	Description
<b>Tabular Summary</b>	<p>This section presents a tabular summary of information found for the Site and surrounding area. The data is presented in three buffer zones for ease of reference: data found at the Site, from 1-250m and from 251-500m.</p> <p>If a database has been searched the number of records found will be displayed under the relevant search band. If a database is not available or has not been searched, this will be represented by the abbreviation N/A under the relevant search band.</p>
<b>Current Land Use Mapping</b>	<p>This section provides information on current land uses and is divided into three sections, statutory information, waste and current industrial uses. It is preceded by two maps.</p>
<b>Statutory Information</b>	<p>This section presents detailed statutory information for the Site and surrounding area (up to 500m depending upon dataset). The Map ID of each feature is indicated (where applicable) followed by specific information on each feature and its distance and direction from the Site.</p> <p>If no data is identified then the section will be omitted.</p>
<b>Waste</b>	<p>This section presents detailed information on waste and landfill sites for the Site and surrounding area (up to 500m depending upon dataset). The Map ID of each feature is indicated (where applicable) followed by specific information on each feature and its distance and direction from the Site.</p> <p>If no data is identified then the section will be omitted.</p>
<b>Current Industrial Land Use</b>	<p>This section presents detailed information on current land use for the Site and surrounding area (0-250m). The Map ID of each feature is indicated (where applicable) followed by specific information on each feature and its distance and direction from the Site.</p> <p>If no data is identified then the section will be omitted.</p>
<b>Historical Land Use Mapping</b>	<p>The Historical Land Use Map presents 1:10,000 scale and selected 1:2,500 scale (tanks and energy facilities) historical land use information within 250m of the Site boundary.</p>
<b>Historical Land Use</b>	<p>This section presents selected information on historical land use for the Site and surrounding area (0-250m). The Map ID of each feature is indicated (where applicable) followed by specific information on each feature and its distance and direction from the Site.</p> <p>If no data is identified then the section will be omitted.</p>
<b>Aquifer Designations and Geology</b>	<p>This section is preceded by two maps that present information relating to the aquifer designations beneath the Site. The first of these maps indicates the designation of the Superficial geology. The second map presents the aquifer designation of the solid geology.</p> <p>These maps are followed by detailed information in relation to aquifer designations/groundwater vulnerability and geology at the Site and surrounding area (0-500m).</p> <p>If no data is identified then the section will be omitted.</p>
<b>Environmental Sensitivity</b>	<p>This section presents detailed information on the environmental sensitivity of the Site and surrounding area (up to 500m depending upon dataset) and is preceded by two maps. The first shows areas with statutory designations, the second shows source protection zones. The Map ID of each feature is indicated (where applicable) followed by specific information on each feature and its distance and direction from the Site.</p> <p>If no data is identified then the section will be omitted.</p>
<b>Natural and Mining Related Hazards</b>	<p>This section contains information on natural and mining related hazards which may affect the Site. These include subsidence, radon and mining.</p> <p>If no data is identified then the section will be omitted.</p>
<b>Farm Specific Issues</b>	<p>This section firstly presents data relating to designated features and areas that may be present on or in proximity to a farm and could affect or restrict farming operations (e.g. listed buildings, heritage sites etc.).</p> <p>If no data is identified then the section will be omitted.</p>

**Soil Chemistry**

This section is preceded by five maps that present information relating to the concentrations of Arsenic, Cadmium, Chromium, Lead and Nickel within soils beneath the farm and surrounding area. The maps are immediately followed by the detailed data.

If no data is identified then the section will be omitted.

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**Flooding Risk Information**

This section presents information relating to the four main types of flooding – River flooding, Coastal/tidal flooding, surface water flooding and groundwater flooding. Some of this data will be preceded by an associated map.

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# Tabular Summary

## Statutory Information

Authorisations	On-site	1-250m	251-500m
Local Authority Pollution Prevention and Controls	0	0	N/A
Local Authority Integrated Pollution Prevention and Controls	0	0	N/A
Integrated Pollution Controls	0	0	N/A
Integrated Pollution Prevention And Control	0	0	N/A
Registered Radioactive Substances	0	0	N/A
Discharges	On-site	1-250m	251-500m
Discharge Consents	0	7	N/A
Water Industry Act Referrals	0	0	N/A
Control of Major Accident Hazards Sites	0	0	0
Explosive Sites	0	0	0
Notification of Installations Handling Hazardous Substances	0	0	0
Planning Hazardous Substance Consents	0	0	0
Contraventions	On-site	1-250m	251-500m
Contaminated Land Register Entries and Notices	0	0	N/A
Local Authority Pollution Prevention and Control Enforcements	0	0	N/A
Enforcement and Prohibition Notices	0	0	N/A
Planning Hazardous Substance Enforcements	0	0	0
Substantiated Pollution Incident Register	0	0	0
Prosecutions Relating to Authorised Processes	0	0	N/A
Prosecutions Relating to Controlled Waters	0	0	N/A

## Waste

Waste/Landfill Sites	On-site	1-250m	251-500m
BGS Recorded Landfill Sites	0	0	0
Integrated Pollution Control Registered Waste Sites	0	0	N/A
Licensed Waste Management Facilities (Landfill Boundaries)	0	0	N/A
Licensed Waste Management Facilities (Locations)	0	0	0
Local Authority Recorded Landfill Sites	1	0	0
Registered Landfill Sites	0	0	0
Registered Waste Transfer Sites	0	0	N/A
Registered Waste Treatment or Disposal Sites	0	0	N/A
Historical Landfill Sites	1	0	0

## Current Land Use

Current Potentially Contaminative Uses	On-site	1-250m	251-500m
Contemporary Trade Directory Entries	0	0	N/A
Fuel Station Entries	0	0	N/A
Other Features	On-site	1-250m	251-500m
Overhead Transmission Lines	1	0	N/A

## Historical Land Use

Historical Potentially Contaminative Uses	On-site	1-250m	251-500m
Potentially Contaminative Industrial Uses (Past Land Use)	3	3	N/A
Historical Tanks And Energy Facilities	1	1	N/A

## Historical Land Use

Potentially Infilled Land	On-site	1-250m	251-500m
Former Marshes	0	0	N/A
Potentially Infilled Land (Non-Water)	2	1	N/A
Potentially Infilled Land (Water)	0	0	N/A

## Groundwater Vulnerability

Hydrogeology	On-site	1-250m	251-500m
Superficial Aquifer Designations	4	2	0
Bedrock Aquifer Designations	16	13	0
Geology	On-site	1-250m	251-500m
BGS 1:625,000 Solid Geology	2	N/A	N/A

## Environmental Sensitivity

Environmental Sensitivity	On-site	1-250m	251-500m
Areas of Outstanding Natural Beauty	0	0	N/A
Environmentally Sensitive Areas	0	0	N/A
Forest Parks	0	0	N/A
Local Nature Reserves	0	0	0
Marine Nature Reserves	0	0	0
National Nature Reserves	0	0	0
National Parks	0	0	N/A
National Scenic Areas	0	0	N/A
Nitrate Sensitive Areas	0	N/A	N/A
Nitrate Vulnerable Zones	3	N/A	N/A
Ramsar Sites	0	0	0
River Quality Biology Sampling Points	0	0	N/A
River Quality Chemistry Sampling Points	0	0	N/A
Nearest Surface Water Feature	1	0	N/A
Sites of Special Scientific Interest	0	0	0
Special Areas of Conservation	0	0	0
Special Protection Areas	0	0	0
Water Abstractions	0	3	6
Source Protection Zones	3	0	N/A

## Natural and Mining Related Hazards

Subsidence	On-site	1-250m	251-500m
Collapsible Ground Stability Hazards	1	0 <sup>2</sup>	N/A
Compressible Ground Stability Hazards	1	0	N/A
Ground Dissolution Stability Hazards	1	1	N/A
Landslide Ground Stability Hazards	1	0	N/A
Running Sand Ground Stability Hazards	1	1	N/A
Shrinking or Swelling Clay Subsidence Hazards	1	1	N/A
Non-Coal Mining Hazards	0	0	N/A
Radon	On-site	1-250m	251-500m
Radon Potential	1	N/A	N/A
Radon Protection Measures	1	N/A	N/A

<sup>2</sup>Ground stability hazards are only searched to a radius of 50m from the Site boundary.

## Natural and Mining Related Hazards

Mining	On-site	1-250m	251-500m
Brine Compensation Areas	0	N/A	N/A
Coal Mining Affected Areas	0	N/A	N/A
Natural and Mining Cavities	0	1	N/A
Mining Instability	0	0	N/A
BGS Recorded Mineral Sites	1	0	N/A

## Farm Specific Issues

Farm Specific Issues	On-site	1-250m	251-500m
Listed Buildings	0	3	12
World Heritage Sites	0	0	0
Scheduled Monuments	1	0	0
Historic Battlefields	0	0	0
Historic Landscapes	0	0	0
Country Parks	0	0	0
Ancient Woodlands	0	0	1

Soils	On-site	1-250m	251-500m
BGS Soil Chemistry Arsenic	2	0	0
BGS Soil Chemistry Cadmium	1	0	0
BGS Soil Chemistry Chromium	1	1	0
BGS Soil Chemistry Lead	1	0	0
BGS Soil Chemistry Nickel	3	0	0

## Flooding

Current Flood Risk	On-site	1-250m	251-500m
Flooding From Rivers or Sea	1	0	0
Flooding From Rivers or Sea (in an Extreme Event)	1	0	2
Areas Benefiting from Flood Defences	0	0	0
Flood Water Storage Areas	0	0	0
Flood Defences	0	2	3
Risk of Flooding from Rivers and Sea	0	3	0
Groundwater Flood Risk	3	0	0
Surface Water Flooding (1:75 year rainfall event)	2	1	0
Surface Water Flooding (1:200 year rainfall event)	2	1	0
Surface Water Flooding (1:1,000 year rainfall event)	2	1	0
Dam or Reservoir Failure	1	0	0
Historical Flooding	On-site	1-250m	251-500m
Historical Flood Events	0	0	1
Geological Indicators of Flooding	2	0	0
Other Flood Information	On-site	1-250m	251-500m
Surface Water Feature	0	5	4
MasterMap Water Network	31	11	21

### Tabular Summary Explanation

Argyll has carefully selected a range of datasets which are considered appropriate for the intended use of this report. Each dataset is searched to a set radius from the Site boundary and the tabular summary is divided into different search bands accordingly. If a database is searched and information is found, then the number of records available are detailed in the table above. If the database was searched and no data was found, then a zero will be present. If a database was not searched then the abbreviation N/A will be found, indicating this information was not available at the radius searched.

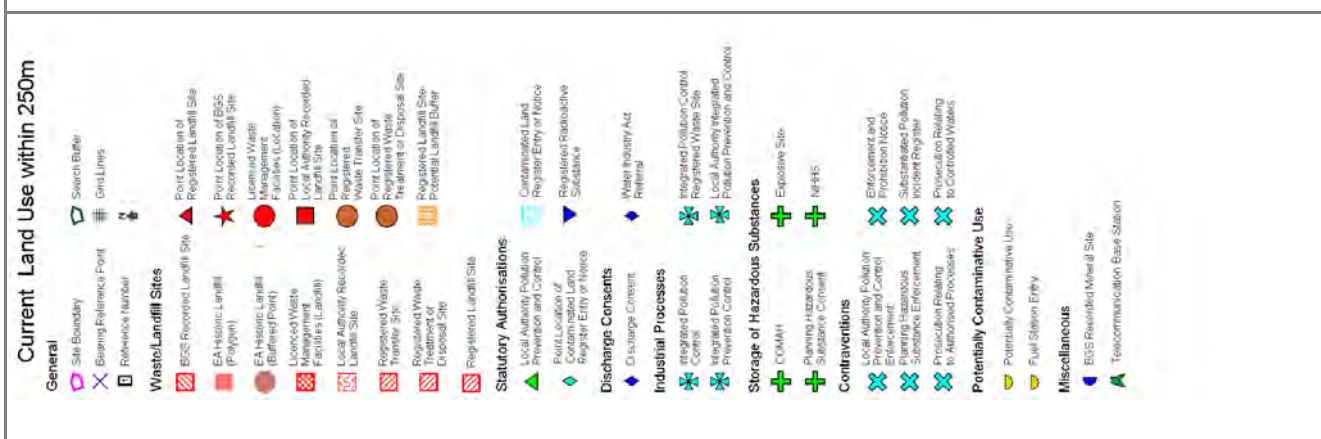
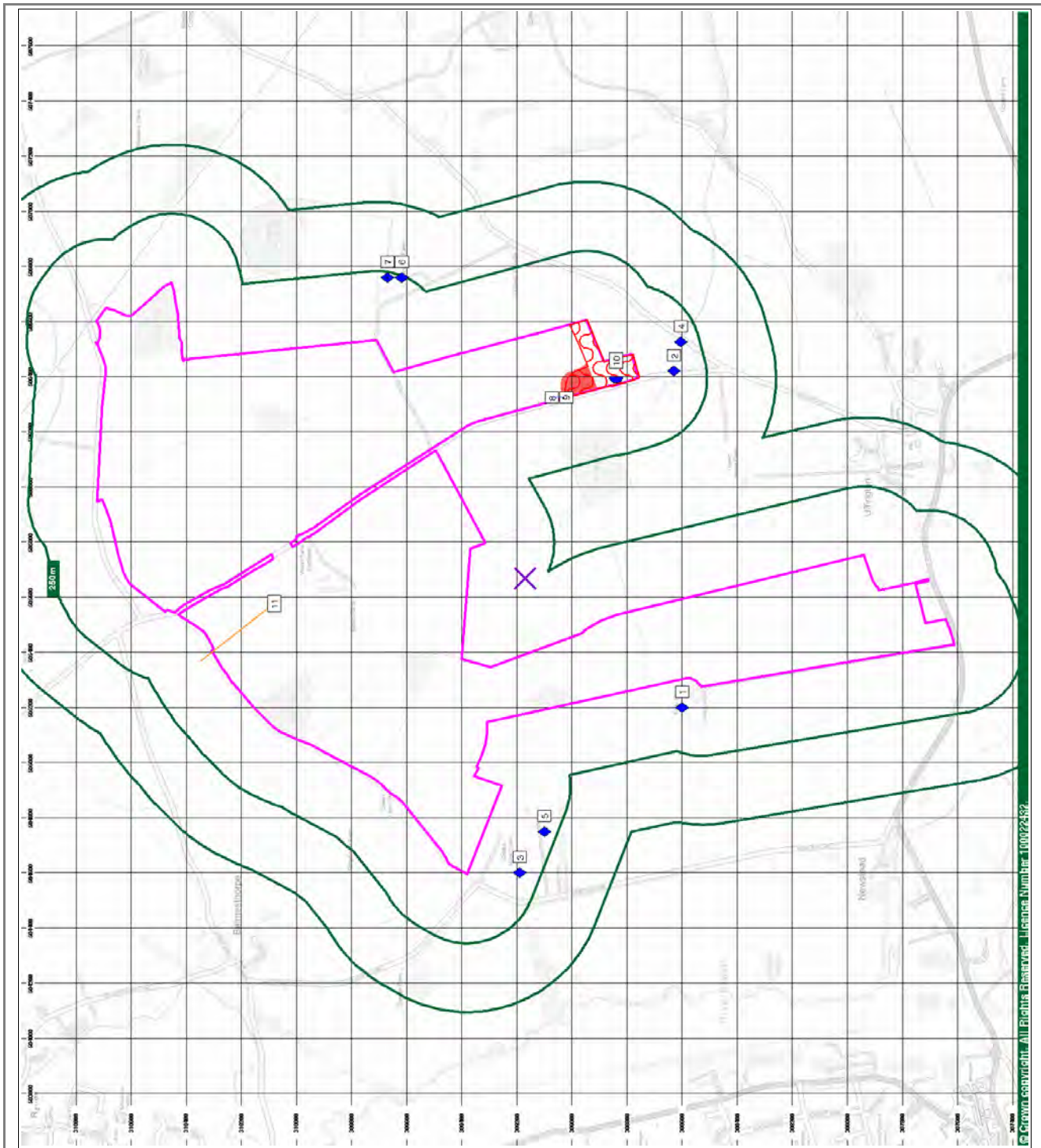
### Landfill Site Information

Registered landfill site boundaries (where available), are shown on the map as a red diagonal hatched polygon and referred to in the map legend as Registered Landfill Sites. At present no complete national dataset exists for landfill site boundaries, therefore a point grid reference provided by the data supplier is used for some landfill sites. The point grid references supplied provide only an approximate position, and can vary from the site entrance to the centre of the site. A point cannot properly define landfill boundaries therefore Landmark constructs a 250 metre or 100 metre "buffer" zone around the point to warn of the possible presence of landfill. The "buffer" zone is shown on the map as an orange crosshatched area and is referred to in the map legend as Potential Landfill Buffer.

Local Authority landfill data is sourced from individual local authorities that were able to provide information on sites operating prior to the introduction of the Control of Pollution Act (COPA) in 1974. Appropriate authorities are listed under Local Authority Landfill Coverage with an indication of whether or not they were able to make landfill data available. Details of any records identified are disclosed. You should be aware that if the local authority had landfill data but passed it to the relevant Environment Agency office, it does not necessarily mean that local authority landfill data is now included in our other Landfill datasets. In addition if no data has been made available for all or part of the search area, you should be aware that a negative response under 'Local Authority Recorded Landfill Sites' does not necessarily confirm that no local authority landfills exist.

### Subsidence Hazards

Information on subsidence hazards is provided by the British Geological Survey (BGS). Information present within 250m of the Site is reported under Natural and Mining Related Hazards. Due to the level of detail of this data and the complexities of the real world, the BGS recommends a precautionary approach when using this information and advises taking the worst reading noted for each dataset within the vicinity of a property. Therefore, Argyll reports the presence of a ground stability or non-coal related mining hazard in the Risk Analysis section based on the highest reading found within 50m of the Site boundary.



# Statutory Information

## Discharges

### Discharge Consents

Map ID	Details	Distance	Direction
1	Operator: Mr & Mrs M Ball, Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES), Location: Folly Farm Newstead, Uffington, Stamford, Lincs, Pe9 4te, Authority: Environment Agency, Anglian Region, Catchment Area: Not Supplied, Permit Ref: Pnrlf02727, Permit Version: 1, Effective Date: 8th May 1990, Issued Date: 8th May 1990, Revocation Date: 1st October 1996, Discharge Type: Unknown, Discharge Environment: Onto Land, Receiving Water: Land, Status: Post National Rivers Authority Legislation where issue date > 31/08/1989, Positional Accuracy: Located by supplier to within 100m.	99m	SW
2	Operator: Mr P Breslin, Property Type: Domestic Property (Single), Location: Kimberley Essendine Road, Uffington, Stamford, Lincolnshire, Pe9 4sr, Authority: Environment Agency, Anglian Region, Catchment Area: Ram Dyke / Maxey Cut, Permit Ref: Pmnnf12456, Permit Version: 1, Effective Date: 8th September 2000, Issued Date: 18th June 2000, Revocation Date: Not Supplied, Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company, Discharge Environment: Freshwater Stream/River, Receiving Water: Tributary Of The River Glen, Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995), Positional Accuracy: Located by supplier to within 10m.	132m	SE
3	Operator: Mr T E Story, Property Type: Not Supplied, Location: Office Accommodation At Cobbs Nook Belmsthorpe, Stamford, Lincs, Authority: Environment Agency, Anglian Region, Catchment Area: Not Supplied, Permit Ref: Pr5lf3924, Permit Version: 1, Effective Date: 6th March 1984, Issued Date: 6th March 1984, Revocation Date: 11th September 1997, Discharge Type: Unknown, Discharge Environment: Onto Land, Receiving Water: Land, Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989, Positional Accuracy: Located by supplier to within 10m.	176m	W
4	Operator: Mr Albert Noble, Property Type: Domestic Property (Single), Location: Manderlay Greatford Road, Uffington, Stamford, Lincolnshire, Pe9 4ss, Authority: Environment Agency, Anglian Region, Catchment Area: West Glen River / River Tham, Permit Ref: Eprpp3923kk, Permit Version: 1, Effective Date: 21st December 2011, Issued Date: 21st December 2011, Revocation Date: Not Supplied, Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company, Discharge Environment: Freshwater Stream/River, Receiving Water: Trib Of River Welland, Status: New issued under EPR 2010, Positional Accuracy: Located by supplier to within 10m.	184m	SE
5	Operator: Mr & Mrs D M Laughton, Property Type: Domestic Property (Single), Location: Briardene Newstead Lane, Belmesthorpe, Stamford, Pe9 4jj, Authority: Environment Agency, Anglian Region, Catchment Area: Not Supplied, Permit Ref: Pr5lf5075, Permit Version: 1, Effective Date: 3rd September 1985, Issued Date: 3rd September 1985, Revocation Date: Not Supplied, Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company, Discharge Environment: Freshwater Stream/River, Receiving Water: Ditch, Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989, Positional Accuracy: Located by supplier to within 10m.	205m	W
6	Operator: Mr J Naylor, Property Type: Domestic Property (Single), Location: Grange Farmhouse Plots C-F Grange Farm, Greatford Road, Uffington, Stamford, Pe9 4st, Authority: Environment Agency, Anglian Region, Catchment Area: West Glen River / River Tham, Permit Ref: Pmnnf18637, Permit Version: 1, Effective Date: 30th October 2006, Issued Date: 1st November 2006, Revocation Date: Not Supplied, Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company, Discharge Environment: Freshwater Stream/River, Receiving Water: Unnamed Tributary Of The Westr, Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995), Positional Accuracy: Located by supplier to within 10m.	230m	NE

## Discharge Consents

Map ID	Details	Distance	Direction
7	Operator: Mr J Naylor, Property Type: Domestic Property (Single), Location: Grange Farmhouse Plots C-F Grange Farm, Greatford Road, Uffington, Stamford, Pe9 4st, Authority: Environment Agency, Anglian Region, Catchment Area: West Glen River / River Tham, Permit Ref: Pmnf18638, Permit Version: 1, Effective Date: 30th October 2006, Issued Date: 1st November 2006, Revocation Date: Not Supplied, Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company, Discharge Environment: Freshwater Stream/River, Receiving Water: Unnamed Tributary Of The Westr, Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995), Positional Accuracy: Located by supplier to within 10m.	230m	NE

## Waste

### Waste/Landfill Sites

#### Local Authority Landfill Coverage

South Kesteven District Council - Has supplied landfill data

Lincolnshire County Council - Had landfill data but passed it to the relevant environment agency

Rutland Unitary Council - Has supplied landfill data

Peterborough City Unitary Council - Has supplied landfill data

#### Local Authority Recorded Landfill Sites

Map ID	Details	Distance	Direction
9	Location: Essendine Road, Uffington, Reference: 3, Authority: South Kesteven District Council, Environmental Health, Last Reported Status: Closed, Types of Waste: Dry Domestic, Construction, Waste Subject To Dpw Act, Date of Closure: 1979, Boundary Quality: Moderate, Positional Accuracy: Positioned by the supplier.	On Site	E

#### Historical Landfill Sites

Map ID	Details	Distance	Direction
8	Licence Holder: Not Supplied, Location: Uffington, Lincolnshire, Name: Essendine Road, Operator Location: Not Supplied, Boundary Accuracy: As Supplied, Provider Reference: EAHLD00303, First Input Date: Not Supplied, Last Input Date: Not Supplied, Specified Waste Type: Deposited Waste included Household Waste, EA Waste Ref: 0, Regis Ref: Not Supplied, WRC Ref: Not Supplied, BGS Ref: Not Supplied, Other Ref: RD6-3-01/89, SK-3-01/89, 2500/5337	On Site	E

## Current Land Use

### Other Features

#### Overhead Transmission Lines

Map ID	Details	Distance	Direction
11	Feature location.	On Site	N





## Historical Land Use

### Historical Potentially Contaminative Uses

#### Historical Tanks and Energy Facilities

Map ID	Details	Distance	Direction
1	Tanks, Scale of Mapping: 1:2,500, Date of Mapping: 1975.	On Site	NE
2	Tanks, Scale of Mapping: 1:2,500, Date of Mapping: 1975.	50m	NE

#### Potentially Contaminative Industrial Uses (Past Land Use)

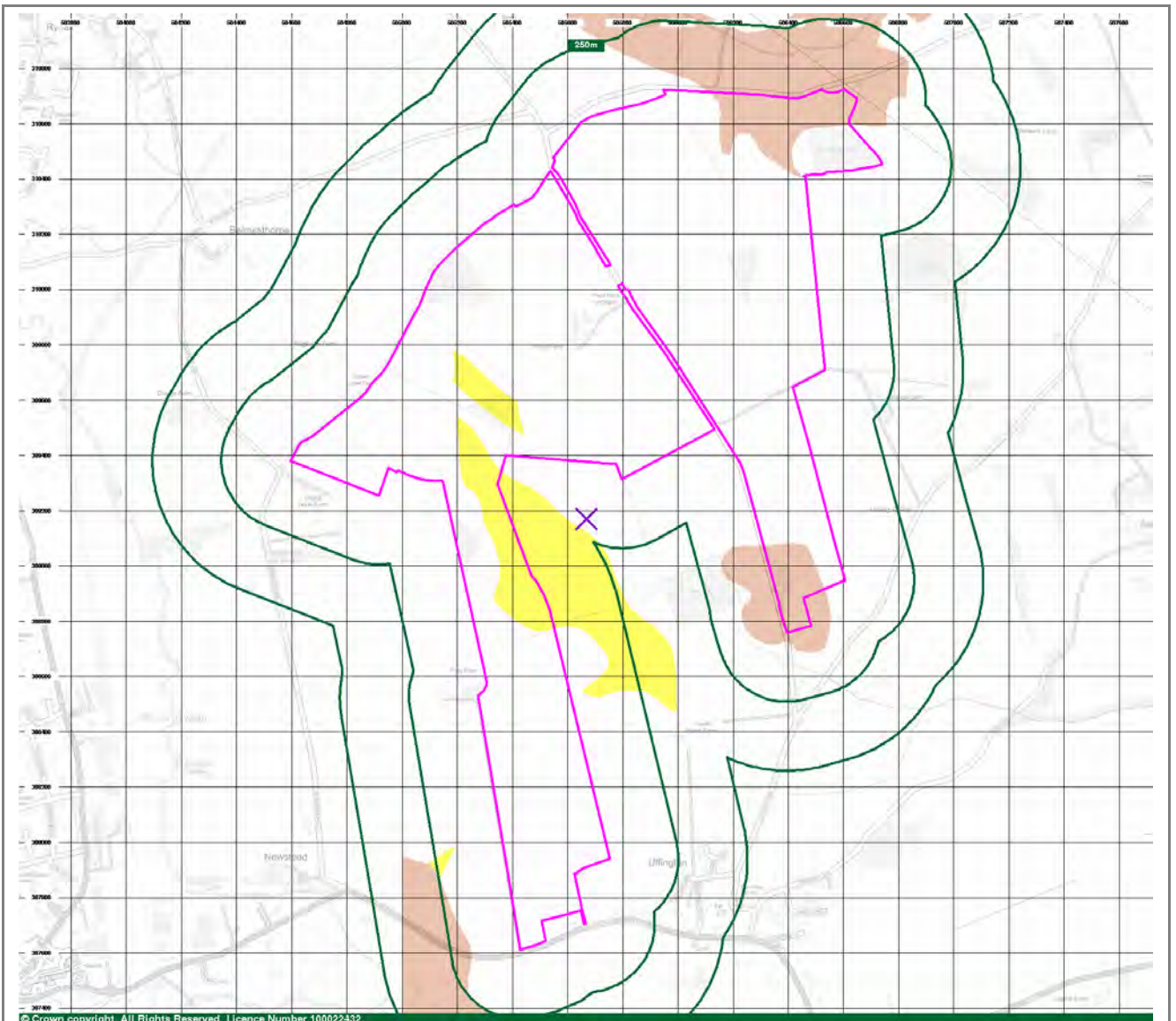
Map ID	Details	Distance	Direction
3	Quarrying of sand & clay, operation of sand & gravel pits, Date of Mapping: 1892.	On Site	NE
4	Quarrying of sand & clay, operation of sand & gravel pits, Date of Mapping: 1932-1958.	On Site	E
5	Quarrying of sand & clay, operation of sand & gravel pits, Date of Mapping: 1891-1958.	On Site	E
6	Quarrying of sand & clay, operation of sand & gravel pits, Date of Mapping: 1932-1958.	14m	SE
7	Railways, Date of Mapping: 1891-1979.	17m	NE
8	Quarrying of sand & clay, operation of sand & gravel pits, Date of Mapping: 1983.	218m	N

### Potentially Infilled Land

#### Potentially Infilled Land (Non-Water)






Map ID	Details	Distance	Direction
10	Unknown Filled Ground (Pit, quarry etc), Date of Mapping: 1979.	On Site	E
9	Unknown Filled Ground (Pit, quarry etc), Date of Mapping: 1983.	On Site	NE
11	Unknown Filled Ground (Pit, quarry etc), Date of Mapping: 1979.	14m	SE

# Aquifer Designation (Superficial)

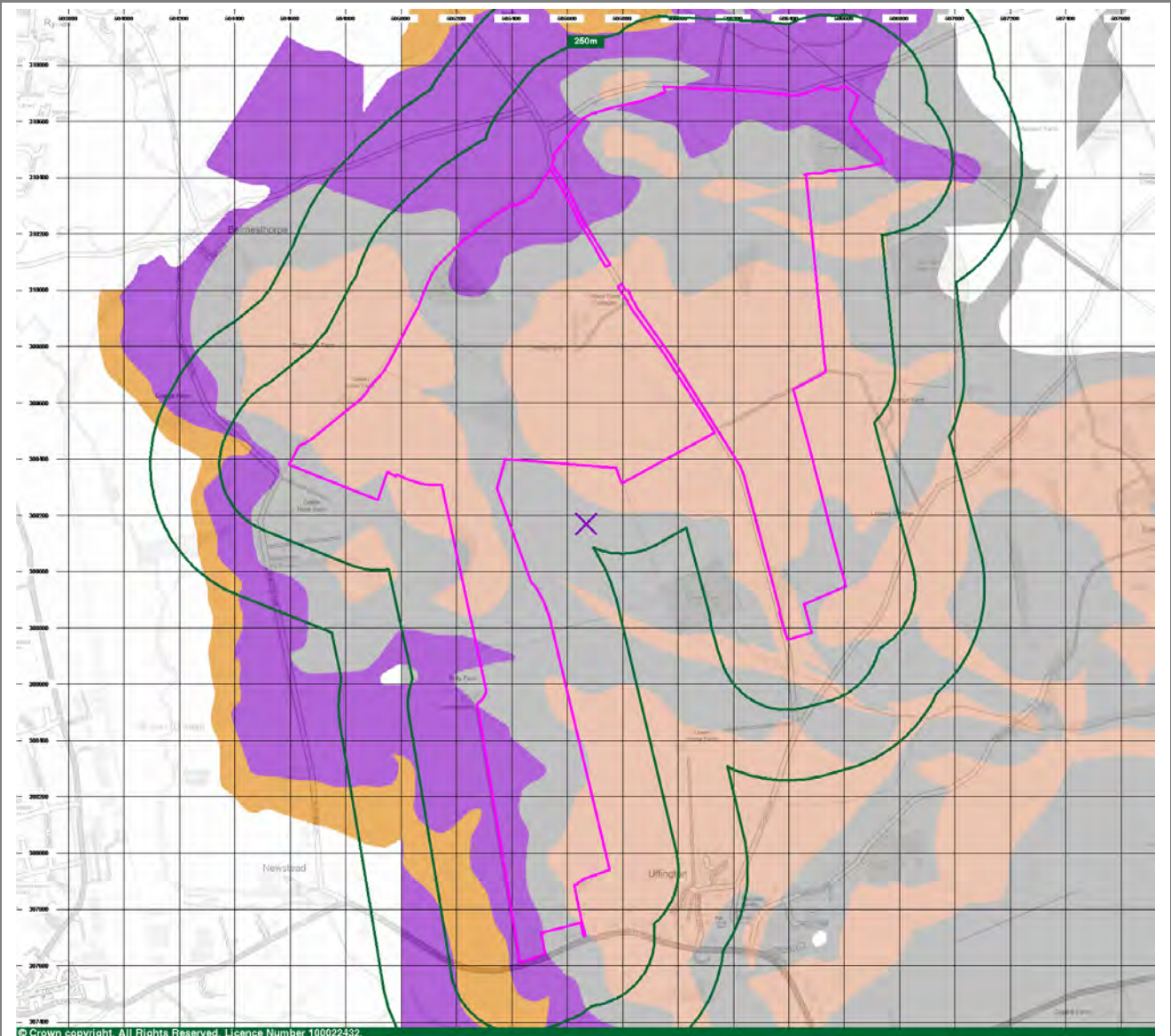


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## Aquifer Designations

-  Site Boundary
-  Search Buffer
-  Bearing Reference Point
-  N
-  Principal Aquifer
-  Secondary A Aquifer
-  Secondary B Aquifer
-  Secondary Undifferentiated
-  Unproductive Strata
-  Unknown

# Aquifer Designation (Bedrock)



## Aquifer Designations

-  Site Boundary
-  Search Buffer
-  Bearing Reference Point
-  N
-  Principal Aquifer
-  Secondary A Aquifer
-  Secondary B Aquifer
-  Secondary Undifferentiated
-  Unproductive Strata
-  Unknown

# Groundwater Vulnerability

## Hydrogeology

### Superficial Aquifer Designations

Map ID	Details	Distance	Direction
	<p>Secondary Aquifer - A</p> <p>These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.</p>	On Site	N
	<p>Secondary Aquifer - Undifferentiated</p> <p>These aquifers have a variable permeability, yielding varying amounts of groundwater at different locations but not capable of supporting water supplies at a more than a local scale.</p>	On Site	SW
	<p>Secondary Aquifer - Undifferentiated</p> <p>These aquifers have a variable permeability, yielding varying amounts of groundwater at different locations but not capable of supporting water supplies at a more than a local scale.</p>	On Site	NW
	<p>Secondary Aquifer - A</p> <p>These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.</p>	On Site	E
	<p>Secondary Aquifer - A</p> <p>These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.</p>	177m	SW
	<p>Secondary Aquifer - Undifferentiated</p> <p>These aquifers have a variable permeability, yielding varying amounts of groundwater at different locations but not capable of supporting water supplies at a more than a local scale.</p>	181m	S

### Bedrock Aquifer Designations

Map ID	Details	Distance	Direction
	<p>Secondary Aquifer - A</p> <p>These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.</p>	On Site	W
	<p>Unproductive Strata</p> <p>The rock layers or drift deposits have a low permeability that have negligible significance for water supply or river base flow.</p>	On Site	N
	<p>Unproductive Strata</p> <p>The rock layers or drift deposits have a low permeability that have negligible significance for water supply or river base flow.</p>	On Site	NE
	<p>Principal Aquifer</p> <p>These aquifers are typically formed of layers of rock or drift deposits that have a high permeability and provide a high level of water storage. They may support water supply and/or base river flow on a strategic scale.</p>	On Site	NW
	<p>Principal Aquifer</p> <p>These aquifers are typically formed of layers of rock or drift deposits that have a high permeability and provide a high level of water storage. They may support water supply and/or base river flow on a strategic scale.</p>	On Site	NW
	<p>Principal Aquifer</p> <p>These aquifers are typically formed of layers of rock or drift deposits that have a high permeability and provide a high level of water storage. They may support water supply and/or base river flow on a strategic scale.</p>	On Site	SW

Unproductive Strata The rock layers or drift deposits have a low permeability that have negligible significance for water supply or river base flow.	On Site	NW
Unproductive Strata The rock layers or drift deposits have a low permeability that have negligible significance for water supply or river base flow.	On Site	-
Unproductive Strata The rock layers or drift deposits have a low permeability that have negligible significance for water supply or river base flow.	On Site	W
Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	On Site	W
Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	On Site	NE
Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	On Site	NE
Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	On Site	N
Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	On Site	N
Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	On Site	N
Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	On Site	NE
Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	6m	E
Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	28m	N
Principal Aquifer These aquifers are typically formed of layers of rock or drift deposits that have a high permeability and provide a high level of water storage. They may support water supply and/or base river flow on a strategic scale.	36m	SW
Secondary Aquifer - B These aquifers are formed of predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable layers and weathering.	37m	SW

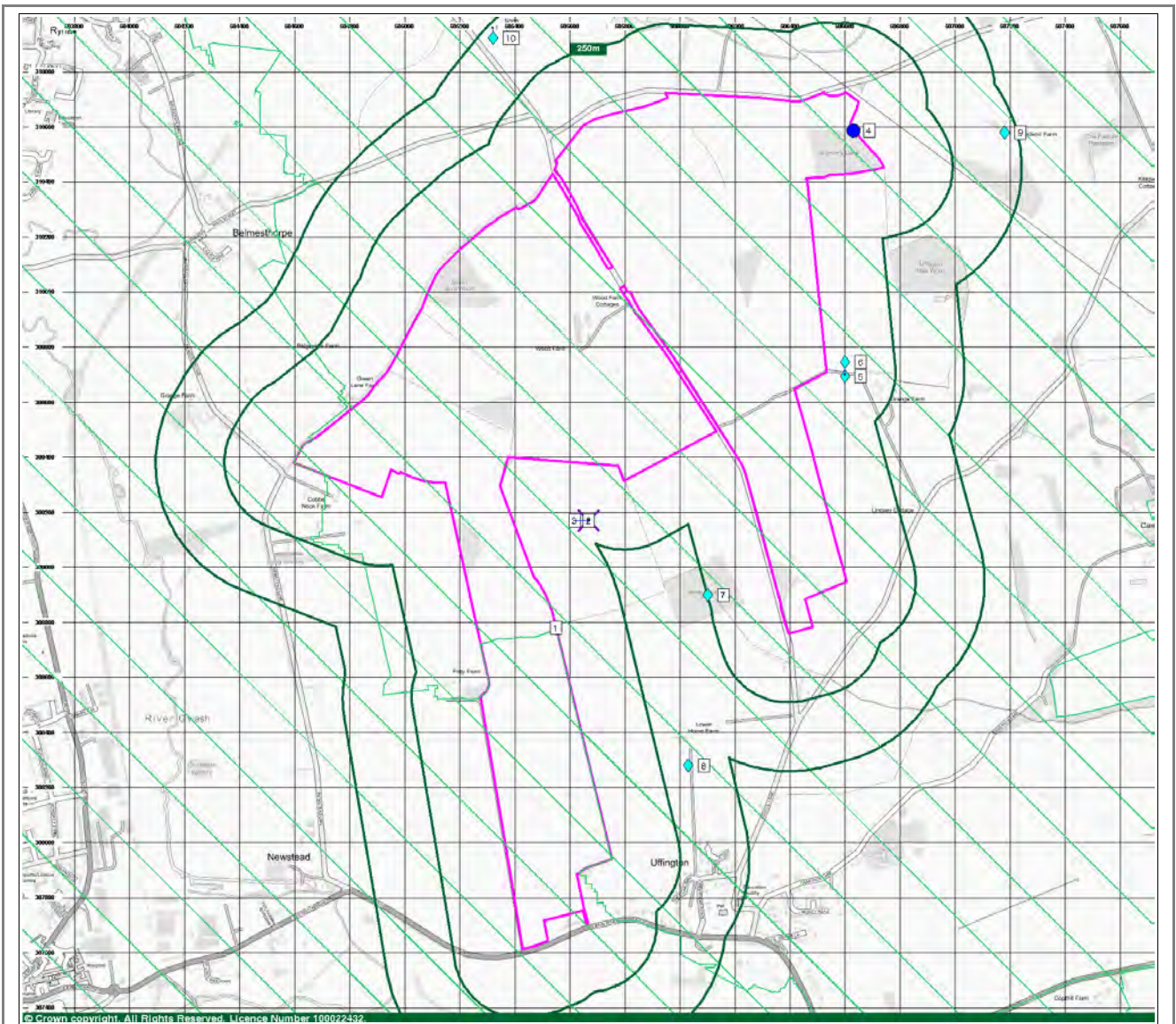
Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	56m	NW
Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	80m	NW
Secondary Aquifer - A These aquifers are formed of moderately permeable layers capable of supporting water supplies at a local scale, and in some cases forming an important source of base flow to rivers.	100m	W
Unproductive Strata The rock layers or drift deposits have a low permeability that have negligible significance for water supply or river base flow.	117m	NW
Secondary Aquifer - B These aquifers are formed of predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable layers and weathering.	148m	SW
Secondary Aquifer - B These aquifers are formed of predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable layers and weathering.	204m	N
Principal Aquifer These aquifers are typically formed of layers of rock or drift deposits that have a high permeability and provide a high level of water storage. They may support water supply and/or base river flow on a strategic scale.	225m	NW
Unproductive Strata The rock layers or drift deposits have a low permeability that have negligible significance for water supply or river base flow.	228m	SW
Principal Aquifer These aquifers are typically formed of layers of rock or drift deposits that have a high permeability and provide a high level of water storage. They may support water supply and/or base river flow on a strategic scale.	236m	SW

## Geology

### BGS 1:625,000 Solid Geology

Map ID	Details	Distance	Direction
	Kellaways Formation And Oxford Clay Formation (Undifferentiated).	On Site	E
	Great Oolite Group.	On Site	-

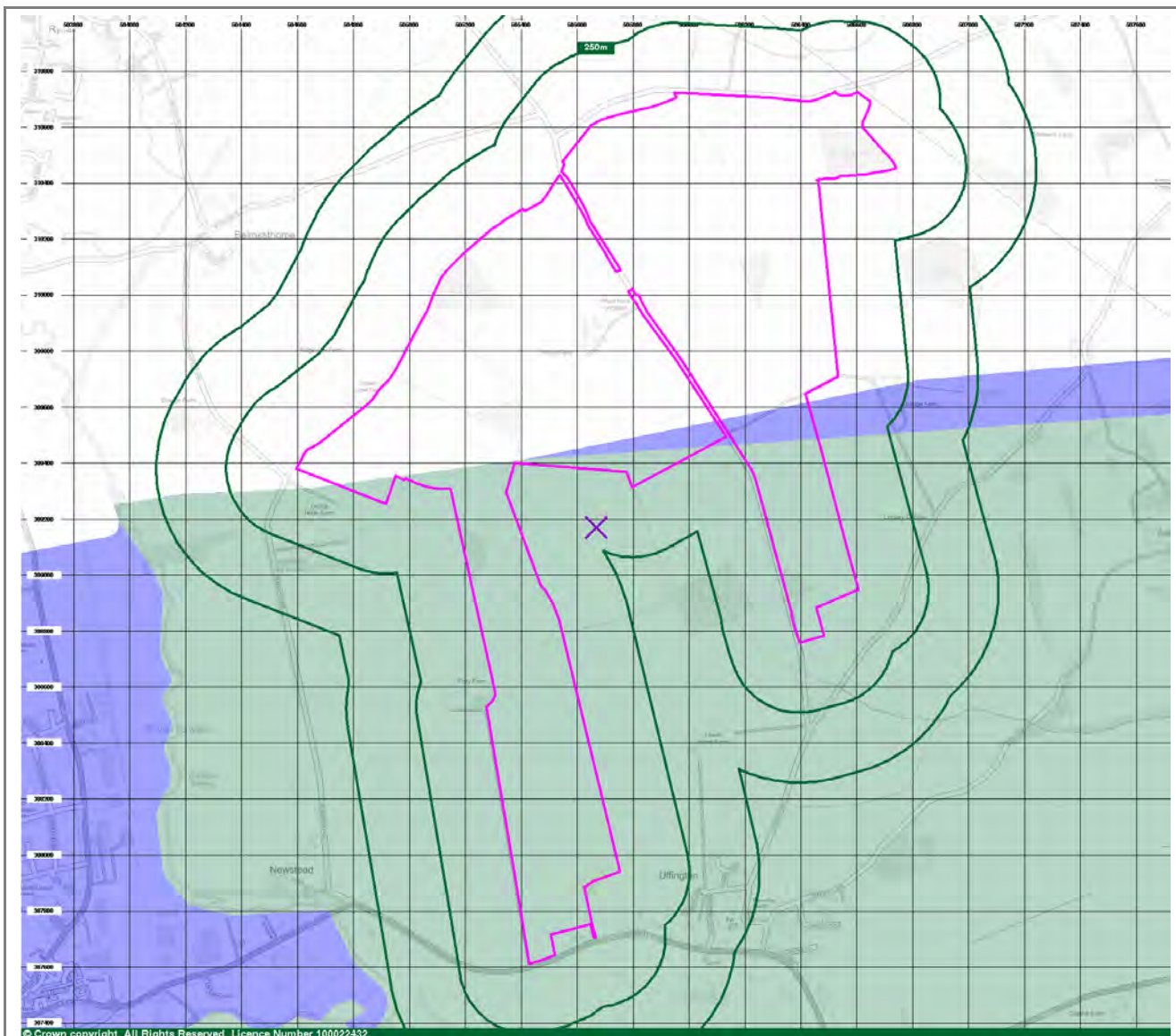
# Sensitive Land Uses



## Sensitive Land Uses

- |                                    |                         |                                     |
|------------------------------------|-------------------------|-------------------------------------|
| Site Boundary                      | Local Nature Reserve    | Ramsar Site                         |
| Search Buffer                      | Marine Nature Reserve   | Nearest Surface Water Feature       |
| Bearing Reference Point            | National Nature Reserve | Site of Special Scientific Interest |
| N                                  | National Park           | Special Area of Conservation        |
| Area of Outstanding Natural Beauty | National Scenic Area    | Special Protection Area             |
| Environmentally Sensitive Area     | Nitrate Sensitive Area  | Water Abstraction                   |
| Forest Park                        | Nitrate Vulnerable Zone | Historical Flood Liability          |

# Source Protection Zones



## Source Protection Zones

- |                         |   |  |
|-------------------------|---|--|
| Site Boundary           | Inner zone (Zone 1)                             | Total catchment (Zone 3)                             |
| Search Buffer           | Inner zone - subsurface activity only (Zone 1c) | Total catchment - subsurface activity only (Zone 3c) |
| Bearing Reference Point | Outer zone (Zone 2)                             | Special interest (Zone 4)                            |
| N                       | Outer zone - subsurface activity only (Zone 2c) |  |



# Environmentally Sensitive Features

## Nitrate Vulnerable Zones

Map ID	Details	Distance	Direction
1	Name: River Welland Nvz, Description: Surface Water, Source: Environment Agency, Head Office.	On Site	S
2	Name: Lincolnshire Limestone, Description: Groundwater, Source: Environment Agency, Head Office.	On Site	-
3	Name: Glen Nvz, Description: Surface Water, Source: Environment Agency, Head Office.	On Site	-

## Nearest Surface Water Feature

Map ID	Details	Distance	Direction
4	Surface water feature identified in proximity.	On Site	NE

## Water Abstractions

Map ID	Details	Distance	Direction
5	Operator: J C H Tufts Esq, Licence Number: 7/34/13/*s/199, Permit Version: Not Supplied, Location: Reservoir Near Hill Farm, Welbourne, RUNHALL, Authority: Environment Agency, Anglian Region, Abstraction: Frost Protection, Abstraction Type: Not Supplied, Source: Stream, Daily Rate(m <sup>3</sup> ): 19, Yearly Rate (m <sup>3</sup> ): 1250000, Status: Revoked, Authorised Start: Not Supplied, Authorised End: Not Supplied, Permit Start Date: Not Supplied, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 100m.	68m	NE
6	Operator: J C H Tufts Esq, Licence Number: 7/34/13/*s/199, Permit Version: Not Supplied, Location: Reservoir Near Hill Farm, Welbourne, RUNHALL, Authority: Environment Agency, Anglian Region, Abstraction: Spray Irrigation, Abstraction Type: Not Supplied, Source: Stream, Daily Rate(m <sup>3</sup> ): 19, Yearly Rate (m <sup>3</sup> ): 1250000, Status: Revoked, Authorised Start: Not Supplied, Authorised End: Not Supplied, Permit Start Date: Not Supplied, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 100m.	68m	NE
7	Operator: H. Hirst, Licence Number: 5/31/11/*g/012b, Permit Version: Not Supplied, Location: Catchpit At, UFFINGTON, Authority: Environment Agency, Anglian Region, Abstraction: Spray Irrigation, Abstraction Type: Not Supplied, Source: Catchpit, Catchment Tank or Collecting Tank, Daily Rate(m <sup>3</sup> ): 1, Yearly Rate (m <sup>3</sup> ): 6360, Status: Revoked, Authorised Start: Not Supplied, Authorised End: Not Supplied, Permit Start Date: Not Supplied, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 10m.	249m	SE
	Operator: Mr H E Parkinson, Licence Number: 5/31/11/*s/023, Permit Version: Not Supplied, Location: River Glen, Broadholme Farm , Authority: Environment Agency, Anglian Region, Abstraction: Spray Irrigation, Abstraction Type: Not Supplied, Source: Stream, Daily Rate(m <sup>3</sup> ): 4, Yearly Rate (m <sup>3</sup> ): 750000, Status: Perpetuity, Authorised Start: Not Supplied, Authorised End: Not Supplied, Permit Start Date: Not Supplied, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 10m.	281m	N
8	Operator: Henry Hirst Farms, Licence Number: 5/31/11/*G/0012a, Permit Version: 100, Location: Borehole At Uffington, Authority: Environment Agency, Anglian Region, Abstraction: General Agriculture: Spray Irrigation - Direct, Abstraction Type: Water may be abstracted from a single point, Source: Groundwater, Daily Rate(m <sup>3</sup> ): Not Supplied, Yearly Rate (m <sup>3</sup> ): Not Supplied, Miscellaneous Jurassic; Status: Perpetuity, Authorised Start: 01 May, Authorised End: 30 September, Permit Start Date: 1st March 1995, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 10m.	351m	S
	Operator: C E P Potatoes Ltd, Licence Number: 5/31/13/*S/0082, Permit Version: 100, Location: River Welland At Barnack, Authority: Environment Agency, Anglian Region, Abstraction: General Agriculture: Spray Irrigation - Direct, Abstraction Type: Water may be abstracted from a single point, Source: Surface, Daily Rate(m <sup>3</sup> ): Not Supplied, Yearly Rate (m <sup>3</sup> ): Not Supplied, Status: Temporary, Authorised Start: 01 May, Authorised End: 30 September, Permit Start Date: 1st December 1994, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 10m.	419m	S

## Water Abstractions

Map ID	Details	Distance	Direction
	Operator: C E P Potatoes Ltd, Licence Number: 5/31/13/**/071, Permit Version: Not Supplied, Location: Gravel Pits At, BARNACK, Authority: Environment Agency, Anglian Region, Abstraction: Spray Irrigation, Abstraction Type: Not Supplied, Source: Stream, Daily Rate(m <sup>3</sup> ): 20, Yearly Rate (m <sup>3</sup> ): 500000, Status: Revoked, Authorised Start: Not Supplied, Authorised End: Not Supplied, Permit Start Date: Not Supplied, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 10m.	424m	S
9	Operator: J O Flint, Licence Number: 5/31/11/*G/0036, Permit Version: 100, Location: Bore Or Well At Maidens' Farm, Authority: Environment Agency, Anglian Region, Abstraction: General Farming And Domestic, Abstraction Type: Water may be abstracted from a single point, Source: Groundwater, Daily Rate(m <sup>3</sup> ): Not Supplied, Yearly Rate (m <sup>3</sup> ): Not Supplied, Northampton Sanstone; Status: Perpetuity, Authorised Start: 01 January, Authorised End: 31 December, Permit Start Date: 1st January 1966, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 100m.	457m	NE
10	Operator: H E Parkinson, Licence Number: 5/31/11/*G/0024, Permit Version: 100, Location: Bore, Essendine, N Lodge Farm, Authority: Environment Agency, Anglian Region, Abstraction: General Farming And Domestic, Abstraction Type: Water may be abstracted from a single point, Source: Groundwater, Daily Rate(m <sup>3</sup> ): Not Supplied, Yearly Rate (m <sup>3</sup> ): Not Supplied, South Lincolnshire Limestone; Status: Perpetuity, Authorised Start: 01 January, Authorised End: 31 December, Permit Start Date: 1st April 1986, Permit End Date: Not Supplied, Positional Accuracy: Located by supplier to within 10m.	483m	N

## Source Protection Zones

Map ID	Details	Distance	Direction
	Name: , Source: Environment Agency, Head Office, Reference: Not Supplied, Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	On Site	-
	Name: , Source: Environment Agency, Head Office, Reference: Not Supplied, Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	On Site	-
	Name: , Source: Environment Agency, Head Office, Reference: Not Supplied, Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	On Site	S

## Natural and Mining Related Hazards

### Subsidence

#### Collapsible Ground Stability Hazards

Details	Distance	Direction
Risk: Very Low, Source: British Geological Survey, National Geoscience Information Service.	On Site	-

#### Compressible Ground Stability Hazards

Details	Distance	Direction
Risk: Moderate, Source: British Geological Survey, National Geoscience Information Service.	On Site	N

#### Ground Dissolution Stability Hazards

Details	Distance	Direction
Risk: Low, Source: British Geological Survey, National Geoscience Information Service.	On Site	N
Risk: Low, Source: British Geological Survey, National Geoscience Information Service.	49m	S

## Landslide Ground Stability Hazards

Details	Distance	Direction
Risk: Very Low, Source: British Geological Survey, National Geoscience Information Service.	On Site	N

## Running Sand Ground Stability Hazards

Details	Distance	Direction
Risk: Low, Source: British Geological Survey, National Geoscience Information Service.	On Site	NE
Risk: Low, Source: British Geological Survey, National Geoscience Information Service.	6m	E

## Shrinking or Swelling Clay Subsidence Hazards

Details	Distance	Direction
Risk: Moderate, Source: British Geological Survey, National Geoscience Information Service.	On Site	N
Risk: Very Low, Source: British Geological Survey, National Geoscience Information Service.	49m	S

## Radon

### Radon Potential

Details	Distance	Direction
The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level)., Source: British Geological Survey, National Geoscience Information Service.	On Site	NE

### Radon Protective Measures

Details	Distance	Direction
None, Source: British Geological Survey, National Geoscience Information Service.	On Site	NE

## Mining

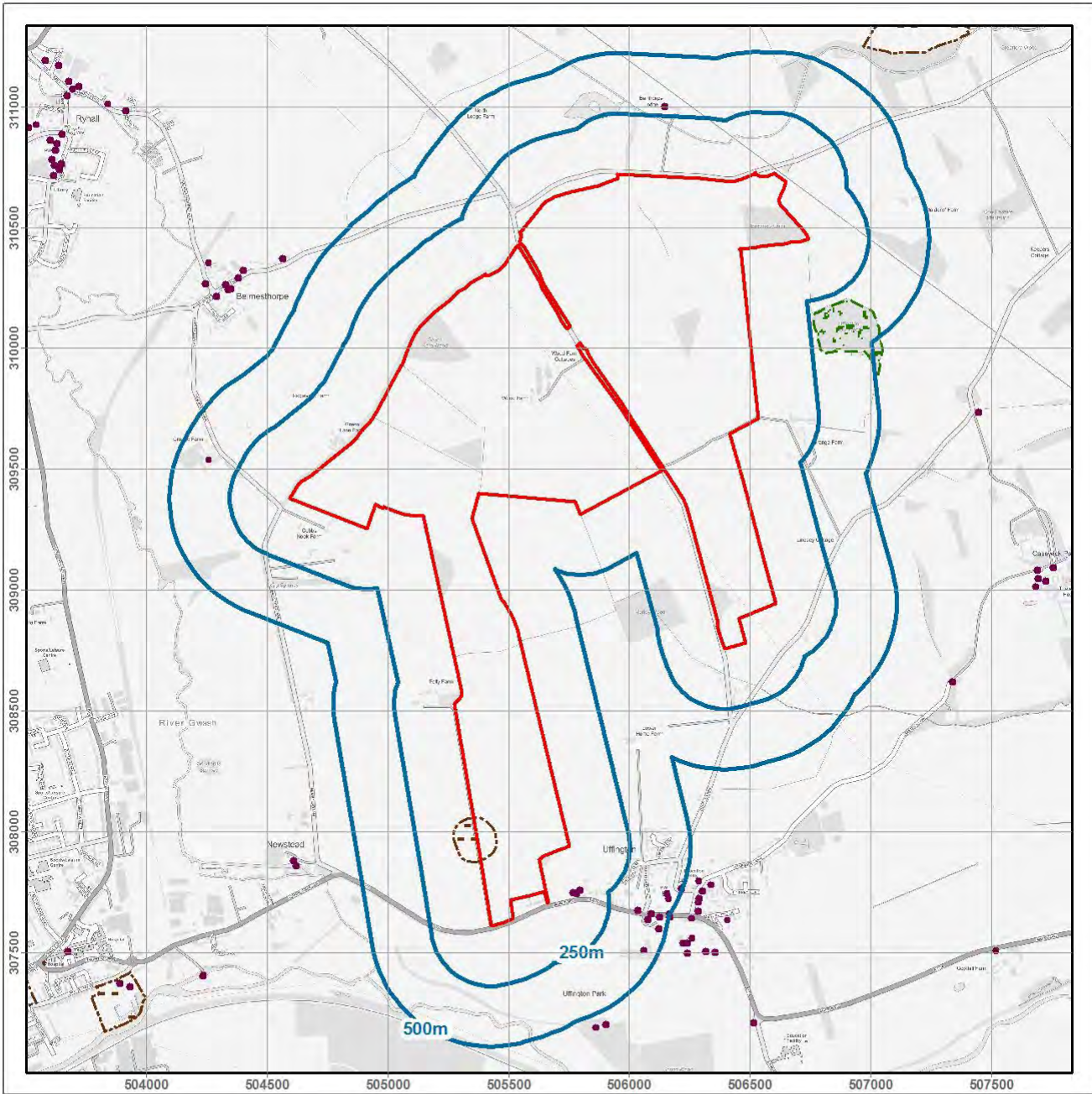
### Natural and Mining Cavities

Details	Distance	Direction
Cavity Type: Gulls/Fissures due to Cambering x 4, Origin: , Cavity Number: , Commodity: , Positional Accuracy: .	129m	SW







### BGS Recorded Mineral Sites

Map ID	Details	Distance	Direction
10	Site Name: Uffington Gravel Pit, Site Location: Uffington, Stamford, Lincolnshire, Source: British Geological Survey, National Geoscience Information Service, Reference: 136322, Type: Opencast, Status: Ceased, Operator: Unknown Operator, Operator Location: Not Supplied, Periodic Type: Quaternary, Geology: Glaciofluvial Deposits, Mid Pleistocene, Commodity: Sand and Gravel, Positional Accuracy: Located by supplier to within 10m.	On Site	SE

# Farm Specific Issues



## Archaeological Sites of Interest

-  Client Site
-  Listed Buildings
-  Historic Battlefields
-  World Heritage Sites
-  Historic Landscapes
-  Scheduled Monuments
-  Ancient Woodlands

metres  
0500 0200  


\* - Not all features in legend may be present in above map

Nominal scale at A4 paper size - 1:26,250

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# Farm Specific Issues

## Listed Buildings

Details	Distance	Direction
List Entry: 1062586, Name: OLD BAKEHOUSE AND STORE TO WEST HALL FARM, Grade: II, List Date: 22/06/1987, Amend Date: , NGR: TF 05766 07748, Capture Scale: 1:2500, Easting: 505766, Northing: 307748, Area (hectares): 0	105.3m	E
List Entry: 1360224, Name: WEST HALL FARMHOUSE, Grade: II, List Date: 30/10/1968, Amend Date: , NGR: TF 05780 07743, Capture Scale: 1:2500, Easting: 505780, Northing: 307743, Area (hectares): 0	117.4m	E
List Entry: 1062585, Name: BARN AT WEST HALL FARM, Grade: II, List Date: 30/10/1968, Amend Date: , NGR: TF 05794 07758, Capture Scale: 1:2500, Easting: 505794, Northing: 307758, Area (hectares): 0	134.9m	E
List Entry: 1164869, Name: BANTHORPE LODGE, Grade: II, List Date: 22/06/1987, Amend Date: , NGR: TF 06147 11002, Capture Scale: 1:2500, Easting: 506147, Northing: 311002, Area (hectares): 0	287.5m	N
List Entry: 1062587, Name: AYTON HOUSE AND HOME FARMHOUSE, Grade: II, List Date: 30/10/1968, Amend Date: 22/06/1987, NGR: TF 06036 07676, Capture Scale: 1:2500, Easting: 506036, Northing: 307676, Area (hectares): 0	369.6m	E
List Entry: 1320351, Name: BELMESTHORPE GRANGE, Grade: II, List Date: 17/12/1984, Amend Date: , NGR: TF 04257 09540, Capture Scale: 1:2500, Easting: 504257, Northing: 309540, Area (hectares): 0	371.7m	NW
List Entry: 1062592, Name: GARDEN LODGE COTTAGE, Grade: II, List Date: 22/06/1987, Amend Date: , NGR: TF 06078 07636, Capture Scale: 1:2500, Easting: 506078, Northing: 307636, Area (hectares): 0	416.3m	E
List Entry: 1062588, Name: THE OLD POST OFFICE AND POLLYS COTTAGE, Grade: II, List Date: 06/09/1974, Amend Date: 22/06/1987, NGR: TF 06090 07662, Capture Scale: 1:2500, Easting: 506090, Northing: 307662, Area (hectares): 0	424.7m	E
List Entry: 1360225, Name: PEDESTRIAN GARDEN GATEWAY TO DEMOLISHED UFFINGTON HOUSE, Grade: II, List Date: 22/06/1987, Amend Date: , NGR: TF 06058 07510, Capture Scale: 1:2500, Easting: 506058, Northing: 307510, Area (hectares): 0	436.8m	SE
List Entry: 1062590, Name: CHURCH OF ST MICHAEL AND ALL ANGELS, Grade: I, List Date: 30/10/1968, Amend Date: , NGR: TF 06155 07743, Capture Scale: 1:2500, Easting: 506155, Northing: 307743, Area (hectares): 0	446.5m	SE
List Entry: 1062591, Name: TOMB TO SOUTH OF CHURCH OF ST. MICHAEL AND ALL ANGELS, Grade: II, List Date: 22/06/1987, Amend Date: , NGR: TF 06162 07725, Capture Scale: 1:2500, Easting: 506162, Northing: 307725, Area (hectares): 0	460.8m	SE
List Entry: 1062593, Name: MILEPOST IN CENTRE OF VILLAGE, Grade: II, List Date: 22/06/1987, Amend Date: , NGR: TF 06125 07647, Capture Scale: 1:2500, Easting: 506125, Northing: 307647, Area (hectares): 0	460.9m	E
List Entry: 1317188, Name: UFFINGTON HOUSE RESTAURANT, Grade: II, List Date: 22/06/1987, Amend Date: , NGR: TF 06122 07597, Capture Scale: 1:2500, Easting: 506122, Northing: 307597, Area (hectares): 0	467.3m	E
List Entry: 1165754, Name: OLD SCHOOL AND SCHOOL HOUSE, Grade: II, List Date: 22/06/1987, Amend Date: , NGR: TF 06217 07766, Capture Scale: 1:2500, Easting: 506217, Northing: 307766, Area (hectares): 0	494.5m	E
List Entry: 1062589, Name: GATES PIERS AND WALLS TO CHURCHYARD, Grade: II*, List Date: 30/10/1968, Amend Date: 22/06/1987, NGR: TF 06165 07660, Capture Scale: 1:2500, Easting: 506165, Northing: 307660, Area (hectares): 0	496.9m	SE

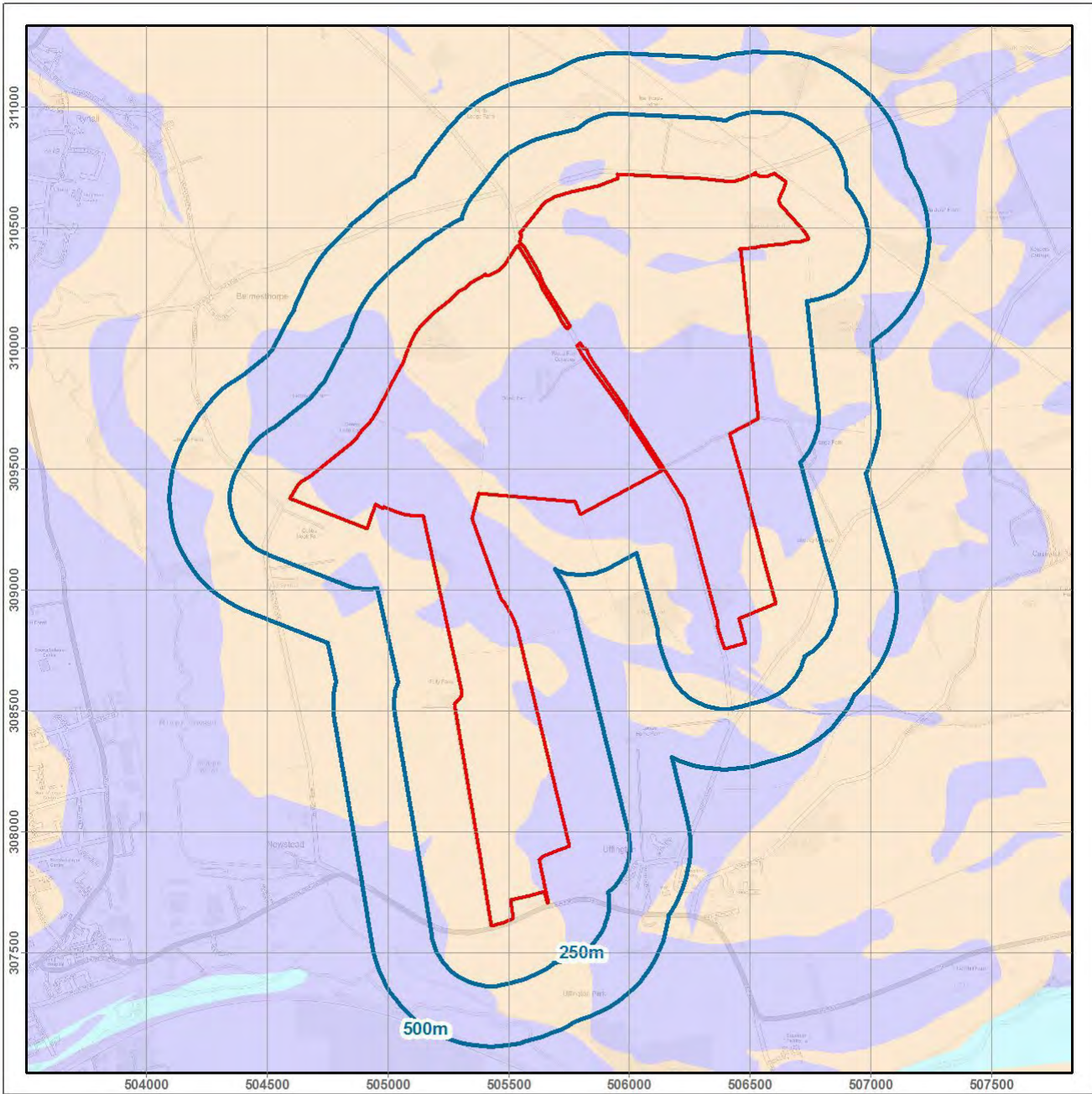
## Scheduled Monuments

Details	Distance	Direction
List Entry: 1004938, Name: Causewayed camp, Schedule Date: , Amend Date: , NGR: TF 05361 07967, Capture Scale: 1:10000, Easting: 505360.761635, Northing: 307968.244078, Area (hectares): 2.554	On Site	-

## Ancient Woodland

Details	Distance	Direction
, Name: UFFINGTON NEW WOOD, Area (hectares): 5.18	264.9m	E

# BGS Soil Chemistry – Arsenic



## Soil Chemistry - Arsenic



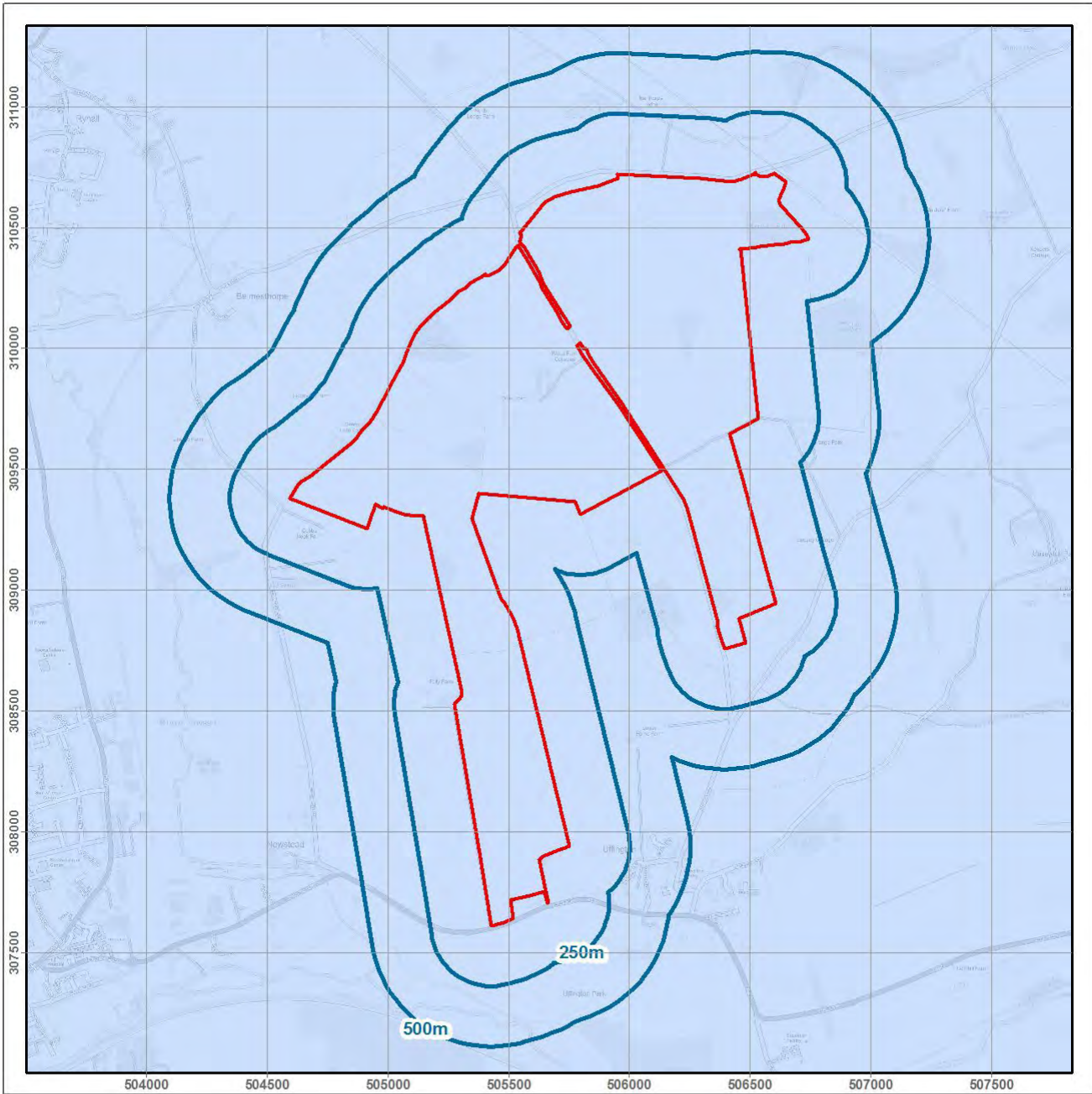
metres  
05000200

\* - Not all features in legend may be present in above map

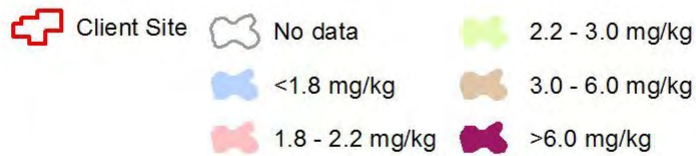
Nominal scale at A4 paper size - 1:26,250

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# BGS Soil Chemistry – Cadmium



## Soil Chemistry - Cadmium



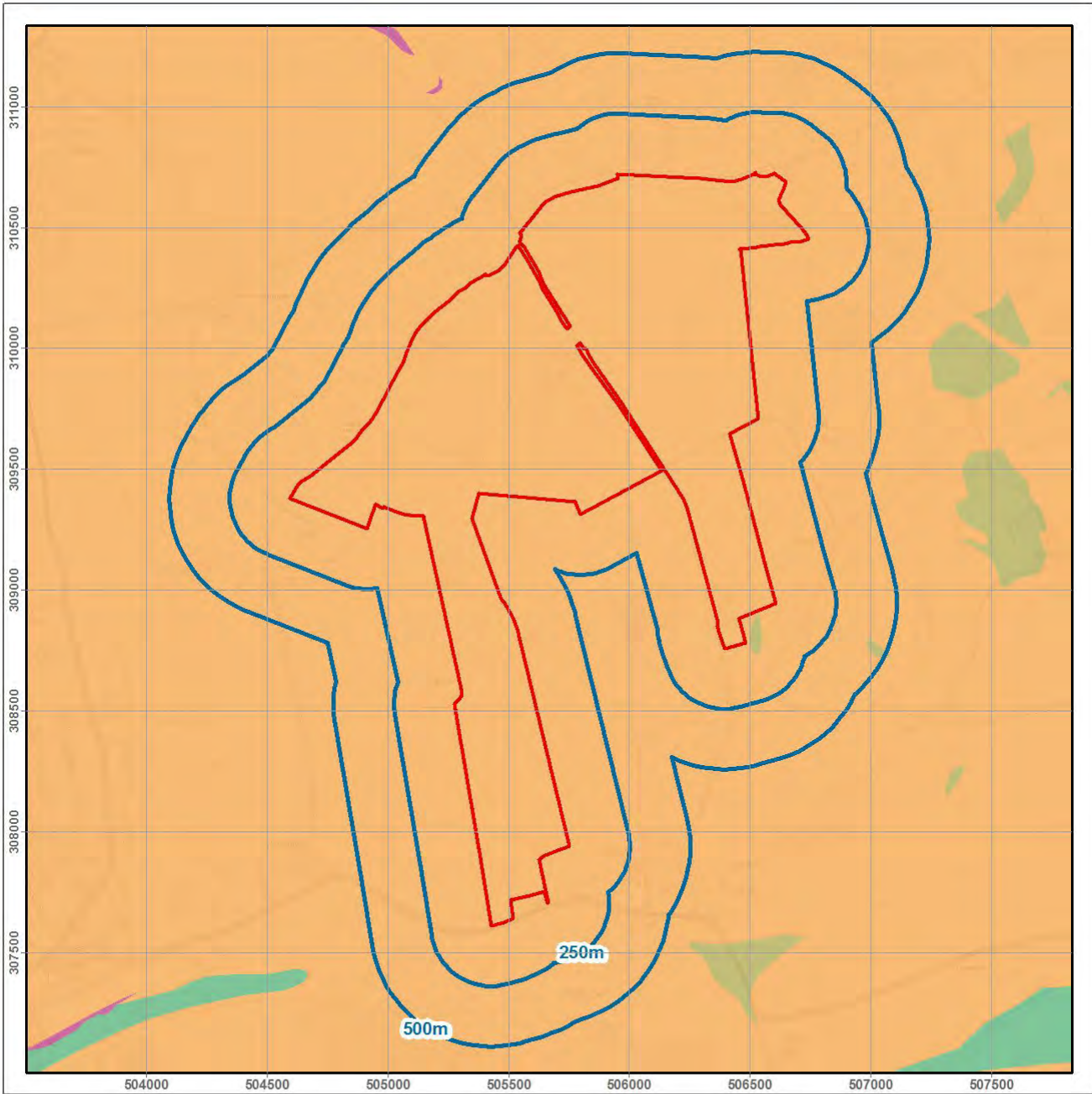
metres  
05000200  


\* - Not all features in legend may be present in above map

Nominal scale at A4 paper size - 1:26,250

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# BGS Soil Chemistry – Chromium



## Soil Chemistry - Chromium

- |   |   |   |
|---|---|---|
|  Client Site   |  No data         |  60 - 90 mg/kg |
|  <20 mg/kg     |  90 - 120 mg/kg  |   |
|  20 - 40 mg/kg |  120 - 180 mg/kg |   |
|  40 - 60 mg/kg |  >180 mg/kg      |   |

metres  
05000200  

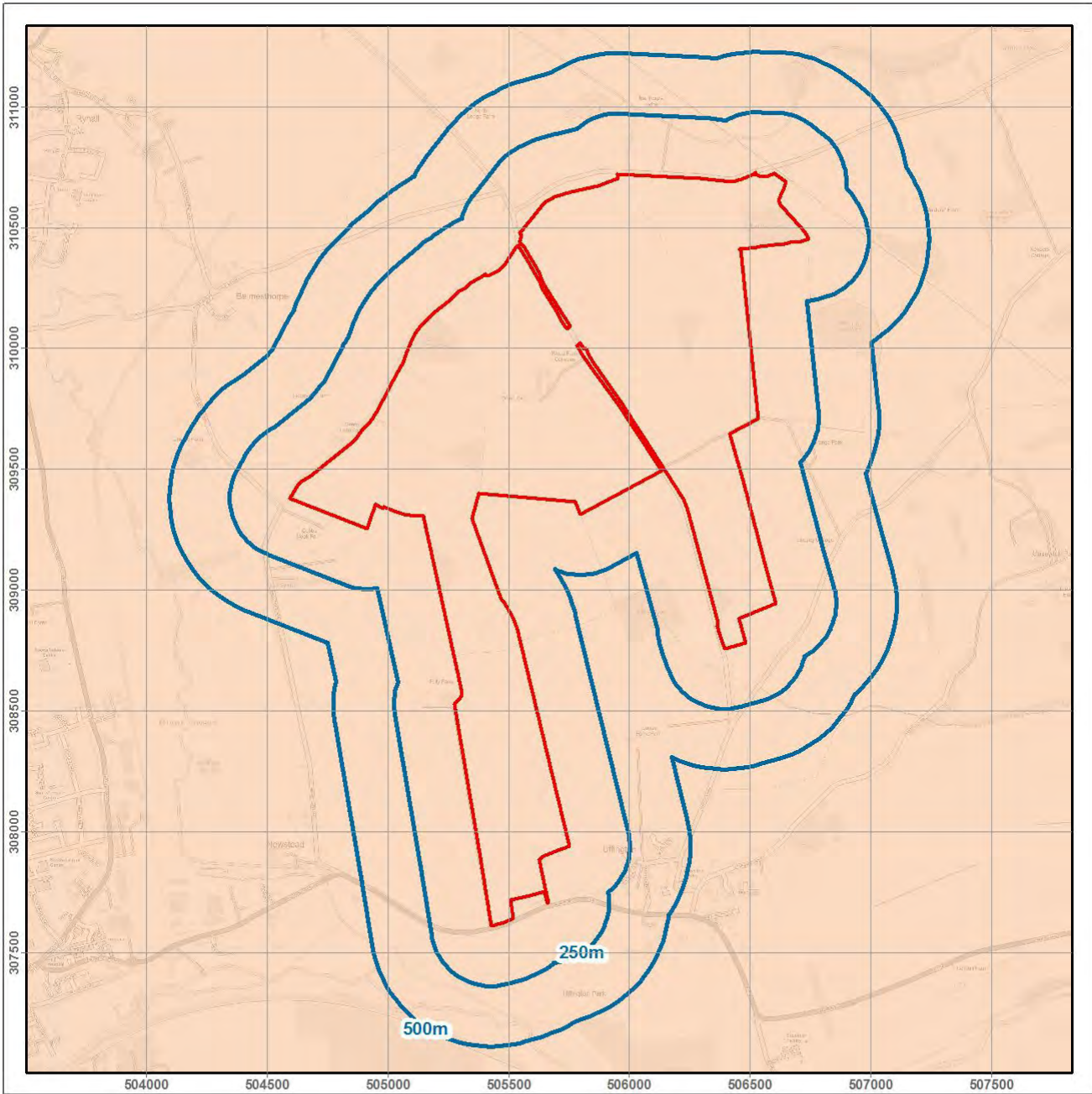

\* - Not all features in legend may be present in above map

Nominal scale at A4 paper size - 1:26,250

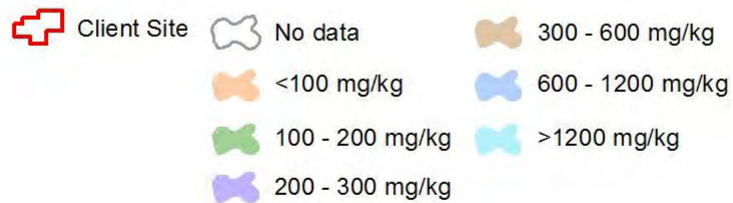
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# BGS Soil Chemistry – Lead



## Soil Chemistry - Lead



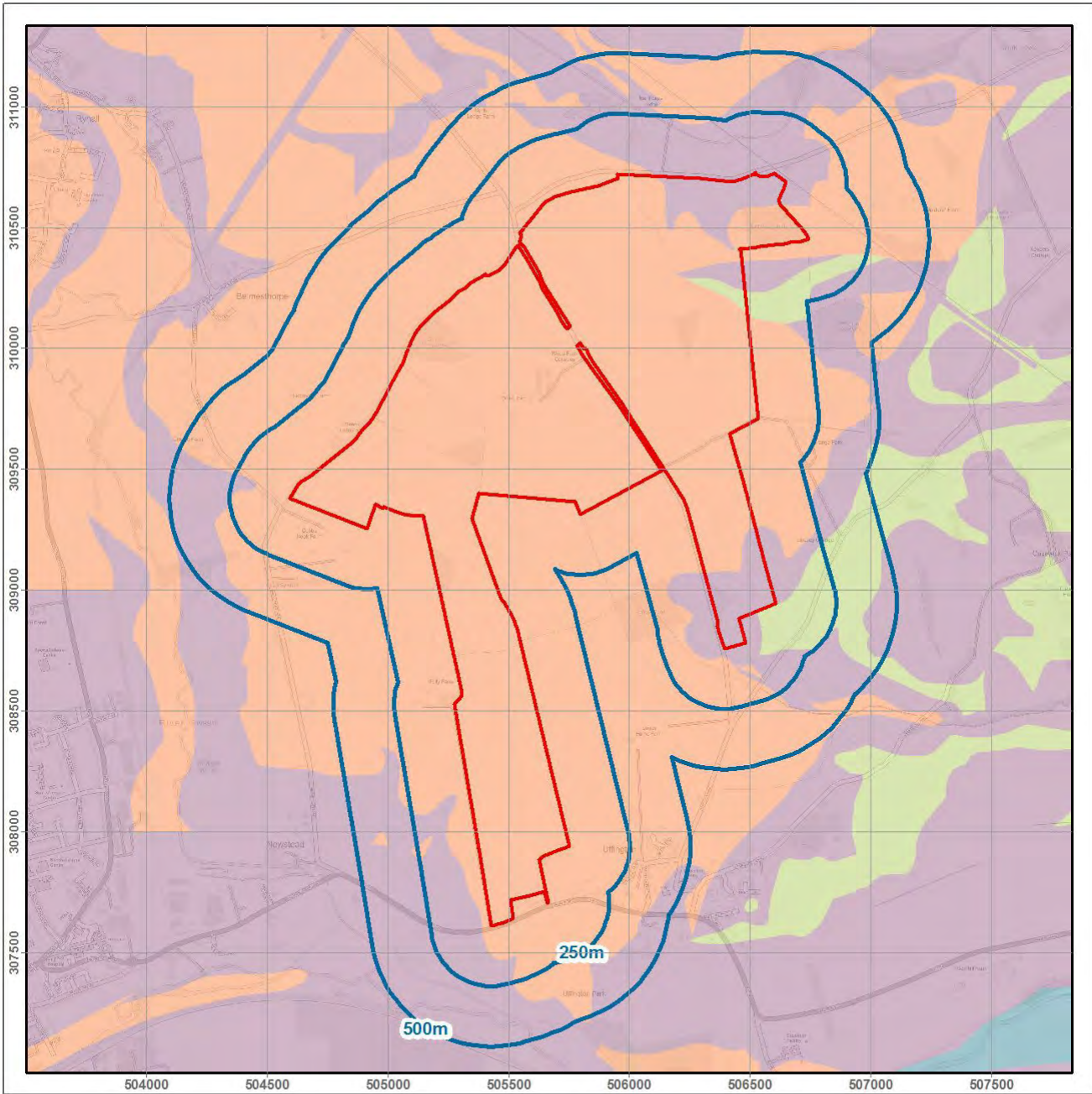
metres  
05000200  


\* - Not all features in legend may be present in above map

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# BGS Soil Chemistry – Nickel



## Soil Chemistry - Nickel



metres  
05000200  


\* - Not all features in legend may be present in above map

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# Soil Chemistry

## BGS Soil Chemistry Arsenic

Map ID	Details	Distance	Direction
	Sample Type: RuralSoil, Proportion: 15 - 25 mg/kg	On Site	-
	Sample Type: RuralSoil, Proportion: <15 mg/kg	On Site	-

## BGS Soil Chemistry Cadmium

Map ID	Details	Distance	Direction
	Sample Type: RuralSoil, Proportion: <1.8 mg/kg	On Site	-

## BGS Soil Chemistry Chromium

Map ID	Details	Distance	Direction
	Sample Type: RuralSoil, Proportion: 60 - 90 mg/kg	On Site	-
	Sample Type: RuralSoil, Proportion: 40 - 60 mg/kg	11.1m	S

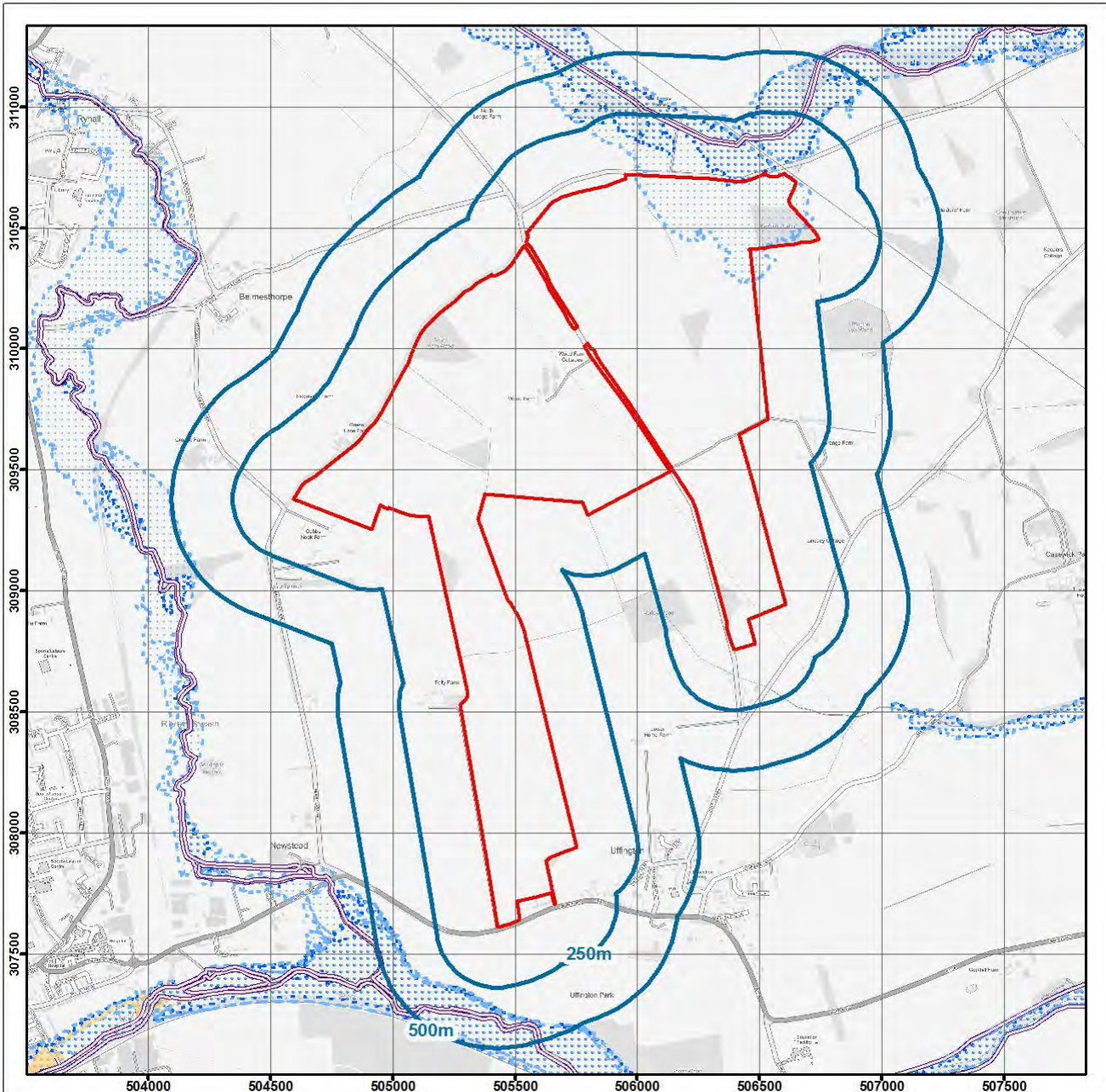
## BGS Soil Chemistry Lead

Map ID	Details	Distance	Direction
	Sample Type: RuralSoil, Proportion: <100 mg/kg	On Site	-

## BGS Soil Chemistry Nickel

Map ID	Details	Distance	Direction
	Sample Type: RuralSoil, Proportion: 15 - 30 mg/kg	On Site	-
	Sample Type: RuralSoil, Proportion: 30 - 45 mg/kg	On Site	-
	Sample Type: RuralSoil, Proportion: <15 mg/kg	On Site	-

# Flooding from Rivers or Sea



## Environment Agency

-  Client Site
-  Defended Areas
-  Flood Defences
-  Flood Zone 2
-  Flood Storage
-  Flood Zone 3

meters  
0500 0200  


\* - Not all features in legend may be present in above map

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# Flooding from Rivers or Sea

## Flooding from River or Sea (Flood Zone 3)

Map ID	Details	Distance	Reply or Direction
	Are there any indicative flood plains within 500m?	<501m	YES
	Type: Fluvial Models, Source: Environment Agency, Head Office, Boundary Accuracy: As Supplied.	On Site	-

## Flooding from River or Sea in an Extreme Event (Flood Zone 2)

Map ID	Details	Distance	Reply or Direction
	Are there any indicative flood plains (extreme events) within 500m?	<501m	YES
	Type: Fluvial Models, Source: Environment Agency, Head Office, Boundary Accuracy: As Supplied.	On Site	-
	Type: Fluvial Models and Fluvial Events, Source: Environment Agency, Head Office, Boundary Accuracy: As Supplied.	311.0m	SW
	Type: Fluvial Events, Source: Environment Agency, Head Office, Boundary Accuracy: As Supplied.	391.9m	S



The Site is at a low risk of flooding from rivers or the sea, as defined by the regulatory body's Flood Map. If the Site area is greater than one hectare, any planning application for development would need to be accompanied by a Flood Risk Assessment in accordance with NPPF.

## Areas Benefiting from Flood Defences

Map ID	Details	Distance	Reply or Direction
	Does the Site or any areas within 500m benefit from flood defences?	<501m	NO



The Site is over 500m from an Area Benefiting from a Flood Defence, as defined by the regulatory body. The residual risk that the Site may flood if the protection standard of any flood defences is exceeded, or if the defences fail, is insignificant.

## Flood Water Storage Areas

Map ID	Details	Distance	Reply or Direction
	Are there any flood water storage areas within 500m?	<501m	NO



The Site is over 500m from a Flood Storage Area (FSA) as defined by the regulatory body. These areas store flood water during significant flood events. It is unlikely that any FSA presents any associated flood risk to the Site.

## Flood Defences

Map ID	Details	Distance	Reply or Direction
	Are there any flood defences within 500m?	<501m	YES



There are flood defences within 250m of the Site. There may therefore be a residual risk of flooding should the protection standard of those defences be exceeded (and the defences overtopped) or should the defences fail. Further investigations could be undertaken into the standard of these defences. Please contact us for further information.



# The Environment Agency Risk of Flooding from Rivers and Sea

Details	Distance	Reply or Direction
What is the flood likelihood category for the Site?	On Site	-



Some areas may be classified as having no result. This occurs where there is no output data from the analysis used to produce the regulatory body's risk assessment, but the area falls within the extreme flood outline (with a 0.1% or 1 in 1000 chance of flooding in any year).

### The Environment Agency Data

The data in the Risk of Flooding from Rivers and Sea Property Flood Likelihood Database is sourced from The Environment Agency's National Property Dataset (NPD2). The information provided includes the flood likelihood category low, moderate, or significant according to the flood risk analysis.



# Groundwater Flooding Risk

## Groundwater Flooding Risk

Details	Distance	Reply or Direction
What is the risk of groundwater flooding at the Site?	On Site	high



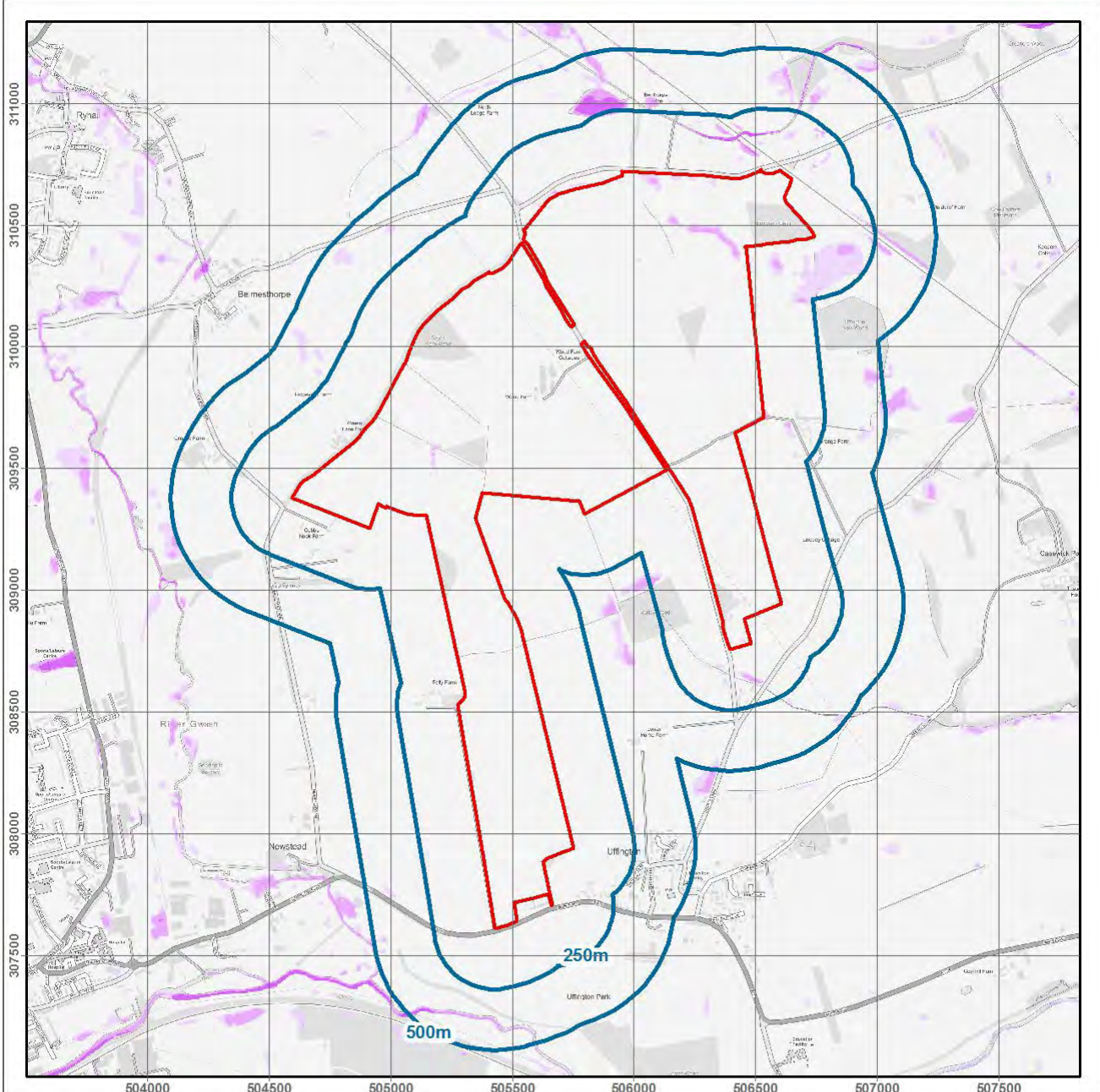
Information from GeoSmart Information Ltd indicates that there is a high risk of groundwater flooding in this area with a return period of 1 in 100 years or more frequent. It is likely that incidence of groundwater flooding will occur, which could lead to damage to property or harm to other sensitive receptors at, or near, this location. Flooding may result in damage to property, road or rail closures and, in exceptional cases, may pose a risk to life. Surface water flooding will be exacerbated when groundwater levels are high. Further consideration of the level of risk and mitigation, by a suitably qualified professional, is recommended.

### GeoSmart Information Ltd Data





GeoSmart Information Ltd provides data to Argyll in relation to groundwater flooding. Through research and development, building on their expertise in addressing groundwater flooding issues for the Environment Agency and other clients in the UK, GeoSmart Information Ltd has developed algorithms and calibrated predictions of the risk of groundwater flooding occurring in England and Wales. This differs from other suppliers of data regarding groundwater flooding which only report on the susceptibility of groundwater flooding. Susceptibility merely has to be identified, whereas risk must be quantified. The resulting map is a 5x5m classification of groundwater flooding risk into four categories (Negligible, Low, Moderate and High). GeoSmart Information Ltd's classifications are based on the level of risk, combining severity and uncertainty that a site will suffer groundwater flooding within a return period of about 100 years.

The map is a general purpose indicative screening tool, and is intended to provide a useful initial view for a wide variety of applications. However, it does not provide an alternative to a site specific assessment, and a detailed risk assessment should be used for any site where the impact of groundwater flooding would have significant adverse consequences.

# Surface Water Flooding (1:200 year rainfall event)



## Surface Water Risk

-  Client Site
-  10cm - 30cm depth
-  30cm - 1m depth
-  1m + depth

metres  
05000200  


\* - Not all features in legend may be present in above map

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# Surface Water Flooding

## Surface Water Flooding

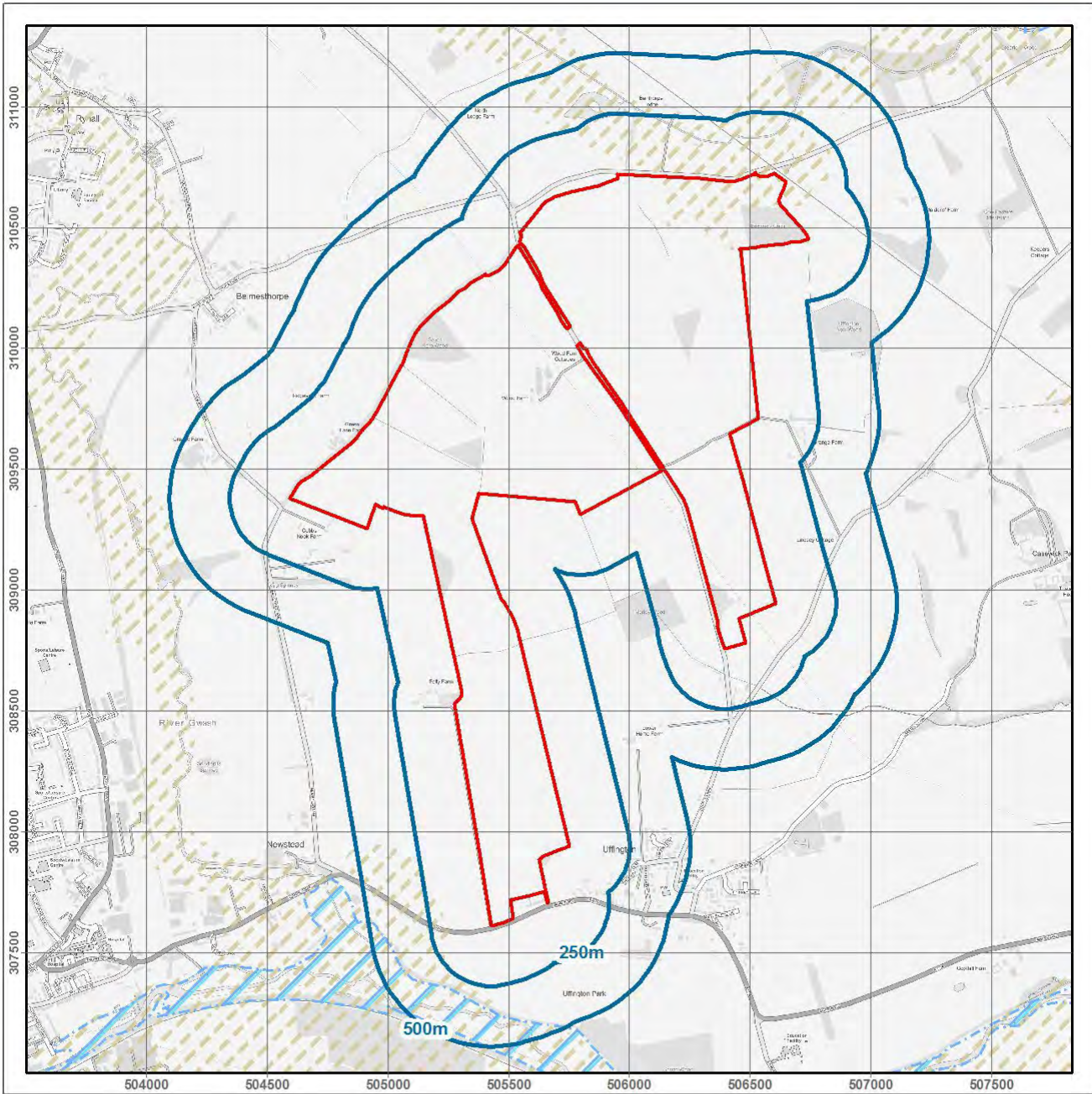
Details	Distance	Reply or Direction
What is the risk of surface water flooding at the Site following a 1 in 75 year rainfall event?	On Site	medium
What is the risk of surface water flooding at the Site following a 1 in 200 year rainfall event?	On Site	medium
What is the risk of surface water flooding at the Site following a 1 in 1,000 year rainfall event?	On Site	medium



### JBA Risk Management Data

Surface Water Flooding - Information regarding the risk of natural surface water or pluvial flooding. The risk is classified by JBA into four categories, low (equal to 10cm), low to medium (more than 10cm), medium (more than 30cm) and high (more than 1m) which reflect varying depths of potential surface water flooding during a range of rainfall events including 1:75 year, 1:200 year, and 1:1000 year.

# Historical Flooding



## Historical Flooding

-  Client Site
-  Historic Floods
-  Geo Indicators

metres  
0500 0200  


\* - Not all features in legend may be present in above map

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# Historical Flooding

## Historical Flood Events

Details	Distance	Reply or Direction
Have any historic flood events occurred at the Site or within 500m?	<501m	YES



The regulatory body's records indicate past flooding within between 250m and 500m of the Site. This suggests that there is only a minimal risk to the Site itself. As these records are not comprehensive, it may still be prudent to ask the Site owner whether they are aware of any previous flooding at the Site or in the surrounding area.

### Environment Agency Data

Historic Flood Outlines - The EA has collated extensive records (including outlines) of flooding from rivers, the sea or groundwater which have occurred in England and Wales since c. 1950. This information comes from various sources including maps, aerial photographs and private records. It is not necessarily comprehensive.

## Geological Indicators of Flooding

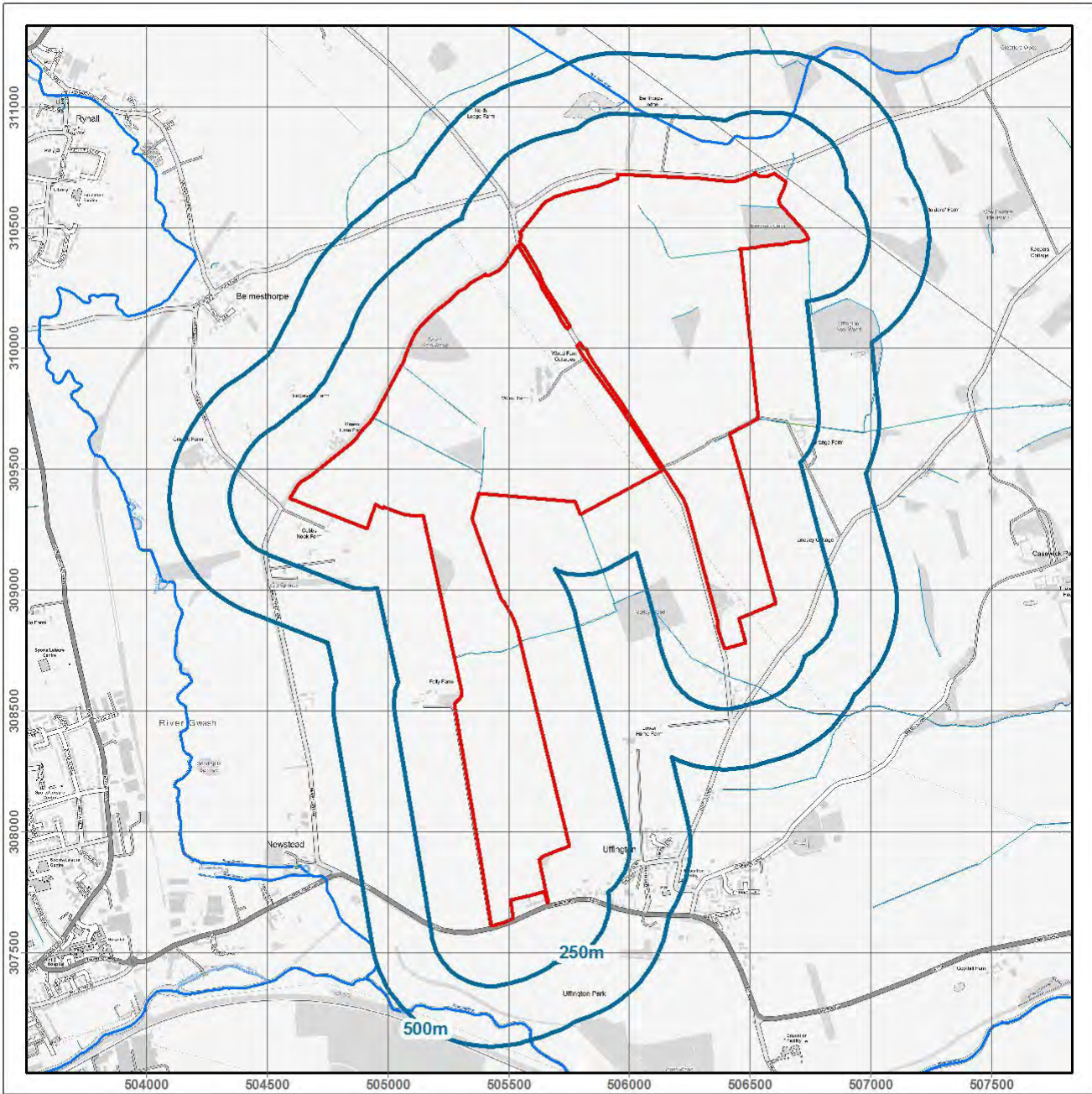
Details	Distance	Reply or Direction
Are there any geological deposits which indicate the Site may have been flooded in the past?	<26m	YES
Fluvial flooding indicators, Lower flood potential from rivers: areas affected by secondary flooding in extreme cases as a result of a prolonged flood event.	On Site	-
Fluvial flooding indicators, Higher flood potential from rivers: the first areas to experience the effects of inland flooding in a river catchment.	On Site	-



### British Geological Survey Data

Geological Indicators of Flooding – The BGS Geological Indicators of Flooding (GIF) data set is a digital map based on the BGS Digital Geological Map of Great Britain at the 1:50,000 scale (DiGMapGB-50). It was produced by characterising Superficial (Drift) Deposits on DiGMapGB-50 in terms of their likely vulnerability to flooding, either from coastal or inland water flow and reflects areas which may have flooded in the recent geological past. This normally relates to flooding which happened many thousands of years ago.

# OS MasterMap Water Network



## OS MasterMap Water Network

- |                         |                         |
|-------------------------|-------------------------|
| Client Site             | Lake or Reservoir       |
| Primary Flow (named)    | Foreshore and Sea       |
| Primary Flow (un-named) | Underground River       |
| Secondary Flow          | Marsh                   |
| Tidal River             | Canal, Lock or Transfer |

metres  
0500 0200

\* - Not all features in legend may be present in above map

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## OS MasterMap Water Network

Map ID	Details	Distance	Reply or Direction
	Watercourse Type: Primary Flow (un-named)	263.4m	E
	Watercourse Type: Lake or Reservoir	276.1m	N
	Watercourse Type: Primary Flow (un-named)	298.6m	SE
	Watercourse Type: Primary Flow (un-named)	302.5m	N
	West Glen River Watercourse Type: Primary Flow (named)	304.8m	N
	River Welland Watercourse Type: Primary Flow (named)	367.1m	S
	Watercourse Type: Primary Flow (un-named)	380.2m	SE
	Watercourse Type: Primary Flow (un-named)	380.2m	SE
	Watercourse Type: Primary Flow (un-named)	392.5m	W
	Watercourse Type: Primary Flow (un-named)	393.9m	S
	Watercourse Type: Primary Flow (un-named)	435.0m	N
	Watercourse Type: Primary Flow (un-named)	435.0m	N
	Watercourse Type: Primary Flow (un-named)	438.2m	E
	Watercourse Type: Primary Flow (un-named)	445.8m	E
	Watercourse Type: Primary Flow (un-named)	454.9m	N
	West Glen River Watercourse Type: Primary Flow (named)	454.9m	N
	Watercourse Type: Primary Flow (un-named)	476.2m	NW
	River Welland Watercourse Type: Secondary Flow	485.1m	SW
	River Welland Watercourse Type: Primary Flow (named)	485.1m	SW
	River Gwash Watercourse Type: Primary Flow (named)	497.1m	W



A water feature has been identified at the property. This does not present an immediate risk, however it may require frequent upkeep and maintenance.

### OS Data

OS MasterMap Water Network is a three-dimensional digital representation of the watercourses in Great Britain. It includes rivers, streams, lakes, lochs and canals as a series of watercourse network lines. The network lines (links) are attributed to provide a range of information about the section of watercourse they depict. The OS MasterMap Water Network will significantly enhance systems used to manage waterways, river and the flood risk they pose.

## Other Information

### Height Above Sea Level

Map ID	Details	Distance	Reply or Direction
	Maximum height of the Site above sea level	On Site	49.40m
	Minimum height of the Site above sea level	On Site	17.20m
	Average height of the Site above sea level	On Site	32.75m



The Site is at a relatively high elevation above sea level. However, this is not in itself indicative of the absence of flood risk and reference should be made to other assessments within this report.



## Distance to Water Features

Details	Distance	Reply or Direction
Are there any water features within 500m?	<501m	YES
Surface water feature	141.3m	N
Surface water feature	149.2m	N
Surface water feature	191.6m	S
Surface water feature	247.5m	E
Surface water feature	247.6m	E
Surface water feature	360.9m	S
Surface water feature	412.3m	E
Surface water feature	456.1m	E
Surface water feature	487.3m	SE



There is a water feature shown on the Ordnance Survey within 250m of the Site. This does not represent a flood risk in itself, but its presence has been taken into account in the overall risk assessment in this Report.

## Dam or Reservoir Failure

Details	Distance	Reply or Direction
Is there a risk of the Site being affected by the failure of a nearby dam or reservoir?	On Site	YES



There is a dam or reservoir close to the Site. Models have predicted that if this structure failed, the Site could flood. Although the risk of such an event occurring is very low, the consequences of such flooding could be severe. It would be prudent to consider incorporating this risk within any existing (or new) business continuity or emergency plans.

### JBA Risk Management Data

Dam or Reservoir Failure – JBA has modelled approximately 1700 dams and reservoirs across the UK which are considered to pose the greatest risks to people and property. These models are able to predict the areas likely to flood on all sides of a feature, should an element of it fail e.g. a wall, dam or earth bund.

## Useful Contacts

Name and Address	Telephone/Fax/Email
Argyll Environmental Limited 1 <sup>st</sup> Floor 98 – 99 Queens Road Brighton BN1 3XF <a href="http://www.argyllenvironmental.com">www.argyllenvironmental.com</a>	Telephone 0330 036 6115 orders@argyllenviro.com
Environment Agency National Customer Contact Centre (NCCC) PO Box 544	Telephone 03708 506 506
South Kesteven District Council Environmental Health Council Offices <a href="http://www.southkesteven.gov.uk">www.southkesteven.gov.uk</a>	Telephone
Lincolnshire County Council 4th Floor <a href="http://www.lincolnshire.gov.uk">www.lincolnshire.gov.uk</a>	Telephone 01522 552222 Fax: 01522 552288 PublicRelations@lincolnshire.gov.uk
Rutland Unitary Council Environmental Health Department Catmose <a href="http://www.rutland.gov.uk">www.rutland.gov.uk</a>	Telephone 01572 722577 Fax: 01572 758307
Peterborough City Council Town Hall <a href="http://www.peterborough.gov.uk">www.peterborough.gov.uk</a>	Telephone 01733 563141 Fax: 01733 317537
British Geological Survey Enquiry Service British Geological Survey <a href="http://www.bgs.ac.uk">www.bgs.ac.uk</a>	Telephone 0115 936 3143 Fax: 0115 936 3276 enquiries@bgs.ac.uk
Environment Agency Head Office Rio House	Telephone 01454 624400 Fax: 01454 624409
Stantec UK Ltd Caversham Bridge House <a href="http://www.stantec.com">www.stantec.com</a>	Telephone 0118 950 0761  pba.reading@stantec.com
Defra Nobel House 17 Smith Square London SW1P 3JR	Telephone 08459 335577 defra.helpline@defra.gsi.gov.uk
ALA (Agricultural Law Association)	Telephone 01206 383521 Enquiries@aka.org.uk
Please note that the Environment Agency / SEPA have a charging policy in place for enquiries. When contacting these agencies please mention that this data has been received from the Landmark database, alternatively Argyll Environmental Limited would be pleased to assist with consultation to the above bodies. Please contact us for a quotation.	

## Contaminated Land Risk Analysis Methodology

The Estate Solutions reports have been designed to assist in making informed decisions during property transactions. The Report is a desktop assessment of direct liabilities (Liabilities) which could affect the owner /occupier of the Site and arise under Part 2A of the Environmental Protection Act 1990 and/or equivalent requirements under the planning regime and/or the Water Resources Act 1991<sup>3</sup>. (Relevant Legislation). If a risk is identified, then a number of options for finding out more about the risk, managing it or transferring it are proposed.

The assessment of environmental liability under the Relevant Legislation is based upon the principle of determining the presence of a plausible contaminant-pathway-receptor relationship (a contaminant linkage). A 'contaminant' is a source of contamination, a 'pathway' is a medium through which the contamination can mobilise and 'a receptor' is a person or entity that could be detrimentally affected by the contamination. If all three are identified, then a 'plausible contaminant-pathway-receptor relationship' may be present. By definition, this is one which Argyll believes could result in significant harm, a significant possibility of significant harm or significant pollution or the possibility of significant pollution to Controlled Waters.

In our assessment we use the following test to decide if there is a potential liability affecting the Site. For the purpose of this assessment a site where a potential Liability has been identified is defined as follows:

*A Site which, from the information assessed by Argyll, is considered to have the potential of being affected by contaminative substances present in or under the Site (but excluding potential sources of contamination on or above the land) such that, on the basis of its current or proposed use, there is a reasonable likelihood of a UK regulatory authority, acting in accordance with Relevant Legislation, requiring that remedial measures are taken in order to remedy or mitigate the contaminative substances that are present in or under the land that forms all or part of the Site.*

The term Liabilities is defined within the scope of this assessment to mean, remedial works under Part 2A of the Environmental Protection Act 1990 (or where appropriate, equivalent requirements under the planning regime) and/or the Water Resources Act 1991 which may result in direct liability for the site owner/occupier.

The assessment within the Report has been produced and quality checked by a team of qualified environmental professionals. The assessment is based upon a manual review of the data contained within the Data Section of this Report and of 1:2500 and 1:1250 (where available) scale historical mapping.

## Ecological Risk Assessment

The evaluation of ecological risk is becoming an increasingly important input when making risk management decisions. In the Site Solutions Commercial report, Argyll assesses two different drivers for risks and liabilities driven by ecological receptors;

- 1.The Contaminated Land Regime; and
- 2.The Environmental Damage Regulations (EDR) 2009.

The Environment Agency has designed a generic framework for conducting ecological risk assessment (see Assessing Risk to Ecosystems from Land Contamination, R&D Technical Report P299, EA 2002). This recommends a tiered approach in line with best practice for human health and controlled water risk assessment and defines Relevant Ecological Receptors as any of the Relevant Types of Receptor as set out in Table 1 of Defra Statutory Guidance on Contaminated Land dated April 2012.

Argyll assesses Relevant Ecological Receptors as part of its assessment process. To do so it uses the Argyll EcoRisk model which was developed and tested in consultation with leading experts and is based on the Environment Agency framework.

The Environmental Damage (Prevention and Remediation) Regulations 2009 were introduced on 1 March 2009 to implement the provisions of the European Commission's Environmental Liability Directive into law in England<sup>4</sup>. The aim of EDR is to prevent and remedy damage to protected species or natural habitats or a site of special scientific interest, surface water, groundwater or to land. 'Environmental damage' has a specific meaning in the Regulations, and covers only the most severe cases. Existing legislation with provisions for environmental liability remains in place. The Regulations apply on land in England and on the seabed around the UK up to the limits set out in the Continental Shelf Act 1964, and to waters in the Renewable Energy Zone, which extends approximately 200 miles out to sea.

Argyll does not consider the standard of current operations, but reports the potential for environmental damage based on the location of EDR Receptors around the Site.

<sup>3</sup> Water Environment (Controlled Activities)(Scotland) Regulations 2005 where appropriate.




<sup>4</sup> Environmental Damage (Prevention and Remediation) (Wales) Regulations 2009 or Environmental Damage (Prevention and Remediation) (Scotland) Regulations where appropriate.

When conducting either assessment, Argyll will primarily assess information provided in the Data section of the Report. However, in some cases Argyll may choose to supplement this with freely available public information such as that provided by Natural England and/or information provided by the Argyll Europa System.

## Liability Assessment

In this section Argyll will report on any potential soil and groundwater liabilities which it considers are associated with the Site. Our assessment of Liability is based upon the proposed and current use of the Site(as supplied by the client)in line with current Government guidance.

There will be one of the following three responses:

Assessment	Liability Statement & explanation	Defra Category*
<b>PASSED</b> 	<p><b>Within the scope of this assessment no Liabilities have been identified. No further action is required.</b></p> <p>This statement indicates that within the scope of this assessment, no issues have been identified that are likely to result in significant cost liabilities under Relevant Legislation.</p>	3 or 4
<b>PASSED</b> 	<p><b>Within the scope of this assessment no Liabilities have been identified. However, your attention is drawn to the prudent enquiries suggested below.</b></p> <p>This statement indicates that within the scope of this assessment, no issues have been identified that are likely to result in significant cost liabilities under Relevant Legislation. However, a client may wish to obtain further information about other issues disclosed in the Report, which could be material.</p>	3 or 4
<b>FURTHER ACTION</b> 	<p><b>Potential Liabilities have been identified under Part 2A of the Environmental Protection Act 1990 (or where appropriate, equivalent requirements under the planning regime) and/or the Water Resources Act 1991<sup>5</sup>. To quantify these you may decide to undertake a more detailed assessment through the recommendation(s) set out below.</b></p> <p>This statement indicates that within the scope of this assessment, an issue or a number of issues have been identified that are likely to result in significant cost liabilities under Relevant Legislation. In this event, recommendations are made, in order that additional information is collected so that the liabilities may be more accurately assessed.</p>	Potentially 1 or 2

\* According to Defra's updated Statutory Guidance on Contaminated Land, Regulators have a four-stage test to decide when land is and is not contaminated. Category 1 and Category 2 sites would encompass land which is capable of being determined as contaminated land, whereas Category 3 and Category 4 sites would encompass land which is not capable of being determined as contaminated land.

## Limitations of the Report

The Estate Solutions reports have been designed to satisfy standard environmental due-diligence enquiries, as recommended by the Law Society's contaminated land warning card. It is a 'remote' investigation and reviews only information provided by the client and from the databases of publicly available information that have been chosen to enable a desk based environmental assessment of the Site. The Report does not include a site investigation, nor does Argyll make specific information requests of the regulatory authorities for any relevant information they may hold. Therefore, Argyll cannot guarantee that all land uses or factors of concern will have been identified by the Report.

The information in the Data Section of the Report is derived from a number of statutory and non-statutory sources. While every effort is made to ensure accuracy, Argyll cannot guarantee the accuracy or completeness of such information or data. Argyll will not accept responsibility for inaccurate data provided by external data providers.

Further information regarding our risk assessment methodology is provided in the Products and Services User Manual which is available free of charge from the client area of our website [www.argyllenvironmental.com](http://www.argyllenvironmental.com). For further information regarding the datasets reviewed within our assessment, please contact one of our technical team on 0330 036 6115. This report is provided under The Argyll Environmental Terms and Conditions for Data Reports, a copy of which is available on our website.Flood Risk Screening Methodology

<sup>5</sup>Water Environment (Controlled Activities)(Scotland) Regulations 2005 where appropriate.

The EstateSolutions Farm includes a desktop flood risk assessment designed to enable property professionals to assess the risk of flooding at agricultural sites. It examines the overall risk of flooding at a site (not taking into account any flood defences that may be present). The report considers current Government guidance including the National Planning Policy Framework (NPPF) and the agreement between the Association of British Insurers and Defra known as the Statement of Principles. The report has been produced and quality-checked by a qualified consultant using the data contained in this report.

## Flood Risk Rating

Argyll provides an overall flood risk rating based on an assessment of the data provided within this report. It does so by asking one question:

1. What is the overall risk of flooding, assuming flood defence fail or are absent or overtopped?

The answer to this question provides a worst case scenario assuming there are either no defences in the area, that any defences in the area could fail, primarily as a result of river or coastal flooding, or are overtopped by excessive flood volumes.

Questions 1 are answered by one of six standard responses:

Response	Meaning
Negligible	The overall flood risk rating for the Site is assessed to be 'Negligible'. Existing datasets do not indicate any risk at the Site itself, or any feature within the locality of the Site, which would be expected to pose a threat of flooding. It is not considered that any further investigations are necessary in regard to flood risk.
Low	The overall flood risk rating for the Site is assessed to be 'Low'. Although large sites (over 1 ha) would require a Drainage Impact Assessment to accompany any planning application, it is not considered necessary to undertake any other further investigations into the flood risk to the Site.
Low to Moderate	The overall flood risk rating for the Site is assessed to be 'Low to Moderate'. The presence of such features as flood defences, flood storage areas and watercourses within the locality of the Site suggests that there may be a risk of flooding to the Site itself. Further investigations could be undertaken to further assess this risk.
Moderate	The overall flood risk rating for the Site is assessed to be 'Moderate'. Information from existing datasets suggests that there are certain features which may present a risk to the Site and its occupants. Further assessment would normally be suggested as a prudent measure to clarify the risk of flooding at the Site.
Moderate to High	The overall flood risk rating for Site is assessed to be 'Moderate to High'. Information from existing datasets suggests that there are certain features which may present a significant risk to the Site and its occupants. Further assessment is usually recommended in order to clarify the risk of flooding at the Site.
High	The overall flood risk rating for Site is assessed to be 'High', with a consequent risk to life and property. This means that existing datasets reveal significant flood risk issues which need to be addressed. Further assessment is usually recommended in order to clarify the risk of flooding at the Site.

## Flood Analysis

The flood risk gauges provide a more detailed analysis of the risk from each of the four main types of flooding – river, coastal, groundwater and surface water. In addition, a fifth gauge provides an analysis of other factors (i.e. historic flood events, geological deposits which are indicative of past flooding, proximity to surface water features and elevation above sea level) that may affect the overall flood risk. For surface water flooding, only the risk rating generated from the 1:200 year rainfall event data is included in the overall risk assessment. The data on 1:75 year and 1:1,000 year rainfall events is provided for information only. The flood analysis within the report is automated taking into account the percentage of identified flood risk from the individual datasets to assess their significance in the context of the wider farm. This includes an assessment of whether the assumed main buildings within the Site boundary fall within an area of flood risk. For further information on each of these types of flooding, please refer to the Argyll FloodSolutions User Guide.

This analysis takes into account any existing flood defences that are intended to protect the Site and assumes that these work as designed. The analysis also takes into account the other information contained in those data sections of the report

which are relevant to that particular type of flooding. The assessment of the risk as shown in the flood gauge should therefore take priority over the information in the individual data sections of the report.

## Limitations of the Report

The Renaissance Estate Solutions Farm report has been designed to satisfy basic flood-related environmental due-diligence enquiries for farm and large estates. It is a desktop review of information provided by the client and from selected private and public databases. It does not include a site investigation, nor are specific information requests made of the regulatory authorities for any relevant information (other than local water and sewerage providers). Therefore, Argyll cannot guarantee that all issues of concern will be identified by this report, or that the data and information supplied to it by third parties is accurate and complete.

This report includes an assessment of surface water flooding which examines the risk of the general drainage network overflowing during periods of extreme rainfall. This report does not make a detailed site-specific assessment of the suitability of the existing drainage on the Site. If this is required, then a site survey should be considered. The assessment of pluvial flooding does not take into account particular local or temporary factors that may cause surface water flooding such as the blockage or failure of structures on or within watercourses, drains, foul sewers, water mains, canals and other water infrastructure; and any history of drains flooding at the Site or in the locality. Surface water flooding can occur before surface water reaches the general drainage network, for example on hills and inclines.

Environment Agency data does not include flood risk from very small catchments as models of such small scale catchments are not considered to be reliable for UK-wide flood risk assessments. The potential impact of climate change on flood risk to the Site would require further study.

When answering any questions within this report, current applicable legislation is taken into account.

The data used in this report may have inherent limitations and qualifications. Further details are set out in the FloodSolutions User Guide which is available free of charge from our website [www.argyllenvironmental.com](http://www.argyllenvironmental.com) , or by calling one of our technical team on 0330 036 6115.

This report is provided under The Argyll Environmental Terms and Conditions for Flood Solutions Reports, a copy of which is available on our website, [www.argyllenvironmental.com](http://www.argyllenvironmental.com) , or by calling one of our technical team on 0330 036 6115.



## Consumer Protection

### Important Consumer Protection Information

This search has been produced by Argyll Environmental Ltd, 1<sup>st</sup> Floor, 98 – 99 Queens Road, Brighton, BN1 3XF.

Tel: 0330 036 6115, Email: [orders@argyllenviro.com](mailto:orders@argyllenviro.com).

Argyll Environmental adheres to the Conveyancing Information Executive (CIE) standards.

### The Standards:

- Conveyancing Information Executive Members shall act in a professional and honest manner at all times in line with the Conveyancing Information Executive Standards and carry out the delivery of the Search with integrity and due care and skill.
- Compliance with the Conveyancing Information Executive Standards will be a condition within the Conveyancing Information Executive Member's Terms and Conditions.
- Conveyancing Information Executive Members will promote the benefits of and deliver the Search to the agreed standards and in the best interests of the customer and associated parties.
- The standards can be seen here: <http://www.conveyinfoexec.com>

### Complaints

If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award up to £5,000 to you if the Ombudsman finds that you have suffered actual financial loss and/or aggravation, distress or inconvenience as a result of your search provider failing to keep to the Standards.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPO.

### TPOs Contact Details:

The Property Ombudsman scheme  
Milford House  
43-55 Milford Street  
Salisbury  
Wiltshire SP1 2BP

Tel: 01722 333306

Fax: 01722 332296

Web site: [www.tpos.co.uk](http://www.tpos.co.uk)

Email: [admin@tpos.co.uk](mailto:admin@tpos.co.uk)

## Argyll Environmental Complaints Procedure

If you want to make a complaint to Argyll Environmental, we will:

- Acknowledge it within 5 working days of receipt
- Normally deal with it fully and provide a final response, in writing, within 20 working days of receipt
- Keep you informed by letter, telephone or e-mail, as you prefer, if we need more time
- Provide a final response, in writing, at the latest within 40 working days of receipt
- Liaise, at your request, with anyone acting formally on your behalf

Complaints should be sent to:

Legal Director  
Argyll Environmental Ltd  
1<sup>st</sup> Floor  
98 - 99 Queens Road  
Brighton  
BN1 3XF

Tel: 0330 036 6115

Email: [orders@argyllenviro.com](mailto:orders@argyllenviro.com)

If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs):

Tel: 01722 333306,

Email: [admin@tpos.co.uk](mailto:admin@tpos.co.uk)

We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.







# **Mallard Pass**

Solar Farm

## **Mallard Pass Solar Farm**

**Scoping Report**

**Appendix 7.5c: Argyll Environmental  
Report - Land at Manor Farm**

**February 2022**



LAND AT MANOR FARM, ESSENDINE, PE9 4LQ

**Report Prepared for:** Search Acumen

**Report Reference:** 287311656

**Client Reference:** 472867.5/SC16/KS13\_ESF

**Date:** 4 November 2021



## Contaminated Land

**FURTHER ACTION**

Executive Summary | SEE PAGE 1

[CLICK HERE](#)

Consultant Commentary | SEE PAGE 6

[CLICK HERE](#)



## Flood Risk

**PASSED – PRUDENT ACTION**

Executive Summary | SEE PAGE 1

[CLICK HERE](#)

Consultant Commentary | SEE PAGE 8

[CLICK HERE](#)



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## Agricultural Considerations **IDENTIFIED**

Executive Summary | SEE PAGE 2

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Detail | SEE PAGE 50

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## Ground Hazards & Coal Mining **IDENTIFIED**

Executive Summary | SEE PAGE 3

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## Energy & Infrastructure **IDENTIFIED**

Executive Summary | SEE PAGE 4

[CLICK HERE](#)

Detail | SEE PAGE 73

[CLICK HERE](#)



**Authored by:**

**Tessie Hendry** BSc

t: [REDACTED] e: [REDACTED]@landmark.co.uk



## Contaminated Land

SEE PAGE 6 OR

[CLICK HERE](#)

### FURTHER ACTION



#### Liability Assessment

We have identified potential soil and/or groundwater liabilities. To quantify these we recommend you undertake the action outlined below.



#### Argyll's Recommendations

##### **Phase 1 Environmental Audit (from £1250.00 + VAT including third-party costs)**

**Risk:** The Site's proximity to areas of landfilling may have caused contamination migrating onto the farm. As the Site is being redeveloped, Planning Conditions will be used as a mechanism to investigate the nature and extent of contamination, and if necessary, remediate the Site to an acceptable standard.

**Action:** A Phase 1 Environmental Assessment is the first step in the phased approach to contaminated land assessments. If potential contaminant linkages are identified, this will likely lead on to a Phase 2 Intrusive Investigation.



## Flood Risk

SEE PAGE 8 OR

[CLICK HERE](#)

### PASSED – PRUDENT ACTION



#### Consultant's Summary

The Site may be susceptible to flooding, particularly during an extreme flooding event. It would be prudent to consider our recommendations below.



#### Insurance

In most cases insurance should be available at standard terms.



#### Recommendations

##### **Flood Risk Assessment (FRA) (from £950.00 + VAT)**

**Risk:** The Site is situated within a flood zone 3 and is over 1 hectare.

**Action:** As development is planned a Flood Risk Assessment (FRA) will be required to support the planning application. It must demonstrate how to manage flood risk so the development will remain safe throughout its lifetime; and will need to be submitted to the Local Authority for approval.

#### Standard Enquiries

- Ask the seller whether flooding has occurred in the area before. If it has, please contact us for advice.
- Establish the availability of buildings and contents insurance before exchanging contracts.



## Agricultural Considerations

SEE PAGE 50 OR [CLICK HERE](#)

### IDENTIFIED



#### Professional Opinion and Recommendations

We have identified agricultural considerations that may be of relevance to the Site.

##### **Nitrate Vulnerable Zones**

The farm lies within a Nitrate Vulnerable Zone. Nitrate Vulnerable Zones are areas designated as being at risk from agricultural nitrate pollution. There are certain requirements that should be followed when you use fertilisers and store organic manure.

For further guidance, please see the following link <https://www.gov.uk/government/collections/nitrate-vulnerable-zones>

##### **Environmental Stewardship Schemes**

The farm is located within a Entry Level Plus Higher Level Scheme. The Environmental Stewardship Scheme aims to secure widespread environmental benefits (including improved water quality and reduced soil erosion) through financial incentives.

Make enquiries with the land owner or Natural England for further information.

##### **Agricultural Land Classifications**

The farm is classified as Grade 3. The classification system is broken down into categories according to the extent to which physical or chemical characteristics (such as climatic conditions and soil chemistry) cause limitations on food production.

Make enquiries with the land owner or Natural England for further information.



## Ground Hazards & Coal Mining

SEE PAGE 62 OR [CLICK HERE](#)

### IDENTIFIED



#### Professional Opinion and Recommendations

We have identified ground hazards that may affect the site or nearby area.

##### Insurance Claims

Our search indicates that the Site is not within an area where Coal Mining Subsidence Damage Claims have been recorded.

##### Natural Ground Stability

There are very significant soluble rocks in the area. Information provided by the BGS indicates there are places where the underlying ground may have dissolved with some recorded subsidence. There is a moderate potential of localised subsidence occurring naturally.

Information provided by the BGS indicates that land in the area could be prone to compressibility and uneven settlement hazards. There is a moderate potential that problems could occur in the area.

Information from the BGS indicates that the ground in the area is prone to changing shape or volume, usually because of varying amounts of water in the ground throughout the year. This means that there is a moderate potential that problems could occur in the area.

Whether or not a Site is affected by ground movement can depend on a number of factors – including property age and type of construction.

We recommend that you consult a local RICS accredited surveyor to arrange the most suitable survey for the Site, to assess whether or not it is affected by ground stability issues.

If it has been built recently, contact Building Control at the Local Authority in order to check whether it was constructed to a standard that will minimise the risk of structural damage. Alternatively, the Site may benefit from building warranty through companies such as the NHBC.

##### Mining

Our search indicates that the Site is not within a Coalfield Consultation Area.

Historical maps indicate that the Site formed part of a mine or quarry. The Site is located on land that was used as Extraction.

The Site has been identified in an area that might have been used for mining other than coal in the past.

We recommend that you consult a local RICS accredited surveyor to arrange the most suitable survey for the Site, to assess whether or not it is affected by ground stability issues.

If it has been built recently, contact Building Control at the Local Authority in order to check whether it was constructed to a standard that will minimise the risk of structural damage. Alternatively, the Site may benefit from building warranty through companies such as the NHBC.

##### Radon

The Site is in a higher probability radon area, as between 10 to 30% of homes are estimated to be at or above the action level. As such, the Site has the potential to be affected by Radon. However, this does not necessarily mean that the Site is located on an area of high radon or that there is cause for concern.

As such, basic radon protective measures are necessary in the construction of new dwellings or extensions. Basic protective measures comprise a radon barrier laid across the footprint of the building.

As such, full radon protective measures are necessary in the construction of new dwellings or extensions. Full protective measures comprise a radon barrier laid across the footprint of the building, and provision for subfloor extraction or ventilation.

We recommend you follow Public Health England advice that homes in affected areas should be tested. For further information please contact the Public Health England (see Contacts section) or go to [www.ukradon.org](http://www.ukradon.org)



## Energy & Infrastructure

SEE PAGE 73 OR

[CLICK HERE](#)

**IDENTIFIED**



### Professional Opinion and Recommendations

We have identified projects that may affect the Site or nearby area. These projects could result in visual impact or noise to the neighborhood. They could also affect nearby property values; this could be a negative affect or a positive one. For instance, being near a new rail link may boost values in the local area.

The Site is within 250m of above or below ground railways or trams. You may wish to visit the Site to understand any possible effect.



# Report Scope

Report Prepared on: **LAND AT MANOR FARM, ESSENDINE, PE9 4LQ**  
Current Use: **Agricultural**  
Proposed Use: **Agricultural (assumed solar farm development)**  
Transaction Type: **Assumed purchase**  
Site Area (m<sup>2</sup>): **1874590.72**  
National Grid Reference: **503520 312970**



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# Contaminated Land Consultant Commentary



## On-site Sources

**LOW**

A review of historical maps dating from c.1888 shows no significant potentially contaminative uses on the farm.

According to current mapping and aerial photography the farm is comprised primarily of open arable fields, with minor areas of woodland.

## Off-site Sources

**MODERATE TO HIGH**

A review of historical maps dating from c.1888 shows the following potentially contaminative uses within 100m of the farm: farm yards and associated agricultural buildings adjacent north-west and north-east, quarries 10m north with one later labelled as a refuse tip and subsequently a depot, old gravel/sand pits from 15m north-east and a stone pit adjacent east, railways adjacent east, works with an associated tank 70m south-east, and a filling station 80m south-east.

We have identified the following recorded landfills/permits in proximity to the Site:

- a landfill site with three records from 15m north which collectively state this was operated by South Kesteven Rural District Council, and accepted commercial and household waste from 1946 until 1972;
- another nearby landfill Site with four records from 14m north which collectively state this landfill site accepted household waste from 1965 until 1975;
- an active COMAH 122m east;
- an inactive NIHHS 200m east;
- and Planning Hazardous Substance Consents 171m east.

## Pathways and Receptors

**HIGH**

The general area appears to be in agricultural use, with residential properties located adjacent north-west and south-east.

The superficial hydrogeology underlying the Site is classified as a Secondary Aquifer - A and a Secondary Aquifer - Undifferentiated. The bedrock hydrogeology is classified as a Principal Aquifer, a Secondary Aquifer - A, a Secondary Aquifer - B and Unproductive Strata.

The Site lies within a Source Protection Zone II.

There are six non-potable abstraction licences located within 100m; the closest is a stream abstraction in the north of the Site for agricultural use.

There are no potable abstraction licences within 500m.

The nearest watercourse is the West Glen River along the east of the farm.

One designated eco-receptor was identified within 500m of the Site. This is a Site of Special Scientific Interest adjacent north-west.

# Contaminated Land Consultant Commentary



## Additional Sources of Information

No additional sources of information have been used.

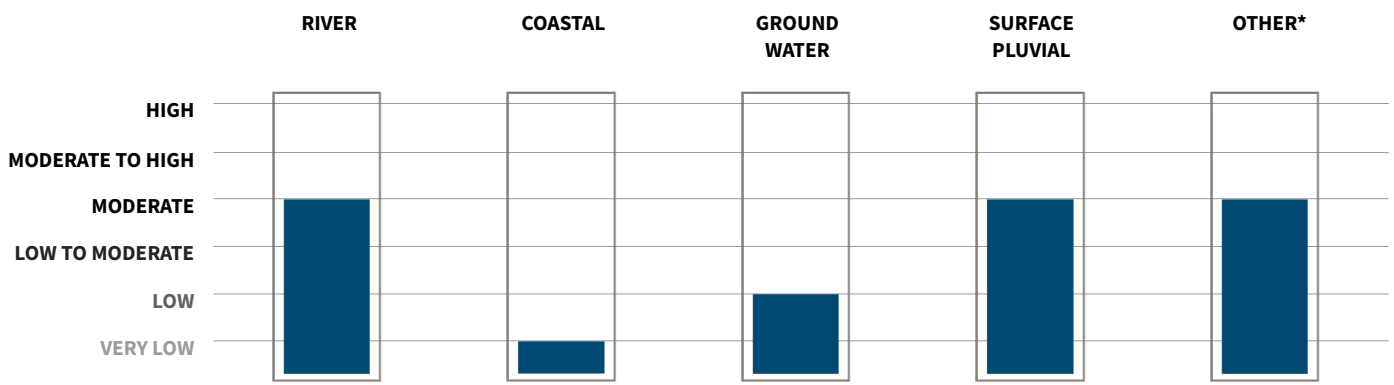
# Flood Risk

## Consultant Commentary



### Flood Analysis

Would a Flood Risk Assessment be required if development is proposed?	<b>YES (Full)</b>
What is the risk of flooding in an undefended scenario or assuming defences fail?	<b>MODERATE</b>
Are there existing flood defences within 500m of the Site?	<b>YES</b>
What is the risk of flooding when these defences are operational?	<b>MODERATE</b>



\* Other factors influencing flood risk include flood storage areas, historical floods, and proximity to water features.

### Argyll's Comment

<b>River</b>	As the West Glen River runs along the east of the farm, this area of the Site is at a high risk of flooding. Although defences are located in the wider area, small areas along the watercourse remain at a high risk. However, as this accounts for a minor portion of the Site and is restricted to undeveloped open land, we have revised the overall risk to the Site to moderate.
<b>Coastal</b>	No commentary required.
<b>Groundwater</b>	No commentary required.
<b>Surface Water</b>	Low lying areas across the Site are at risk of surface water flooding. A small area is at moderate to high risk, with a larger area at moderate risk. Depths of flooding in moderate risk areas are not expected to exceed 0.3m during a flood event.
<b>Other Factors</b>	The adjacent West Glen River does not present an immediate risk, however it could pose a risk during extreme storm events or in the event of a blockage.

# Contaminated Land

## Data Section



**Contaminated Land Data:** This section details the data used as part of our Contaminated Land Risk analysis. Each key dataset is mapped with the detail outlined beneath. We only show section headers beyond the tabular summary where we have found data to report. The relevant data has been reviewed by the report writer, supplemented by a review of historical mapping.

# contents

Tabular Summary	This section gives an overview of the data found at the Site and in the surrounding area. We present the data in three buffer zones, extending to a maximum of 500m. The search distances vary based on the scale of the activity and regulatory guidance. We display the number of records found in each database under the relevant heading. Where we have not searched a database, we will display the abbreviation N/A instead.
Authorised Industrial Processes	This section shows current and licensed activities relevant to contaminated land and environmental controls from a range of regulatory bodies. The search distances vary based on the scale of the activity.
Incidents and Enforcements	This section shows pollution incidents, licence enforcements and prosecutions. It also includes Contaminated Land Register Entries and Notices.
Landfill and Waste sites	This section presents detailed information on waste and landfill sites for the Site and surrounding area.
Current Land Use	This section shows contemporary trade directories and fuel stations. This information is indicative of operations at the Site and surrounding area, and may also relate to inactive or former land uses.
Historical Land Use	This section presents selected information on historical land use for the Site and surrounding area. The data shows historical land use information collected from 1:10,000 scale mapping, and for tanks and energy facilities 1:2,500 scale mapping. This includes polygon and point based land uses digitised by Landmark.
Groundwater Vulnerability	This section presents information relating to the aquifer designations beneath the Site. The aquifer designation of the Superficial and Bedrock geology are both mapped, followed by the detail. These aquifer designations are followed by information on the local geology. This information is considered in our Pathways and Receptors section.
Environmental Sensitivity	This section presents designated eco-receptors and sensitive area designations at the Site and in the surrounding area. This information is considered in our Pathways and Receptors section.



# Contaminated Land: Tabular Summary

## Authorised Industrial Processes

<b>Authorisations</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
Local Authority Pollution Prevention and Controls	0	0	N/A
Local Authority Integrated Pollution Prevention And Control	0	0	N/A
Integrated Pollution Controls	0	0	N/A
Environmental Permitting Regulations - Industry	0	0	N/A
Radioactive Substances Register*	0	0	N/A
<b>Discharges</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
Consented Discharges to Controlled Waters**	0	0	N/A
Referrals of Red List Discharges to Sewers (Corporate Entities)**	0	0	N/A
<b>Hazardous Sites</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
Control of Major Accident Hazards Sites (COMAH)	0	0	1
Explosive Sites	0	0	0
Notification of Installations Handling Hazardous Substances (NIHHS)	0	0	1
Planning Hazardous Substance Consents	0	0	5

## Incidents and Enforcements

<b>Contraventions</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
Contaminated Land Register Entries and Notices	0	0	0
Local Authority Pollution Prevention and Control Enforcements	0	0	N/A
Enforcement and Prohibition Notices	0	0	N/A
Planning Hazardous Substance Enforcements	0	0	N/A
Environmental Pollution Incidents	0	0	N/A
Prosecutions (Post 2000)	0	0	N/A

## Landfill and Waste Sites

<b>Landfill and Waste</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
BGS Recorded Landfill Sites	0	1	0
Integrated Pollution Control Registered Waste Sites	0	0	0
Permitted Waste Sites - Authorised Landfill Site Boundaries	0	0	0
Environmental Permitting Regulations - Waste Sites	0	0	0
Local Authority Recorded Landfill Sites	0	4	0
Registered Landfill Sites	0	0	0
Registered Waste Transfer Sites	0	0	N/A
Registered Waste Treatment or Disposal Sites	0	0	N/A
Historic Landfill	0	2	0



# Contaminated Land: Tabular Summary

## Current Land Use

Current Potentially Contaminative Uses	On-site	1-100m	101-250m
Contemporary Trade Directory Entries**	0	0	N/A
Fuel Station Entries	0	0	N/A

## Historical Land Use

Historical Potentially Contaminative Uses	On-site	1-100m	101-250m
Historical Tanks And Energy Facilities	0	0	N/A
Potentially Contaminative Industrial Uses (Past Land Use)	0	11	N/A

Potentially Infilled Land	On-site	1-100m	101-250m
Former Marshes	0	0	N/A
Potentially Infilled Land (Non-Water)	0	2	N/A
Potentially Infilled Land (Water)	0	0	N/A

## Groundwater Vulnerability

Hydrogeology	On-site	1-250m	251-500m
Superficial Aquifer Designations	Yes	N/A	N/A
Bedrock Aquifer Designations	Yes	N/A	N/A

## Geology

Geology	On-site	1-250m	251-500m
BGS 1:50,000 Bedrock Geology	Yes	N/A	N/A
BGS 1:50,000 Superficial Deposits	Yes	N/A	N/A
BGS 1:50,000 Geological Mapping Coverage	Yes	N/A	N/A



# Contaminated Land: Tabular Summary

## Environmental Sensitivity

<b>Environmental Sensitivity</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Areas of Outstanding Natural Beauty	0	0	0
Environmentally Sensitive Areas	0	0	0
Forest Parks	0	0	0
Local Nature Reserves	0	0	0
Marine Conservation Zones	0	0	0
National Nature Reserves	0	0	0
National Parks	0	0	0
Ramsar Sites	0	0	0
Sites of Special Scientific Interest	1	0	0
Special Areas of Conservation	0	0	0
Special Protection Areas	0	0	0
Water Abstractions	1	5	0
Source Protection Zones	2	0	0

\*\*dataset searched to 25m

\*dataset searched to 50m



# Contaminated Land: Authorised Industrial Processes



- |   |   |
|---|---|
| Site  | Consented Discharges to Controlled Waters                           |
| Multiple Features Present                                   | Referrals of Red List Discharges to Sewers (Corporate Entities)     |
| Local Authority Pollution Prevention and Controls           | Control of Major Accident Hazards Sites (COMAH)                     |
| Local Authority Integrated Pollution Prevention And Control | Explosive Sites   |
| Integrated Pollution Controls                               | Notification of Installations Handling Hazardous Substances (NIHHS) |
| Environmental Permitting Regulations - Industry             | Planning Hazardous Substance Consents                               |
| Radioactive Substances Register                             |   |





## Authorisations

### **Local Authority Pollution Prevention and Controls**

No features identified.

### **Local Authority Integrated Pollution Prevention And Control**

No features identified.

### **Integrated Pollution Controls**

No features identified.

### **Environmental Permitting Regulations - Industry**

No features identified.

### **Radioactive Substances Register**

No features identified.



## Discharges

### **Consented Discharges to Controlled Waters**

No features identified.

### **Referrals of Red List Discharges to Sewers (Corporate Entities)**

No features identified.



## Hazardous Sites

### Control of Major Accident Hazards Sites (COMAH)

Map ID	Details	Distance	Direction	Contact
21	<b>Name:</b> Heys Group Limited (The) <b>Status:</b> Active <b>Location:</b> Essendine, Bourne Road, Stamford, Pe9 <b>COMAH Type:</b> Upper Tier	122m	E	4

### Explosive Sites

No features identified.

### Notification of Installations Handling Hazardous Substances (NIHHS)

Map ID	Details	Distance	Direction	Contact
23	<b>Name:</b> Stamford Storage Limited <b>Status:</b> Not Active <b>Location:</b> Bourne Road Near, STAMFORD, Lincolnshire, PE9 4LT	200m	E	4

### Planning Hazardous Substance Consents

Map ID	Details	Distance	Direction	Contact
22	<b>Name:</b> Stamford Storage <b>Reference:</b> Hza/1999/0877 <b>Status:</b> Withdrawn <b>Location:</b> Bourne Road, Essendine <b>Type:</b> Planning (Hazardous Substance) Regulations 1992 as amended by the Planning (COMAH) Regulations 1999 <b>Hazardous Substance:</b> Phosphorus trihydride (phosphine)	171m	E	5
22	<b>Name:</b> Stamford Storage <b>Reference:</b> Hza/2004/0898 <b>Status:</b> Deemed Consent Granted Granted <b>Location:</b> Bourne Road, Essendine <b>Type:</b> Storage of Unknown Hazardous Substances <b>Hazardous Substance:</b> Unknown at time of report	171m	E	5
22	<b>Name:</b> Stamford Storage <b>Reference:</b> Hza/1992/0536 <b>Status:</b> Deemed Consent Granted Granted <b>Location:</b> Bourne Road, Essendine, STAMFORD, Lincolnshire, PE9 4LT <b>Type:</b> Storage of Toxic Substances <b>Hazardous Substance:</b> Bromine	171m	E	5
22	<b>Name:</b> Stamford Storage <b>Reference:</b> Hza/1992/0536 <b>Status:</b> Deemed Consent Granted Granted <b>Location:</b> Meadow Park Industrial Estate, Bourne Road, Essendine, Stamford, Lincolnshire, Pe9 4lt <b>Type:</b> Storage of Toxic Substances <b>Hazardous Substance:</b> Part A, Toxic Substance, Methyl bromide (Bromoethane), where amount held is greater than or equal to 200 tonnes	171m	E	5



# Contaminated Land: Authorised Industrial Processes

Map ID	Details	Distance	Direction	Contact
22	<p><b>Name:</b> Stamford Storage <b>Reference:</b> Hza/1992/0536 <b>Status:</b> Deemed Consent Granted Granted <b>Location:</b> Bourne Road, Essendine, STAMFORD, Lincolnshire, PE9 4LT <b>Type:</b> Storage of Highly Reactive Substances and Explosive Substances <b>Hazardous Substance:</b> Ammonium nitrate and ammonium nitrate compounds (where nitrogen content is more than 28% by weight) or aqueous ammonium nitrate solutions (where concentration of ammonium nitrate is more than 90% by weight)</p>	171m	E	5



# Contaminated Land: Incidents and Enforcements



	Site		Enforcement and Prohibition Notices
	Multiple Features Present		Planning Hazardous Substance Enforcements
	Contaminated Land Register Entries and Notices		Environmental Pollution Incidents
	Local Authority Pollution Prevention and Control Enforcements		Prosecutions (Post 2000)



## Contraventions

### **Contaminated Land Register Entries and Notices**

No features identified.

### **Local Authority Pollution Prevention and Control Enforcements**

No features identified.

### **Enforcement and Prohibition Notices**

No features identified.

### **Planning Hazardous Substance Enforcements**

No features identified.

### **Environmental Pollution Incidents**

No features identified.

### **Prosecutions (Post 2000)**

No features identified.



# Contaminated Land: Landfill and Waste



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	Site			Local Authority Recorded Landfill Sites
	Multiple Features Present			Registered Landfill Sites
				Registered Waste Transfer Sites
				Registered Waste Treatment or Disposal Sites
				Historic Landfill



# Contaminated Land: Landfill and Waste

## Landfill and Waste

### BGS Recorded Landfill Sites

Map ID	Details	Distance	Direction	Contact
17	Name: Caseby Rd Reference: 217 Location: Caseby, STAMFORD, Lincs Ground Water: Threat to ground water Surface Water: No threat to surface water	16m	NW	8

### Integrated Pollution Control Registered Waste Sites

No features identified.

### Permitted Waste Sites - Authorised Landfill Site Boundaries

No features identified.

### Environmental Permitting Regulations - Waste Sites

No features identified.

### Local Authority Recorded Landfill Sites

Map ID	Details	Distance	Direction	Contact
14	Last Reported Status: Unknown Reference: Not Supplied Location: Not Supplied Waste Text: Not Supplied Date of Closure: Not Supplied	14m	NW	7
15	Last Reported Status: Unknown Reference: Not Supplied Location: Not Supplied Waste Text: Not Supplied Date of Closure: Not Supplied	15m	N	7
18	Last Reported Status: Closed Reference: 11 Location: Careby Rd, Carlby Waste Text: Domestic, Trade Date of Closure: Post 1972	16m	NW	6
20	Last Reported Status: Closed Reference: 12 Location: Pickworth Rd, Carlby Waste Text: Domestic Date of Closure: 1975	17m	N	6

### Registered Landfill Sites

No features identified.

### Registered Waste Transfer Sites

No features identified.

### Registered Waste Treatment or Disposal Sites

No features identified.





# Contaminated Land: Landfill and Waste

## Historic Landfill

Map ID	Details	Distance	Direction	Contact
16	<p><b>Date of Issue:</b></p> <p><b>Last Input Date:</b> 31st December 1972</p> <p><b>Name:</b> Careby Road</p> <p><b>Reference:</b> EAHLD00283</p> <p><b>Location:</b> Carlby, Lincolnshire</p> <p><b>Specified Waste Type:</b> Deposited Waste included Commercial and Household Waste</p> <p><b>First Input Date:</b> 31st December 1946</p>	15m	NW	3
19	<p><b>Date of Issue:</b></p> <p><b>Last Input Date:</b> 31st December 1975</p> <p><b>Name:</b> Careby Road</p> <p><b>Reference:</b> EAHLD00284</p> <p><b>Location:</b> Pickworth Road, Carlby</p> <p><b>Specified Waste Type:</b> Deposited Waste included Household Waste</p> <p><b>First Input Date:</b> 31st December 1965</p>	16m	N	3



# Contaminated Land: Current Land Uses



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Site



Multiple Features Present



Contemporary Trade Directory Entries



Fuel Station Entries



# Contaminated Land: Current Land Uses

---

## Current Potentially Contaminative Uses

### Contemporary Trade Directory Entries

No features identified.

### Fuel Station Entries

No features identified.



# Contaminated Land: Historical Land Uses



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- |  |   |  |                                       |
|--|---|--|---------------------------------------|
|  | Site  |  | Former Marshes                        |
|  | Multiple Features Present                                 |  | Potentially Infilled Land (Non-Water) |
|  | Historical Tanks And Energy Facilities                    |  | Potentially Infilled Land (Water)     |
|  | Potentially Contaminative Industrial Uses (Past Land Use) |  |                                       |



# Contaminated Land: Historical Land Uses

## Historical Potentially Contaminative Uses

### Historical Tanks And Energy Facilities

No features identified.

### Potentially Contaminative Industrial Uses (Past Land Use)

Map ID	Details	Distance	Direction	Contact
1	Class: General quarrying Map Published Date: 1891-1959	10m	NW	1
2	Class: General quarrying Map Published Date: 1891	14m	N	1
4	Class: Railways Map Published Date: 1891-1958	19m	NE	1
5	Class: Railways Map Published Date: 1983	19m	NE	1
6	Class: General quarrying Map Published Date: 1891	22m	NE	1
7	Class: Quarrying of sand & clay, operation of sand & gravel pits Map Published Date: 1891	32m	NE	1
9	Class: Quarrying of sand & clay, operation of sand & gravel pits Map Published Date: 1891	51m	N	1
10	Class: Railways Map Published Date: 1892-1958	52m	E	1
11	Class: Railways Map Published Date: 1892-1983	63m	SE	1
12	Class: Factory or works - use not specified Map Published Date: 1983	78m	E	1
13	Class: Factory or works - use not specified Map Published Date: 1983	97m	E	1



# Contaminated Land: Historical Land Uses

## Potentially Infilled Land

### Former Marshes

No features identified.

### Potentially Infilled Land (Non-Water)

Map ID	Details	Distance	Direction	Contact
3	Details: Unknown Filled Ground (Pit, quarry etc) Map Published Date: 1983	15m	NW	1
8	Details: Unknown Filled Ground (Pit, quarry etc) Map Published Date: 1983	32m	NE	1

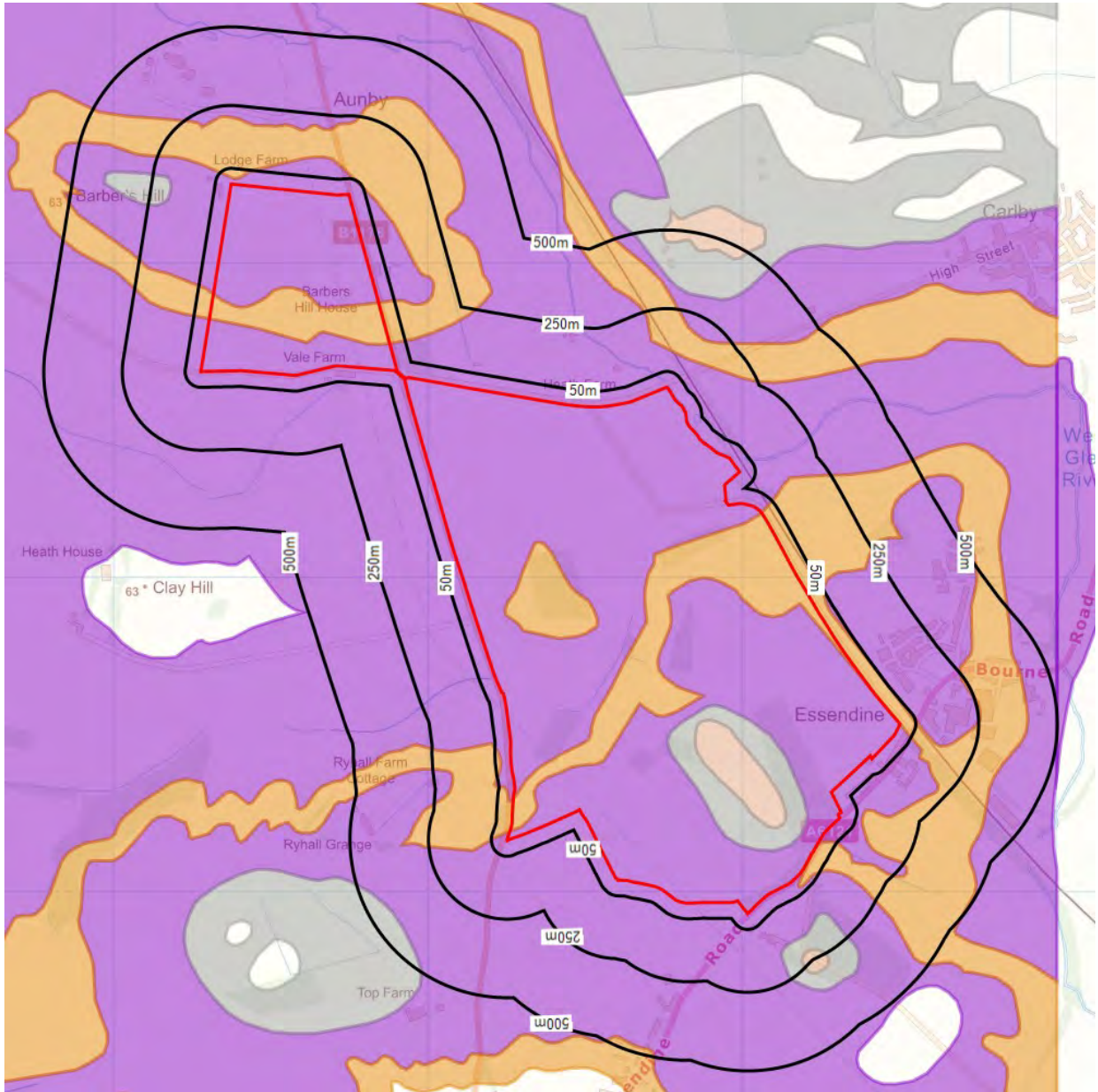
### Potentially Infilled Land (Water)

No features identified.



# Contaminated Land: Groundwater Vulnerability

## Bedrock



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Site



Principal Aquifer



Secondary Aquifer A



Secondary Aquifer B



Secondary Aquifer Undifferentiated



Unproductive Strata

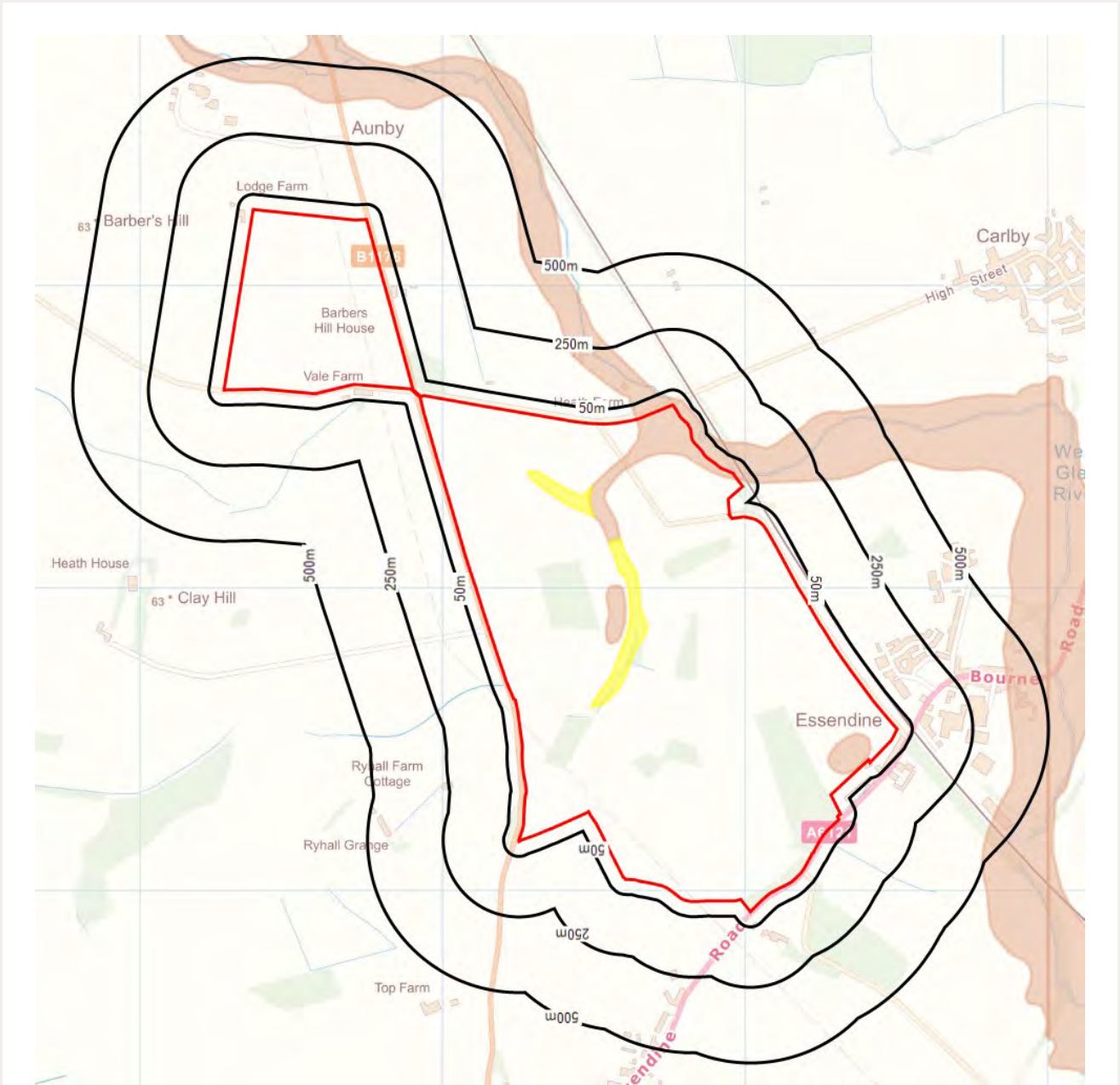


Unknown

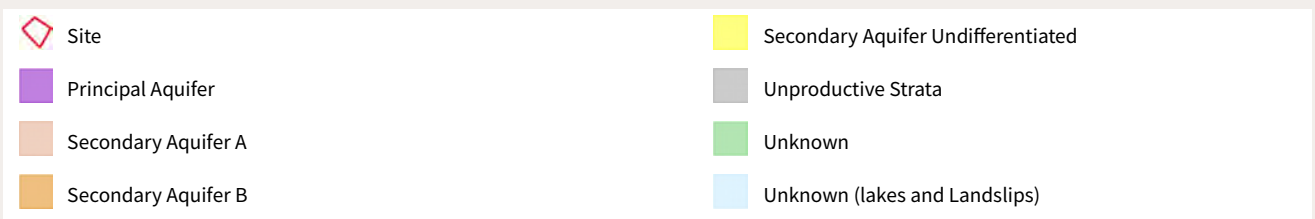


# Contaminated Land: Groundwater Vulnerability

## Superficial



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## Hydrogeology

### Bedrock Aquifer Designations

Details	Distance	Direction	Contact
Aquifer Designation: Secondary Aquifer - B	0m	E	9
Aquifer Designation: Unproductive Strata	0m	SE	9
Aquifer Designation: Principal Aquifer	0m	NW	9
Aquifer Designation: Secondary Aquifer - A	0m	SE	9

### Superficial Aquifer Designations

Details	Distance	Direction	Contact
Aquifer Designation: Secondary Aquifer - A	0m	SE	9
Aquifer Designation: Secondary Aquifer - Undifferentiated	0m	E	9



## Geology

### BGS 1:50,000 Bedrock Geology

Details	Distance	Direction	Contact
<b>Lex Code:</b> RLD <b>Rock Name:</b> Rutland Formation <b>Rock Type:</b> Argillaceous Rocks with Subordinate Sandstone and Limestone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bajocian	0m	SW	10
<b>Lex Code:</b> BWC <b>Rock Name:</b> Blisworth Clay Formation <b>Rock Type:</b> Mudstone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bathonian	0m	SE	10
<b>Lex Code:</b> CB <b>Rock Name:</b> Cornbrash Formation <b>Rock Type:</b> Limestone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bathonian	0m	SE	10
<b>Lex Code:</b> BWL <b>Rock Name:</b> Blisworth Limestone Formation <b>Rock Type:</b> Limestone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bathonian	0m	E	10
<b>Lex Code:</b> RLD <b>Rock Name:</b> Rutland Formation <b>Rock Type:</b> Argillaceous Rocks with Subordinate Sandstone and Limestone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bajocian	0m	E	10
<b>Lex Code:</b> LLL <b>Rock Name:</b> Lower Lincolnshire Limestone Member <b>Rock Type:</b> Limestone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bajocian	0m	NW	10
<b>Lex Code:</b> RLD <b>Rock Name:</b> Rutland Formation <b>Rock Type:</b> Argillaceous Rocks with Subordinate Sandstone and Limestone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bajocian	0m	NW	10
<b>Lex Code:</b> BWL <b>Rock Name:</b> Blisworth Limestone Formation <b>Rock Type:</b> Limestone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bathonian	0m	NW	10
<b>Lex Code:</b> ULL <b>Rock Name:</b> Upper Lincolnshire Limestone Member <b>Rock Type:</b> Limestone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bajocian	0m	N	10

### BGS 1:50,000 Superficial Deposits

Details	Distance	Direction	Contact
<b>Lex Code:</b> HEAD <b>Rock Name:</b> Head	0m	N	10



# Contaminated Land: Geology

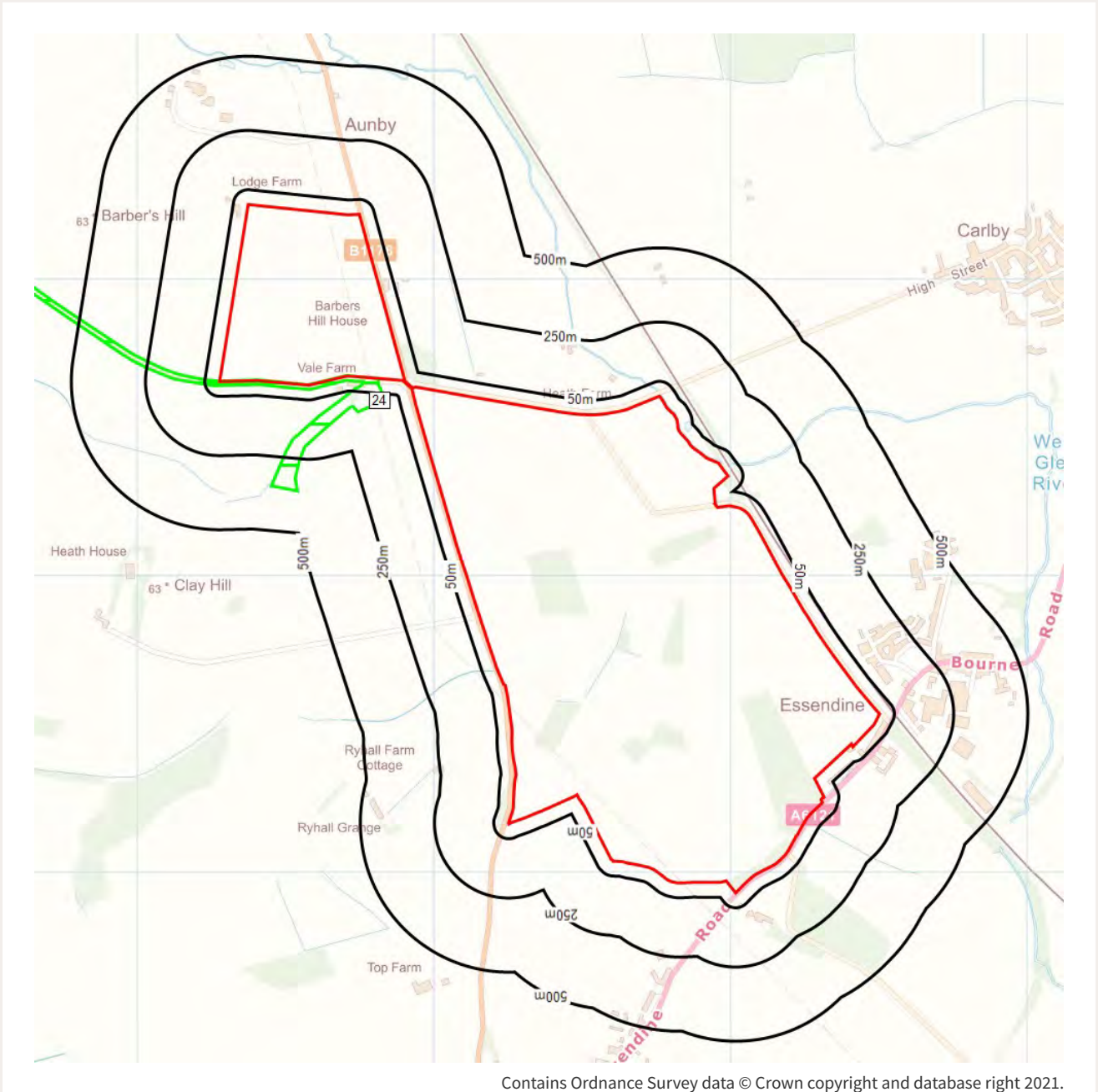
Details	Distance	Direction	Contact
<b>Lex Code:</b> ALV <b>Rock Name:</b> Alluvium <b>Rock Type:</b> Clay, Silt, Sand and Gravel <b>Min Age:</b> Not Supplied <b>Max Age:</b> Holocene	0m	NE	10
<b>Lex Code:</b> RTD1 <b>Rock Name:</b> River Terrace Deposits, 1 <b>Rock Type:</b> Sand and Gravel <b>Min Age:</b> Not Supplied <b>Max Age:</b> Quaternary	0m	N	10
<b>Lex Code:</b> HEAD <b>Rock Name:</b> Head <b>Rock Type:</b> Clay, Silt, Sand and Gravel <b>Min Age:</b> Not Supplied <b>Max Age:</b> Quaternary	0m	E	10
<b>Lex Code:</b> GFDMP <b>Rock Name:</b> Glaciofluvial Deposits, Mid Pleistocene <b>Rock Type:</b> Sand and Gravel <b>Min Age:</b> Not Supplied <b>Max Age:</b> Cromerian	0m	E	10
<b>Lex Code:</b> RTD1 <b>Rock Name:</b> River Terrace Deposits, 1 <b>Rock Type:</b> Sand and Gravel <b>Min Age:</b> Not Supplied <b>Max Age:</b> Quaternary	0m	NE	10
<b>Lex Code:</b> GFDMP <b>Rock Name:</b> Glaciofluvial Deposits, Mid Pleistocene <b>Rock Type:</b> Sand and Gravel <b>Min Age:</b> Not Supplied <b>Max Age:</b> Cromerian	0m	SE	10

## BGS 1:50,000 Geological Mapping Coverage

Details	Distance	Direction	Contact
<b>Map Sheet No:</b> 157 <b>Map Name:</b> Stamford <b>Bedrock Geology:</b> Available <b>Superficial Geology:</b> Available	0m	N	10



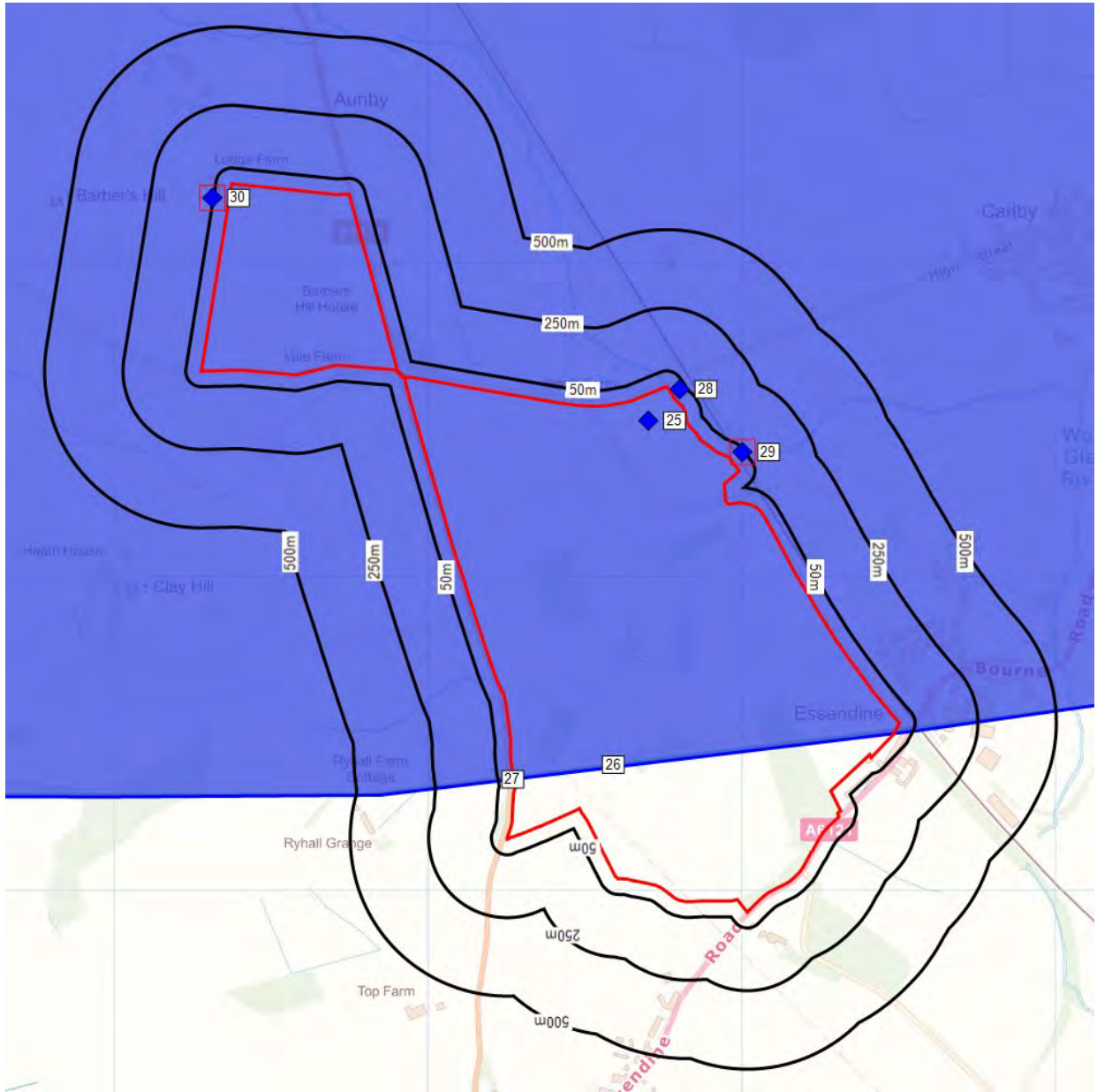
# Contaminated Land: Environmental Sensitivity



Site	Local Nature Reserves	RAMSAR Sites
Multiple Features Present	Marine Nature Reserves	Sites of Special Scientific Interest
Areas of Outstanding Natural Beauty	National Nature Reserves	Special Areas of Conservation
Environmentally Sensitive Areas	National Parks	Special Protection Areas
Forest Parks	National Scenic Areas	



# Contaminated Land: Source Protection Zones



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- |                           |                           |
|---------------------------|---------------------------|
| Site                      | Outer Zone (Zone 2c)      |
| Multiple Features Present | Total Catchment (Zone 3)  |
| Inner Zone (zone 1)       | Total Catchment (Zone 3c) |
| Inner Zone (zone 1c)      | Special Interest (Zone 4) |
| Outer Zone (Zone 2)       | Water Abstractions        |



## Environmental Sensitivity

### Areas of Outstanding Natural Beauty

No features identified.

### Environmentally Sensitive Areas

No features identified.

### Forest Parks

No features identified.

### Local Nature Reserves

No features identified.

### Marine Conservation Zones

No features identified.

### National Nature Reserves

No features identified.

### National Parks

No features identified.

### Ramsar Sites

No features identified.

### Sites of Special Scientific Interest

Map ID	Details	Distance	Direction	Contact
24	Name: Ryhall Pasture And Little Warren Verges Reference: 1004094 Total Area: 62420.36m <sup>2</sup>	0m	NW	11

### Special Areas of Conservation

No features identified.

### Special Protection Areas

No features identified.

### Water Abstractions

Map ID	Details	Distance	Direction	Contact
25	Abstraction Source: Stream Abstraction Type: Abstractions Agricultural Reference:	0m	N	3
28	Abstraction Source: Stream Abstraction Type: Abstractions Agricultural Reference:	30m	NE	3



# Contaminated Land: Environmental Sensitivity

Map ID	Details	Distance	Direction	Contact
29	<b>Abstraction Source:</b> Surface <b>Abstraction Type:</b> Abstractions Agricultural <b>Reference:</b>	45m	NE	3
29	<b>Abstraction Source:</b> Stream <b>Abstraction Type:</b> Abstractions Agricultural <b>Reference:</b>	42m	NE	3
30	<b>Abstraction Source:</b> Groundwater <b>Abstraction Type:</b> Abstractions Agricultural <b>Reference:</b>	54m	NW	3
30	<b>Abstraction Source:</b> Groundwater <b>Abstraction Type:</b> Abstractions Agricultural <b>Reference:</b>	62m	NW	3

## Source Protection Zones

Map ID	Details	Distance	Direction	Contact
26	<b>Name:</b> Not Supplied <b>Reference:</b> Not Supplied <b>Type:</b> Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	0m	N	3
27	<b>Name:</b> Not Supplied <b>Reference:</b> Not Supplied <b>Type:</b> Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	0m	N	3

# Flood Risk

## Data Section



**Flood Risk Data:** This section details the data used as part of our Flood Risk analysis. Each key source of flooding has the data mapped with the detail outlined beneath. All relevant data in this section has been reviewed by the report writer and taken into account in the overall analysis. As a result, the individual risks in the data below may vary from our overall opinion.

# contents

<b>Tabular Summary</b>	This section gives an overview of the data at the Site and in the surrounding area. We present the data in three buffer zones, extending to a maximum of 500m. Where we have not been able to search a database, we will display the abbreviation N/A instead.
<b>River and Coastal Flooding</b>	The data used to form our river and coastal flood risk analysis includes: <ul style="list-style-type: none"><li>• <b>Flood Zones:</b> Created for land-use planning, Flood Zones map the likelihood of flooding assuming no defences are present, fail or are over-topped. This data is presented as FZ1, FZ2 or FZ3.</li><li>• <b>Risk of Flooding from Rivers and Seas (RoFRS):</b> Provides an indication of flood risk taking into account the presence of defences and the level of protection they offer.</li><li>• <b>Flood Defences:</b> Recorded by the regulatory body, and includes defence type and standard of protection.</li><li>• <b>Areas Benefiting from Flood Defences:</b> Areas defined as having protection of at least 1 in 100 for river and 1 in 200 for coastal.</li><li>• <b>Flood Storage Areas:</b> Areas that store floodwater during flood events.</li></ul>
<b>Surface Water Flooding</b>	We present the risk of surface water flooding in three separate return periods: <ul style="list-style-type: none"><li>• 1:75</li><li>• 1:200</li><li>• 1:1000</li></ul> Each map will show the likely flood depth bandings within each of these return periods.
<b>Groundwater Flooding</b>	The data takes into account the two key mechanisms of groundwater flooding; clearwater and permeable superficial deposits.
<b>Other Factors</b>	This section accounts for risk that is not tied to modelled data. It includes historical floods, proximity to water features and elevation above both of these features.





# Flood Risk: Tabular Summary

## Flooding

<b>River and Coastal Flooding</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Flooding from Rivers or Sea without Defences (Flood Zone 3)	Yes	Yes	Yes
Extreme Flooding from Rivers or Sea without Defences (Flood Zone 2)	Yes	Yes	Yes
Areas Benefitting from Flood Defences	No	No	No
Spatial Flood Defences (with attributes)	Yes	Yes	Yes
Risk of Flooding from Rivers and Sea (RoFRS)	Yes	Yes	Yes

<b>Surface Water Flooding</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
JBA Pluvial 75 Depths	Yes	Yes	Yes
JBA Pluvial 200 Depths	Yes	Yes	Yes
JBA Pluvial 1000 Depths	Yes	Yes	Yes

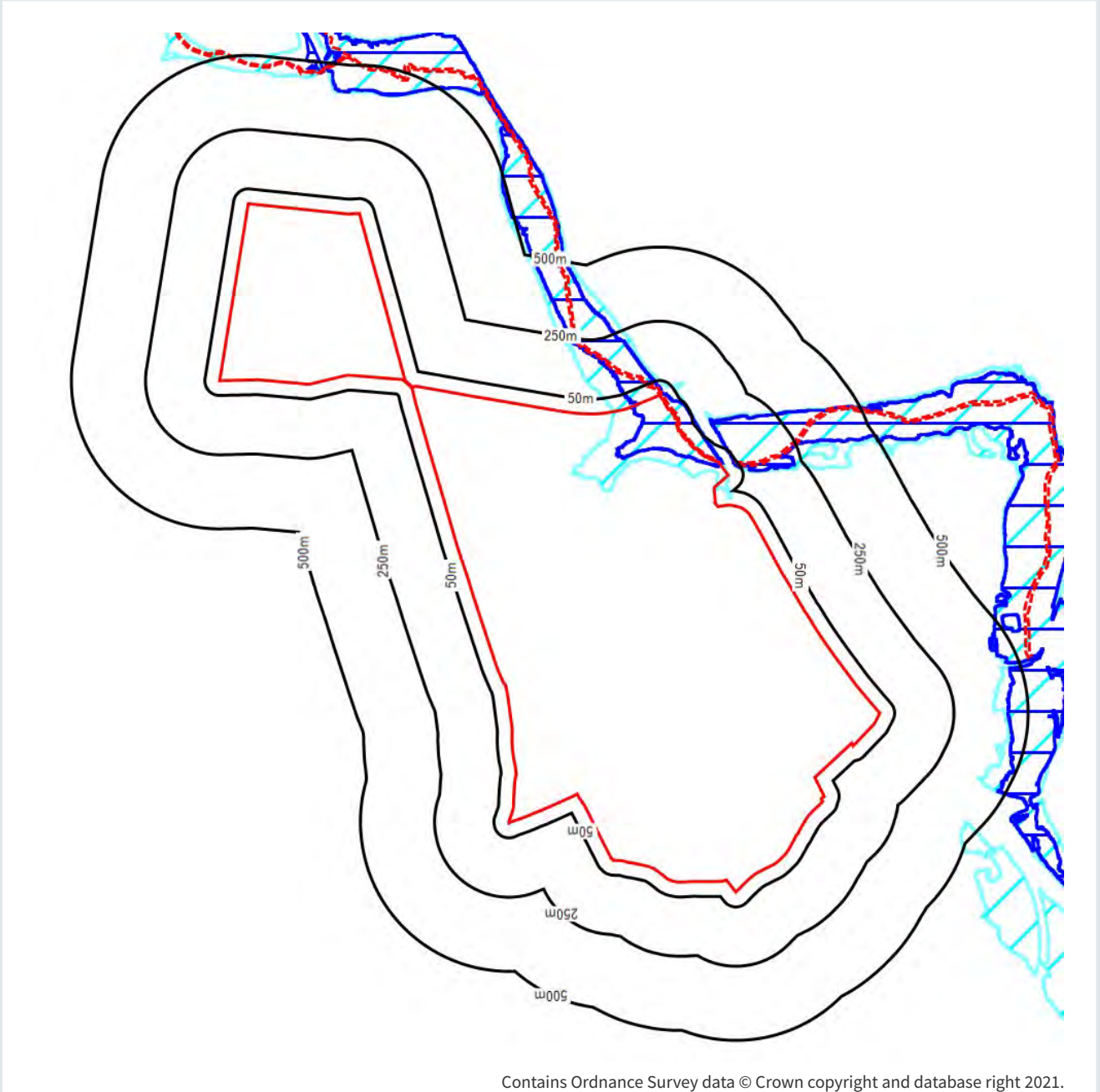
<b>Groundwater Flooding</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Groundwater Flood Risk 5m	Yes	Yes	Yes

<b>Other Factors</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Flood Storage Areas	No	No	No
Recorded Flood Outlines	No	No	No
OS VectorMap District - Water Features	No	No	No
OS MasterMap Water Network	Yes	Yes	Yes



# Flood Risk: River and Coastal (map 1)



◇ Site

▨ Flood Zone 3

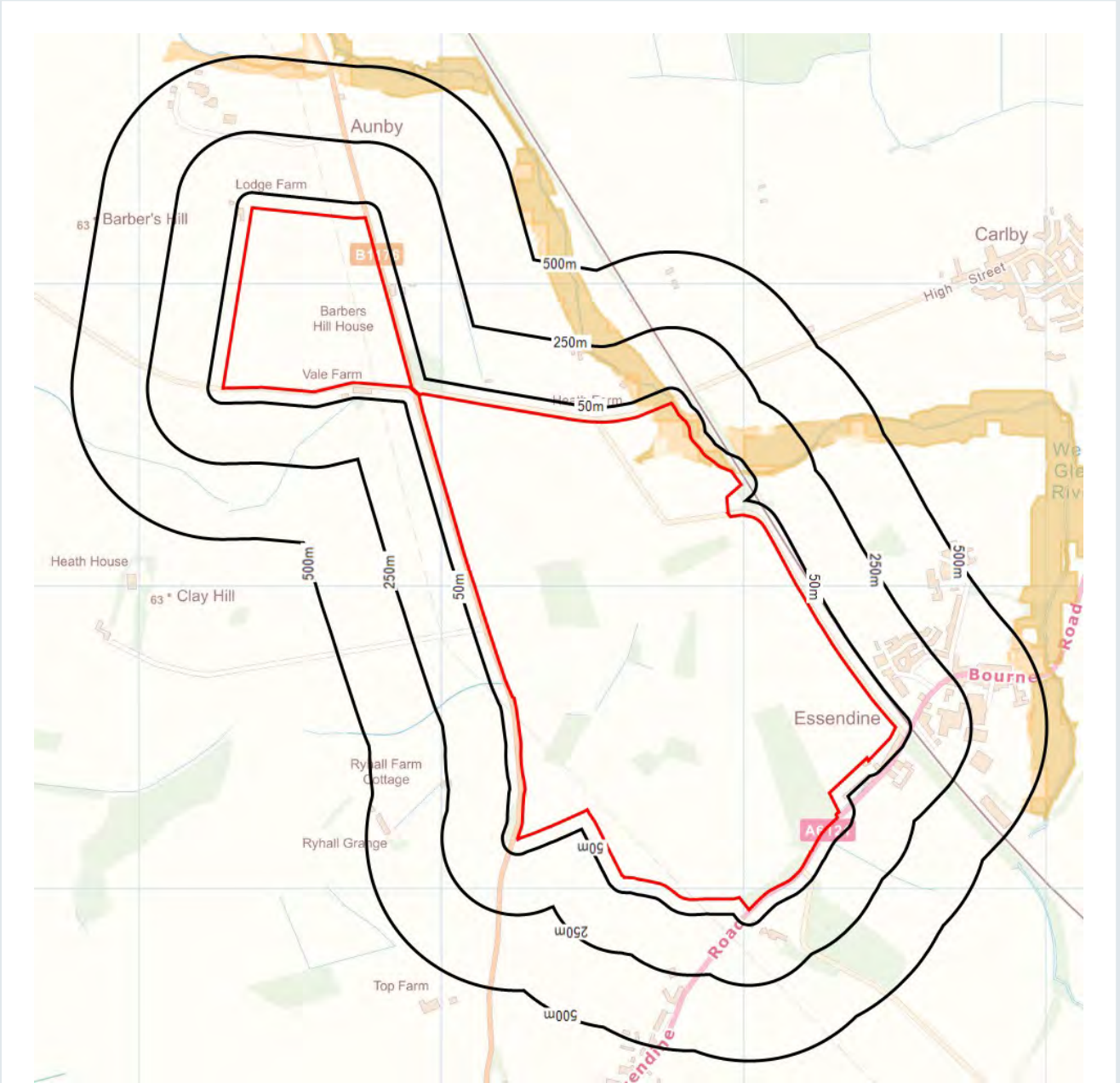
⋯ Flood Defences

▨ Flood Zone 2

■ Areas Benefiting from Flood Defences



# Flood Risk: River and Coastal (map 2)



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RoFRS - Very Low

RoFRS - Low

RoFRS - Medium

RoFRS - High



# Flood Risk: River and Coastal

## Flooding from Rivers or Sea without Defences (Flood Zone 3)

Details	Distance	Direction	Contact
Environment Agency	0m	N	3

## Extreme Flooding from Rivers or Sea without Defences (Flood Zone 2)

Details	Distance	Direction	Contact
Environment Agency	0m	N	3

## Areas Benefitting from Flood Defences

No features identified.

## Spatial Flood Defences (with attributes)

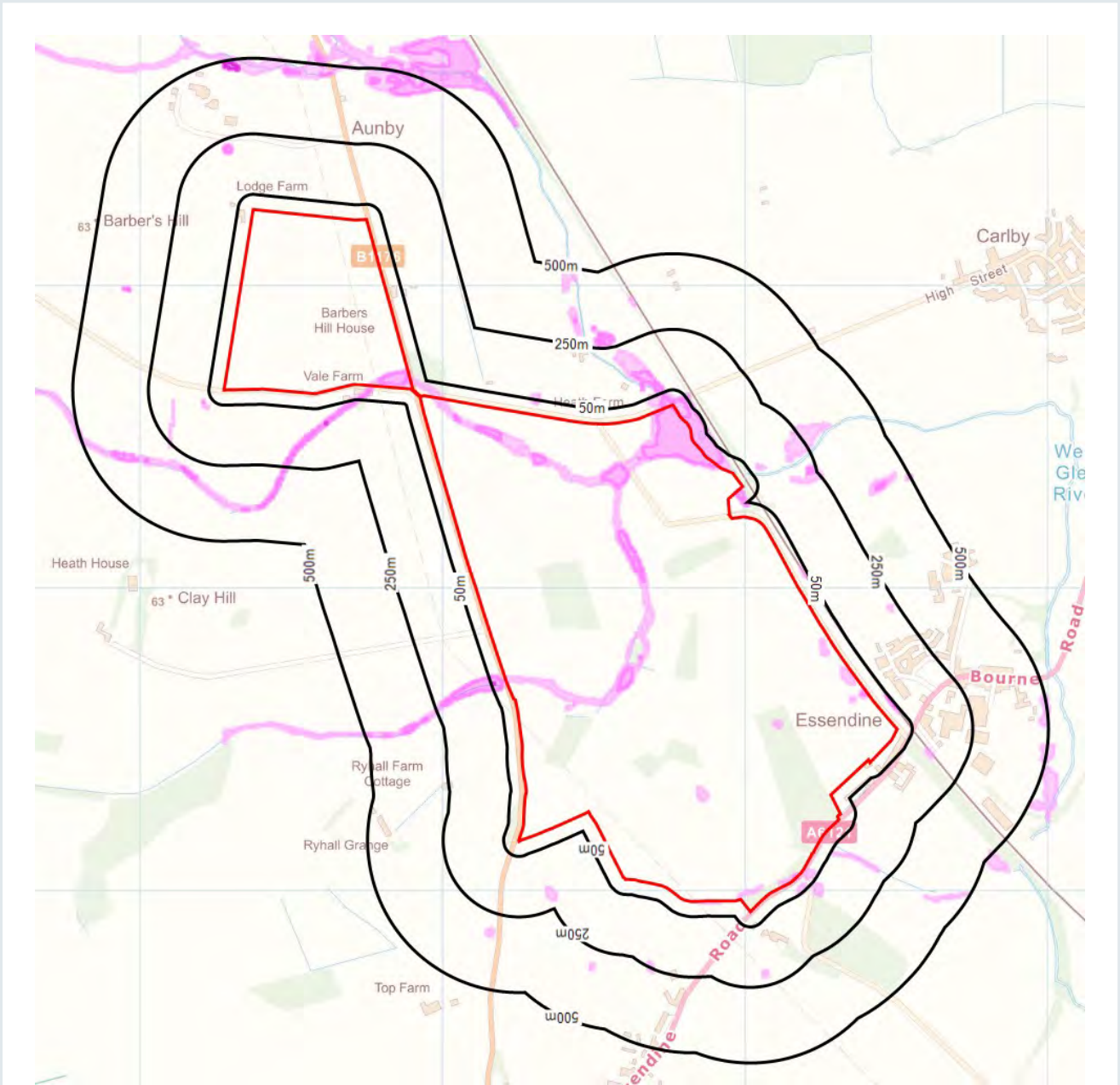
Details	Distance	Direction	Contact
Environment Agency	0m	NE	3

## Risk of Flooding from Rivers and Sea (RoFRS)

Details	Distance	Direction	Contact
Risk: Low	0m	N	3
Risk: Medium	0m	NE	3
Risk: High	0m	N	3





# Flood Risk: Surface Water (1:75 year event)




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 Site

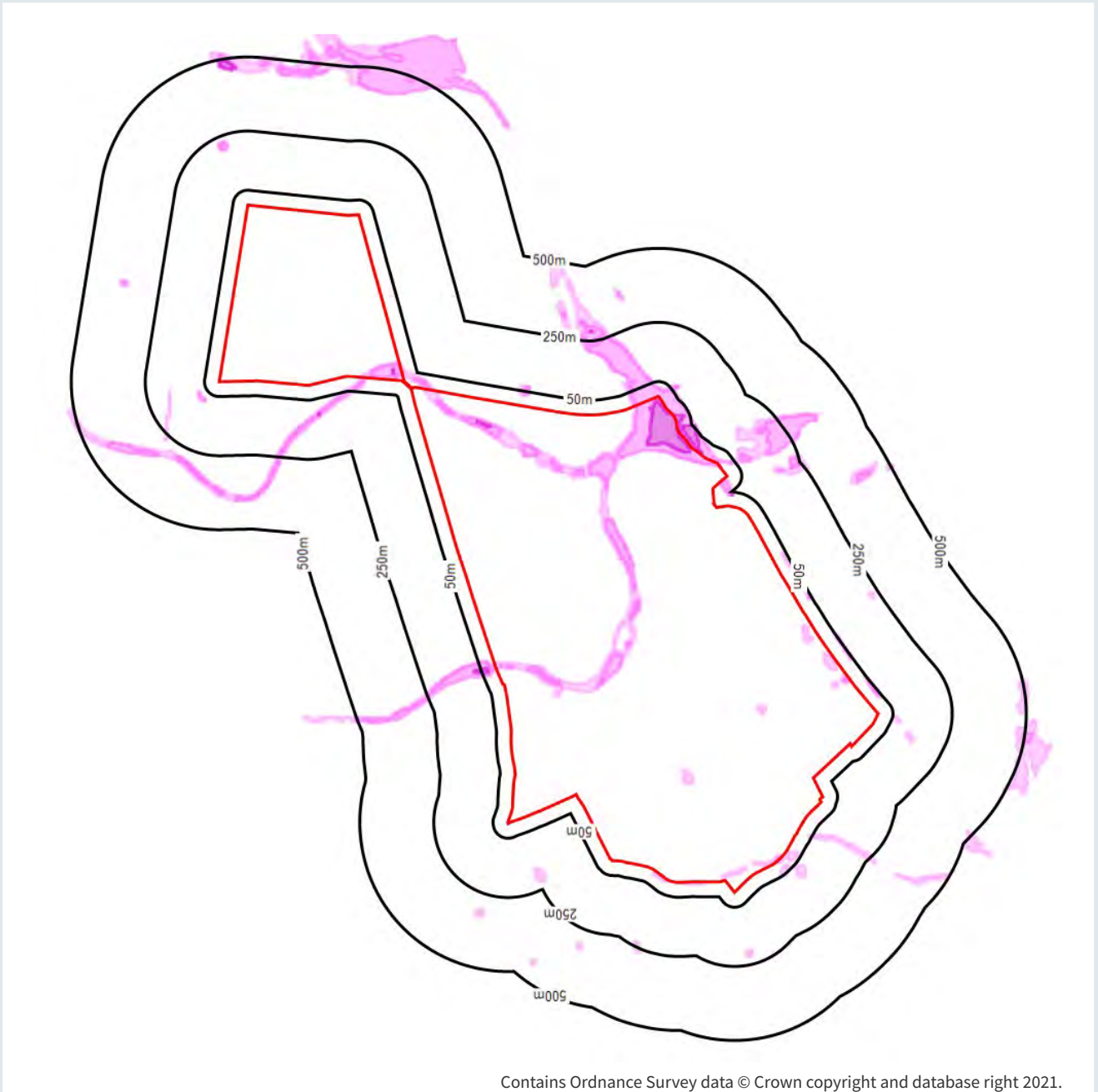
 10cm – 30cm depth

 30cm – 1m depth


 1m + depth





# Flood Risk: Surface Water (1:200 year event)



 Site

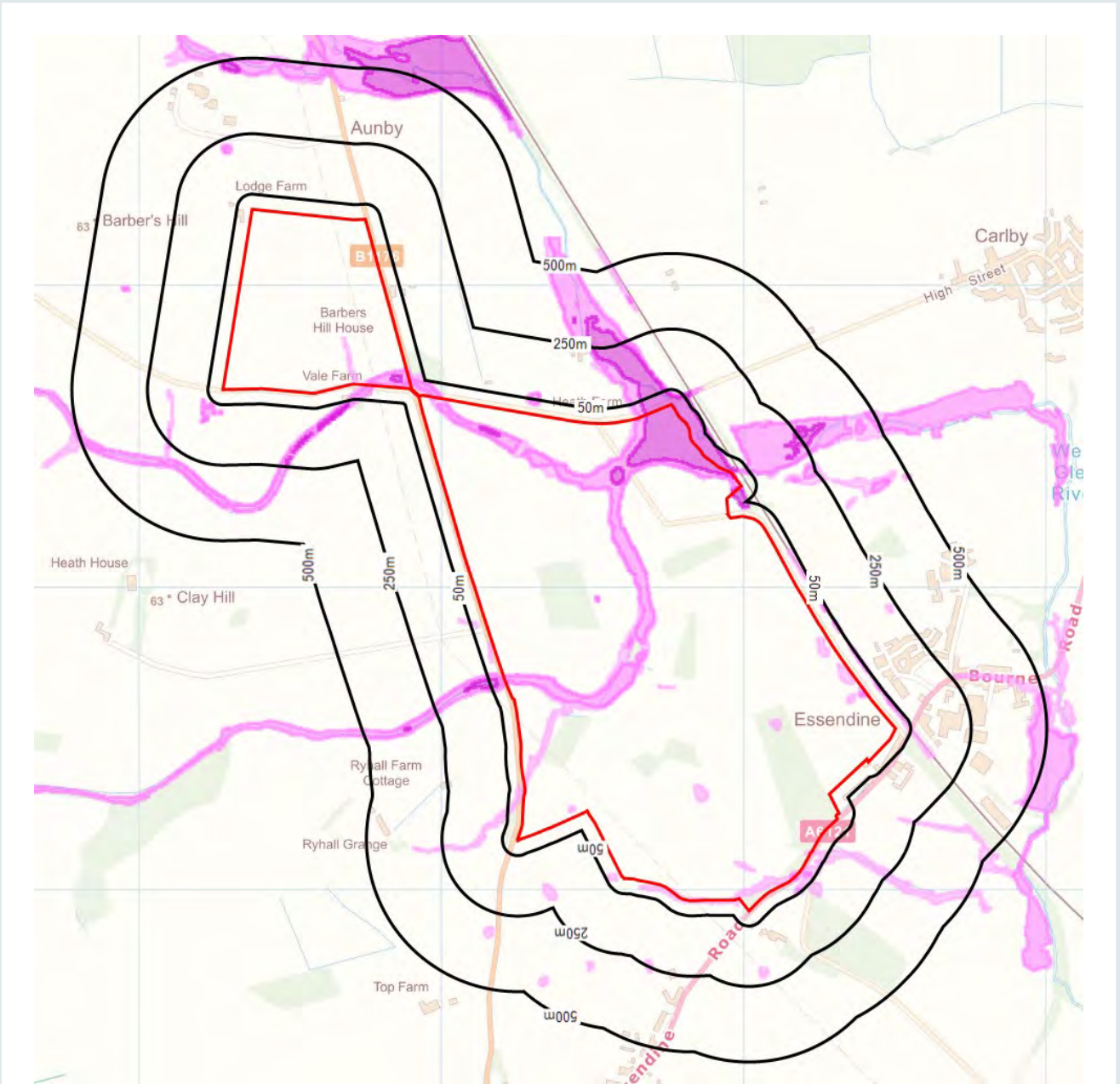
 10cm - 30cm depth

 30cm - 1m depth

 1m + depth





# Flood Risk: Surface Water (1:1000 year event)




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 Site

 10cm – 30cm depth

 30cm – 1m depth

 1m + depth



# Flood Risk: Surface Water

## JBA Pluvial 75 Depths

Details	Distance	Direction	Contact
Type: Greater than 0.3m and Less than or equal to 1.0m	0m	E	1
Type: Greater than 0.1m and Less than or equal to 0.3m	0m	SE	1
Type: Greater than 1.0m	38m	SW	1

## JBA Pluvial 200 Depths

Details	Distance	Direction	Contact
Type: Greater than 0.1m and Less than or equal to 0.3m	0m	NW	1
Type: Greater than 0.3m and Less than or equal to 1.0m	0m	NW	1
Type: Greater than 1.0m	0m	NW	1
Type: Equal to 0.1m	124m	NE	1

## JBA Pluvial 1000 Depths

Details	Distance	Direction	Contact
Type: Greater than 0.3m and Less than or equal to 1.0m	0m	E	1
Type: Greater than 0.1m and Less than or equal to 0.3m	0m	E	1
Type: Greater than 1.0m	0m	NE	1

Flood data provided by JBA Risk Management Limited. © Copyright JBA Risk Management Limited 2008-2021





# Flood Risk: Groundwater



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High Risk

Moderate Risk

Low Risk

Negligible Risk



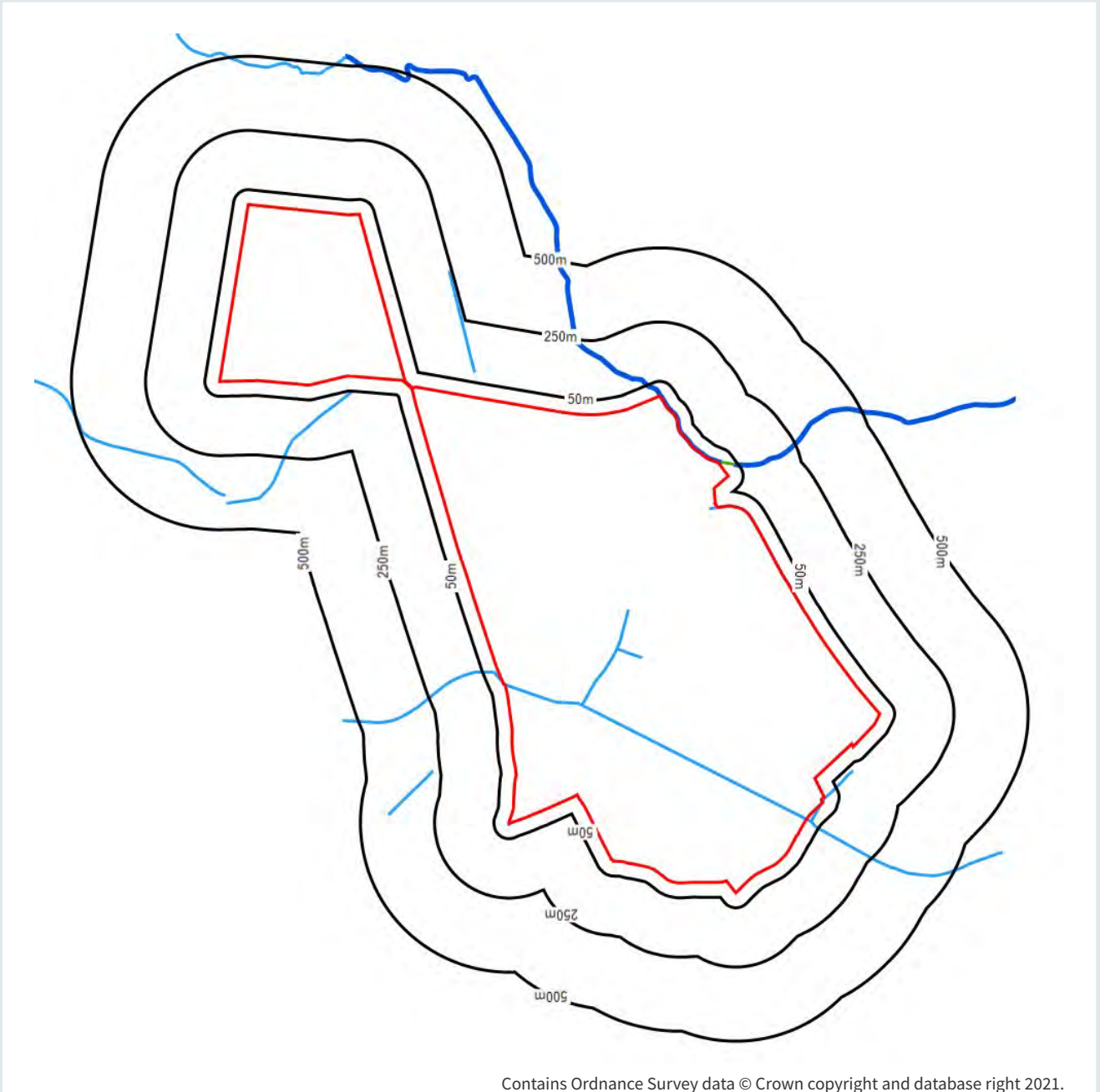
# Flood Risk: Groundwater

## Groundwater Flood Risk 5m

Details	Distance	Direction	Contact
Type: Low	0m	SW	1
Type: Negligible	0m	N	1
Type: Moderate	131m	NW	1
Type: High	406m	SE	1



# Flood Risk: Other



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- Site
- Water Feature
- Flood Storage Areas
- Recorded Flood Outlines
- Primary Flow (named)
- Primary Flow (un-named)
- Secondary Flow
- Tidal River
- Lake or Reservoir
- Forshore and Sea
- Underground River
- Marsh
- Canal, Lock or Transfer



# Flood Risk: Other

## Flood Storage Areas

No features identified.

## Recorded Flood Outlines

No features identified.

## OS VectorMap District - Water Features

No features identified.

## OS MasterMap Water Network

Details	Distance	Direction	Contact
Name: Type: Primary Flow (un-named)	0m	S	2
Name: West Glen River Type: Primary Flow (named)	2m	NE	2
Name: West Glen River Type: Underground River	10m	NE	2

# Agricultural Considerations

## Data Section



**Agricultural Data:** This section presents data relating to designated features and land classifications that could be of relevance to the Site.

# contents

## Tabular Summary

This section gives an overview of the data found at the Site and in the surrounding area. We present the data to a maximum of 100m. We display the number of records found in each database under the relevant heading. Where we have not been able to search a database, we will display the abbreviation N/A instead.

---

## Land classifications

- **Environmental Stewardship Schemes:** The Environmental Stewardship Scheme aims to secure widespread environmental benefits (including improved water quality and reduced soil erosion) through financial incentives.
- **Agricultural Land Classifications:** The classification system is broken down into categories according to the extent to which physical or chemical characteristics (such as climatic conditions and soil chemistry) cause limitations on food production.
- **Countryside Stewardship Schemes:** The Countryside Stewardship provides financial incentives for farmers and land managers to maintain and improve the environment. Examples include conserving and restoring wildlife habitat, flood risk management and woodland creation.
- **Open access land:** Under the Countryside and Rights of Way Act 2000, people can access land across England and Wales without having to use paths, known as 'open access land'.

---

## Sites of interest

- **Listed buildings:** Listed buildings are considered to be of special architectural or historic interest and require planning consideration.
- **Ancient woodland:** Ancient woodland is defined as an area that has been wooded continuously since at least 1600 AD and require planning consideration.
- **Scheduled monuments:** Scheduled monuments are considered to be of national importance and require planning consideration.



# Agricultural Considerations: Tabular Summary

## Land Classifications

### Environmental Stewardship Schemes

	On-site	1-250m	251-500m
Environmental Stewardship Scheme Agreements*	4	11	N/A

### Agricultural Land Classifications

	On-site	1-250m	251-500m
Nitrate Vulnerable Zones*	2	0	N/A

Provisional Agricultural Land Classifications*	2	0	N/A
--	---	---	-----

Post 1988 Agricultural Land Classifications *	0	0	N/A
---	---	---	-----

### Countryside Stewardship Schemes

	On-site	1-250m	251-500m
Countryside Stewardship Scheme Management Areas*	0	0	N/A

### Open access land

	On-site	1-250m	251-500m
Open Access Land*	0	0	N/A

## Sites of interest

### Listed buildings

	On-site	1-250m	251-500m
Listed Buildings*	0	0	N/A

### Ancient woodland

	On-site	1-250m	251-500m
Ancient Woodland*	0	0	N/A

### Scheduled monuments

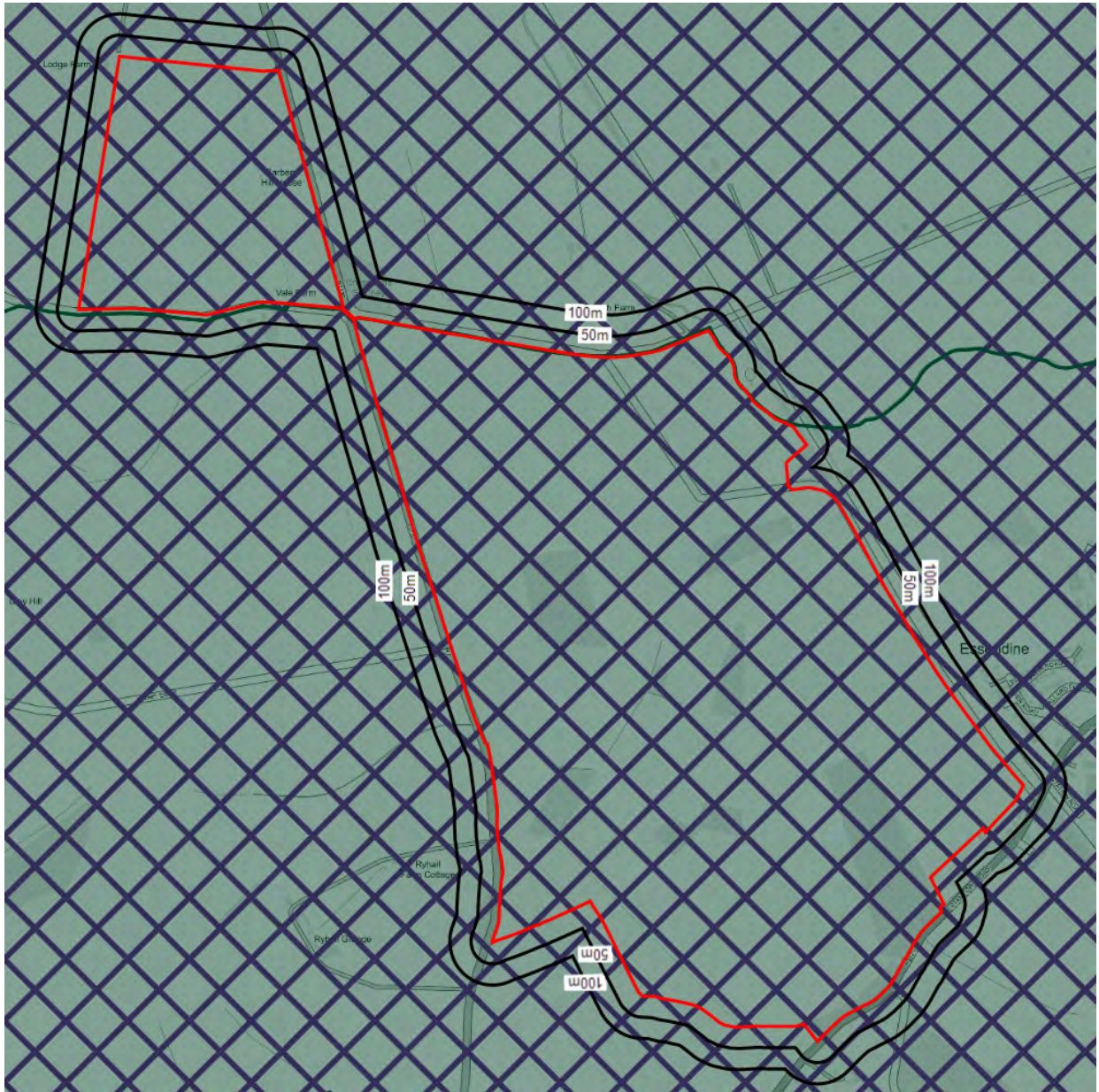
	On-site	1-250m	251-500m
Scheduled Monuments*	0	0	N/A

\*dataset searched to 100m

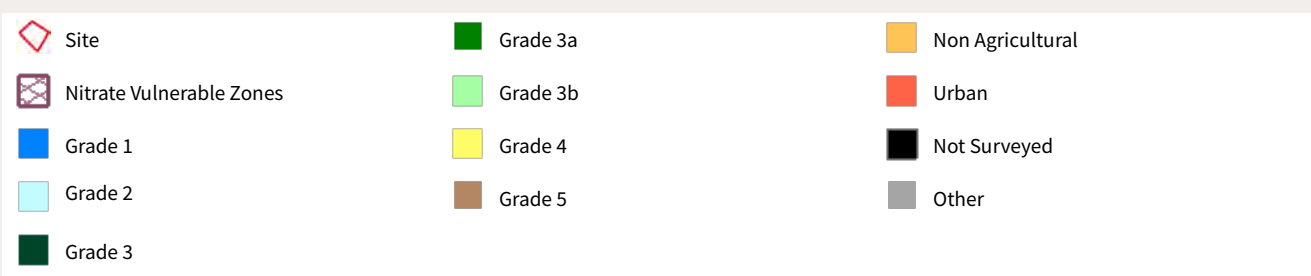




## Agricultural Land Classifications



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## Countryside Stewardship Schemes



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- |                     |                         |
|---------------------|-------------------------|
| Site                | Hedges and Boundaries   |
| High Tier Element   | Implementation Plan     |
| Middle Tier Element | Woodland Creation Grant |



## Open access land



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Site



Open access land



## Environmental Stewardship Schemes

### Environmental Stewardship Scheme Agreements

Details	Distance	Direction	Contact
<b>Agreement Type:</b> Entry Level Plus Higher Level <b>Area under agreement:</b> 182.59 <b>Start date:</b> 1st December 2009 <b>Expiry date:</b> 30th November 2019 <b>Name:</b> Machin, P J & J R <b>Town:</b> Stamford <b>County:</b> Lincolnshire <b>Provider:</b> Natural England <b>Provider reference:</b> AG00295731	0m	NW	11
<b>Agreement Type:</b> Entry Level Plus Higher Level <b>Area under agreement:</b> 479.36 <b>Start date:</b> 1st February 2010 <b>Expiry date:</b> 31st January 2020 <b>Name:</b> He Parkinson <b>Town:</b> Stamford <b>County:</b> Leicestershire <b>Provider:</b> Natural England <b>Provider reference:</b> AG00300095	0m	NW	11
<b>Agreement Type:</b> Entry Level Plus Higher Level <b>Area under agreement:</b> 479.36 <b>Start date:</b> 1st February 2010 <b>Expiry date:</b> 31st January 2020 <b>Name:</b> He Parkinson <b>Town:</b> Stamford <b>County:</b> Leicestershire <b>Provider:</b> Natural England <b>Provider reference:</b> AG00300095	0m	N	11
<b>Agreement Type:</b> Entry Level Plus Higher Level <b>Area under agreement:</b> 479.36 <b>Start date:</b> 1st February 2010 <b>Expiry date:</b> 31st January 2020 <b>Name:</b> He Parkinson <b>Town:</b> Stamford <b>County:</b> Leicestershire <b>Provider:</b> Natural England <b>Provider reference:</b> AG00300095	0m	NE	11
<b>Agreement Type:</b> Entry Level Plus Higher Level <b>Area under agreement:</b> 479.36 <b>Start date:</b> 1st February 2010 <b>Expiry date:</b> 31st January 2020 <b>Name:</b> He Parkinson <b>Town:</b> Stamford <b>County:</b> Leicestershire <b>Provider:</b> Natural England <b>Provider reference:</b> AG00300095	12m	NW	11



# Agricultural Considerations: Land Classifications

Details	Distance	Direction	Contact
<b>Agreement Type:</b> Entry Level <b>Area under agreement:</b> 66.27 <b>Start date:</b> 1st July 2012 <b>Expiry date:</b> 30th June 2017 <b>Name:</b> Simon Smith Farms <b>Town:</b> Spalding <b>County:</b> Leicestershire <b>Provider:</b> Natural England <b>Provider reference:</b> AG00415484	13m	W	11
<b>Agreement Type:</b> Entry Level Plus Higher Level <b>Area under agreement:</b> 219.99 <b>Start date:</b> 1st February 2009 <b>Expiry date:</b> 31st January 2019 <b>Name:</b> D Genever Farm Partnership <b>Town:</b> Stamford <b>County:</b> Lincolnshire <b>Provider:</b> Natural England <b>Provider reference:</b> AG00279737	14m	NW	11
<b>Agreement Type:</b> Entry Level Plus Higher Level <b>Area under agreement:</b> 479.36 <b>Start date:</b> 1st February 2010 <b>Expiry date:</b> 31st January 2020 <b>Name:</b> He Parkinson <b>Town:</b> Stamford <b>County:</b> Leicestershire <b>Provider:</b> Natural England <b>Provider reference:</b> AG00300095	14m	SW	11
<b>Agreement Type:</b> Entry Level Plus Higher Level <b>Area under agreement:</b> 845.5 <b>Start date:</b> 1st October 2009 <b>Expiry date:</b> 30th September 2019 <b>Name:</b> Willoughby Farm Partnership <b>Town:</b> Stamford <b>County:</b> Leicestershire <b>Provider:</b> Natural England <b>Provider reference:</b> AG00290746	15m	W	11
<b>Agreement Type:</b> Entry Level Plus Higher Level <b>Area under agreement:</b> 134.5 <b>Start date:</b> 1st February 2009 <b>Expiry date:</b> 31st January 2019 <b>Name:</b> Y,P Genever & Daughters <b>Town:</b> Stamford <b>County:</b> Lincolnshire <b>Provider:</b> Natural England <b>Provider reference:</b> AG00279253	15m	NW	11
<b>Agreement Type:</b> Entry Level Plus Higher Level <b>Area under agreement:</b> 479.36 <b>Start date:</b> 1st February 2010 <b>Expiry date:</b> 31st January 2020 <b>Name:</b> He Parkinson <b>Town:</b> Stamford <b>County:</b> Leicestershire <b>Provider:</b> Natural England <b>Provider reference:</b> AG00300095	17m	SE	11



# Agricultural Considerations: Land Classifications

Details	Distance	Direction	Contact
<b>Agreement Type:</b> Entry Level Plus Higher Level <b>Area under agreement:</b> 479.36 <b>Start date:</b> 1st February 2010 <b>Expiry date:</b> 31st January 2020 <b>Name:</b> He Parkinson <b>Town:</b> Stamford <b>County:</b> Leicestershire <b>Provider:</b> Natural England <b>Provider reference:</b> AG00300095	18m	SE	11
<b>Agreement Type:</b> Entry Level Plus Higher Level <b>Area under agreement:</b> 479.36 <b>Start date:</b> 1st February 2010 <b>Expiry date:</b> 31st January 2020 <b>Name:</b> He Parkinson <b>Town:</b> Stamford <b>County:</b> Leicestershire <b>Provider:</b> Natural England <b>Provider reference:</b> AG00300095	42m	NE	11
<b>Agreement Type:</b> Entry Level Plus Higher Level <b>Area under agreement:</b> 479.36 <b>Start date:</b> 1st February 2010 <b>Expiry date:</b> 31st January 2020 <b>Name:</b> He Parkinson <b>Town:</b> Stamford <b>County:</b> Leicestershire <b>Provider:</b> Natural England <b>Provider reference:</b> AG00300095	44m	NE	11
<b>Agreement Type:</b> Entry Level Plus Higher Level <b>Area under agreement:</b> 479.36 <b>Start date:</b> 1st February 2010 <b>Expiry date:</b> 31st January 2020 <b>Name:</b> He Parkinson <b>Town:</b> Stamford <b>County:</b> Leicestershire <b>Provider:</b> Natural England <b>Provider reference:</b> AG00300095	73m	E	11

## Agricultural Land Classifications

### Nitrate Vulnerable Zones

Details	Distance	Direction	Contact
<b>Reserve Name:</b> Lincolnshire Limestone <b>Area size:</b> 1417504770.86 <b>Designation code:</b> Groundwater <b>Designation date:</b> <b>Provider:</b> Environment Agency <b>Provider reference:</b> G69	0m	N	9
<b>Reserve Name:</b> Glen Nvz <b>Area size:</b> 367284582.88 <b>Designation code:</b> Surface Water <b>Designation date:</b> <b>Provider:</b> Environment Agency <b>Provider reference:</b> S378	0m	N	9



# Agricultural Considerations: Land Classifications

## Provisional Agricultural Land Classifications

Details	Distance	Direction	Contact
Land Classification: Grade 3 Area size: 114333822.35 Provider: Natural England Provider reference: 1045	0m	N	11
Land Classification: Grade 3 Area size: 71392239.78 Provider: Natural England Provider reference: 1030	0m	N	11

## Post 1988 Agricultural Land Classifications

No features identified.

## Countryside Stewardship Schemes

### Countryside Stewardship Scheme Management Areas

No features identified.

## Open access land

### Open Access Land

No features identified.



# Agricultural Considerations: Sites of interest Map



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Site



Ancient woodland

● Listed Buildings

..... Scheduled monuments



## Listed buildings

### Listed Buildings

No features identified.

## Ancient woodland

### Ancient Woodland

No features identified.

## Scheduled monuments

### Scheduled Monuments

No features identified.



# Ground Hazards & Coal Mining

## Data Section



**Ground Hazards & Coal Mining Data:** This section contains information on natural and mining related hazards which may affect the Site. These includes subsidence, radon and mining. Hazards that may need further investigation are detailed here. This report is neither a guarantee of the physical condition of the subject Site nor a substitute for any physical investigation or inspection.

# contents

<b>Tabular Summary</b>	This section gives an overview of the data found at the Site and in the surrounding area. We present the data in three buffer zones, extending to a maximum of 500m. We display the number of records found in each database under the relevant heading. Where we have not been able to search a database, we will display the abbreviation N/A instead.
<b>Coal Mining</b>	This section is driven by the Site's proximity to Coalfield Consultation Areas.
<b>Subsidence</b>	This section uses several different datasets to assess the susceptibility of the Site to the subsidence
<b>Natural and Mining Related Hazards</b>	This section looks at non-coal mining hazards, including former mineral sites and landfill sites.
<b>Radon</b>	Both the likelihood of radon being an issue, and the requirement for radon protection measures.



# Ground Hazards & Coal Mining: Tabular Summary

## Coal Mining

Coal Mining	On-site	1-100m	101-250m
Coal Mining Subsidence Damage Claims*	0	0	N/A
Coalfield Consultation Areas	0	N/A	N/A

## Subsidence

Insurance Claims from Subsidence	On-site	1-100m	101-250m
Postcode Unit Insurance Claims Rating - Subsidence	0	N/A	N/A

Natural Ground Instability	On-site	1-100m	101-250m
Natural Cavities	0	0	0
Potential for Landslide Ground Stability Hazards*	0	0	N/A
Potential for Ground Dissolution Stability Hazards*	2	0	N/A
Potential for Compressible Ground Stability Hazards*	1	0	N/A
Potential for Shrinking or Swelling Clay Ground Stability Hazards*	1	0	N/A
Potential for Running Sand Ground Stability Hazards*	0	0	N/A
Potential for Collapsible Ground Stability Hazards*	0	0	N/A

## Natural and Mining Related Hazards

Former Mining	On-site	1-100m	101-250m
Potentially Contaminative Land Uses (1950-1980) from large scale historical mapping	1	N/A	N/A
Potentially Contaminative Land Uses (1855-1909) from large scale historical mapping*	0	0	N/A
Potentially Contaminative Land Uses (1893-1915) from large scale historical mapping	0	N/A	N/A
Potentially Contaminative Land Uses (1906-1937) from large scale historical mapping	0	N/A	N/A
Potentially Contaminative Land Uses (1924-1949) from large scale historical mapping	0	N/A	N/A
Potentially Contaminative Industrial Uses (Past Land Use)	0	N/A	N/A
Man-Made Mining Cavities	0	0	0
BGS Recorded Mineral Sites	0	5	N/A
Mining Instability	0	N/A	N/A
Non Coal Mining Areas of Great Britain*	0	0	N/A
Potential Mining Areas	0	N/A	N/A



# Ground Hazards & Coal Mining: Tabular Summary

<b>Salt and Brine</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
Brine Compensation Area	0	N/A	N/A
Brine Pumping Related Features	0	N/A	N/A
Brine Subsidence Solution Area	0	N/A	N/A
Salt Mining Related Features	0	N/A	N/A
<b>Landfill Sites and Infilled Land</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
Former Marshes	0	N/A	N/A
Potentially Infilled Land (Non-Water)	0	N/A	N/A
Potentially Infilled Land (Water)	0	N/A	N/A
Potentially Contaminative Industrial Uses (Past Land Use)	0	N/A	N/A
BGS Recorded Landfill Sites	0	N/A	N/A
Permitted Waste Sites - Authorised Landfill Site Boundaries	0	N/A	N/A
Registered Landfill Sites	0	N/A	N/A
Local Authority Recorded Landfill Sites	0	N/A	N/A
Historic Landfill	0	N/A	N/A

## Radon

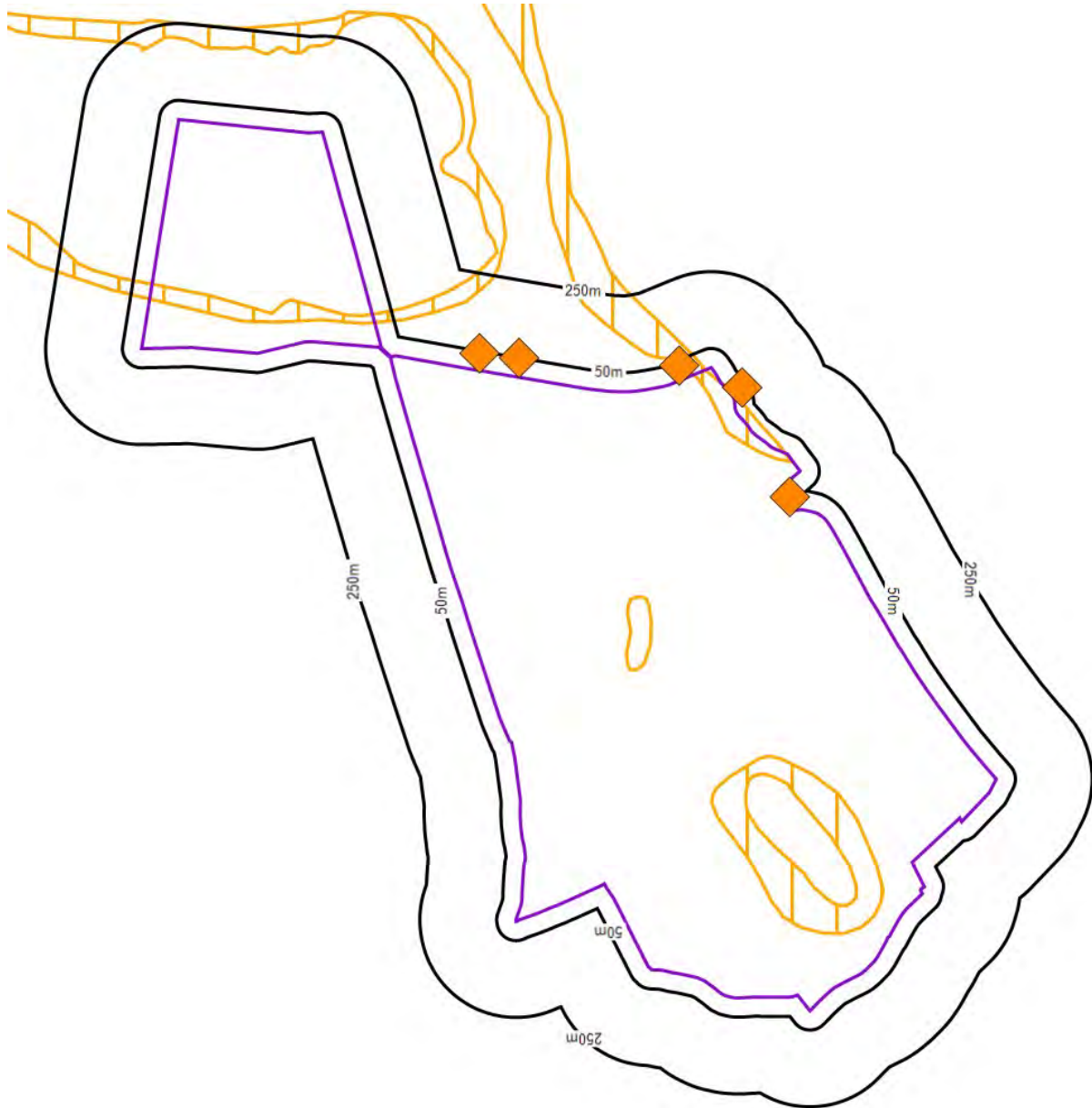
<b>Radon</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
Radon Potential	2	N/A	N/A

\*\* dataset searched to 25m

\* dataset searched to 50m



# Ground Hazards & Coal Mining



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	Site		Brine Subsidence Solution Area
	Coalfield Consultation Area		Salt Mining Related Feature
	Mining from Historical Maps		Infilled Land
	Mining Cavities		Landfills
	Other Mining		Natural Cavities
	CBSCB Compensation District		Potential for Ground Stability Hazards - High
	Brine Pumping Related Feature		Potential for Ground Stability Hazards - Moderate



## Coal Mining

### **Coal Mining Subsidence Damage Claims**

No features identified.

### **Coalfield Consultation Areas**

No features identified.



## Insurance Claims

### Postcode Unit Insurance Claims Rating - Subsidence

No features identified.

## Natural Ground Instability

### Natural Cavities

No features identified.

### Potential for Landslide Ground Stability Hazards

No features identified.

### Potential for Ground Dissolution Stability Hazards

Details	Distance	Direction	Contact
<p><b>Hazard Potential:</b> Moderate</p> <p><b>Hazard Description:</b> Very significant soluble rocks, where there are numerous dissolution features and/or some recorded subsidence with a moderate possibility of localised subsidence occurring naturally or in adverse conditions such as high surface or subsurface water flow.</p> <p><b>Hazard Guidance:</b> Do not load the land or undertake building work before obtaining specialist advice. Do not dispose of surface drainage to the ground. Maintain drainage infrastructure.</p>	0m	E	10

<p><b>Hazard Potential:</b> Moderate</p> <p><b>Hazard Description:</b> Very significant soluble rocks, where there are numerous dissolution features and/or some recorded subsidence with a moderate possibility of localised subsidence occurring naturally or in adverse conditions such as high surface or subsurface water flow.</p> <p><b>Hazard Guidance:</b> Do not load the land or undertake building work before obtaining specialist advice. Do not dispose of surface drainage to the ground. Maintain drainage infrastructure.</p>	0m	NW	10
---	----	----	----

### Potential for Compressible Ground Stability Hazards

Details	Distance	Direction	Contact
<p><b>Hazard Potential:</b> Moderate</p> <p><b>Hazard Description:</b> Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.</p> <p><b>Hazard Guidance:</b> Avoid large differential loadings of ground. Do not drain or dewater ground near the property without technical advice.</p>	0m	NE	10

### Potential for Shrinking or Swelling Clay Ground Stability Hazards

Details	Distance	Direction	Contact
<p><b>Hazard Potential:</b> Moderate</p> <p><b>Hazard Description:</b> Ground conditions predominantly high plasticity.</p> <p><b>Hazard Guidance:</b> Do not plant or remove trees or shrubs near to buildings without expert advice about their effect and management.</p>	0m	SE	10

### Potential for Running Sand Ground Stability Hazards

No features identified.



# Ground Hazards & Coal Mining: Subsidence

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## Potential for Collapsible Ground Stability Hazards

No features identified.



# Ground Hazards & Coal Mining: Natural and Mining Related Hazards

## Former Mining

### Potentially Contaminative Land Uses (1950-1980) from large scale historical mapping

Details	Distance	Direction	Contact
Industry Type: Extraction Description: Pit Map Published Date: 1975	0m	NE	1

### Potentially Contaminative Land Uses (1855-1909) from large scale historical mapping

No features identified.

### Potentially Contaminative Land Uses (1893-1915) from large scale historical mapping

No features identified.

### Potentially Contaminative Land Uses (1906-1937) from large scale historical mapping

No features identified.

### Potentially Contaminative Land Uses (1924-1949) from large scale historical mapping

No features identified.

### Potentially Contaminative Industrial Uses (Past Land Use)

No features identified.

### Man-Made Mining Cavities

No features identified.

### BGS Recorded Mineral Sites

Details	Distance	Direction	Contact
Name: Essendine Type: Opencast Periodic Type: Jurassic Geology: Upper Lincolnshire Limestone Member Commodity: Limestone Location: Essendine, Oakham, Rutland Status: Ceased Reference: 46764 Location Accuracy: Located by supplier to within 10m	19m	NE	10
Name: Carlby Gravel Pit Type: Opencast Periodic Type: Quaternary Geology: River Terrace Deposits, 1 Commodity: Sand and Gravel Location: Carlby, Stamford, Lincolnshire Status: Ceased Reference: 136291 Location Accuracy: Located by supplier to within 10m	33m	NE	10





# Ground Hazards & Coal Mining: Natural and Mining Related Hazards

Details	Distance	Direction	Contact
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<b>Name:</b> Carlby Gravel Pit <b>Type:</b> Opencast <b>Periodic Type:</b> Quaternary <b>Geology:</b> River Terrace Deposits, 1 <b>Commodity:</b> Sand and Gravel <b>Location:</b> Carlby, Stamford, Lincolnshire <b>Status:</b> Ceased <b>Reference:</b> 136292 <b>Location Accuracy:</b> Located by supplier to within 10m	37m	N	10
--	-----	---	----

<b>Name:</b> Carlby <b>Type:</b> Opencast <b>Periodic Type:</b> Jurassic <b>Geology:</b> Upper Lincolnshire Limestone Member <b>Commodity:</b> Limestone <b>Location:</b> Carlby, Stamford, Lincolnshire <b>Status:</b> Ceased <b>Reference:</b> 136294 <b>Location Accuracy:</b> Located by supplier to within 10m	45m	NW	10
---	-----	----	----

<b>Name:</b> Carlby <b>Type:</b> Opencast <b>Periodic Type:</b> Jurassic <b>Geology:</b> Upper Lincolnshire Limestone Member <b>Commodity:</b> Limestone <b>Location:</b> Carlby, Stamford, Lincolnshire <b>Status:</b> Ceased <b>Reference:</b> 136293 <b>Location Accuracy:</b> Located by supplier to within 10m	50m	N	10
---	-----	---	----

## Mining Instability

No features identified.

## Non Coal Mining Areas of Great Britain

No features identified.

## Potential Mining Areas

No features identified.

## Salt and Brine

### Brine Compensation Area

No features identified.

### Brine Pumping Related Features

No features identified.

### Brine Subsidence Solution Area

No features identified.

### Salt Mining Related Features

No features identified.



# Ground Hazards & Coal Mining: Natural and Mining Related Hazards

## Landfill Sites and Infilled Land

### **Former Marshes**

No features identified.

### **Potentially Infilled Land (Non-Water)**

No features identified.

### **Potentially Infilled Land (Water)**

No features identified.

### **Potentially Contaminative Industrial Uses (Past Land Use)**

No features identified.

### **BGS Recorded Landfill Sites**

No features identified.

### **Permitted Waste Sites - Authorised Landfill Site Boundaries**

No features identified.

### **Registered Landfill Sites**

No features identified.

### **Local Authority Recorded Landfill Sites**

No features identified.

### **Historic Landfill**

No features identified.



## Radon

### Radon Potential

Details	Distance	Direction	Contact
<p>Radon Affected Area: Yes Radon Protection Measure Required: Basic The property is in an Intermediate probability radon area (5 to 10% of homes are estimated to be at or above the Action Level).</p>	0m	N	10
<p>Radon Affected Area: Yes Radon Protection Measure Required: Full The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level).</p>	0m	N	10

# Energy & Infrastructure

## Data Section



**Energy & Infrastructure Data:** This section details the data used as part of our Energy and Infrastructure analysis. Each key area has the data mapped with the detail outlined beneath.

# contents

<b>Tabular Summary</b>	Provides an overview of the data found at the Site and in the surrounding area. We present the data in three buffer zones, extending to a maximum of 4km. We display the number of records found in under the relevant heading. Where we have not been able to find data, we will display the abbreviation N/A instead.
<b>Oil and Gas Exploration</b>	Licences or drilling facilities with 4km of the Site. Onshore oil and gas exploration and production licences relate to areas of land (blocks). The presence of one or more of these licences does not mean that exploration or production will definitely happen.
<b>Wind Energy</b>	Operational or planned wind farms or turbines within 4km of the Site. Includes wind projects in the UK Wind Energy Database and locations of individual wind turbines and planning applications for wind turbines with an output of 1MW.
<b>Solar Energy Facilities</b>	Operational and proposed solar farms within 2km of the Site. The data provides the name of the operating company, the generating capacity, and the farm's operational status.
<b>Other Renewable Energy</b>	Renewable power sources with an output of 1MW within 2km of the Site. These power sources are: Small / Large Hydroelectric; Shoreline Wave; Tidal Barrage / Stream; Biomass; Co-firing; Anaerobic/ Sewage Digestion; Hot Dry Rocks; Landfill Gas; Energy from Waste (EfW) Incineration; and Advanced Conversion Technology.
<b>High Speed 2 (HS2)</b>	HS2 track sections, stations, safeguarding limits homeowner zones and extended homeowner protection zones within 4km of the Site. This report comments on both phases using current available information.
<b>Crossrail</b>	Crossrail 1 and 2 track sections, stations and safeguarding limits within 2km of the Site. Crossrail (CR1) is a rail project stretching from Reading and Heathrow in the west, to Shenfield and Abbeywood in the east. Crossrail 2 (CR2) is a new (proposed) railway, linking the national rail networks in and around Surrey and Hertfordshire via an underground tunnel through London.
<b>Railways</b>	Above and below ground railways within 250m of the Site, including trams and light rail.
<b>Pipelines</b>	The Southampton to London Pipeline route within 250m of the Site.



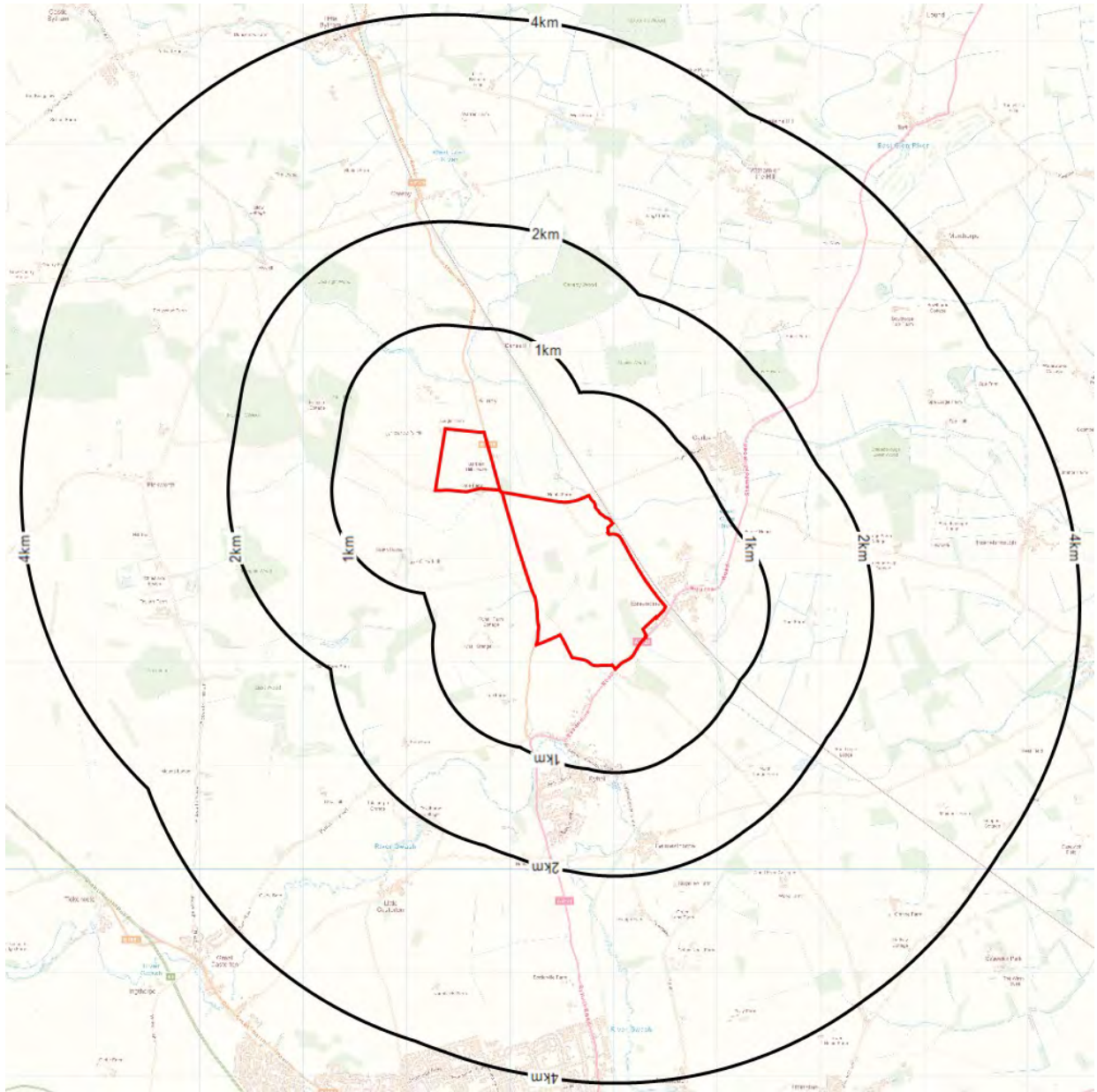
# Energy & Infrastructure: Tabular Summary

## Energy And Infrastructure

<b>Oil and Gas Explorations</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Licensed Areas for Onshore Energy Exploration and Production	0	0	N/A
Licensed Wells for Energy Exploration	0	0	N/A
Offered Blocks for Onshore Energy Exploration and Production	0	0	N/A
<b>Wind Energy</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Wind Farms	0	0	N/A
Wind Turbines	0	0	N/A
Renewable Energy Planning Database	0	0	N/A
<b>Solar Energy</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Renewable Energy Planning Database	0	N/A	N/A
<b>Other Renewable</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Renewable Energy Planning Database	0	N/A	N/A
<b>High Speed 2</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
HS2 - Track	0	N/A	N/A
HS2 - Stations	0	N/A	N/A
HS2 - Safeguarding Limits	0	N/A	N/A
HS2 - Payment Zones	0	N/A	N/A
<b>Crossrail 1</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Crossrail - Safeguarding Limits	0	N/A	N/A
Crossrail - Stations	0	N/A	N/A
Crossrail - Track	0	N/A	N/A
<b>Crossrail 2</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Crossrail 2 - Track	0	N/A	N/A
Crossrail 2 - Stations	0	N/A	N/A
Crossrail 2 - Safeguarding Limits	0	N/A	N/A
<b>Above and below ground railways</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Railed Transport - Tracks	0	21	N/A
Railed Transport - Stations and Stops	0	0	N/A
<b>Southampton to London Pipeline</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Southampton to London Pipeline Development	0	0	N/A



# Energy & Infrastructure: Energy



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- Site
- OGA Offered Exploration Blocks
- Wind Farms
- Planning Apps – Wind Energy
- Planning Apps – Other Renewable Energy

- OGA Licensed Exploration Blocks
- Drilling Locations
- Wind Turbines
- Planning Apps – Solar Farms
- Southampton to London pipeline



## Oil and Gas Exploration

### Licensed Areas for Onshore Energy Exploration and Production

No features identified.

### Offered Blocks for Onshore Energy Exploration and Production

No features identified.

### Licensed Wells for Energy Exploration

No features identified.

## Wind Energy

### Wind Farms

No features identified.

### Wind Turbines

No features identified.

### Renewable Energy Planning Database

No features identified.

## Solar Energy Facilities

### Renewable Energy Planning Database

No features identified.

## Other Renewable Energy

### Renewable Energy Planning Database

No features identified.

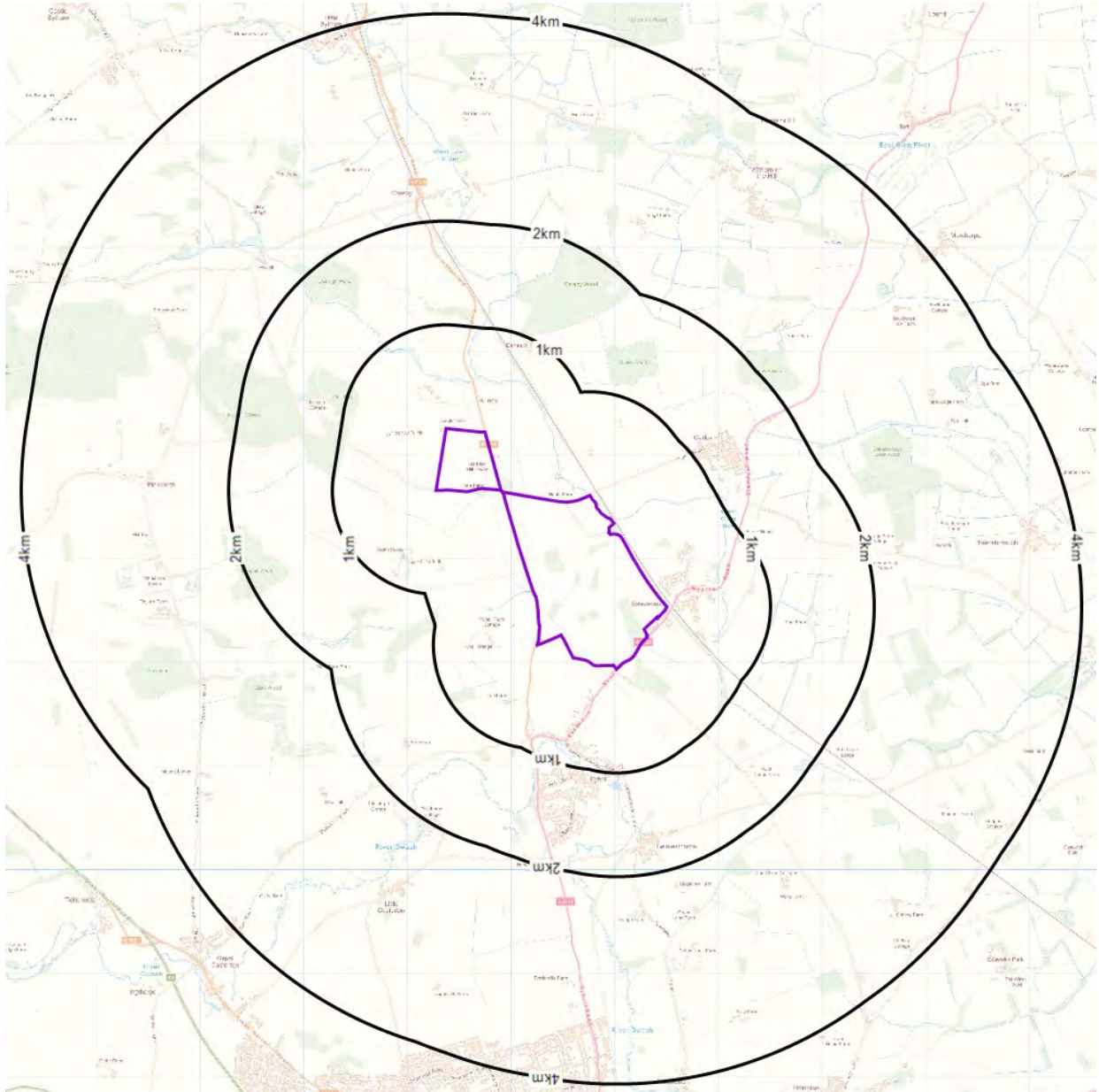
## Southampton to London pipeline

### Southampton to London Pipeline Development

No features identified.



# Energy & Infrastructure: Infrastructure 1



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- |                                   |  |
|-----------------------------------|--|
| Site                              | HS2 - Track                              |
| Crossrail 1 - Track               | HS2 - Station                            |
| Crossrail 1 - Station             | HS2 - Safeguarding Limits                |
| Crossrail 1 - Safeguarding Limits | HS2 - Homeowner Payment Zone 1           |
| Crossrail 2 - Track               | HS2 - Homeowner Payment Zone 2           |
| Crossrail 2 - Station             | HS2 - Homeowner Payment Zone 3           |
| Crossrail 2 - Safeguarding Limits | HS2 - Rural Support Zone                 |
|                                   | HS2 - Extended Homeowner Protection Zone |





## High Speed 2

### **HS2 - Track**

No features identified.

### **HS2 - Stations**

No features identified.

### **HS2 - Safeguarding Limits**

No features identified.

### **HS2 - Payment Zones**

No features identified.

## Crossrail 1

### **Crossrail - Track**

No features identified.

### **Crossrail - Stations**

No features identified.

### **Crossrail - Safeguarding Limits**

No features identified.

## Crossrail 2

### **Crossrail 2 - Track**

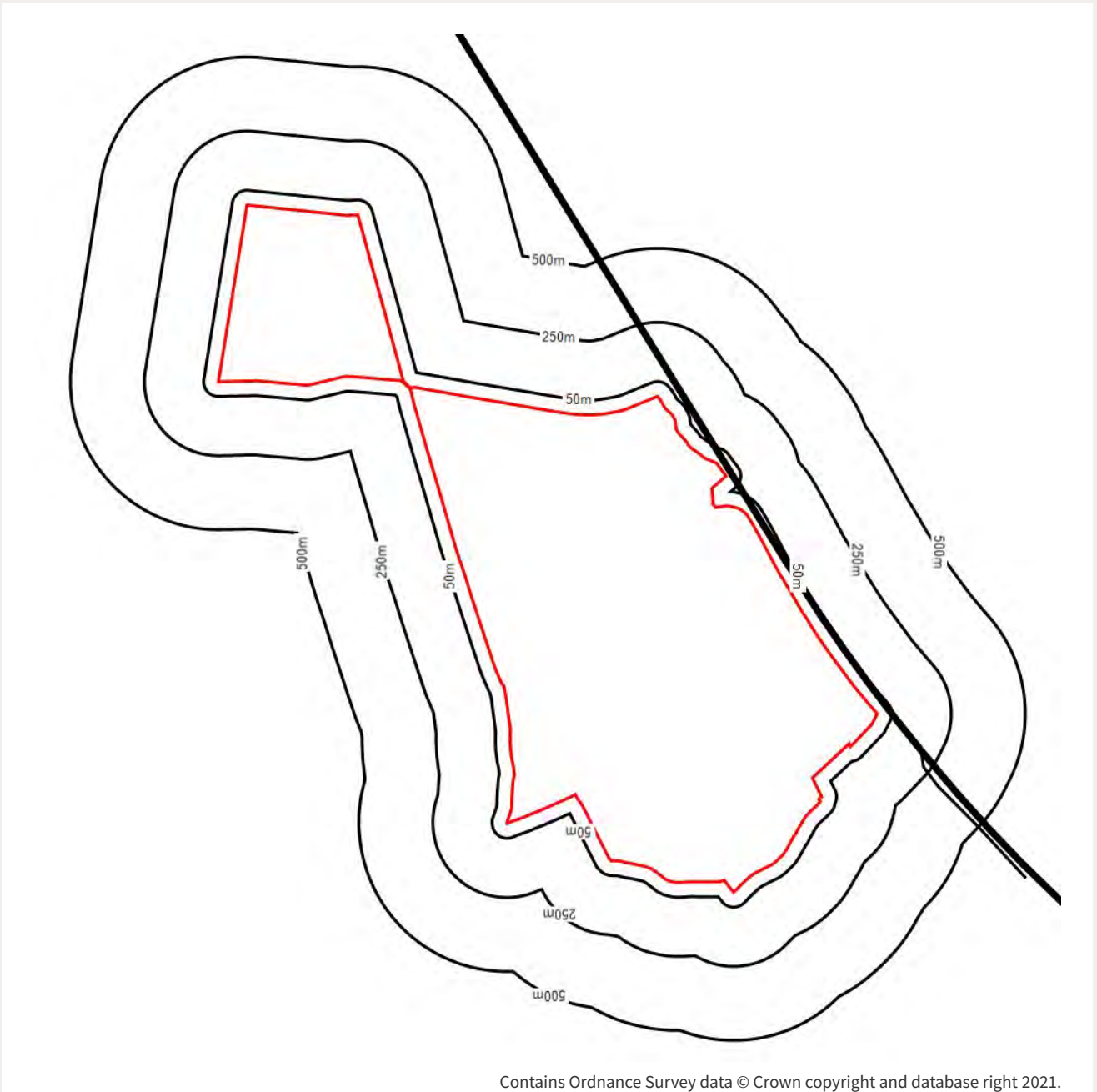
No features identified.

### **Crossrail 2 - Stations**


No features identified.

### **Crossrail 2 - Safeguarding Limits**

No features identified.



 Site

 Railway - Station

 Track

 Underground Track



## Above and below ground railways

### Railed Transport - Tracks

Details	Distance	Direction	Contact
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> East Midlands Railway <b>Reference Number:</b> way/305687268	13m	NE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/305687269	18m	NE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/156460261	23m	NE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/305687272	27m	NE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> East Midlands Railway <b>Reference Number:</b> way/305687283	33m	E	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/305687278	37m	E	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/4806329	42m	E	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/305687286	46m	E	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> East Midlands Railway <b>Reference Number:</b> way/305687241	67m	NE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> East Midlands Railway <b>Reference Number:</b> way/432498866	68m	NE	1



Details	Distance	Direction	Contact
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/305687243	71m	NE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/432498870	72m	NE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/156460260	76m	NE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/432498878	77m	NE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/305687250	80m	NE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/432498875	81m	NE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> East Midlands Railway <b>Reference Number:</b> way/305687234	184m	SE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/305687233	185m	SE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/2162114	187m	SE	1
<b>Network Name:</b> Not Supplied <b>Tunnel:</b> Unknown <b>Status:</b> Inactive Railway <b>Route:</b> Not Supplied <b>Reference Number:</b> way/27652912	187m	SE	1



Details	Distance	Direction	Contact
Network Name: East Coast Main Line Tunnel: Unknown Status: Active Railway Route: London North Eastern Railway Reference Number: way/305687235	189m	SE	1

## Railed Transport - Stations and Stops

No features identified.

# Site Solutions Farm

## About this report



### Site Solutions Farm Limitations

**Site Solutions** Farm reports help you and your clients make informed property decisions. Our reports are 'desktop' assessments, written and quality checked by our team of expert consultants. We carry out the work in our Brighton office using data, maps and our expertise. We do not carry out a physical inspection of the property nor do we contact any regulator. This means that we cannot guarantee that we will have identified all issues of concern.

In the Data Section of the report we list the data sources that we have used. Most of these data sets come from third party sources such as the Environment Agency. We cannot guarantee the accuracy of this data and are not responsible for any inaccuracies in third party data.

All **Site Solutions** reports are covered by our terms and conditions, a copy of which is available on our website, [www.argyllenvironmental.com](http://www.argyllenvironmental.com). If you need any further information please contact us on 0330 036 6115.




### Contaminated Land Risk Analysis Methodology

For this section of the report we assess the condition of the land. We see whether the land could be 'Contaminated Land' under the relevant legislation. This section of the report meets the requirements for an independent site report. This is the recommendation of the Law Society Practice Note on Contaminated Land.

The main legislation is Part 2A of the Environmental Protection Act 1990. We also assess whether similar requirements could arise under the Water Resources Act 1991. The Contaminated Land legislation asks whether a 'plausible contaminant-pathway-receptor relationship' exists. If we identify a relationship, then our consultants will assess the potential significance. We define Liabilities as the potential for remedial works under Part 2A of the Environmental Protection Act 1990 and/or the Water Resources Act 1991.

If the Site is to have a change of use, then we also consider relevant requirements under the Planning Regime. It may be that the level of contamination will only become an issue if the Site is to be redeveloped. An example of this is when former industrial land is redeveloped for housing. If the Site is to be redeveloped then it could also include remedial works required under the planning regime. These remedial works may be the responsibility of the Site owner or occupier.

We will issue one of the following Liability statements, in line with Defra's recommended four stage test.

Assessment	Liability Statement	Defra Category
PASSED 	Within the scope of this assessment no Liabilities have been identified. No further action is required.	3 or 4
PASSED – PRUDENT ACTION 	Within the scope of this assessment no Liabilities have been identified. However, your attention is drawn to the prudent action suggested below.	3 or 4
FURTHER ACTION 	We have identified potential soil and/or groundwater liabilities. To quantify these we recommend you undertake the action outlined below.	Potentially 1 or 2






## Flood Risk Analysis Methodology

For this section of the report, we assess the risk of flooding at the Site. A Consultant will analyse the data within the report, and take into account factors such as source of flooding, extent, and which part of the Site is at risk (is it operationally sensitive).

Three key areas are addressed:

- the overall risk of flooding (taking into account defences)
- how flood risk affects the availability of insurance
- how flood risk affects the potential to redevelop

We report the overall risk in a summary statement, with the three outcomes listed below:

Assessment	Risk Statement
PASSED 	<p><b>Negligible, Low &amp; Low-Moderate Risk:</b> The Site is not considered to be at significant risk of flooding. No further action is deemed necessary.</p> <p><b>Recommendations:</b> Some simple advice may be provided.</p> <p><b>Insurability:</b> Insurance should be readily available.</p>
PASSED – PRUDENT ACTION 	<p><b>Moderate Risk:</b> Data indicates some risk exists to the Site and its occupants. However, this is expected to be associated with an ‘extreme’ event.</p> <p><b>Recommendations:</b> Practical advice will be provided. This may be to obtain further information or to write a flood preparation plan.</p> <p><b>Insurance:</b> In most cases insurance should be readily available.</p>
FURTHER ACTION 	<p><b>Moderate to High and High:</b> This report reveals a significant risk of flooding which should be addressed.</p> <p><b>Recommendations:</b> Further assessment is recommended to clarify the risk of flooding at the Site. This will inform whether flood protection measures should be installed.</p> <p><b>Insurance:</b> Insurance may not be available without a higher premium or excess.</p>

The flood risk gauges provide an analysis of each of the four main types of flooding: river, coastal, groundwater and surface water. A fifth gauge provides analysis of ‘other factors’. This includes historical floods, proximity to water features and elevation above both of these features. The purpose of this gauge is to account for risk that is not tied to modelled data.

Environment Agency defences protect large areas of England and Wales from river and coastal flooding. Our analysis of flood risk from these sources takes defences into account. Where defences are present we will report both defended and undefended risk to present the full risk profile. However, our overall assessment and recommendations will be based on the defended risk.

In Scotland, we do not have access to data from the Scottish Environmental Protection Agency (SEPA). As a result, we are unable to take into account defences. Consequently, in Scotland our assessment is always based on the undefended risk.

An Argyll Consultant will write Site-specific commentary to summarise the risk. The purpose of this is to explain the drivers of the risk, and where possible, the extent and impact. This will be a non-technical account, explaining our assessment in simple terms. Our Consultants generate the risk assessment using several sources. This means the gauges in the front of the report will supersede any risk reported in the data section. We also consider the implications of flood risk under the National Planning Policy Framework (NPPF). We always provide a view on whether a Flood Risk Assessment would be required if development is proposed. Where the client lets us know that the Site is to be redeveloped, we provide recommendations on the most appropriate next step.



# Useful Contacts

Please see below the contact details of the suppliers referred to within this report. For all queries please contact:

**Argyll Environmental Ltd**  
1<sup>st</sup> Floor  
98-99 Queens Road  
Brighton  
BN1 3XF

If you require assistance please contact our customer services team on:

**0330 036 6115**

Or by email at:

**orders@argyllenviro.com**

Contact	Name	Address	Contact Details
	<b>Public Health England</b>	Centre for Radiation Chemical and Environmental Hazards Chilton Didcot Oxon OX11 0RQ	<b>T:</b> 01235 822622 <b>F:</b> 01235 833891 <b>E:</b> radon@phe.gov.uk <b>W:</b> www.ukradon.org
1	<b>Landmark Information Group Limited</b>	Imperium Imperial Way Reading Berkshire RG2 0TD	<b>T:</b> 0844 844 9966 <b>E:</b> helpdesk@landmark.co.uk <b>W:</b> www.landmark.co.uk
2	<b>Ordnance Survey</b>	Adanac Drive Southampton Hampshire SO16 0AS	<b>T:</b> 03456 05 05 05 <b>E:</b> customerservices@ordnancesurvey.co.uk <b>W:</b> www.ordnancesurvey.gov.uk
3	<b>Environment Agency, National Customer Contact Centre (NCCC)</b>	PO Box 544 Templeborough Rotherham S60 1BY	<b>T:</b> 03708 506 506 <b>E:</b> enquiries@environment-agency.gov.uk
4	<b>Health and Safety Executive</b>	5S.2 Redgrave Court Merton Road Bootle L20 7HS	<b>W:</b> www.hse.gov.uk
5	<b>Rutland Unitary Council, Planning Support</b>	Catmose Oakham Rutland Leicestershire LE15 6HP	<b>T:</b> 01572 722577 <b>W:</b> www.rutland.gov.uk





## Useful Contacts

Contact	Name	Address	Contact Details
6	<b>South Kesteven District Council, Environmental Health</b>	Council Offices St Peters Hill Grantham Lincolnshire NG31 6PZ	<b>W:</b> <a href="http://www.southkesteven.gov.uk">www.southkesteven.gov.uk</a>
7	<b>Rutland Unitary Council, Environmental Health Department</b>	Catmose Rutland Oakham Leicestershire LE15 6HP	<b>T:</b> 01572 722577 <b>W:</b> <a href="http://www.rutland.gov.uk">www.rutland.gov.uk</a>
8	<b>Landmark Information Group Limited</b>	5 - 7 Abbey Court Eagle Way Sowton Exeter Devon EX2 7HY	<b>T:</b> 01392 441702 <b>E:</b> <a href="mailto:mailbox@landmarkinfo.co.uk">mailbox@landmarkinfo.co.uk</a> <b>W:</b> <a href="http://www.landmarkinfo.co.uk">www.landmarkinfo.co.uk</a>
9	<b>Environment Agency, Head Office</b>	Rio House Waterside Drive Aztec West, Almondsbury Bristol Avon BS32 4UD	<b>T:</b> 01454 624400
10	<b>British Geological Survey, Enquiry Service</b>	British Geological Survey Environmental Science Centre Keyworth Nottingham Nottinghamshire NG12 5GG	<b>T:</b> 0115 936 3143 <b>E:</b> <a href="mailto:enquiries@bgs.ac.uk">enquiries@bgs.ac.uk</a> <b>W:</b> <a href="http://www.bgs.ac.uk">www.bgs.ac.uk</a>
11	<b>Natural England</b>	County Hall Spetchley Road Worcester WR5 2NP	<b>T:</b> 0300 060 3900 <b>E:</b> <a href="mailto:enquiries@naturalengland.org.uk">enquiries@naturalengland.org.uk</a> <b>W:</b> <a href="http://www.naturalengland.org.uk">www.naturalengland.org.uk</a>

Please note that if you choose to contact any of the above organisations, they may have a charging policy in place for enquiries.



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British Geological Survey





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This search has been produced by Argyll Environmental Ltd, 1<sup>st</sup> Floor, 98 - 99 Queens Road, Brighton, BN1 3XF.

Tel: 03300 366 115

Email: [orders@argyllenviro.com](mailto:orders@argyllenviro.com)

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- Conveyancing Information Executive Members shall act in a professional and honest manner at all times in line with the Conveyancing Information Executive Standards and carry out the delivery of the Search with integrity and due care and skill.
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- Conveyancing Information Executive Members will promote the benefits of and deliver the Search to the agreed standards and in the best interests of the customer and associated parties.
- The standards can be seen here: <http://www.conveyinfoexec.com>

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If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award up to £5,000 to you if the Ombudsman finds that you have suffered actual financial loss and/or aggravation, distress or inconvenience as a result of your search provider failing to keep to the Standards.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPO.

### TPOs Contact Details:

The Property Ombudsman scheme  
Milford House  
43-55 Milford Street  
Salisbury  
Wiltshire SP1 2BP

Tel: 01722 333306

Fax: 01722 332296

Website: [www.tpos.co.uk](http://www.tpos.co.uk)

Email: [admin@tpos.co.uk](mailto:admin@tpos.co.uk)



## Argyll Environmental Complaints Procedure

If you want to make a complaint to Argyll Environmental, we will:

- Acknowledge it within 5 working days of receipt
- Normally deal with it fully and provide a final response, in writing, within 20 working days of receipt
- Keep you informed by letter, telephone or e-mail, as you prefer, if we need more time
- Provide a final response, in writing, at the latest within 40 working days of receipt
- Liaise, at your request, with anyone acting formally on your behalf

## Complaints should be sent to:

Legal Director  
Argyll Environmental Ltd  
1<sup>st</sup> Floor  
98 - 99 Queens Road  
Brighton  
BN1 3XF

Tel: 03300 366 115

Email: [orders@argyllenviro.com](mailto:orders@argyllenviro.com)

If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs):

Tel: 01722 333306,

Email: [admin@tpos.co.uk](mailto:admin@tpos.co.uk)

We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.





# **Mallard Pass**

Solar Farm

## **Mallard Pass Solar Farm**

### **Scoping Report**

**Appendix 7.5d: Argyll Environmental  
Report - Land at North Lodge Farm  
February 2022**



LAND AT NORTH LODGE FARM, , GREATFORD, STAMFORD

**Report Prepared for:** Search Acumen

**Client Reference:** 472867.5/SC16/KS13\_ESF

**Report Reference:** 287321850

**Date:** 4 November 2021



## Contaminated Land **PASSED – PRUDENT ACTION**

Executive Summary | SEE PAGE 1

[CLICK HERE](#)

Consultant Commentary | SEE PAGE 6

[CLICK HERE](#)



## Flood Risk **FURTHER ACTION**

Executive Summary | SEE PAGE 1

[CLICK HERE](#)

Consultant Commentary | SEE PAGE 8

[CLICK HERE](#)



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## Agricultural Considerations **IDENTIFIED**

Executive Summary | SEE PAGE 2

[CLICK HERE](#)

Detail | SEE PAGE 48

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## Ground Hazards & Coal Mining **IDENTIFIED**

Executive Summary | SEE PAGE 3

[CLICK HERE](#)

Detail | SEE PAGE 58

[CLICK HERE](#)

## Energy & Infrastructure **IDENTIFIED**

Executive Summary | SEE PAGE 4

[CLICK HERE](#)

Detail | SEE PAGE 67

[CLICK HERE](#)



**Authored by:**

**Tom Leckey** BSc (Hons), PIEMA, FRGS

t: [REDACTED] e: [REDACTED]@landmark.co.uk



## Contaminated Land

SEE PAGE 6 OR

[CLICK HERE](#)

**PASSED – PRUDENT ACTION**



### Liability Assessment

Within the scope of this assessment no Liabilities have been identified. However, it would be prudent to consider our recommendations below.



### Argyll's Recommendations

#### **Watching Brief (Price on Application)**

**Risk:** Railways were formally located on the farm, which may have caused some contamination. Given the assumed low sensitivity of the redevelopment there is no need for significant investigation. But, the Local Authority may require you identify unexpected contamination during the development through a method such as a watching brief.

**Action:** A watching brief involves an appointed person/consultant taking photos and reporting on groundworks. The report is then submitted to the Local Authority. We would be happy to confirm with the Planning Authority that this approach is acceptable.



## Flood Risk

SEE PAGE 8 OR

[CLICK HERE](#)

**FURTHER ACTION**



### Consultant's Summary

We have identified a significant risk of flooding. We recommend you undertake the action outlined below.



### Insurance

Insurance terms may not easily be available without a high premium or excess.



### Recommendations

Flood Risk Assessment (FRA) (from £950.00 + VAT)

**Risk:** The Site is situated within a flood zone 3 and is over 1 hectare.

**Action:** As development is planned a Flood Risk Assessment (FRA) will be required to support the planning application. It must demonstrate how to manage flood risk so the development will remain safe throughout its lifetime; and will need to be submitted to the Local Authority for approval.

#### Standard Enquiries

- Ask the seller whether flooding has occurred in the area before. If it has, please contact us for advice.
- Establish the availability of buildings and contents insurance before exchanging contracts.





## Agricultural Considerations

SEE PAGE 48 OR [CLICK HERE](#)

### IDENTIFIED



#### Professional Opinion and Recommendations

We have identified agricultural considerations that may be of relevance to the Site.

##### **Nitrate Vulnerable Zones**

The farm lies within a Nitrate Vulnerable Zone. Nitrate Vulnerable Zones are areas designated as being at risk from agricultural nitrate pollution. There are certain requirements that should be followed when you use fertilisers and store organic manure.

For further guidance, please see the following link <https://www.gov.uk/government/collections/nitrate-vulnerable-zones>

##### **Environmental Stewardship Schemes**

The farm is located within a Entry Level Plus Higher Level Scheme. The Environmental Stewardship Scheme aims to secure widespread environmental benefits (including improved water quality and reduced soil erosion) through financial incentives.

Make enquiries with the land owner or Natural England for further information.

##### **Agricultural Land Classifications**

The farm is classified as Grade 2 and Grade 3. The classification system is broken down into categories according to the extent to which physical or chemical characteristics (such as climatic conditions and soil chemistry) cause limitations on food production.

Make enquiries with the land owner or Natural England for further information.

##### **Historical rights of way**

There may be historic rights of way on the farm. The Countryside and Rights of Way Act 2000 made provisions to complete the legal record of rights of way on a definitive map by 2026. Historic rights of way (those existing prior to 1949), that are not recorded on the definitive maps by 2026 will be lost. Projects are underway to re-instate historic rights of way.

Contact the Local Authority for further information.

##### **Groundwater abstraction**

We have identified an abstraction license at the farm. If this is for domestic use, while the abstraction does not present a risk in itself, it should be tested for potential pollutants, such as agrochemicals and fuel.

- Ask the vendor for the results of a recent test
- Contact the relevant Authority to ensure compliance with the permit
- Ensure ongoing testing inline with the abstraction license.



## Ground Hazards & Coal Mining

SEE PAGE 58 OR [CLICK HERE](#)

### IDENTIFIED



#### Professional Opinion and Recommendations

We have identified ground hazards that may affect the site or nearby area.

##### **Insurance Claims**

Our search indicates that the Site is not within an area where Coal Mining Subsidence Damage Claims have been recorded.

##### **Man Made Stability**

A search of historical mapping indicates that the Site is located on an area of ground filled with unknown material.

We recommend that you consult a local RICS accredited surveyor to arrange the most suitable survey for the Site, to assess whether or not it is affected by ground stability issues.

If it has been built recently, contact Building Control at the Local Authority in order to check whether it was constructed to a standard that will minimise the risk of structural damage. Alternatively, the Site may benefit from building warranty through companies such as the NHBC.

##### **Natural Ground Stability**

Information provided by the BGS indicates that land in the area could be prone to compressibility and uneven settlement hazards. There is a moderate potential that problems could occur in the area.

Information from the BGS indicates that the ground in the area is prone to changing shape or volume, usually because of varying amounts of water in the ground throughout the year. This means that there is a moderate potential that problems could occur in the area.

Whether or not a Site is affected by ground movement can depend on a number of factors – including property age and type of construction.

We recommend that you consult a local RICS accredited surveyor to arrange the most suitable survey for the Site, to assess whether or not it is affected by ground stability issues.

If it has been built recently, contact Building Control at the Local Authority in order to check whether it was constructed to a standard that will minimise the risk of structural damage. Alternatively, the Site may benefit from building warranty through companies such as the NHBC.

##### **Mining**

Our search indicates that the Site is not within a Coalfield Consultation Area.

Historical maps indicate that the Site formed part of a mine or quarry. The Site is located on land that was used as Quarrying of sand & clay, operation of sand & gravel pits, Quarrying of sand & clay, operation of sand & gravel pits, Extraction and Extraction.

We recommend that you consult a local RICS accredited surveyor to arrange the most suitable survey for the Site, to assess whether or not it is affected by ground stability issues.

If it has been built recently, contact Building Control at the Local Authority in order to check whether it was constructed to a standard that will minimise the risk of structural damage. Alternatively, the Site may benefit from building warranty through companies such as the NHBC.



# Executive Summary

## Radon

The Site is in a higher probability radon area, as between 10 to 30% of homes are estimated to be at or above the action level. As such, the Site has the potential to be affected by Radon. However, this does not necessarily mean that the Site is located on an area of high radon or that there is cause for concern.

As such, basic radon protective measures are necessary in the construction of new dwellings or extensions. Basic protective measures comprise a radon barrier laid across the footprint of the building.

As such, full radon protective measures are necessary in the construction of new dwellings or extensions. Full protective measures comprise a radon barrier laid across the footprint of the building, and provision for subfloor extraction or ventilation.

We recommend you follow Public Health England advice that homes in affected areas should be tested. For further information please contact the Public Health England (see Contacts section) or go to [www.ukradon.org](http://www.ukradon.org)



## Energy & Infrastructure

SEE PAGE 67 OR [CLICK HERE](#)

**IDENTIFIED**



## Professional Opinion and Recommendations

We have identified projects that may affect the Site or nearby area. These projects could result in visual impact or noise to the neighborhood. They could also affect nearby property values; this could be a negative affect or a positive one. For instance, being near a new rail link may boost values in the local area.

The Site is within 250m of above or below ground railways or trams. You may wish to visit the Site to understand any possible effect.



# Report Scope

Report Prepared on: **LAND AT NORTH LODGE FARM, , GREATFORD, STAMFORD**

Current Use: **Agricultural**

Proposed Use: **Agricultural**

Transaction Type: **Assumed purchase**

Site Area (m<sup>2</sup>): **870362.26**

National Grid Reference: **505320 311280**



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# Contaminated Land Consultant Commentary



## On-site Sources

**LOW TO MODERATE**

A review of historical maps dating from 1886 shows the following potentially contaminative land uses on the Site: railways c.1886-1959, quarried land c.1975.

According to current mapping and aerial photography the farm is occupied by arable land and grassland, with a pond in the east and former railway land in the west. No buildings are located on the farm. Redevelopment is proposed for agricultural use.

## Off-site Sources

**LOW TO MODERATE**

A review of historical maps dating from 1886 shows the following potentially contaminative uses within 100m of the farm: the wider extent of the railways, and additional railways adjacent north c.1886-2021.

According to current mapping and aerial photography the farm is surrounded by arable land and grassland, with farmyards and woodland located in the wider area. Railways border the north.

We have identified the following permits in proximity to the Site:

- A Discharge Consent operated by Tarmac Roadstone Ltd (East Midlands). This relates to the discharge of Trade Effluent to Freshwater Stream/River 1m east.

## Pathways and Receptors

**HIGH**

The general area appears to be in agricultural use, with residential properties located adjacent.

The superficial hydrogeology underlying the Site is classified as Secondary Aquifer - A and Secondary Aquifer - Undifferentiated. The bedrock hydrogeology is classified as Principal Aquifer, Secondary Aquifer - A, Secondary Aquifer - B and Unproductive Strata.

The Site does not lie within a groundwater Source Protection Zone (SPZ).

There are four non-potable abstraction licences located within 100m, including three on-Site for agricultural use, comprising stream abstraction in the south-east, groundwater abstraction in the south, and a surface water abstraction in the north-west.

There are no potable abstraction licences within 500m.

Numerous drains, ponds and the West Glen River are located on the Site.

Finally, no designated eco-receptors were identified within a 500m radius of the Site.

# Contaminated Land Consultant Commentary



## Additional Sources of Information

No additional sources of information have been used.

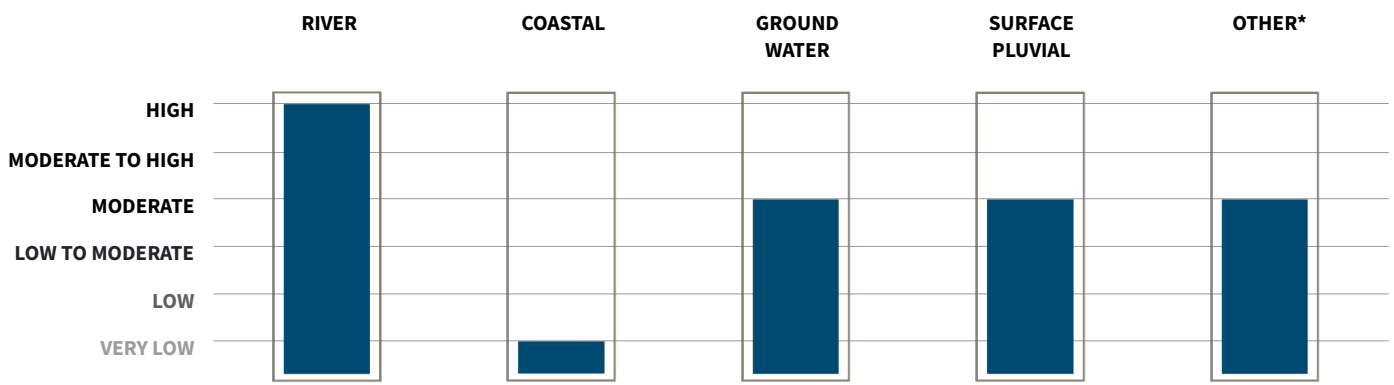
# Flood Risk

## Consultant Commentary



### Flood Analysis

Would a Flood Risk Assessment be required if development is proposed?	<b>YES (Full)</b>
What is the risk of flooding in an undefended scenario or assuming defences fail?	<b>HIGH</b>
Are there existing flood defences within 500m of the Site?	<b>YES</b>
What is the risk of flooding when these defences are operational?	<b>HIGH</b>



\* Other factors influencing flood risk include flood storage areas, historical floods, and proximity to water features.

### Argyll's Comment

<b>River</b>	As the West Glen River is located on the Site the Site is at a high risk of flooding. Although defences are located in the wider area, the Site remains at a high risk. This indicates the defences are not providing adequate protection.
<b>Coastal</b>	No commentary required.
<b>Groundwater</b>	The Site is located within an area that is at some risk of groundwater flooding. A rising water table could exceed the surface during extreme storm events. This will be more of a problem if the proposed development is to incorporate basements.
<b>Surface Water</b>	Data indicates that depths from surface water may range between 0.3-1m during a flood event. However, this relates to a pond and small areas across the Site. As a result, this is not representative of the overall risk. A larger area is at risk of flooding up to 0.3m, therefore risk is moderate.
<b>Other Factors</b>	As well as the West Glen River, numerous drainage channels are located on the Site. These may pose a risk during extreme storm events or in the event of a blockage.

# Contaminated Land

## Data Section



**Contaminated Land Data:** This section details the data used as part of our Contaminated Land Risk analysis. Each key dataset is mapped with the detail outlined beneath. We only show section headers beyond the tabular summary where we have found data to report. The relevant data has been reviewed by the report writer, supplemented by a review of historical mapping.

# contents

Tabular Summary	This section gives an overview of the data found at the Site and in the surrounding area. We present the data in three buffer zones, extending to a maximum of 500m. The search distances vary based on the scale of the activity and regulatory guidance. We display the number of records found in each database under the relevant heading. Where we have not searched a database, we will display the abbreviation N/A instead.
Authorised Industrial Processes	This section shows current and licensed activities relevant to contaminated land and environmental controls from a range of regulatory bodies. The search distances vary based on the scale of the activity.
Incidents and Enforcements	This section shows pollution incidents, licence enforcements and prosecutions. It also includes Contaminated Land Register Entries and Notices.
Landfill and Waste sites	This section presents detailed information on waste and landfill sites for the Site and surrounding area.
Current Land Use	This section shows contemporary trade directories and fuel stations. This information is indicative of operations at the Site and surrounding area, and may also relate to inactive or former land uses.
Historical Land Use	This section presents selected information on historical land use for the Site and surrounding area. The data shows historical land use information collected from 1:10,000 scale mapping, and for tanks and energy facilities 1:2,500 scale mapping. This includes polygon and point based land uses digitised by Landmark.
Groundwater Vulnerability	This section presents information relating to the aquifer designations beneath the Site. The aquifer designation of the Superficial and Bedrock geology are both mapped, followed by the detail. These aquifer designations are followed by information on the local geology. This information is considered in our Pathways and Receptors section.
Environmental Sensitivity	This section presents designated eco-receptors and sensitive area designations at the Site and in the surrounding area. This information is considered in our Pathways and Receptors section.





# Contaminated Land: Tabular Summary

## Authorised Industrial Processes

<b>Authorisations</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
Local Authority Pollution Prevention and Controls	0	0	N/A
Local Authority Integrated Pollution Prevention And Control	0	0	N/A
Integrated Pollution Controls	0	0	N/A
Environmental Permitting Regulations - Industry	0	0	N/A
Radioactive Substances Register*	0	0	N/A
<b>Discharges</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
Consented Discharges to Controlled Waters**	0	1	N/A
Referrals of Red List Discharges to Sewers (Corporate Entities)**	0	0	N/A
<b>Hazardous Sites</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
Control of Major Accident Hazards Sites (COMAH)	0	0	0
Explosive Sites	0	0	0
Notification of Installations Handling Hazardous Substances (NIHHS)	0	0	0
Planning Hazardous Substance Consents	0	0	0

## Incidents and Enforcements

<b>Contraventions</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
Contaminated Land Register Entries and Notices	0	0	0
Local Authority Pollution Prevention and Control Enforcements	0	0	N/A
Enforcement and Prohibition Notices	0	0	N/A
Planning Hazardous Substance Enforcements	0	0	N/A
Environmental Pollution Incidents	0	0	N/A
Prosecutions (Post 2000)	0	0	N/A

## Landfill and Waste Sites

<b>Landfill and Waste</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
BGS Recorded Landfill Sites	0	0	0
Integrated Pollution Control Registered Waste Sites	0	0	0
Permitted Waste Sites - Authorised Landfill Site Boundaries	0	0	0
Environmental Permitting Regulations - Waste Sites	0	0	0
Local Authority Recorded Landfill Sites	0	0	0
Registered Landfill Sites	0	0	0
Registered Waste Transfer Sites	0	0	N/A
Registered Waste Treatment or Disposal Sites	0	0	N/A
Historic Landfill	0	0	0



# Contaminated Land: Tabular Summary

## Current Land Use

Current Potentially Contaminative Uses	On-site	1-100m	101-250m
Contemporary Trade Directory Entries**	0	0	N/A
Fuel Station Entries	0	0	N/A

## Historical Land Use

Historical Potentially Contaminative Uses	On-site	1-100m	101-250m
Historical Tanks And Energy Facilities	0	0	N/A
Potentially Contaminative Industrial Uses (Past Land Use)	3	2	N/A

Potentially Infilled Land	On-site	1-100m	101-250m
Former Marshes	0	0	N/A
Potentially Infilled Land (Non-Water)	0	0	N/A
Potentially Infilled Land (Water)	1	0	N/A

## Groundwater Vulnerability

Hydrogeology	On-site	1-250m	251-500m
Superficial Aquifer Designations	Yes	N/A	N/A
Bedrock Aquifer Designations	Yes	N/A	N/A

## Geology

Geology	On-site	1-250m	251-500m
BGS 1:50,000 Bedrock Geology	Yes	N/A	N/A
BGS 1:50,000 Superficial Deposits	Yes	N/A	N/A
BGS 1:50,000 Geological Mapping Coverage	Yes	N/A	N/A



# Contaminated Land: Tabular Summary

## Environmental Sensitivity

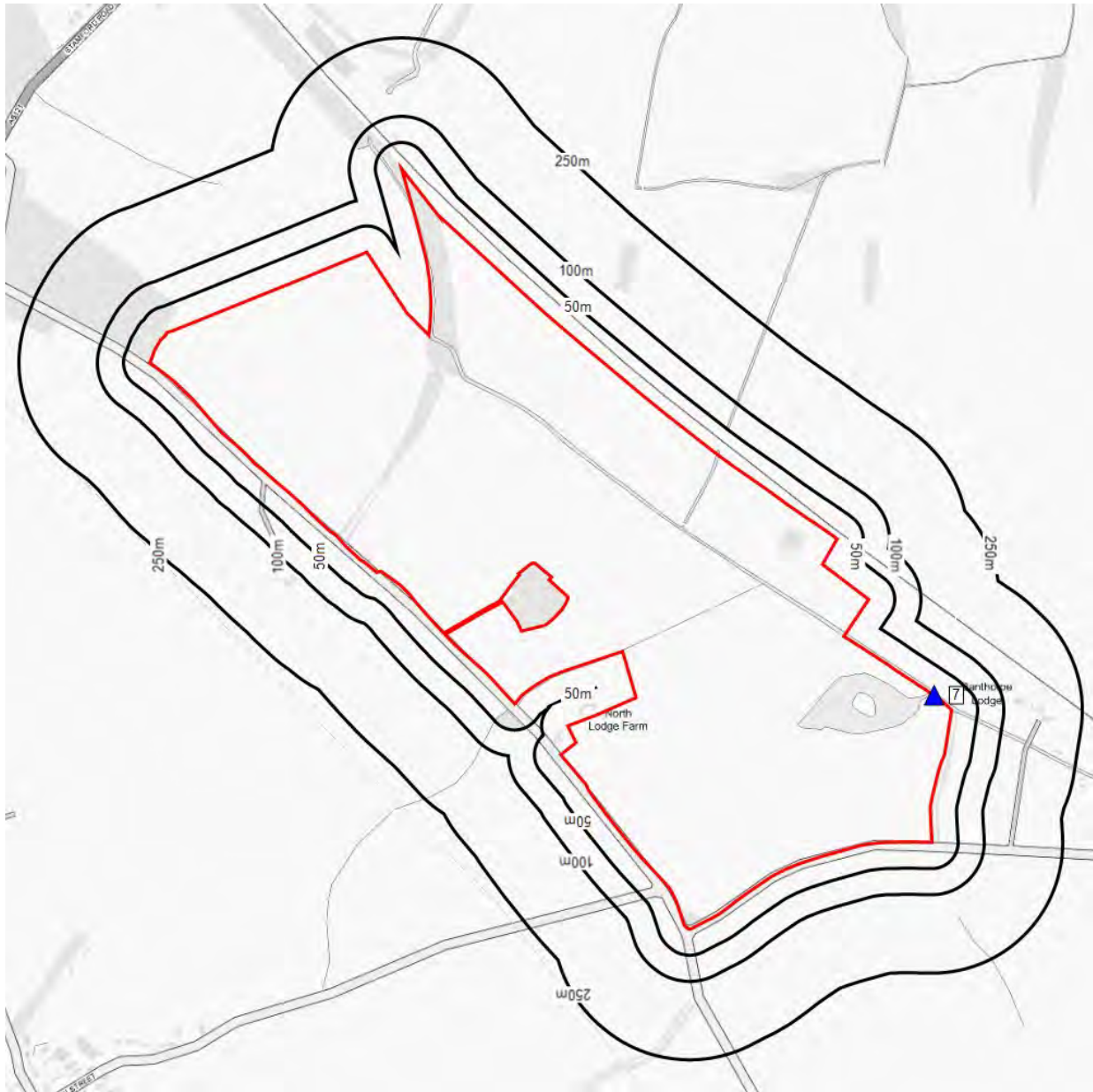
<b>Environmental Sensitivity</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Areas of Outstanding Natural Beauty	0	0	0
Environmentally Sensitive Areas	0	0	0
Forest Parks	0	0	0
Local Nature Reserves	0	0	0
Marine Conservation Zones	0	0	0
National Nature Reserves	0	0	0
National Parks	0	0	0
Ramsar Sites	0	0	0
Sites of Special Scientific Interest	0	0	0
Special Areas of Conservation	0	0	0
Special Protection Areas	0	0	0
Water Abstractions	3	1	0
Source Protection Zones	0	0	0

\*\*dataset searched to 25m

\*dataset searched to 50m



# Contaminated Land: Authorised Industrial Processes



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- |   |   |
|---|---|
| Site  | Consented Discharges to Controlled Waters                           |
| Multiple Features Present                                   | Referrals of Red List Discharges to Sewers (Corporate Entities)     |
| Local Authority Pollution Prevention and Controls           | Control of Major Accident Hazards Sites (COMAH)                     |
| Local Authority Integrated Pollution Prevention And Control | Explosive Sites   |
| Integrated Pollution Controls                               | Notification of Installations Handling Hazardous Substances (NIHHS) |
| Environmental Permitting Regulations - Industry             | Planning Hazardous Substance Consents                               |
| Radioactive Substances Register                             |   |



## Authorisations

### **Local Authority Pollution Prevention and Controls**

No features identified.

### **Local Authority Integrated Pollution Prevention And Control**

No features identified.

### **Integrated Pollution Controls**

No features identified.

### **Environmental Permitting Regulations - Industry**

No features identified.

### **Radioactive Substances Register**

No features identified.



## Discharges

### Consented Discharges to Controlled Waters

Map ID	Details	Distance	Direction	Contact
7	<p><b>Summary:</b> Trade Discharge <b>Date of Issue:</b> 5th June 1986 <b>Name:</b> Tarmac Roadstone Ltd (East Midlands) <b>Location:</b> Essendine Sand And Gravel Pit Greatford Road, Essendine, Leics <b>Discharge Type:</b> Trade Effluent <b>Property Type:</b> Undefined Or Other <b>Discharge Environment Type:</b> Freshwater Stream/River <b>Receiving Water:</b> River West Glen <b>Status:</b> Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</p>	1m	E	3

### Referrals of Red List Discharges to Sewers (Corporate Entities)

No features identified.



## Hazardous Sites

### **Control of Major Accident Hazards Sites (COMAH)**

No features identified.

### **Explosive Sites**

No features identified.

### **Notification of Installations Handling Hazardous Substances (NIHHS)**

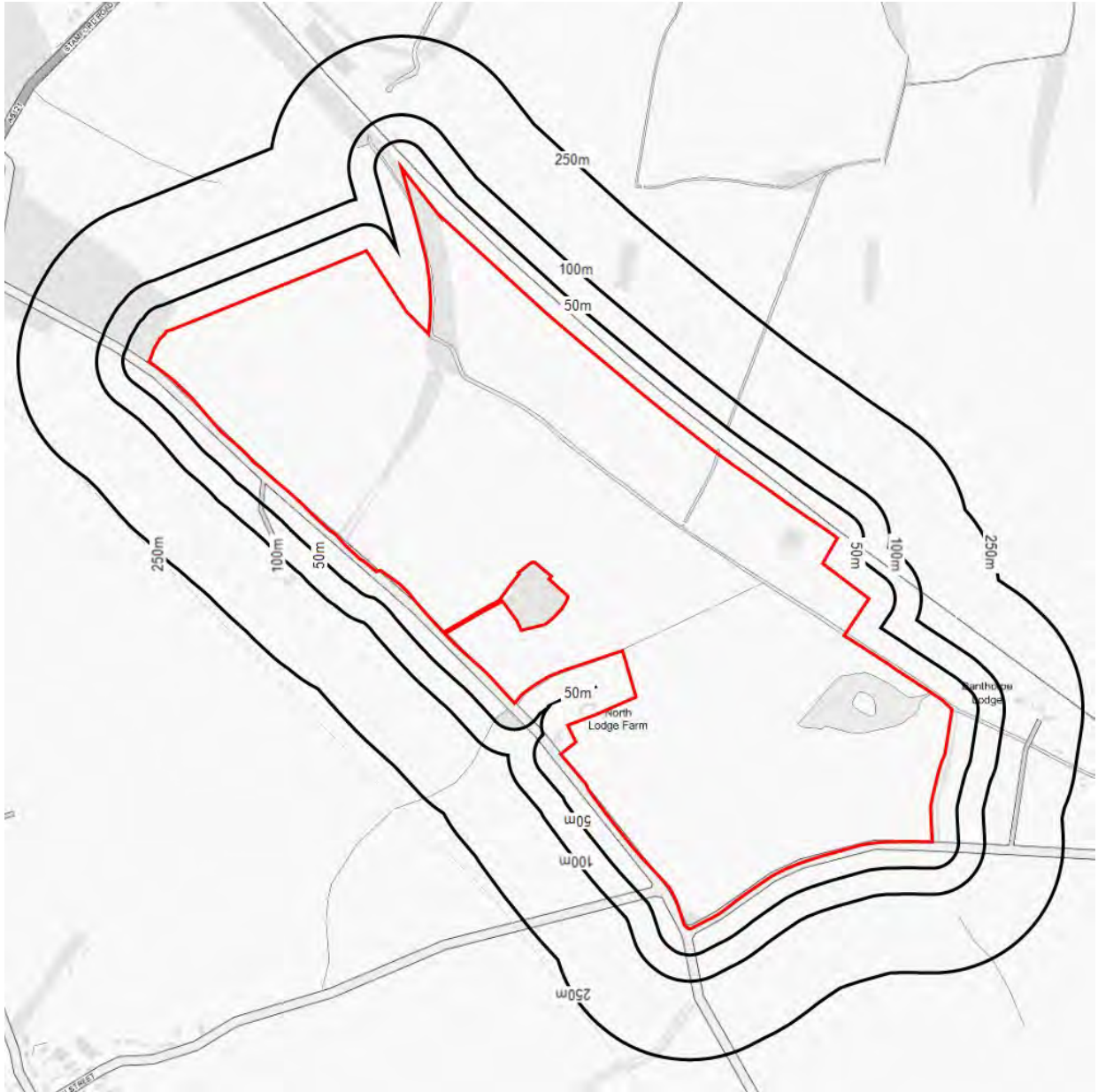
No features identified.

### **Planning Hazardous Substance Consents**

No features identified.



# Contaminated Land: Incidents and Enforcements



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- |  |   |  |   |
|--|---|--|---|
|  | Site  |  | Enforcement and Prohibition Notices       |
|  | Multiple Features Present                                     |  | Planning Hazardous Substance Enforcements |
|  | Contaminated Land Register Entries and Notices                |  | Environmental Pollution Incidents         |
|  | Local Authority Pollution Prevention and Control Enforcements |  | Prosecutions (Post 2000)                  |





## Contraventions

### **Contaminated Land Register Entries and Notices**

No features identified.

### **Local Authority Pollution Prevention and Control Enforcements**

No features identified.

### **Enforcement and Prohibition Notices**

No features identified.

### **Planning Hazardous Substance Enforcements**

No features identified.

### **Environmental Pollution Incidents**

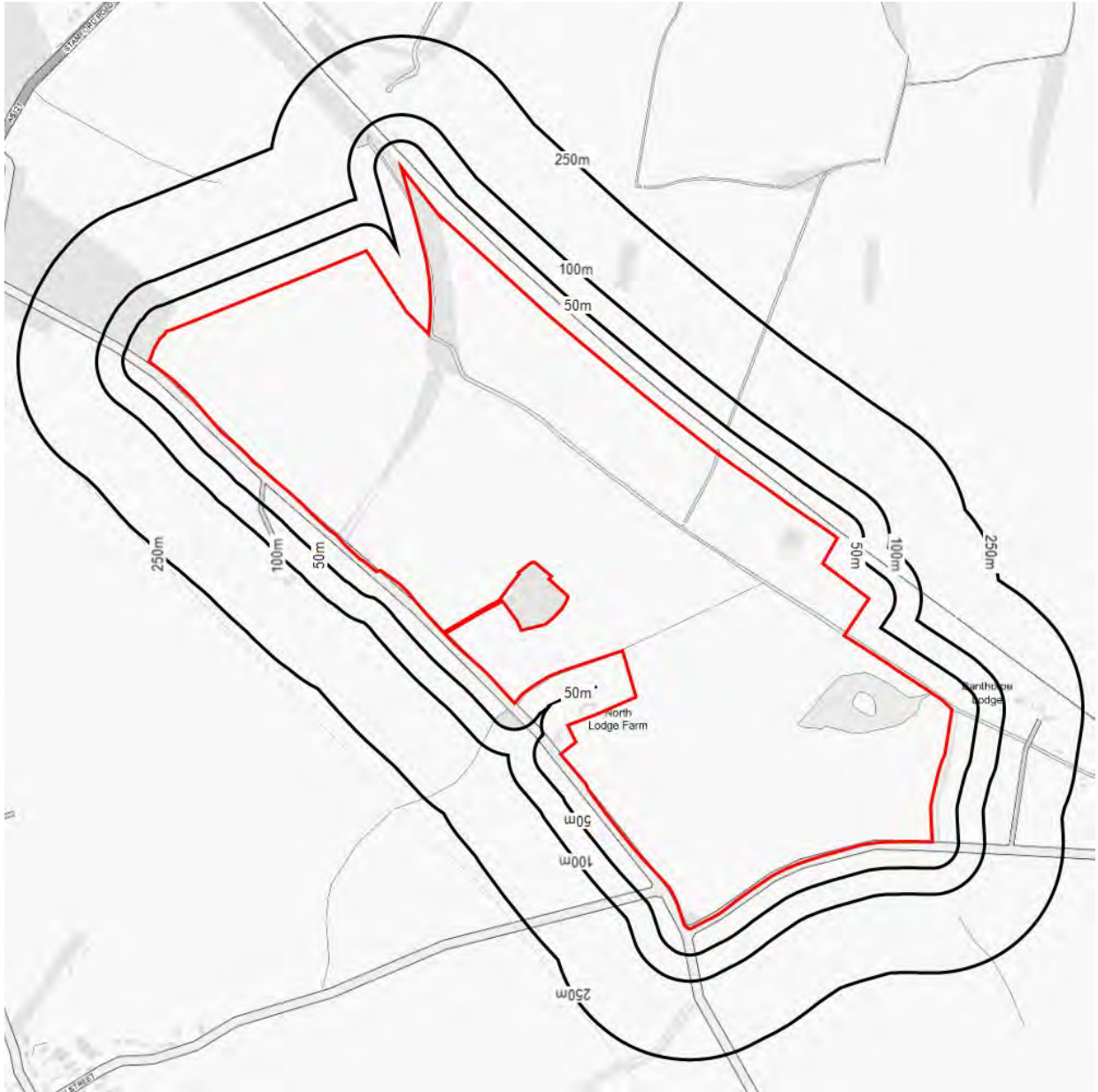
No features identified.

### **Prosecutions (Post 2000)**

No features identified.



# Contaminated Land: Landfill and Waste



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- |  |   |  |  |  |
|--|---|--|--|--|
|  | Site  |  |  | Local Authority Recorded Landfill Sites      |
|  | Multiple Features Present                                   |  |  | Registered Landfill Sites                    |
|  |   |  |  | Registered Waste Transfer Sites              |
|  |   |  |  | Registered Waste Treatment or Disposal Sites |
|  |   |  |  | Historic Landfill                            |
|  | Permitted Waste Sites - Authorised Landfill Site Boundaries |  |  |  |
|  | Environmental Permitting Regulations - Waste Sites          |  |  |  |



## Landfill and Waste

### **BGS Recorded Landfill Sites**

No features identified.

### **Integrated Pollution Control Registered Waste Sites**

No features identified.

### **Permitted Waste Sites - Authorised Landfill Site Boundaries**

No features identified.

### **Environmental Permitting Regulations - Waste Sites**

No features identified.

### **Local Authority Recorded Landfill Sites**

No features identified.

### **Registered Landfill Sites**

No features identified.

### **Registered Waste Transfer Sites**

No features identified.

### **Registered Waste Treatment or Disposal Sites**

No features identified.

### **Historic Landfill**

No features identified.



# Contaminated Land: Current Land Uses



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Site



Multiple Features Present



Contemporary Trade Directory Entries



Fuel Station Entries



# Contaminated Land: Current Land Uses

---

## Current Potentially Contaminative Uses

### **Contemporary Trade Directory Entries**

No features identified.

### **Fuel Station Entries**

No features identified.



# Contaminated Land: Historical Land Uses



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- |  |   |  |                                       |
|--|---|--|---------------------------------------|
|  | Site  |  | Former Marshes                        |
|  | Multiple Features Present                                 |  | Potentially Infilled Land (Non-Water) |
|  | Historical Tanks And Energy Facilities                    |  | Potentially Infilled Land (Water)     |
|  | Potentially Contaminative Industrial Uses (Past Land Use) |  |                                       |



# Contaminated Land: Historical Land Uses

## Historical Potentially Contaminative Uses

### Historical Tanks And Energy Facilities

No features identified.

### Potentially Contaminative Industrial Uses (Past Land Use)

Map ID	Details	Distance	Direction	Contact
1	Class: Quarrying of sand & clay, operation of sand & gravel pits Map Published Date: 1983	0m	SE	1
2	Class: Quarrying of sand & clay, operation of sand & gravel pits Map Published Date: 1983	0m	SW	1
3	Class: Railways Map Published Date: 1892-1958	0m	NW	1
5	Class: Railways Map Published Date: 1905-1958	7m	N	1
6	Class: Railways Map Published Date: 1892-1983	16m	NE	1



# Contaminated Land: Historical Land Uses

## Potentially Infilled Land

### Former Marshes

No features identified.

### Potentially Infilled Land (Non-Water)

No features identified.

### Potentially Infilled Land (Water)

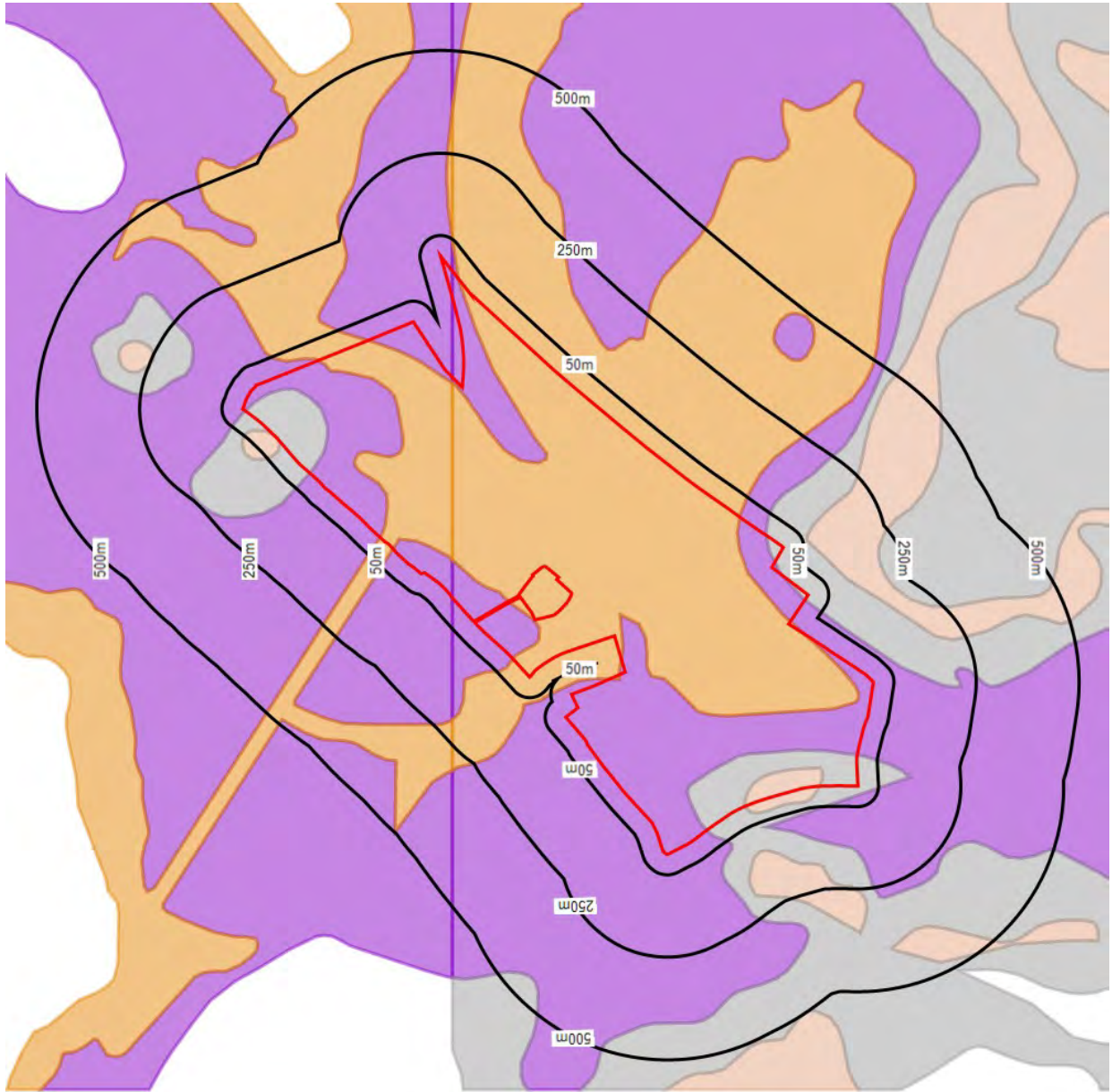
Map ID	Details	Distance	Direction	Contact
4	Details: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Map Published Date: 1905	0m	N	1





# Contaminated Land: Groundwater Vulnerability

## Bedrock



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Site

Principal Aquifer

Secondary Aquifer A

Secondary Aquifer B

Secondary Aquifer Undifferentiated

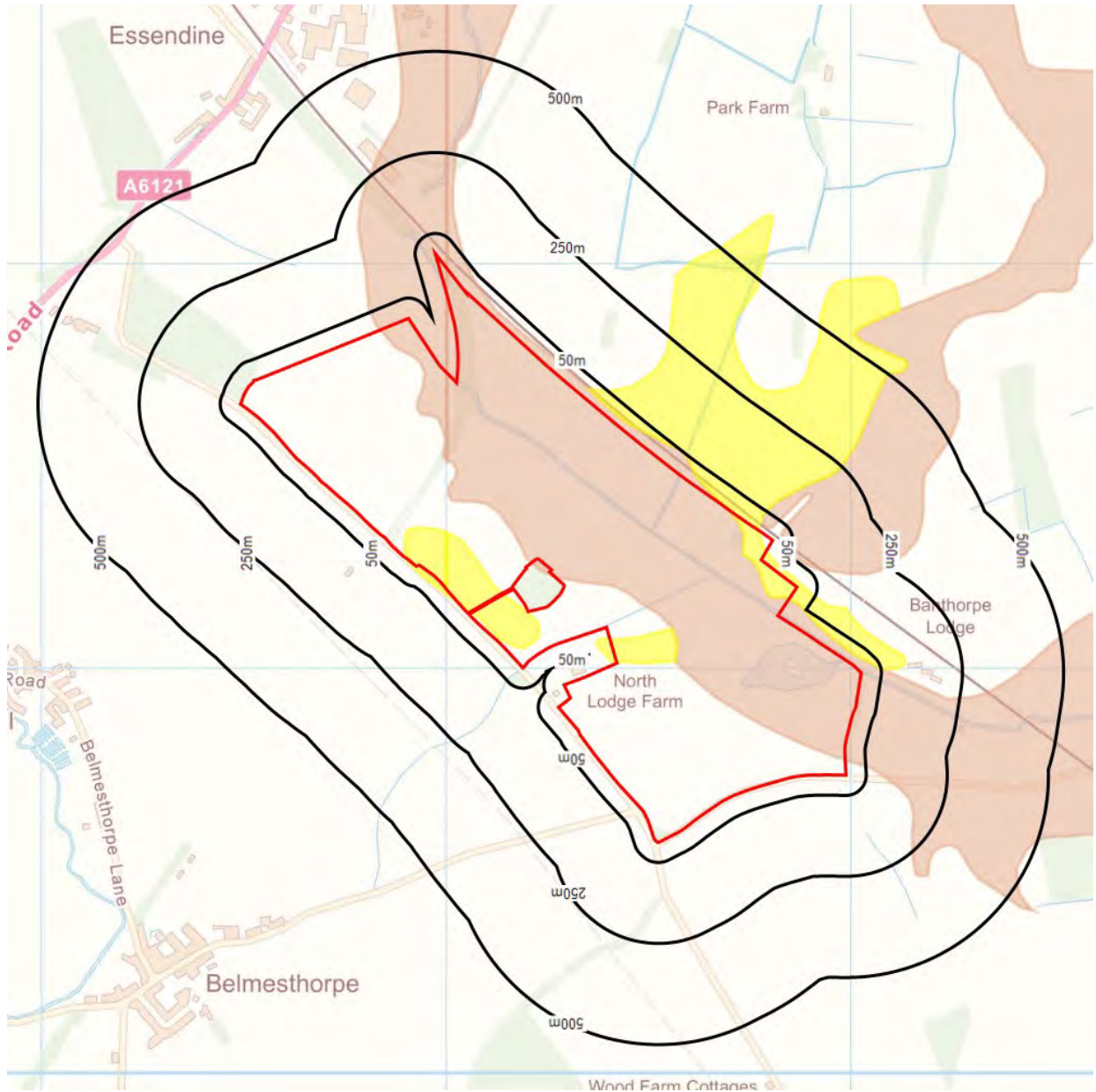
Unproductive Strata

Unknown



# Contaminated Land: Groundwater Vulnerability

## Superficial



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- |                     |                                    |
|---------------------|------------------------------------|
| Site                | Secondary Aquifer Undifferentiated |
| Principal Aquifer   | Unproductive Strata                |
| Secondary Aquifer A | Unknown                            |
| Secondary Aquifer B | Unknown (lakes and Landslips)      |



## Hydrogeology

### Bedrock Aquifer Designations

Details	Distance	Direction	Contact
Aquifer Designation: Principal Aquifer	0m	W	4
Aquifer Designation: Unproductive Strata	0m	NW	4
Aquifer Designation: Secondary Aquifer - B	0m	W	4
Aquifer Designation: Secondary Aquifer - A	0m	W	4

### Superficial Aquifer Designations

Details	Distance	Direction	Contact
Aquifer Designation: Secondary Aquifer - Undifferentiated	0m	W	4
Aquifer Designation: Secondary Aquifer - A	0m	N	4



## Geology

### BGS 1:50,000 Bedrock Geology

Details	Distance	Direction	Contact
<b>Lex Code:</b> BWL <b>Rock Name:</b> Blisworth Limestone Formation <b>Rock Type:</b> Limestone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bathonian	0m	W	5
<b>Lex Code:</b> BWL <b>Rock Name:</b> Blisworth Limestone Formation <b>Rock Type:</b> Limestone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bathonian	0m	SW	5
<b>Lex Code:</b> BWC <b>Rock Name:</b> Blisworth Clay Formation <b>Rock Type:</b> Mudstone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bathonian	0m	NW	5
<b>Lex Code:</b> CB <b>Rock Name:</b> Cornbrash Formation <b>Rock Type:</b> Limestone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bathonian	0m	W	5
<b>Lex Code:</b> BWC <b>Rock Name:</b> Blisworth Clay Formation <b>Rock Type:</b> Mudstone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bathonian	0m	SE	5
<b>Lex Code:</b> CB <b>Rock Name:</b> Cornbrash Formation <b>Rock Type:</b> Limestone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bathonian	0m	SE	5
<b>Lex Code:</b> RLD <b>Rock Name:</b> Rutland Formation <b>Rock Type:</b> Argillaceous Rocks with Subordinate Sandstone and Limestone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bajocian	0m	N	5
<b>Lex Code:</b> BWL <b>Rock Name:</b> Blisworth Limestone Formation <b>Rock Type:</b> Limestone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bathonian	0m	SE	5
<b>Lex Code:</b> ULL <b>Rock Name:</b> Upper Lincolnshire Limestone Member <b>Rock Type:</b> Limestone <b>Min Age:</b> Not Supplied <b>Max Age:</b> Bajocian	0m	NW	5



Details	Distance	Direction	Contact
Lex Code: BWC Rock Name: Blisworth Clay Formation Rock Type: Mudstone Min Age: Not Supplied Max Age: Bathonian	0m	E	5

## BGS 1:50,000 Superficial Deposits

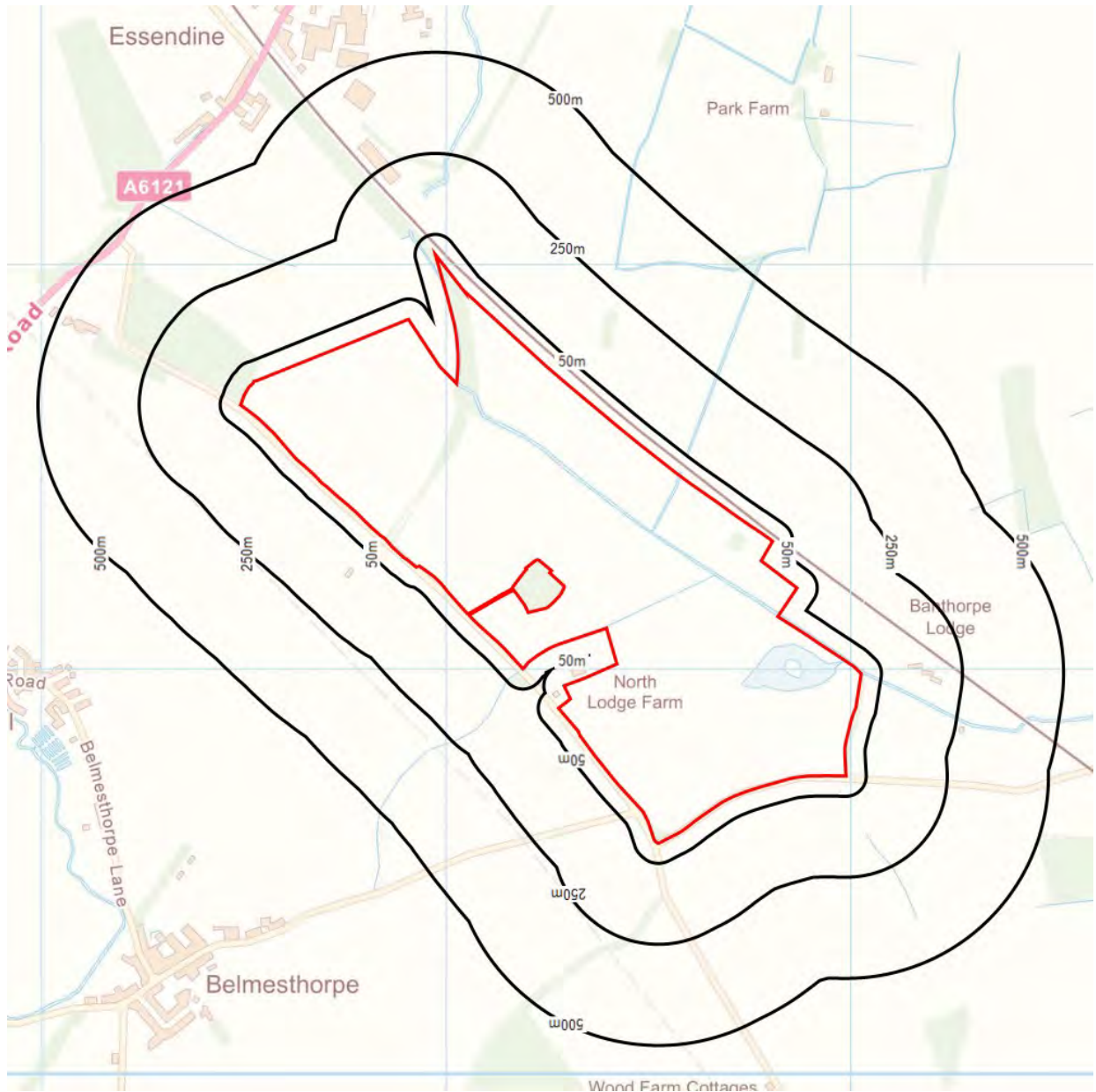
Details	Distance	Direction	Contact
Lex Code: ALV Rock Name: Alluvium Rock Type: Clay, Silt, Sand and Gravel Min Age: Not Supplied Max Age: Holocene	0m	NE	5
Lex Code: HEAD Rock Name: Head Rock Type: Clay, Silt, Sand and Gravel Min Age: Not Supplied Max Age: Quaternary	0m	S	5
Lex Code: HEAD Rock Name: Head Rock Type: Clay, Silt, Sand and Gravel Min Age: Not Supplied Max Age: Quaternary	0m	NE	5
Lex Code: RTD1 Rock Name: River Terrace Deposits, 1 Rock Type: Sand and Gravel Min Age: Not Supplied Max Age: Quaternary	0m	N	5
Lex Code: RTD1 Rock Name: River Terrace Deposits, 1 Rock Type: Sand and Gravel Min Age: Not Supplied Max Age: Quaternary	0m	N	5
Lex Code: TILMP Rock Name: Till, Mid Pleistocene Rock Type: Diamicton Min Age: Not Supplied Max Age: Cromerian	0m	SW	5

## BGS 1:50,000 Geological Mapping Coverage

Details	Distance	Direction	Contact
Map Sheet No: 157 Map Name: Stamford Bedrock Geology: Available Superficial Geology: Available	0m	N	5



# Contaminated Land: Environmental Sensitivity

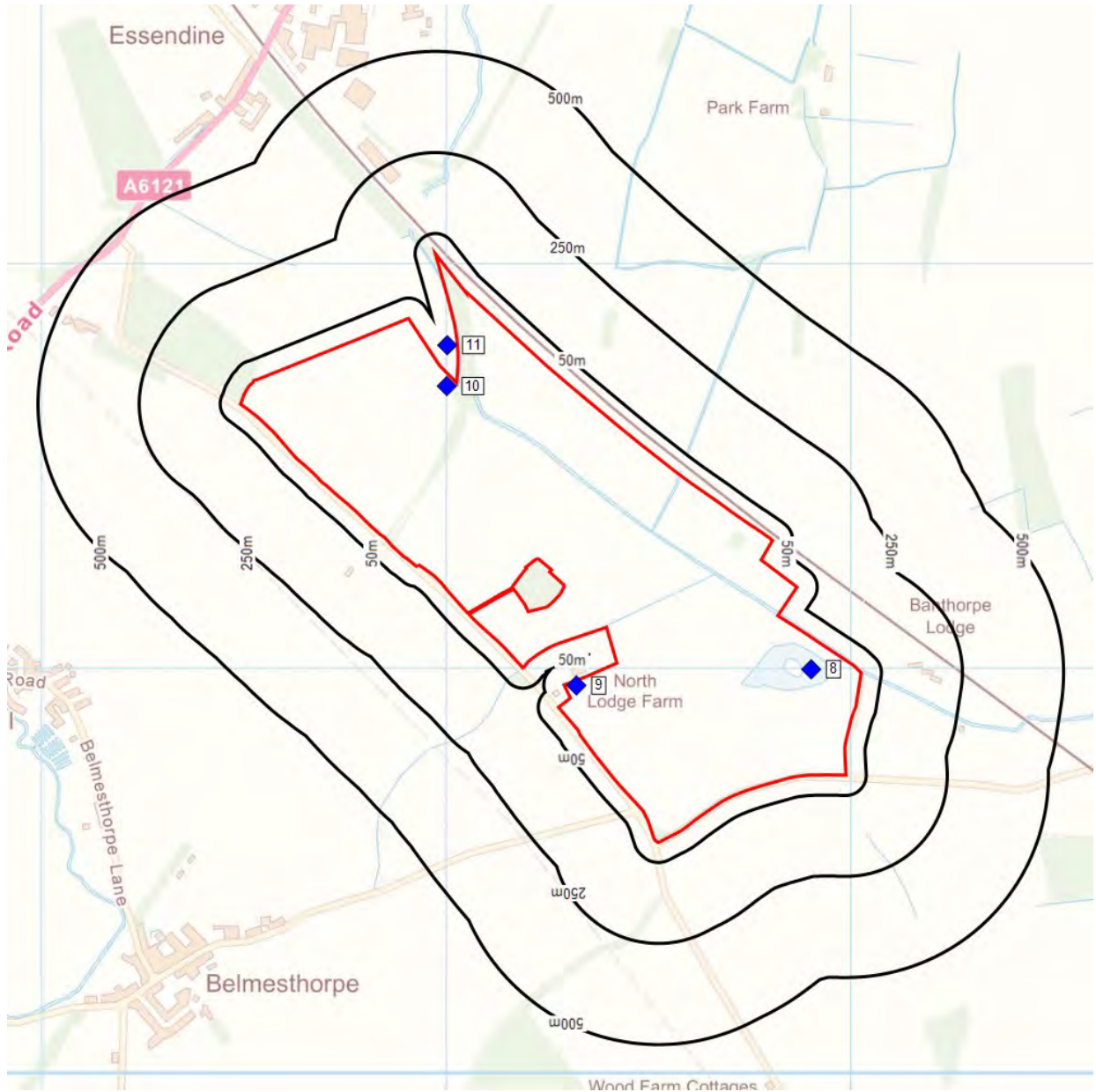


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Site	Local Nature Reserves	RAMSAR Sites
Multiple Features Present	Marine Nature Reserves	Sites of Special Scientific Interest
Areas of Outstanding Natural Beauty	National Nature Reserves	Special Areas of Conservation
Environmentally Sensitive Areas	National Parks	Special Protection Areas
Forest Parks	National Scenic Areas	



# Contaminated Land: Source Protection Zones



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- |                           |                           |
|---------------------------|---------------------------|
| Site                      | Outer Zone (Zone 2c)      |
| Multiple Features Present | Total Catchment (Zone 3)  |
| Inner Zone (zone 1)       | Total Catchment (Zone 3c) |
| Inner Zone (zone 1c)      | Special Interest (Zone 4) |
| Outer Zone (Zone 2)       | Water Abstractions        |



## Environmental Sensitivity

### Areas of Outstanding Natural Beauty

No features identified.

### Environmentally Sensitive Areas

No features identified.

### Forest Parks

No features identified.

### Local Nature Reserves

No features identified.

### Marine Conservation Zones

No features identified.

### National Nature Reserves

No features identified.

### National Parks

No features identified.

### Ramsar Sites

No features identified.

### Sites of Special Scientific Interest

No features identified.

### Special Areas of Conservation

No features identified.

### Special Protection Areas

No features identified.

### Water Abstractions

Map ID	Details	Distance	Direction	Contact
8	Abstraction Source: Stream Abstraction Type: Abstractions Agricultural Reference:	0m	SE	3
9	Abstraction Source: Groundwater Abstraction Type: Abstractions Agricultural Reference:	0m	S	3
10	Abstraction Source: Surface Abstraction Type: Abstractions Agricultural Reference:	0m	NW	3





# Contaminated Land: Environmental Sensitivity

---

Map ID	Details	Distance	Direction	Contact
11	Abstraction Source: Stream Abstraction Type: Abstractions Agricultural Reference:	25m	NW	3

## Source Protection Zones

No features identified.

# Flood Risk

## Data Section



**Flood Risk Data:** This section details the data used as part of our Flood Risk analysis. Each key source of flooding has the data mapped with the detail outlined beneath. All relevant data in this section has been reviewed by the report writer and taken into account in the overall analysis. As a result, the individual risks in the data below may vary from our overall opinion.

# contents

<b>Tabular Summary</b>	This section gives an overview of the data at the Site and in the surrounding area. We present the data in three buffer zones, extending to a maximum of 500m. Where we have not been able to search a database, we will display the abbreviation N/A instead.
<b>River and Coastal Flooding</b>	The data used to form our river and coastal flood risk analysis includes: <ul style="list-style-type: none"><li>• <b>Flood Zones:</b> Created for land-use planning, Flood Zones map the likelihood of flooding assuming no defences are present, fail or are over-topped. This data is presented as FZ1, FZ2 or FZ3.</li><li>• <b>Risk of Flooding from Rivers and Seas (RoFRS):</b> Provides an indication of flood risk taking into account the presence of defences and the level of protection they offer.</li><li>• <b>Flood Defences:</b> Recorded by the regulatory body, and includes defence type and standard of protection.</li><li>• <b>Areas Benefiting from Flood Defences:</b> Areas defined as having protection of at least 1 in 100 for river and 1 in 200 for coastal.</li><li>• <b>Flood Storage Areas:</b> Areas that store floodwater during flood events.</li></ul>
<b>Surface Water Flooding</b>	We present the risk of surface water flooding in three separate return periods: <ul style="list-style-type: none"><li>• 1:75</li><li>• 1:200</li><li>• 1:1000</li></ul> Each map will show the likely flood depth bandings within each of these return periods.
<b>Groundwater Flooding</b>	The data takes into account the two key mechanisms of groundwater flooding; clearwater and permeable superficial deposits.
<b>Other Factors</b>	This section accounts for risk that is not tied to modelled data. It includes historical floods, proximity to water features and elevation above both of these features.



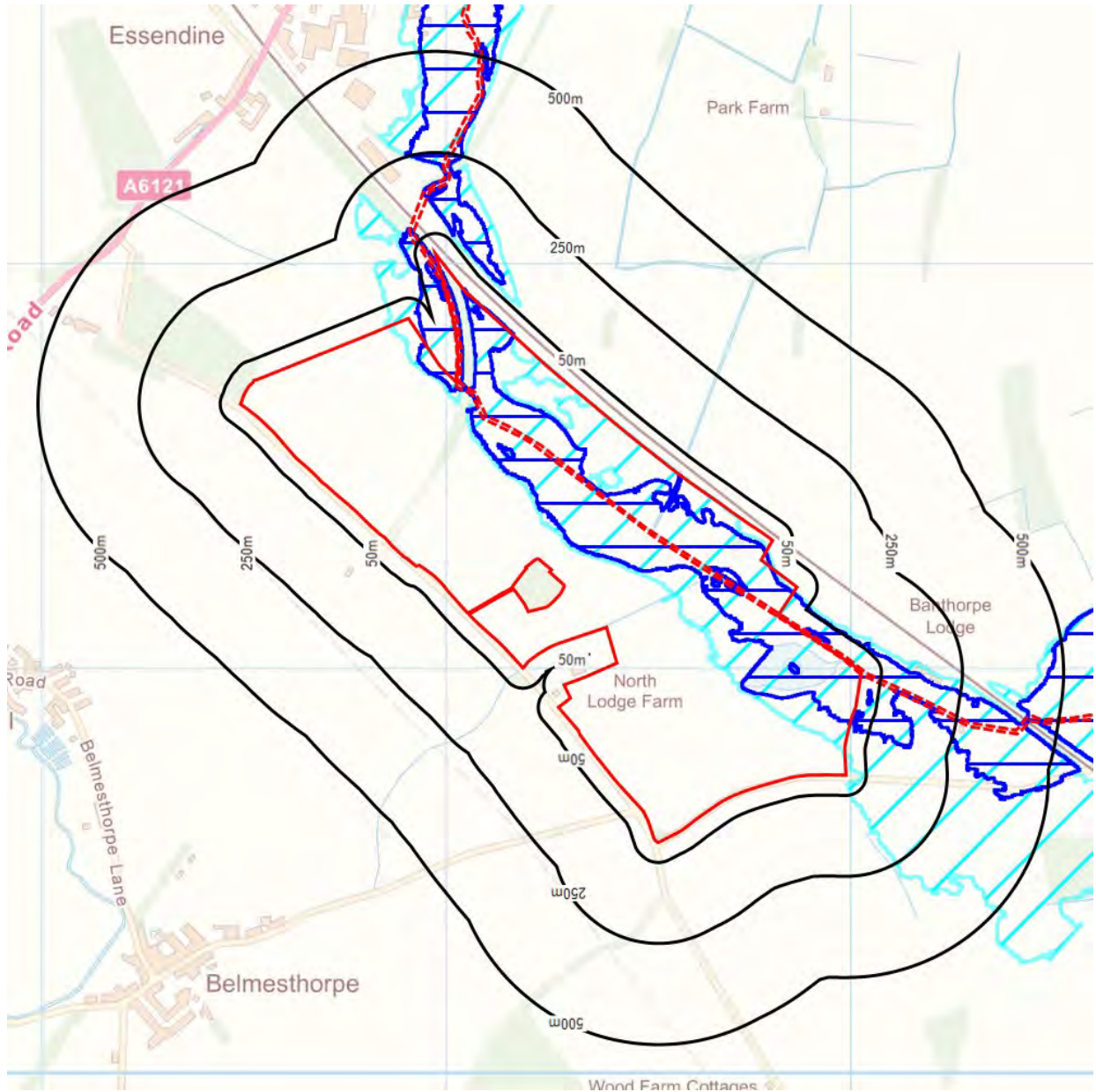
# Flood Risk: Tabular Summary

## Flooding

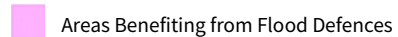
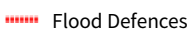
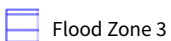
<b>River and Coastal Flooding</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Flooding from Rivers or Sea without Defences (Flood Zone 3)	Yes	Yes	No
Extreme Flooding from Rivers or Sea without Defences (Flood Zone 2)	Yes	Yes	No
Areas Benefitting from Flood Defences	No	No	No
Spatial Flood Defences (with attributes)	Yes	No	No
Risk of Flooding from Rivers and Sea (RoFRS)	Yes	Yes	Yes
<b>Surface Water Flooding</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
JBA Pluvial 75 Depths	Yes	Yes	Yes
JBA Pluvial 200 Depths	Yes	Yes	Yes
JBA Pluvial 1000 Depths	Yes	Yes	Yes
<b>Groundwater Flooding</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Groundwater Flood Risk 5m	Yes	Yes	Yes
<b>Other Factors</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Flood Storage Areas	No	No	No
Recorded Flood Outlines	No	No	No
OS VectorMap District - Water Features	No	No	No
OS MasterMap Water Network	Yes	Yes	Yes



# Flood Risk: River and Coastal (map 1)

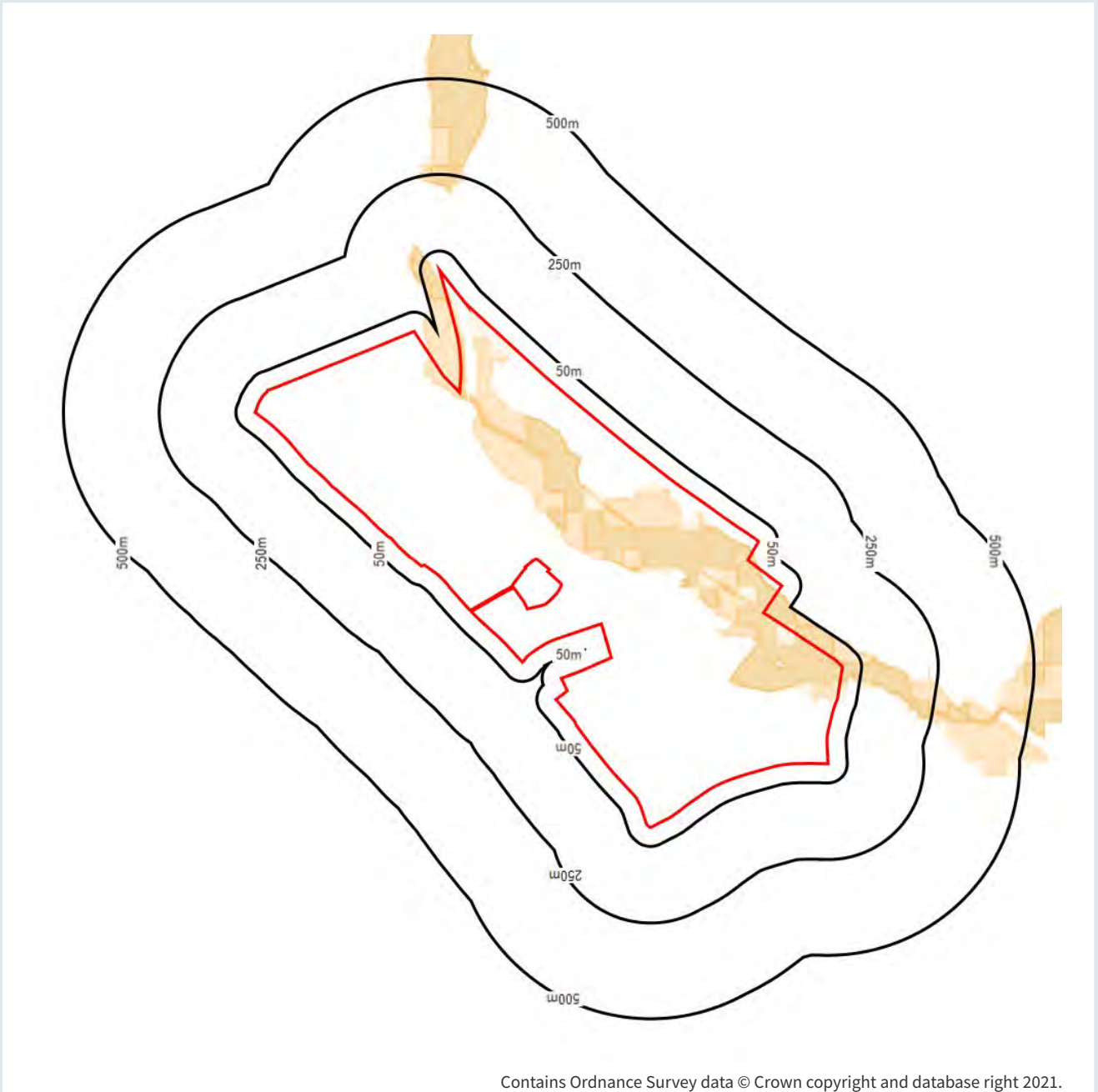


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# Flood Risk: River and Coastal (map 2)



RoFRS - Very Low



RoFRS - Low



RoFRS - Medium



RoFRS - High



# Flood Risk: River and Coastal

## Flooding from Rivers or Sea without Defences (Flood Zone 3)

Details	Distance	Direction	Contact
Environment Agency	0m	NE	3

## Extreme Flooding from Rivers or Sea without Defences (Flood Zone 2)

Details	Distance	Direction	Contact
Environment Agency	0m	NE	3

## Areas Benefitting from Flood Defences

No features identified.

## Spatial Flood Defences (with attributes)

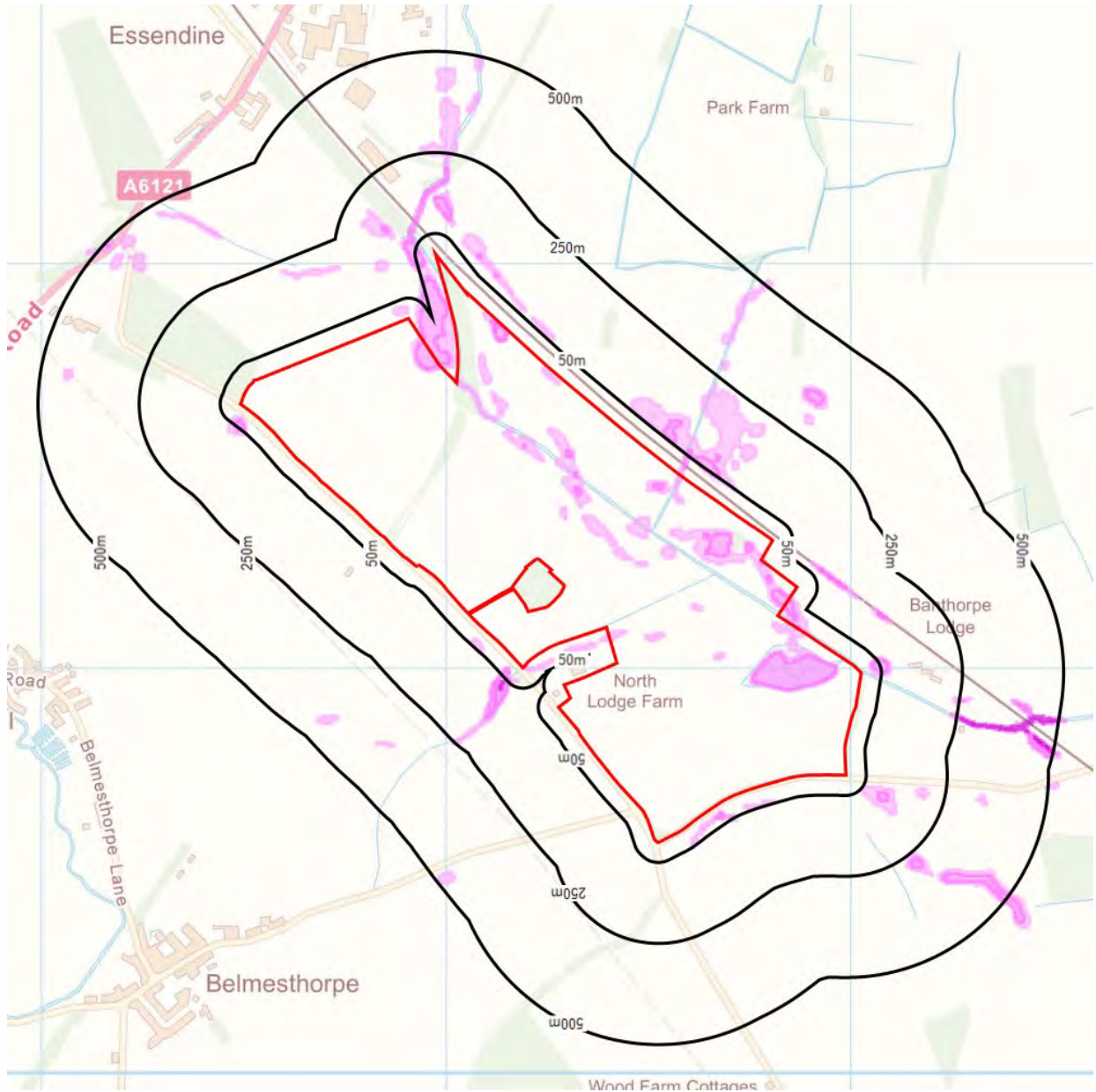
Details	Distance	Direction	Contact
Environment Agency	0m	NE	3

## Risk of Flooding from Rivers and Sea (RoFRS)

Details	Distance	Direction	Contact
Risk: Medium	0m	E	3
Risk: Low	0m	E	3
Risk: High	0m	E	3





# Flood Risk: Surface Water (1:75 year event)




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 Site

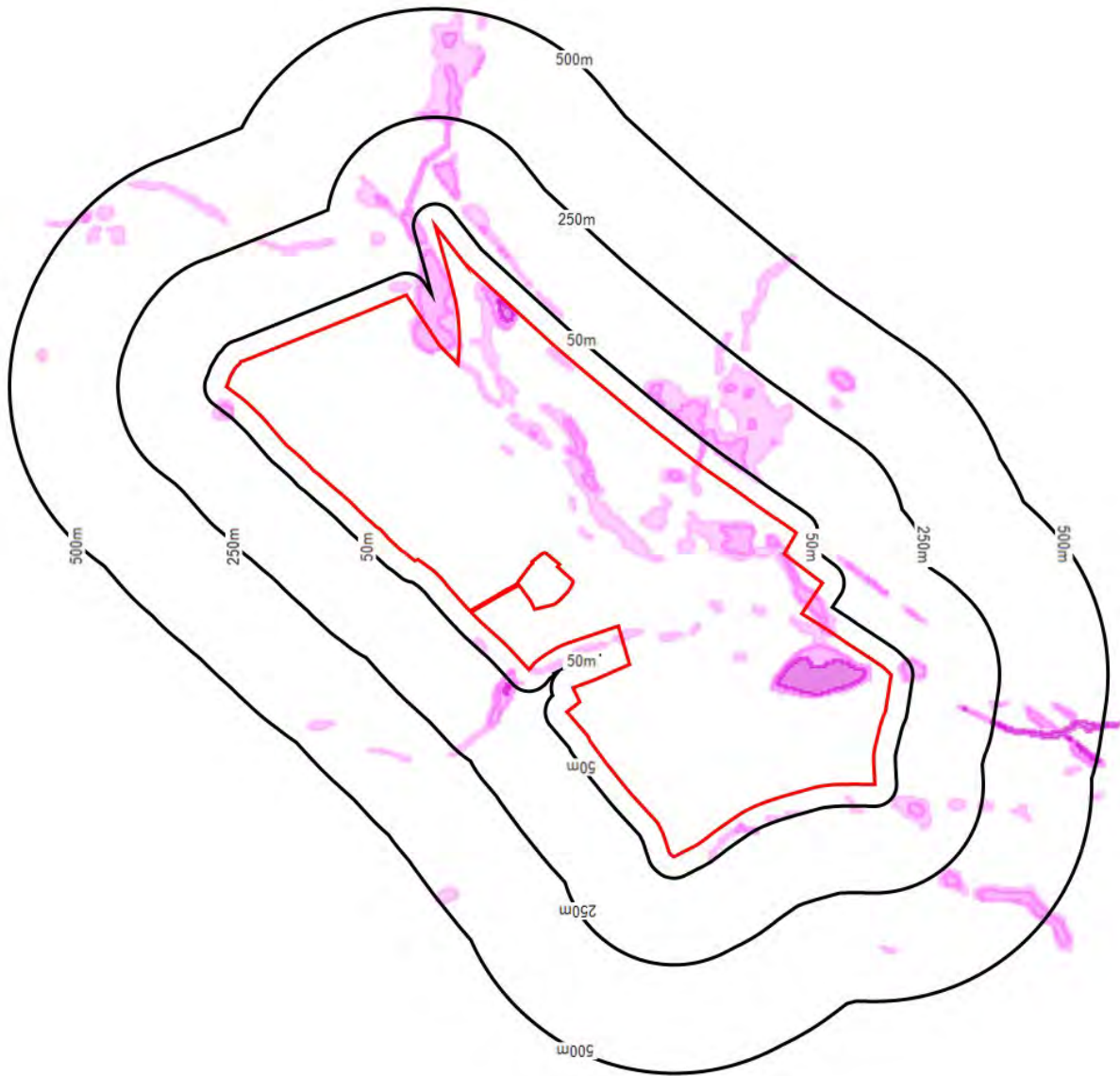
 10cm – 30cm depth

 30cm – 1m depth

 1m + depth





# Flood Risk: Surface Water (1:200 year event)




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 Site

 10cm - 30cm depth

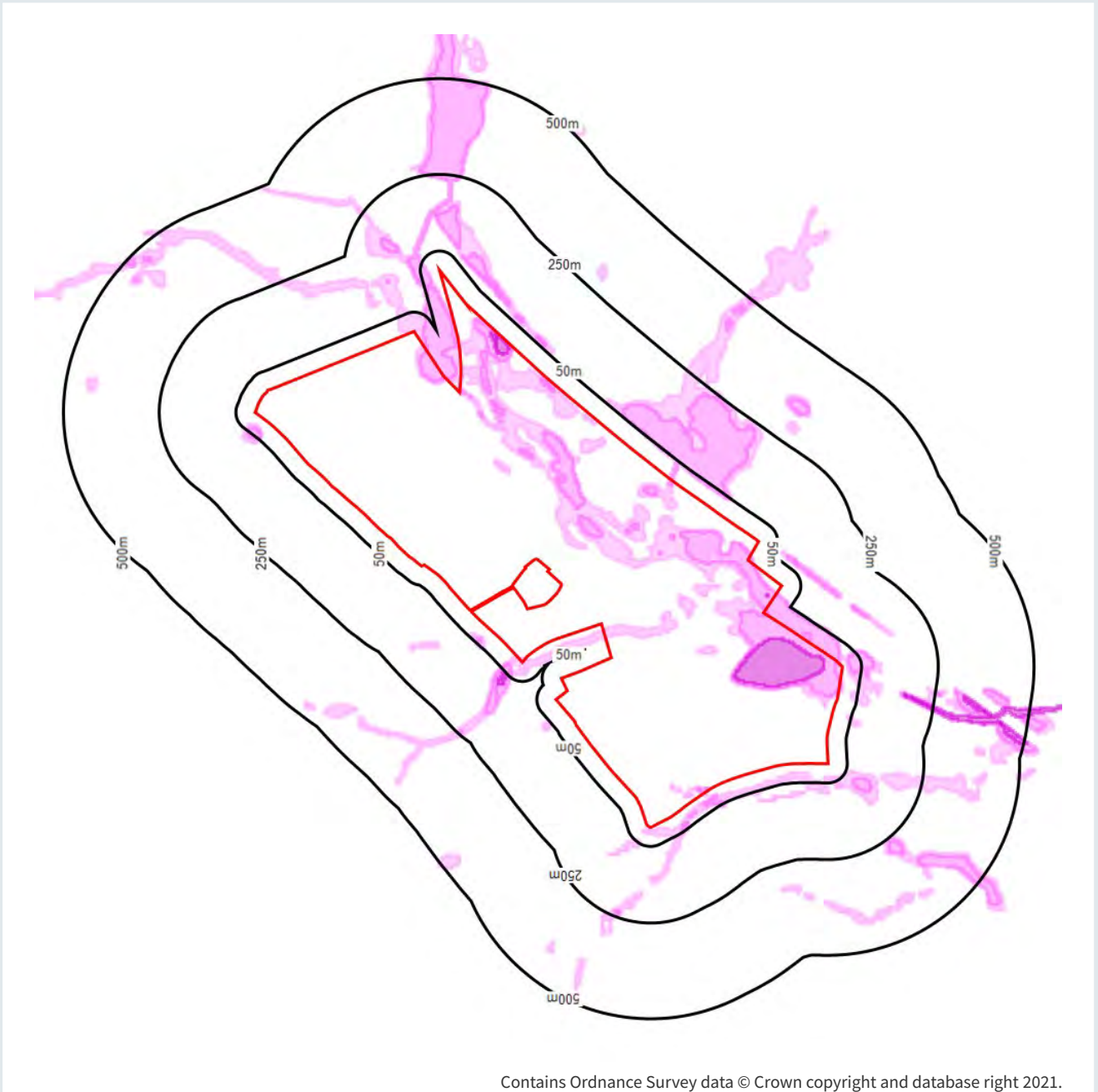
 30cm - 1m depth

 1m + depth








# Flood Risk: Surface Water (1:1000 year event)



 Site

 10cm - 30cm depth

 30cm - 1m depth

 1m + depth



# Flood Risk: Surface Water

## JBA Pluvial 75 Depths

Details	Distance	Direction	Contact
Type: Greater than 0.1m and Less than or equal to 0.3m	0m	NW	1
Type: Greater than 0.3m and Less than or equal to 1.0m	0m	NW	1
Type: Greater than 1.0m	58m	SW	1

## JBA Pluvial 200 Depths

Details	Distance	Direction	Contact
Type: Greater than 0.1m and Less than or equal to 0.3m	0m	N	1
Type: Greater than 1.0m	0m	N	1
Type: Greater than 0.3m and Less than or equal to 1.0m	0m	N	1
Type: Equal to 0.1m	133m	SE	1

## JBA Pluvial 1000 Depths

Details	Distance	Direction	Contact
Type: Greater than 0.1m and Less than or equal to 0.3m	0m	SE	1
Type: Greater than 0.3m and Less than or equal to 1.0m	0m	SE	1
Type: Greater than 1.0m	0m	SE	1

Flood data provided by JBA Risk Management Limited. © Copyright JBA Risk Management Limited 2008-2021



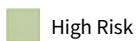
# Flood Risk: Groundwater



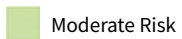
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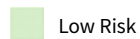
Site



High Risk



Moderate Risk



Low Risk



Negligible Risk



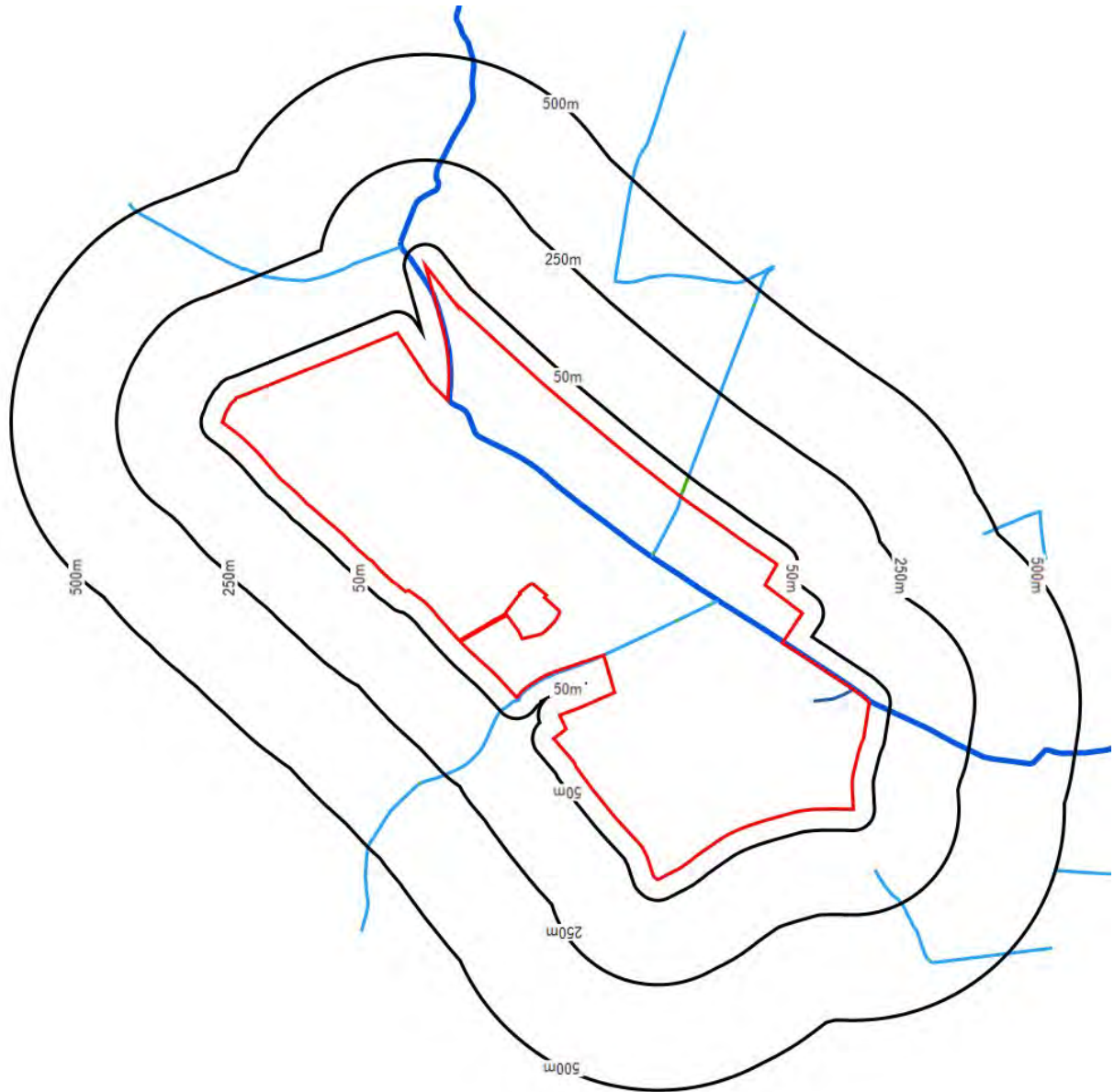
# Flood Risk: Groundwater

## Groundwater Flood Risk 5m

Details	Distance	Direction	Contact
Type: Low	0m	SE	1
Type: Moderate	0m	NW	1
Type: High	0m	NW	1
Type: Negligible	0m	NW	1



# Flood Risk: Other



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- |                         |                         |
|-------------------------|-------------------------|
| Site                    | Tidal River             |
| Water Feature           | Lake or Reservoir       |
| Flood Storage Areas     | Forshore and Sea        |
| Recorded Flood Outlines | Underground River       |
| Primary Flow (named)    | Marsh                   |
| Primary Flow (un-named) | Canal, Lock or Transfer |
| Secondary Flow          |                         |



# Flood Risk: Other

## Flood Storage Areas

No features identified.

## Recorded Flood Outlines

No features identified.

## OS VectorMap District - Water Features

No features identified.

## OS MasterMap Water Network

Details	Distance	Direction	Contact
Name: Type: Primary Flow (un-named)	0m	SE	2
Name: West Glen River Type: Primary Flow (named)	0m	E	2
Name: Type: Underground River	0m	E	2
Name: Type: Lake or Reservoir	0m	SE	2

# Agricultural Considerations

## Data Section



**Agricultural Data:** This section presents data relating to designated features and land classifications that could be of relevance to the Site.

# contents

## Tabular Summary

This section gives an overview of the data found at the Site and in the surrounding area. We present the data to a maximum of 100m. We display the number of records found in each database under the relevant heading. Where we have not been able to search a database, we will display the abbreviation N/A instead.

## Land classifications

- **Environmental Stewardship Schemes:** The Environmental Stewardship Scheme aims to secure widespread environmental benefits (including improved water quality and reduced soil erosion) through financial incentives.
- **Agricultural Land Classifications:** The classification system is broken down into categories according to the extent to which physical or chemical characteristics (such as climatic conditions and soil chemistry) cause limitations on food production.
- **Countryside Stewardship Schemes:** The Countryside Stewardship provides financial incentives for farmers and land managers to maintain and improve the environment. Examples include conserving and restoring wildlife habitat, flood risk management and woodland creation.
- **Open access land:** Under the Countryside and Rights of Way Act 2000, people can access land across England and Wales without having to use paths, known as 'open access land'.

## Sites of interest

- **Listed buildings:** Listed buildings are considered to be of special architectural or historic interest and require planning consideration.
- **Ancient woodland:** Ancient woodland is defined as an area that has been wooded continuously since at least 1600 AD and require planning consideration.
- **Scheduled monuments:** Scheduled monuments are considered to be of national importance and require planning consideration.



# Agricultural Considerations: Tabular Summary

## Land Classifications

<b>Environmental Stewardship Schemes</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Environmental Stewardship Scheme Agreements*	1	1	N/A
<b>Agricultural Land Classifications</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Nitrate Vulnerable Zones*	2	0	N/A
Provisional Agricultural Land Classifications*	4	1	N/A
Post 1988 Agricultural Land Classifications *	0	0	N/A
<b>Countryside Stewardship Schemes</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Countryside Stewardship Scheme Management Areas*	0	0	N/A
<b>Open access land</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Open Access Land*	0	0	N/A

## Sites of interest

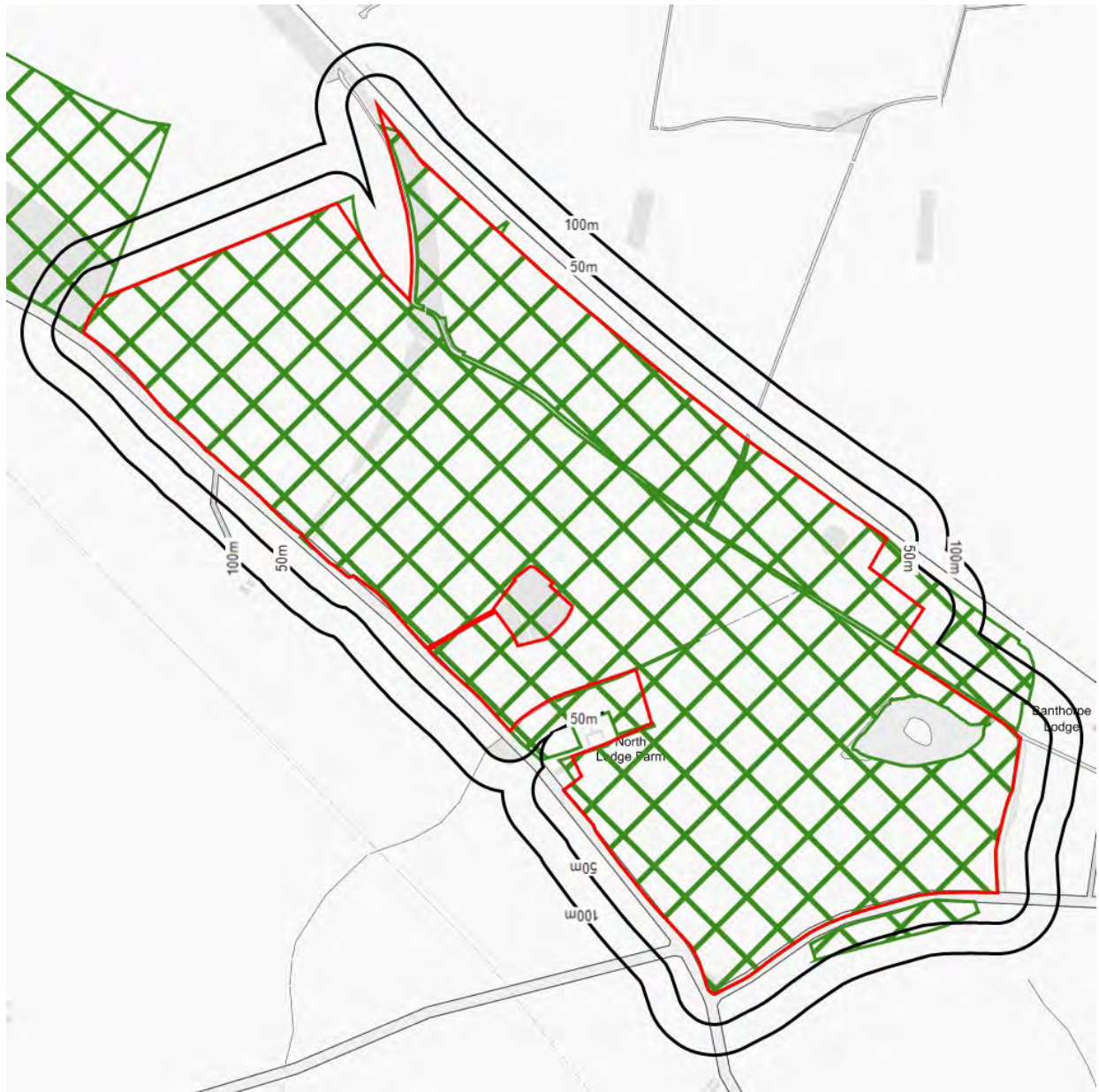
<b>Listed buildings</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Listed Buildings*	0	0	N/A
<b>Ancient woodland</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Ancient Woodland*	0	0	N/A
<b>Scheduled monuments</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Scheduled Monuments*	0	0	N/A

\*dataset searched to 100m





## Environmental Stewardship Schemes

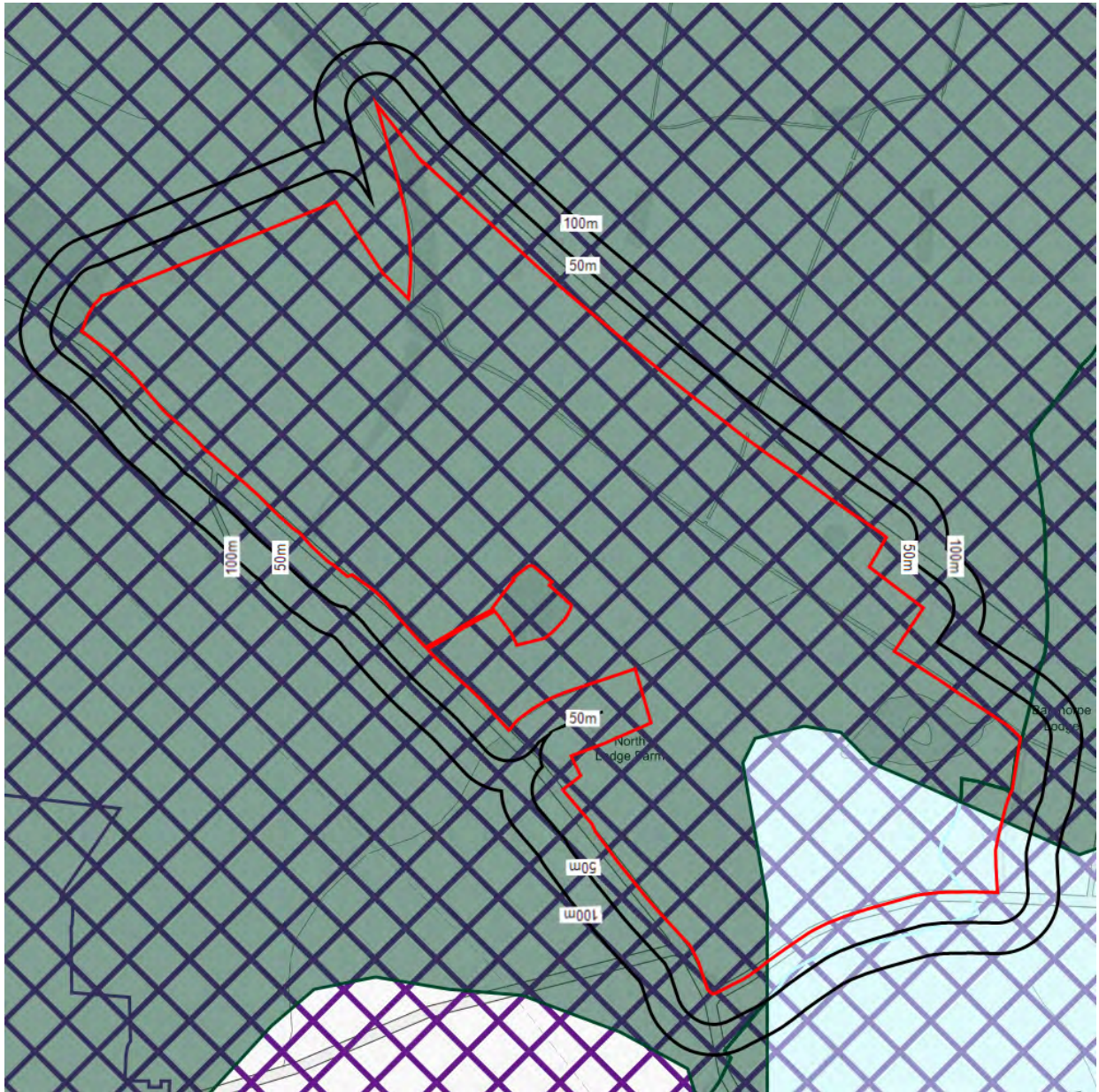


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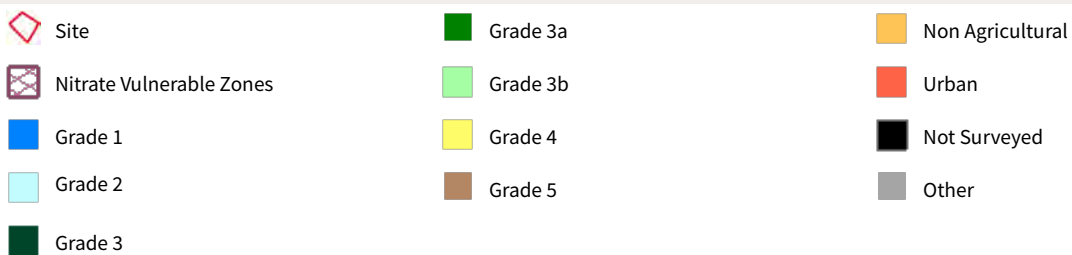
- |                     |                                       |
|---------------------|---------------------------------------|
| Site                | Entry Level plus Higher Level         |
| Entry Level         | Higher Level                          |
| Organic Entry Level | Organic Entry Level plus Higher Level |



## Agricultural Land Classifications



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## Countryside Stewardship Schemes



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- |                     |                         |
|---------------------|-------------------------|
| Site                | Hedges and Boundaries   |
| High Tier Element   | Implementation Plan     |
| Middle Tier Element | Woodland Creation Grant |




# Agricultural Considerations: Land Classifications Map

## Open access land



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 Site

 Open access land



## Environmental Stewardship Schemes

### Environmental Stewardship Scheme Agreements

Details	Distance	Direction	Contact
<p><b>Agreement Type:</b> Entry Level Plus Higher Level</p> <p><b>Area under agreement:</b> 479.36</p> <p><b>Start date:</b> 1st February 2010</p> <p><b>Expiry date:</b> 31st January 2020</p> <p><b>Name:</b> He Parkinson</p> <p><b>Town:</b> Stamford</p> <p><b>County:</b> Leicestershire</p> <p><b>Provider:</b> Natural England</p> <p><b>Provider reference:</b> AG00300095</p>	0m	N	6
<p><b>Agreement Type:</b> Entry Level Plus Higher Level</p> <p><b>Area under agreement:</b> 479.36</p> <p><b>Start date:</b> 1st February 2010</p> <p><b>Expiry date:</b> 31st January 2020</p> <p><b>Name:</b> He Parkinson</p> <p><b>Town:</b> Stamford</p> <p><b>County:</b> Leicestershire</p> <p><b>Provider:</b> Natural England</p> <p><b>Provider reference:</b> AG00300095</p>	12m	SE	6

## Agricultural Land Classifications

### Nitrate Vulnerable Zones

Details	Distance	Direction	Contact
<p><b>Reserve Name:</b> Lincolnshire Limestone</p> <p><b>Area size:</b> 1417504770.86</p> <p><b>Designation code:</b> Groundwater</p> <p><b>Designation date:</b></p> <p><b>Provider:</b> Environment Agency</p> <p><b>Provider reference:</b> G69</p>	0m	N	4
<p><b>Reserve Name:</b> Glen Nvz</p> <p><b>Area size:</b> 367284582.88</p> <p><b>Designation code:</b> Surface Water</p> <p><b>Designation date:</b></p> <p><b>Provider:</b> Environment Agency</p> <p><b>Provider reference:</b> S378</p>	0m	N	4

### Provisional Agricultural Land Classifications

Details	Distance	Direction	Contact
<p><b>Land Classification:</b> Grade 2</p> <p><b>Area size:</b> 8533501.6</p> <p><b>Provider:</b> Natural England</p> <p><b>Provider reference:</b> 1044</p>	0m	SE	6
<p><b>Land Classification:</b> Grade 3</p> <p><b>Area size:</b> 114333822.35</p> <p><b>Provider:</b> Natural England</p> <p><b>Provider reference:</b> 1045</p>	0m	N	6



# Agricultural Considerations: Land Classifications

Details	Distance	Direction	Contact
Land Classification: Grade 3 Area size: 71392239.78 Provider: Natural England Provider reference: 1030	0m	SE	6
Land Classification: Grade 2 Area size: 313096950.3 Provider: Natural England Provider reference: 1029	0m	SE	6
Land Classification: Grade 3 Area size: 71392239.78 Provider: Natural England Provider reference: 1030	51m	S	6

## Post 1988 Agricultural Land Classifications

No features identified.

## Countryside Stewardship Schemes

### Countryside Stewardship Scheme Management Areas

No features identified.

## Open access land

### Open Access Land

No features identified.



# Agricultural Considerations: Sites of interest Map



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Site



Ancient woodland

● Listed Buildings

..... Scheduled monuments



## Listed buildings

### Listed Buildings

No features identified.

## Ancient woodland

### Ancient Woodland

No features identified.

## Scheduled monuments

### Scheduled Monuments

No features identified.



# Ground Hazards & Coal Mining

## Data Section



**Ground Hazards & Coal Mining Data:** This section contains information on natural and mining related hazards which may affect the Site. These includes subsidence, radon and mining. Hazards that may need further investigation are detailed here. This report is neither a guarantee of the physical condition of the subject Site nor a substitute for any physical investigation or inspection.

# contents

<b>Tabular Summary</b>	This section gives an overview of the data found at the Site and in the surrounding area. We present the data in three buffer zones, extending to a maximum of 500m. We display the number of records found in each database under the relevant heading. Where we have not been able to search a database, we will display the abbreviation N/A instead.
<b>Coal Mining</b>	This section is driven by the Site's proximity to Coalfield Consultation Areas.
<b>Subsidence</b>	This section uses several different datasets to assess the susceptibility of the Site to the subsidence
<b>Natural and Mining Related Hazards</b>	This section looks at non-coal mining hazards, including former mineral sites and landfill sites.
<b>Radon</b>	Both the likelihood of radon being an issue, and the requirement for radon protection measures.



# Ground Hazards & Coal Mining: Tabular Summary

## Coal Mining

Coal Mining	On-site	1-100m	101-250m
Coal Mining Subsidence Damage Claims*	0	0	N/A
Coalfield Consultation Areas	0	N/A	N/A

## Subsidence

Insurance Claims from Subsidence	On-site	1-100m	101-250m
Postcode Unit Insurance Claims Rating - Subsidence	0	N/A	N/A

Natural Ground Instability	On-site	1-100m	101-250m
Natural Cavities	0	0	0
Potential for Landslide Ground Stability Hazards*	0	0	N/A
Potential for Ground Dissolution Stability Hazards*	0	0	N/A
Potential for Compressible Ground Stability Hazards*	2	0	N/A
Potential for Shrinking or Swelling Clay Ground Stability Hazards*	2	0	N/A
Potential for Running Sand Ground Stability Hazards*	0	0	N/A
Potential for Collapsible Ground Stability Hazards*	0	0	N/A

## Natural and Mining Related Hazards

Former Mining	On-site	1-100m	101-250m
Potentially Contaminative Land Uses (1950-1980) from large scale historical mapping	2	N/A	N/A
Potentially Contaminative Land Uses (1855-1909) from large scale historical mapping*	0	0	N/A
Potentially Contaminative Land Uses (1893-1915) from large scale historical mapping	0	N/A	N/A
Potentially Contaminative Land Uses (1906-1937) from large scale historical mapping	0	N/A	N/A
Potentially Contaminative Land Uses (1924-1949) from large scale historical mapping	0	N/A	N/A
Potentially Contaminative Industrial Uses (Past Land Use)	2	N/A	N/A
Man-Made Mining Cavities	0	0	0
BGS Recorded Mineral Sites	0	0	N/A
Mining Instability	0	N/A	N/A
Non Coal Mining Areas of Great Britain*	0	0	N/A
Potential Mining Areas	0	N/A	N/A



# Ground Hazards & Coal Mining: Tabular Summary

<b>Salt and Brine</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
Brine Compensation Area	0	N/A	N/A
Brine Pumping Related Features	0	N/A	N/A
Brine Subsidence Solution Area	0	N/A	N/A
Salt Mining Related Features	0	N/A	N/A
<b>Landfill Sites and Infilled Land</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
Former Marshes	0	N/A	N/A
Potentially Infilled Land (Non-Water)	0	N/A	N/A
Potentially Infilled Land (Water)	1	N/A	N/A
Potentially Contaminative Industrial Uses (Past Land Use)	0	N/A	N/A
BGS Recorded Landfill Sites	0	N/A	N/A
Permitted Waste Sites - Authorised Landfill Site Boundaries	0	N/A	N/A
Registered Landfill Sites	0	N/A	N/A
Local Authority Recorded Landfill Sites	0	N/A	N/A
Historic Landfill	0	N/A	N/A

## Radon

<b>Radon</b>	<b>On-site</b>	<b>1-100m</b>	<b>101-250m</b>
Radon Potential	7	N/A	N/A

\*\* dataset searched to 25m

\* dataset searched to 50m



# Ground Hazards & Coal Mining



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- |  |                               |  |   |
|--|-------------------------------|--|---|
|  | Site                          |  | Brine Subsidence Solution Area                    |
|  | Coalfield Consultation Area   |  | Salt Mining Related Feature                       |
|  | Mining from Historical Maps   |  | Infilled Land                                     |
|  | Mining Cavities               |  | Landfills   |
|  | Other Mining                  |  | Natural Cavities                                  |
|  | CBSCB Compensation District   |  | Potential for Ground Stability Hazards - High     |
|  | Brine Pumping Related Feature |  | Potential for Ground Stability Hazards - Moderate |



## Coal Mining

### **Coal Mining Subsidence Damage Claims**

No features identified.

### **Coalfield Consultation Areas**

No features identified.



## Insurance Claims

### Postcode Unit Insurance Claims Rating - Subsidence

No features identified.

## Natural Ground Instability

### Natural Cavities

No features identified.

### Potential for Landslide Ground Stability Hazards

No features identified.

### Potential for Ground Dissolution Stability Hazards

No features identified.

### Potential for Compressible Ground Stability Hazards

Details	Distance	Direction	Contact
<p><b>Hazard Potential:</b> Moderate</p> <p><b>Hazard Description:</b> Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.</p> <p><b>Hazard Guidance:</b> Avoid large differential loadings of ground. Do not drain or dewater ground near the property without technical advice.</p>	0m	NW	5
<p><b>Hazard Potential:</b> Moderate</p> <p><b>Hazard Description:</b> Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.</p> <p><b>Hazard Guidance:</b> Avoid large differential loadings of ground. Do not drain or dewater ground near the property without technical advice.</p>	0m	NE	5

### Potential for Shrinking or Swelling Clay Ground Stability Hazards

Details	Distance	Direction	Contact
<p><b>Hazard Potential:</b> Moderate</p> <p><b>Hazard Description:</b> Ground conditions predominantly high plasticity.</p> <p><b>Hazard Guidance:</b> Do not plant or remove trees or shrubs near to buildings without expert advice about their effect and management.</p>	0m	E	5
<p><b>Hazard Potential:</b> Moderate</p> <p><b>Hazard Description:</b> Ground conditions predominantly high plasticity.</p> <p><b>Hazard Guidance:</b> Do not plant or remove trees or shrubs near to buildings without expert advice about their effect and management.</p>	0m	NW	5

### Potential for Running Sand Ground Stability Hazards

No features identified.

### Potential for Collapsible Ground Stability Hazards

No features identified.



# Ground Hazards & Coal Mining: Natural and Mining Related Hazards

## Former Mining

### Potentially Contaminative Land Uses (1950-1980) from large scale historical mapping

Details	Distance	Direction	Contact
Industry Type: Extraction Description: Pit Map Published Date: 1975	0m	SE	1
Industry Type: Extraction Description: Pit Map Published Date: 1975	0m	SW	1

### Potentially Contaminative Land Uses (1855-1909) from large scale historical mapping

No features identified.

### Potentially Contaminative Land Uses (1893-1915) from large scale historical mapping

No features identified.

### Potentially Contaminative Land Uses (1906-1937) from large scale historical mapping

No features identified.

### Potentially Contaminative Land Uses (1924-1949) from large scale historical mapping

No features identified.

### Potentially Contaminative Industrial Uses (Past Land Use)

Details	Distance	Direction	Contact
Class: Quarrying of sand & clay, operation of sand & gravel pits Map Published Date: 1983	0m	SE	1
Class: Quarrying of sand & clay, operation of sand & gravel pits Map Published Date: 1983	0m	SW	1

### Man-Made Mining Cavities

No features identified.

### BGS Recorded Mineral Sites

No features identified.

### Mining Instability

No features identified.

### Non Coal Mining Areas of Great Britain

No features identified.

### Potential Mining Areas

No features identified.



# Ground Hazards & Coal Mining: Natural and Mining Related Hazards

## Salt and Brine

### Brine Compensation Area

No features identified.

### Brine Pumping Related Features

No features identified.

### Brine Subsidence Solution Area

No features identified.

### Salt Mining Related Features

No features identified.

## Landfill Sites and Infilled Land

### Former Marshes

No features identified.

### Potentially Infilled Land (Non-Water)

No features identified.

### Potentially Infilled Land (Water)

Details	Distance	Direction	Contact
Details: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Map Published Date: 1905	0m	N	1

### Potentially Contaminative Industrial Uses (Past Land Use)

No features identified.

### BGS Recorded Landfill Sites

No features identified.

### Permitted Waste Sites - Authorised Landfill Site Boundaries

No features identified.

### Registered Landfill Sites

No features identified.

### Local Authority Recorded Landfill Sites

No features identified.

### Historic Landfill

No features identified.





## Radon

### Radon Potential

Details	Distance	Direction	Contact
<b>Radon Affected Area:</b> Yes <b>Radon Protection Measure Required:</b> None The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level).	0m	N	5
<b>Radon Affected Area:</b> Yes <b>Radon Protection Measure Required:</b> None The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level).	0m	NW	5
<b>Radon Affected Area:</b> Yes <b>Radon Protection Measure Required:</b> Basic The property is in an Intermediate probability radon area (5 to 10% of homes are estimated to be at or above the Action Level).	0m	NW	5
<b>Radon Affected Area:</b> Yes <b>Radon Protection Measure Required:</b> Full The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level).	0m	NW	5
<b>Radon Affected Area:</b> Yes <b>Radon Protection Measure Required:</b> Full The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level).	0m	NW	5
<b>Radon Affected Area:</b> Yes <b>Radon Protection Measure Required:</b> Full The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level).	0m	NW	5
<b>Radon Affected Area:</b> Yes <b>Radon Protection Measure Required:</b> Basic The property is in an Intermediate probability radon area (5 to 10% of homes are estimated to be at or above the Action Level).	0m	NW	5

# Energy & Infrastructure

## Data Section



**Energy & Infrastructure Data:** This section details the data used as part of our Energy and Infrastructure analysis. Each key area has the data mapped with the detail outlined beneath.

# contents

<b>Tabular Summary</b>	Provides an overview of the data found at the Site and in the surrounding area. We present the data in three buffer zones, extending to a maximum of 4km. We display the number of records found in under the relevant heading. Where we have not been able to find data, we will display the abbreviation N/A instead.
<b>Oil and Gas Exploration</b>	Licences or drilling facilities with 4km of the Site. Onshore oil and gas exploration and production licences relate to areas of land (blocks). The presence of one or more of these licences does not mean that exploration or production will definitely happen.
<b>Wind Energy</b>	Operational or planned wind farms or turbines within 4km of the Site. Includes wind projects in the UK Wind Energy Database and locations of individual wind turbines and planning applications for wind turbines with an output of 1MW.
<b>Solar Energy Facilities</b>	Operational and proposed solar farms within 2km of the Site. The data provides the name of the operating company, the generating capacity, and the farm's operational status.
<b>Other Renewable Energy</b>	Renewable power sources with an output of 1MW within 2km of the Site. These power sources are: Small / Large Hydroelectric; Shoreline Wave; Tidal Barrage / Stream; Biomass; Co-firing; Anaerobic/ Sewage Digestion; Hot Dry Rocks; Landfill Gas; Energy from Waste (EfW) Incineration; and Advanced Conversion Technology.
<b>High Speed 2 (HS2)</b>	HS2 track sections, stations, safeguarding limits homeowner zones and extended homeowner protection zones within 4km of the Site. This report comments on both phases using current available information.
<b>Crossrail</b>	Crossrail 1 and 2 track sections, stations and safeguarding limits within 2km of the Site. Crossrail (CR1) is a rail project stretching from Reading and Heathrow in the west, to Shenfield and Abbeywood in the east. Crossrail 2 (CR2) is a new (proposed) railway, linking the national rail networks in and around Surrey and Hertfordshire via an underground tunnel through London.
<b>Railways</b>	Above and below ground railways within 250m of the Site, including trams and light rail.
<b>Pipelines</b>	The Southampton to London Pipeline route within 250m of the Site.



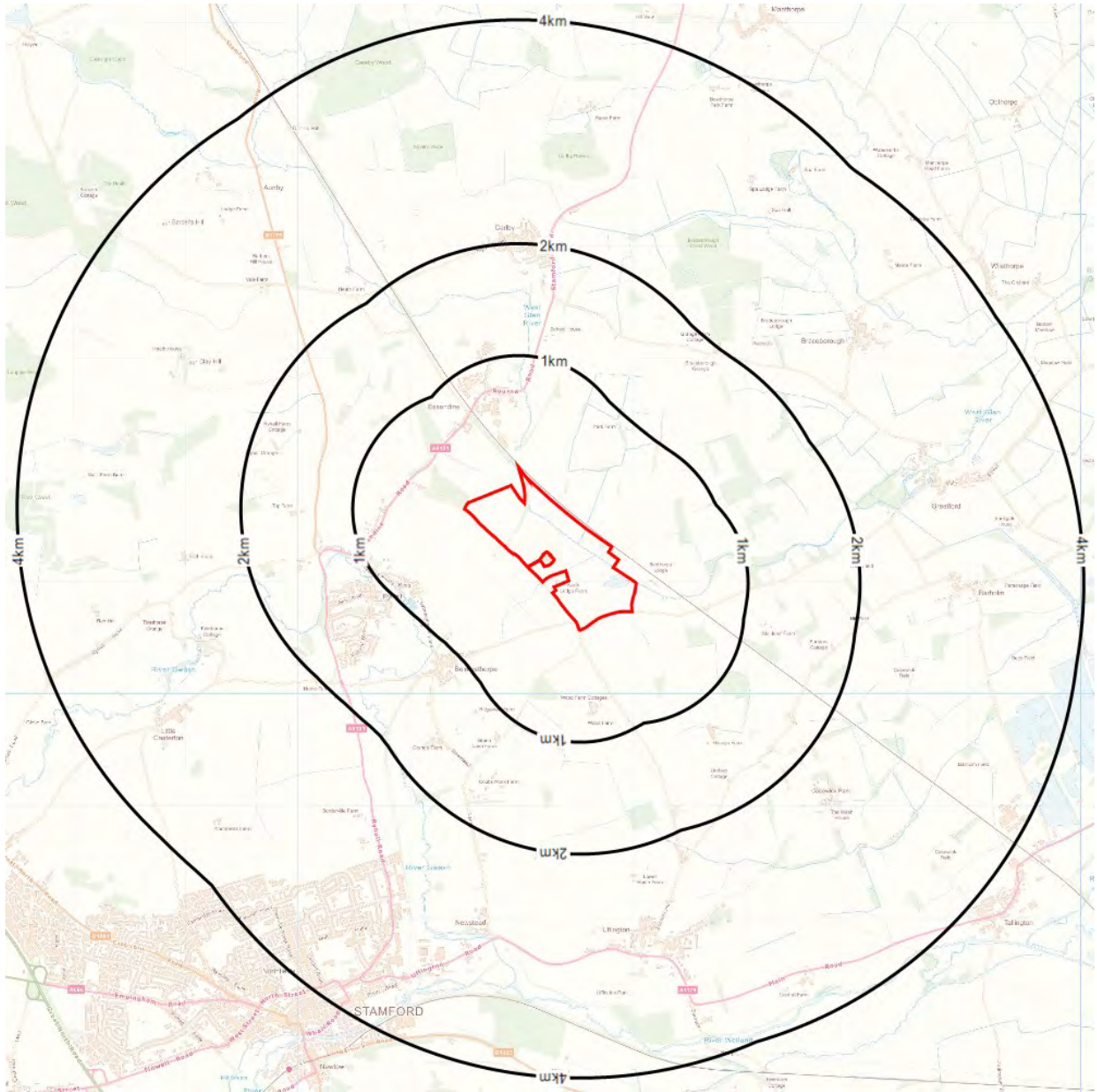
# Energy & Infrastructure: Tabular Summary

## Energy And Infrastructure






<b>Oil and Gas Explorations</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Licensed Areas for Onshore Energy Exploration and Production	0	0	N/A
Licensed Wells for Energy Exploration	0	0	N/A
Offered Blocks for Onshore Energy Exploration and Production	0	0	N/A
<b>Wind Energy</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Wind Farms	0	0	N/A
Wind Turbines	0	0	N/A
Renewable Energy Planning Database	0	0	N/A
<b>Solar Energy</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Renewable Energy Planning Database	0	N/A	N/A
<b>Other Renewable</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Renewable Energy Planning Database	0	N/A	N/A
<b>High Speed 2</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
HS2 - Track	0	N/A	N/A
HS2 - Stations	0	N/A	N/A
HS2 - Safeguarding Limits	0	N/A	N/A
HS2 - Payment Zones	0	N/A	N/A
<b>Crossrail 1</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Crossrail - Safeguarding Limits	0	N/A	N/A
Crossrail - Stations	0	N/A	N/A
Crossrail - Track	0	N/A	N/A
<b>Crossrail 2</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Crossrail 2 - Track	0	N/A	N/A
Crossrail 2 - Stations	0	N/A	N/A
Crossrail 2 - Safeguarding Limits	0	N/A	N/A
<b>Above and below ground railways</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Railed Transport - Tracks	2	9	N/A
Railed Transport - Stations and Stops	0	0	N/A
<b>Southampton to London Pipeline</b>	<b>On-site</b>	<b>1-250m</b>	<b>251-500m</b>
Southampton to London Pipeline Development	0	0	N/A








# Energy & Infrastructure: Energy



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-  Site
-  OGA Offered Exploration Blocks
-  Wind Farms
-  Planning Apps – Wind Energy
-  Planning Apps – Other Renewable Energy

-  OGA Licensed Exploration Blocks
-  Drilling Locations
-  Wind Turbines
-  Planning Apps – Solar Farms
-  Southampton to London pipeline



## Oil and Gas Exploration

### Licensed Areas for Onshore Energy Exploration and Production

No features identified.

### Offered Blocks for Onshore Energy Exploration and Production

No features identified.

### Licensed Wells for Energy Exploration

No features identified.

## Wind Energy

### Wind Farms

No features identified.

### Wind Turbines

No features identified.

### Renewable Energy Planning Database

No features identified.

## Solar Energy Facilities

### Renewable Energy Planning Database

No features identified.

## Other Renewable Energy

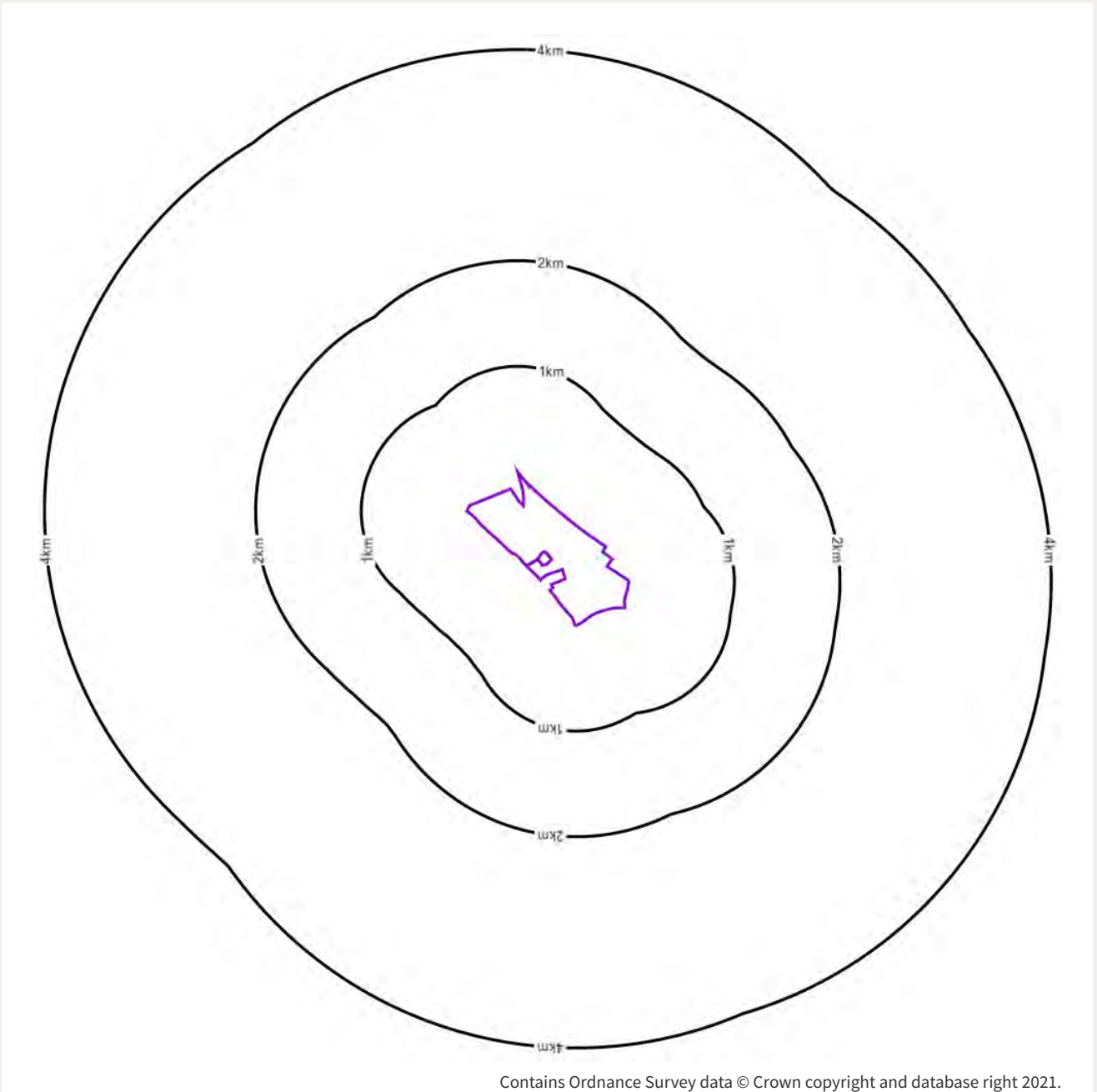
### Renewable Energy Planning Database

No features identified.

## Southampton to London pipeline

### Southampton to London Pipeline Development

No features identified.



- |                                   |  |
|-----------------------------------|--|
| Site                              | HS2 – Track                              |
| Crossrail 1 – Track               | HS2 – Station                            |
| Crossrail 1 – Station             | HS2 – Safeguarding Limits                |
| Crossrail 1 – Safeguarding Limits | HS2 – Homeowner Payment Zone 1           |
| Crossrail 2 – Track               | HS2 – Homeowner Payment Zone 2           |
| Crossrail 2 – Station             | HS2 – Homeowner Payment Zone 3           |
| Crossrail 2 – Safeguarding Limits | HS2 – Rural Support Zone                 |
|                                   | HS2 – Extended Homeowner Protection Zone |



## High Speed 2

### **HS2 - Track**

No features identified.

### **HS2 - Stations**

No features identified.

### **HS2 - Safeguarding Limits**

No features identified.

### **HS2 - Payment Zones**

No features identified.

## Crossrail 1

### **Crossrail - Track**

No features identified.

### **Crossrail - Stations**

No features identified.

### **Crossrail - Safeguarding Limits**

No features identified.

## Crossrail 2

### **Crossrail 2 - Track**

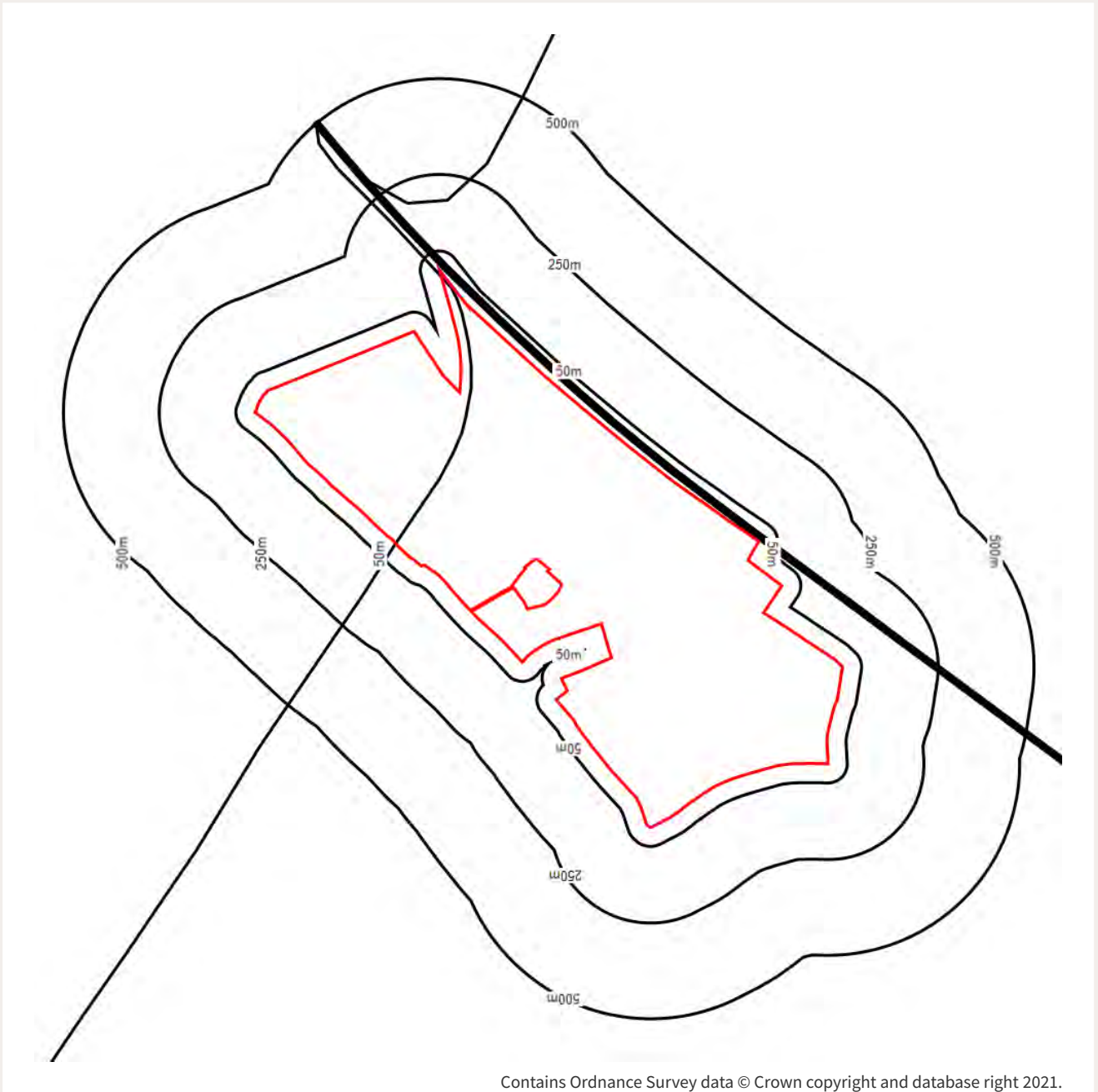
No features identified.

### **Crossrail 2 - Stations**

No features identified.

### **Crossrail 2 - Safeguarding Limits**

No features identified.



Site



Railway - Station

Track

Underground Track





## Above and below ground railways

### Railed Transport - Tracks

Details	Distance	Direction	Contact
<b>Network Name:</b> Not Supplied <b>Tunnel:</b> Unknown <b>Status:</b> Inactive Railway <b>Route:</b> Not Supplied <b>Reference Number:</b> way/166428488, way/27652912	0m	NW	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> East Midlands Railway <b>Reference Number:</b> way/305687234	6m	NE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/305687233	10m	NE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/2162114	15m	NE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/305687235	19m	NE	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> East Midlands Railway <b>Reference Number:</b> way/228012357	136m	E	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/228014711, way/38156608	140m	E	1
<b>Network Name:</b> East Coast Main Line <b>Tunnel:</b> Unknown <b>Status:</b> Active Railway <b>Route:</b> London North Eastern Railway <b>Reference Number:</b> way/228013027	142m	E	1
<b>Network Name:</b> Bourne and Essendine Railway (dismantled) <b>Tunnel:</b> Unknown <b>Status:</b> Inactive Railway <b>Route:</b> Not Supplied <b>Reference Number:</b> way/166476897	181m	N	1

### Railed Transport - Stations and Stops

No features identified.

# Site Solutions Farm

## About this report



### Site Solutions Farm Limitations

**Site Solutions** Farm reports help you and your clients make informed property decisions. Our reports are 'desktop' assessments, written and quality checked by our team of expert consultants. We carry out the work in our Brighton office using data, maps and our expertise. We do not carry out a physical inspection of the property nor do we contact any regulator. This means that we cannot guarantee that we will have identified all issues of concern.

In the Data Section of the report we list the data sources that we have used. Most of these data sets come from third party sources such as the Environment Agency. We cannot guarantee the accuracy of this data and are not responsible for any inaccuracies in third party data.

All **Site Solutions** reports are covered by our terms and conditions, a copy of which is available on our website, [www.argyllenvironmental.com](http://www.argyllenvironmental.com). If you need any further information please contact us on 0330 036 6115.




### Contaminated Land Risk Analysis Methodology

For this section of the report we assess the condition of the land. We see whether the land could be 'Contaminated Land' under the relevant legislation. This section of the report meets the requirements for an independent site report. This is the recommendation of the Law Society Practice Note on Contaminated Land.

The main legislation is Part 2A of the Environmental Protection Act 1990. We also assess whether similar requirements could arise under the Water Resources Act 1991. The Contaminated Land legislation asks whether a 'plausible contaminant-pathway-receptor relationship' exists. If we identify a relationship, then our consultants will assess the potential significance. We define Liabilities as the potential for remedial works under Part 2A of the Environmental Protection Act 1990 and/or the Water Resources Act 1991.

If the Site is to have a change of use, then we also consider relevant requirements under the Planning Regime. It may be that the level of contamination will only become an issue if the Site is to be redeveloped. An example of this is when former industrial land is redeveloped for housing. If the Site is to be redeveloped then it could also include remedial works required under the planning regime. These remedial works may be the responsibility of the Site owner or occupier.

We will issue one of the following Liability statements, in line with Defra's recommended four stage test.

Assessment	Liability Statement	Defra Category
PASSED 	Within the scope of this assessment no Liabilities have been identified. No further action is required.	3 or 4
PASSED – PRUDENT ACTION 	Within the scope of this assessment no Liabilities have been identified. However, your attention is drawn to the prudent action suggested below.	3 or 4
FURTHER ACTION 	We have identified potential soil and/or groundwater liabilities. To quantify these we recommend you undertake the action outlined below.	Potentially 1 or 2






## Flood Risk Analysis Methodology

For this section of the report, we assess the risk of flooding at the Site. A Consultant will analyse the data within the report, and take into account factors such as source of flooding, extent, and which part of the Site is at risk (is it operationally sensitive).

Three key areas are addressed:

- the overall risk of flooding (taking into account defences)
- how flood risk affects the availability of insurance
- how flood risk affects the potential to redevelop

We report the overall risk in a summary statement, with the three outcomes listed below:

Assessment	Risk Statement
PASSED 	<p><b>Negligible, Low &amp; Low-Moderate Risk:</b> The Site is not considered to be at significant risk of flooding. No further action is deemed necessary.</p> <p><b>Recommendations:</b> Some simple advice may be provided.</p> <p><b>Insurability:</b> Insurance should be readily available.</p>
PASSED – PRUDENT ACTION 	<p><b>Moderate Risk:</b> Data indicates some risk exists to the Site and its occupants. However, this is expected to be associated with an ‘extreme’ event.</p> <p><b>Recommendations:</b> Practical advice will be provided. This may be to obtain further information or to write a flood preparation plan.</p> <p><b>Insurance:</b> In most cases insurance should be readily available.</p>
FURTHER ACTION 	<p><b>Moderate to High and High:</b> This report reveals a significant risk of flooding which should be addressed.</p> <p><b>Recommendations:</b> Further assessment is recommended to clarify the risk of flooding at the Site. This will inform whether flood protection measures should be installed.</p> <p><b>Insurance:</b> Insurance may not be available without a higher premium or excess.</p>

The flood risk gauges provide an analysis of each of the four main types of flooding: river, coastal, groundwater and surface water. A fifth gauge provides analysis of ‘other factors’. This includes historical floods, proximity to water features and elevation above both of these features. The purpose of this gauge is to account for risk that is not tied to modelled data.

Environment Agency defences protect large areas of England and Wales from river and coastal flooding. Our analysis of flood risk from these sources takes defences into account. Where defences are present we will report both defended and undefended risk to present the full risk profile. However, our overall assessment and recommendations will be based on the defended risk.

In Scotland, we do not have access to data from the Scottish Environmental Protection Agency (SEPA). As a result, we are unable to take into account defences. Consequently, in Scotland our assessment is always based on the undefended risk.

An Argyll Consultant will write Site-specific commentary to summarise the risk. The purpose of this is to explain the drivers of the risk, and where possible, the extent and impact. This will be a non-technical account, explaining our assessment in simple terms. Our Consultants generate the risk assessment using several sources. This means the gauges in the front of the report will supersede any risk reported in the data section. We also consider the implications of flood risk under the National Planning Policy Framework (NPPF). We always provide a view on whether a Flood Risk Assessment would be required if development is proposed. Where the client lets us know that the Site is to be redeveloped, we provide recommendations on the most appropriate next step.



# Useful Contacts

Please see below the contact details of the suppliers referred to within this report. For all queries please contact:

**Argyll Environmental Ltd**  
1<sup>st</sup> Floor  
98-99 Queens Road  
Brighton  
BN1 3XF

If you require assistance please contact our customer services team on:

**0330 036 6115**

Or by email at:

**orders@argyllenviro.com**

Contact	Name	Address	Contact Details
	<b>Public Health England</b>	Centre for Radiation Chemical and Environmental Hazards Chilton Didcot Oxon OX11 0RQ	<b>T:</b> 01235 822622 <b>F:</b> 01235 833891 <b>E:</b> radon@phe.gov.uk <b>W:</b> www.ukradon.org
1	<b>Landmark Information Group Limited</b>	Imperium Imperial Way Reading Berkshire RG2 0TD	<b>T:</b> 0844 844 9966 <b>E:</b> helpdesk@landmark.co.uk <b>W:</b> www.landmark.co.uk
2	<b>Ordnance Survey</b>	Adanac Drive Southampton Hampshire SO16 0AS	<b>T:</b> 03456 05 05 05 <b>E:</b> customerservices@ordnancesurvey.co.uk <b>W:</b> www.ordnancesurvey.gov.uk
3	<b>Environment Agency, National Customer Contact Centre (NCCC)</b>	PO Box 544 Templeborough Rotherham S60 1BY	<b>T:</b> 03708 506 506 <b>E:</b> enquiries@environment-agency.gov.uk
4	<b>Environment Agency, Head Office</b>	Rio House Waterside Drive Aztec West, Almondsbury Bristol Avon BS32 4UD	<b>T:</b> 01454 624400



## Useful Contacts

Contact	Name	Address	Contact Details
5	<b>British Geological Survey, Enquiry Service</b>	British Geological Survey Environmental Science Centre Keyworth Nottingham Nottinghamshire NG12 5GG	<b>T:</b> 0115 936 3143 <b>E:</b> enquiries@bgs.ac.uk <b>W:</b> www.bgs.ac.uk
6	<b>Natural England</b>	County Hall Spetchley Road Worcester WR5 2NP	<b>T:</b> 0300 060 3900 <b>E:</b> enquiries@naturalengland.org.uk <b>W:</b> www.naturalengland.org.uk

Please note that if you choose to contact any of the above organisations, they may have a charging policy in place for enquiries.



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British Geological Survey





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Tel: 03300 366 115

Email: [orders@argyllenviro.com](mailto:orders@argyllenviro.com)

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- Conveyancing Information Executive Members shall act in a professional and honest manner at all times in line with the Conveyancing Information Executive Standards and carry out the delivery of the Search with integrity and due care and skill.
- Compliance with the Conveyancing Information Executive Standards will be a condition within the Conveyancing Information Executive Member's Terms and Conditions.
- Conveyancing Information Executive Members will promote the benefits of and deliver the Search to the agreed standards and in the best interests of the customer and associated parties.
- The standards can be seen here: <http://www.conveyinfoexec.com>

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If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award up to £5,000 to you if the Ombudsman finds that you have suffered actual financial loss and/or aggravation, distress or inconvenience as a result of your search provider failing to keep to the Standards.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPO.

### TPOs Contact Details:

The Property Ombudsman scheme  
Milford House  
43-55 Milford Street  
Salisbury  
Wiltshire SP1 2BP

Tel: 01722 333306

Fax: 01722 332296

Website: [www.tpos.co.uk](http://www.tpos.co.uk)

Email: [admin@tpos.co.uk](mailto:admin@tpos.co.uk)



## Argyll Environmental Complaints Procedure

If you want to make a complaint to Argyll Environmental, we will:

- Acknowledge it within 5 working days of receipt
- Normally deal with it fully and provide a final response, in writing, within 20 working days of receipt
- Keep you informed by letter, telephone or e-mail, as you prefer, if we need more time
- Provide a final response, in writing, at the latest within 40 working days of receipt
- Liaise, at your request, with anyone acting formally on your behalf

## Complaints should be sent to:

Legal Director  
Argyll Environmental Ltd  
1<sup>st</sup> Floor  
98 - 99 Queens Road  
Brighton  
BN1 3XF

Tel: 03300 366 115

Email: [orders@argyllenviro.com](mailto:orders@argyllenviro.com)

If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs):

Tel: 01722 333306,

Email: [admin@tpos.co.uk](mailto:admin@tpos.co.uk)

We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.







# **Mallard Pass**

Solar Farm

## **Mallard Pass Solar Farm**

**Scoping Report**

**Appendix 7.6: Water Resources  
Assessment Criteria**

**February 2022**

**Table 1: Water Resources Receptor Sensitivity Criteria**

Receptor Sensitivity	Sensitivity Description
High	<ul style="list-style-type: none"> <li>• A large, medium or small water body with an EA Current Ecological Quality classification of “High” or “Good” and / or a Current Chemical Quality classification of “Good”;</li> <li>• The hydrological receptor and downstream environment will struggle to attenuate natural fluctuations in hydrochemistry and cannot absorb further changes without fundamentally altering its baseline characteristics / natural processes;</li> <li>• The hydrological receptor is of high environmental importance or is designated as having national or international importance, such as Special Areas of Conservation (SACs) and Sites of Special Scientific Interest (SSSIs);</li> <li>• The hydrological receptor is designated for supporting ecological interest;</li> <li>• The hydrological receptor acts as an active floodplain or other flood defence;</li> <li>• The hydrological receptor will support abstractions for public water supply or private water abstractions for more than 25 people;</li> <li>• Areas containing geological or geomorphological features considered to be of national importance (e.g., SSSIs); and / or</li> <li>• Local groundwater constitutes a valuable resource because of its high quality and yield, e.g., aquifer(s) of local or regional value, statutorily designated nature conservation sites (e.g., SACs and SSSIs) dependent on groundwater.</li> </ul>
Moderate	<ul style="list-style-type: none"> <li>• A large, medium or small water body with an EA Current Ecological Quality classification of “Moderate”;</li> <li>• The hydrological receptor and downstream environment will have some capacity to attenuate natural fluctuations in hydrochemistry but cannot absorb some changes without fundamentally altering its baseline characteristics / natural processes;</li> <li>• The hydrological receptor is of regional environmental importance;</li> </ul>

Receptor Sensitivity	Sensitivity Description
	<ul style="list-style-type: none"> <li>• The hydrological receptor does not act as an active floodplain or other flood defence;</li> <li>• The hydrological receptor is not used for recreation;</li> <li>• The hydrological receptor supports public water supply or private water abstractions for less than 25 people;</li> <li>• Areas containing geological features of designated regional importance including Regionally Important Geological Sites (RIGS) considered worthy of protection for their historic or aesthetic importance; and / or</li> <li>• Aquifer(s) of limited value (less than local importance) as water quality does not allow potable or other quality sensitive uses, e.g., exploitation of local groundwater is not far-reaching or local areas of nature conservation known to be sensitive to groundwater impacts.</li> </ul>
Low	<ul style="list-style-type: none"> <li>• A large, medium or small water body with a EA Current Ecological Quality classification of “Poor” or “Bad” and / or a Current Chemical Quality classification of “Fail”;</li> <li>• The hydrological receptor and downstream environment will have the capacity to attenuate natural fluctuations in hydrochemistry but can absorb some changes without fundamentally altering its baseline characteristics / natural processes;</li> <li>• The hydrological receptor is not of regional, national or international environmental importance;</li> <li>• The hydrological receptor is not designated for supporting freshwater ecological interest;</li> <li>• The hydrological receptor does not act as an active floodplain or other flood defence;</li> <li>• The hydrological receptor is not used for recreation;</li> <li>• The hydrological receptor does not support abstractions for public water supply or private water abstractions;</li> <li>• Geological features or geology are not protected and not considered worthy of specific protection;</li> <li>• The groundwater is of poor quality and / or very low permeability making exploitation of groundwater unfeasible; changes to groundwater are not expected to affect local ecology; and / or</li> </ul>

Receptor Sensitivity	Sensitivity Description
	<ul style="list-style-type: none"> <li>Other hydrological receptors not included in the definitions of High or Moderate sensitivity.</li> </ul>

**Table 2: Water Resources Receptor Magnitude of Impact**

Magnitude of Change	Magnitude Description
Major	<ul style="list-style-type: none"> <li>A short or long term major shift in hydrochemistry or hydrological conditions sufficient to negatively change the ecology of the receptor. This change would equate to a downgrading of an EA Current Ecological Quality classification by two classes e.g., from “High” to “Moderate”;</li> <li>A sufficient material increase in the probability of flooding onsite and offsite, adding to the area of land which requires protection by flood prevention measures or affecting the ability of the functional flood plain to attenuate the effects of flooding by storing flood water (in accordance with NPPF paragraphs 100 to 108);</li> <li>A major (greater than 50 %) or total loss of a geological receptor or peat habitat site, or where there would be complete severance of a site such as to fundamentally affect the integrity of the site (e.g., blocking hydrological connectivity);</li> <li>Major permanent or long term negative change (i.e., degradation of quality) to groundwater quality or a reduction in the available yield;</li> <li>Major permanent or long term negative change to geological receptor; and / or</li> <li>Changes to quality or water table level will cause harm local ecology or will lead to flooding issues.</li> </ul>
Moderate	<ul style="list-style-type: none"> <li>A short or long term non-fundamental change to the hydrochemistry or hydrological environment, resulting in a change in ecological status. This change would equate to a downgrading of an EA Current Ecological Quality classification by one class e.g., from “Good” to “Moderate”;</li> </ul>

Magnitude of Change	Magnitude Description
	<ul style="list-style-type: none"> <li>• A moderate increase in the probability of flooding onsite and offsite, adding to the area of land which requires protection by flood prevention measures or affecting the ability of the functional flood plain to attenuate the effects of flooding by storing flood water (in accordance with NPPF paragraphs 100 to 108);</li> <li>• A loss of part (approximately 15 % to 50 %) of a geological receptor or peat habitat site, major severance, major effects to its integrity as a feature, or disturbance such that the value of the site would be affected, but could still function;</li> <li>• Changes to the local groundwater regime may slightly affect the use of the receptor;</li> <li>• The yield of existing supplies may be reduced or quality slightly deteriorated; and / or</li> <li>• Fundamental degradation of local habitats may occur, resulting in impaired functionality.</li> </ul>
Minor	<ul style="list-style-type: none"> <li>• A detectable non-detrimental change to the baseline hydrochemistry or hydrological environment. This change would not reduce the EA Current Ecological Quality classification;</li> <li>• A marginal increase in the probability of flooding onsite and offsite, adding to the area of land which requires protection by flood prevention measures or affecting the ability of the functional flood plain to attenuate the effects of flooding by storing flood water (in accordance with NPPF paragraphs 100 to 108);</li> <li>• A detectable but non-material effect on the receptor (up to 15 %) or a moderate effect on its integrity as a feature or where there would be a minor severance or disturbance such that the functionality of the receptor would not be affected; and / or</li> <li>• Changes to groundwater quality, levels or yields that do not represent a risk to existing baseline conditions or ecology.</li> </ul>

Magnitude of Change	Magnitude Description
Negligible <sup>1</sup>	<ul style="list-style-type: none"> <li>• No perceptible changes to the baseline hydrochemistry or hydrological environment;</li> <li>• No change to the EA water quality classification;</li> <li>• No increase in the probability of flooding onsite and offsite; and / or</li> <li>• A slight or negligible change from baseline condition of geological resources; change hardly discernible, approximating to a situation of 'no change' in geological condition.</li> </ul>

<sup>1</sup> Negligible magnitude of change includes magnitude of effects that would be assessed as no change to the baseline scenario.

**Table 3: Water Resources Significance Criteria**

Sensitivity Magnitude	Low	Moderate	High
<b>Negligible</b>	Negligible	Negligible	Negligible
<b>Minor</b>	Negligible	Minor	Moderate
<b>Moderate</b>	Minor	Moderate	Moderate / Major
<b>Major</b>	Minor	Moderate / Major	Major







# **Mallard Pass**

Solar Farm

## **Mallard Pass Solar Farm**

**Scoping Report**

**Appendix 7.7: Greenhouse Gas  
Emission Sources**  
February 2022

**Table 1: Climate Change Impact Assessment Greenhouse Gas Emission Sources**

<b>Development Phase</b>	<b>Activity</b>	<b>Emission Sources</b>
Construction	Extraction of materials and manufacturing of the equipment required to construct the Proposed Development. Activity associated with the construction of the Proposed Development including construction compounds. Transportation of construction workers and materials.	Consumption of energy during the extraction of materials, manufacturing and transport of equipment. Energy use from plant, vehicles, electrical infrastructure and worker travel.
Operation	Operation and maintenance of the Proposed Development.	Treatment of wastewater and provision of clean water associated with the welfare facilities associated with the Proposed Development. Release of GHG emissions throughout the operation. Energy consumption, material use and waste generation associated with site maintenance.
Decommissioning	Onsite activity. Transportation and disposal of material. Transportation of workers.	Energy consumptions from plant, vehicles and electrical infrastructure. Disposal of waste and materials associated with the Proposed Development. Vehicles used for transportation of workers to the Site.

