



Norwich Western Link

Environmental Statement Chapter 13: Geology and Soils

Appendix 13.1: Interpretative Environmental Desk Study Report

Sub Appendix D: Envirocheck Report Part 6 of 6

Author: WSP

Document Reference: 3.13.01d

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Date: March 2024



Contents

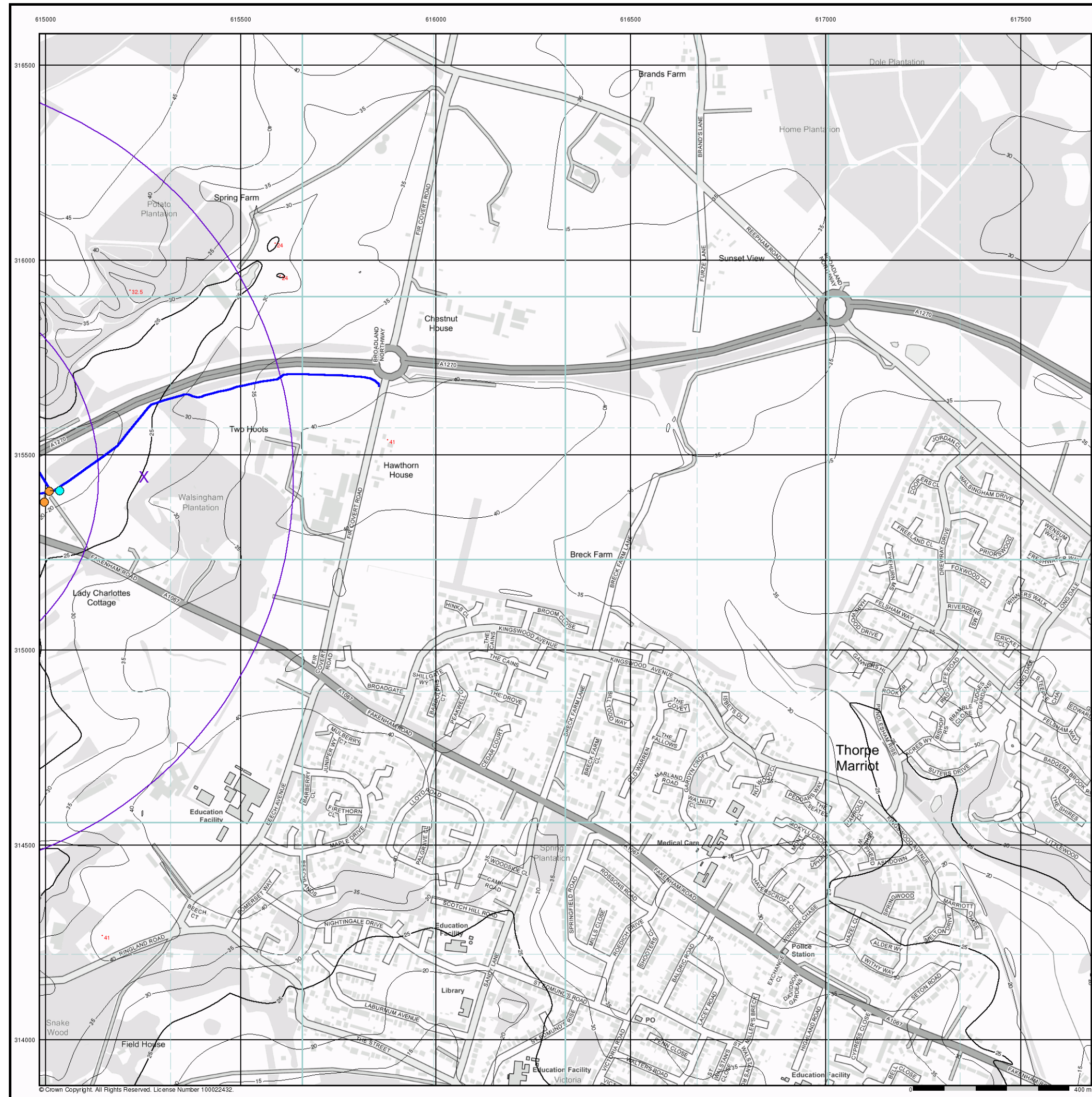
1	Introduction	3
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1 Introduction

1.1.1 WSP UK Ltd was commissioned by NCC to complete a Preliminary Risk Assessment to inform the baseline assessment for the Environmental Statement Chapter 13: Geology & Soils. This appendix contains Part 6 of a third party database report with historical maps and regulatory data.

1.1.2 We have included a summary of key information shown in this document in an accessible format in section 1.1.1. However, some users may not be able to access all technical details that are included in the rest of this document. If you require this document in a more accessible format, please contact norwichwesternlink@norfolk.gov.uk



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OS Water Network Lines Map (1:10,000)

General

- Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point

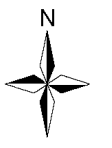
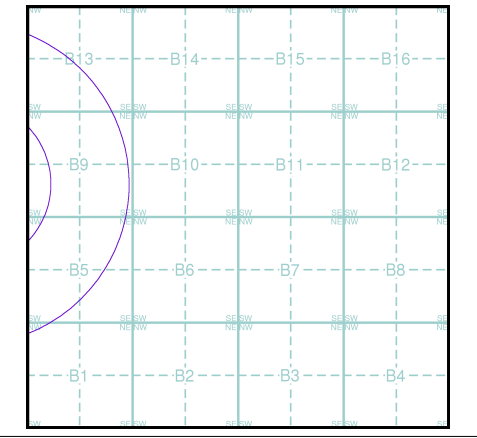
OS Water Network Data

- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |
| Junction | Source |
| Outlet | Other |
| Pseudo | |

Contours (height in meters)

- Standard Contour 105
- Master Contour 100
- Spot Height 167.3
- MLW Mean Low Water
 - MHW Mean High Water

OS Water Network Map - Slice B



Order Details

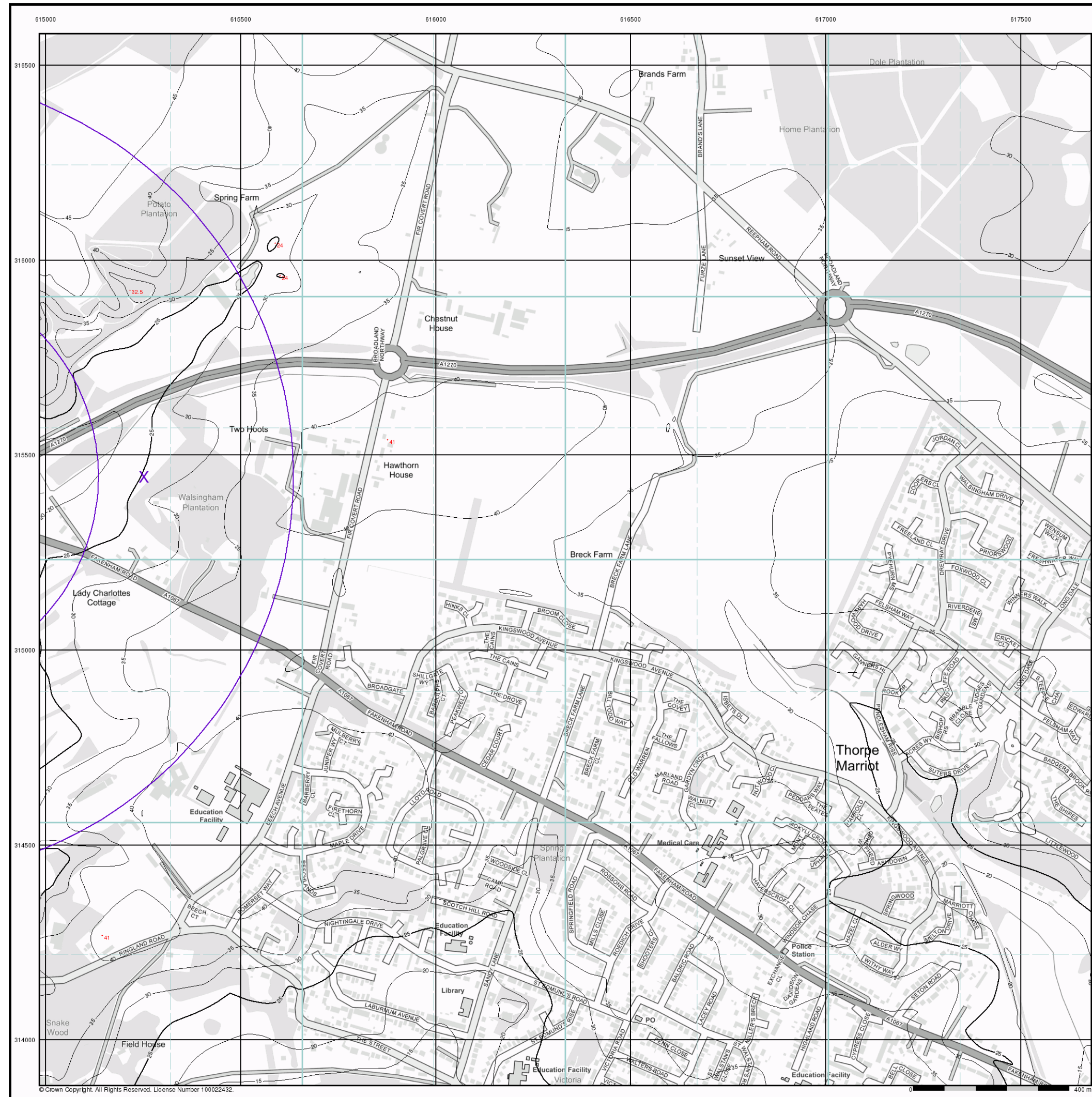
Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details

Site at 613969,315908

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EANRW Historic Flood Map (1:10,000)

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID

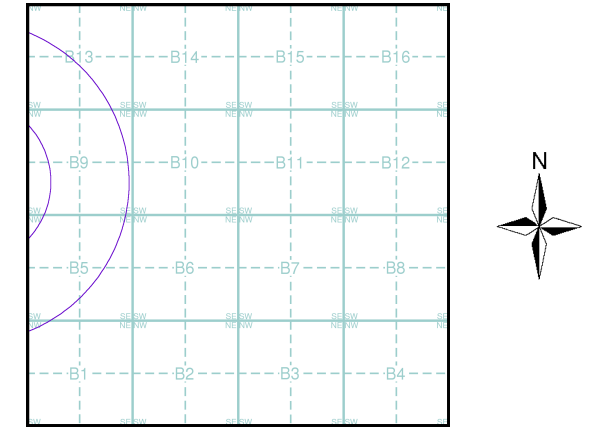
Historic Flood Events Data

- | | |
|--|---------------------------------------|
| Channel Capacity Exceeded (no raised defences) | Obstruction/Blockage - Culvert |
| Channel Capacity Exceeded /Surface Water | Obstruction/Blockage - Debris Screen |
| Groundwater/High Water Table | Operational Failure/Breach of Defence |
| Local Drainage/Surface Water | Other |
| Mechanical Failure | Overtopping of Defences |
| Obstruction/Blockage - Bridge | Surface Water |
| Obstruction/Blockage - Channel | Unknown |
| Historical Flood Liabilities | |

Contours (height in metres)

- Standard Contour 105 MLW Mean Low Water
- Master Contour 100 MHW Mean High Water
- Spot Height *167.8

EANRW Historic Flood Map - Slice B



Order Details

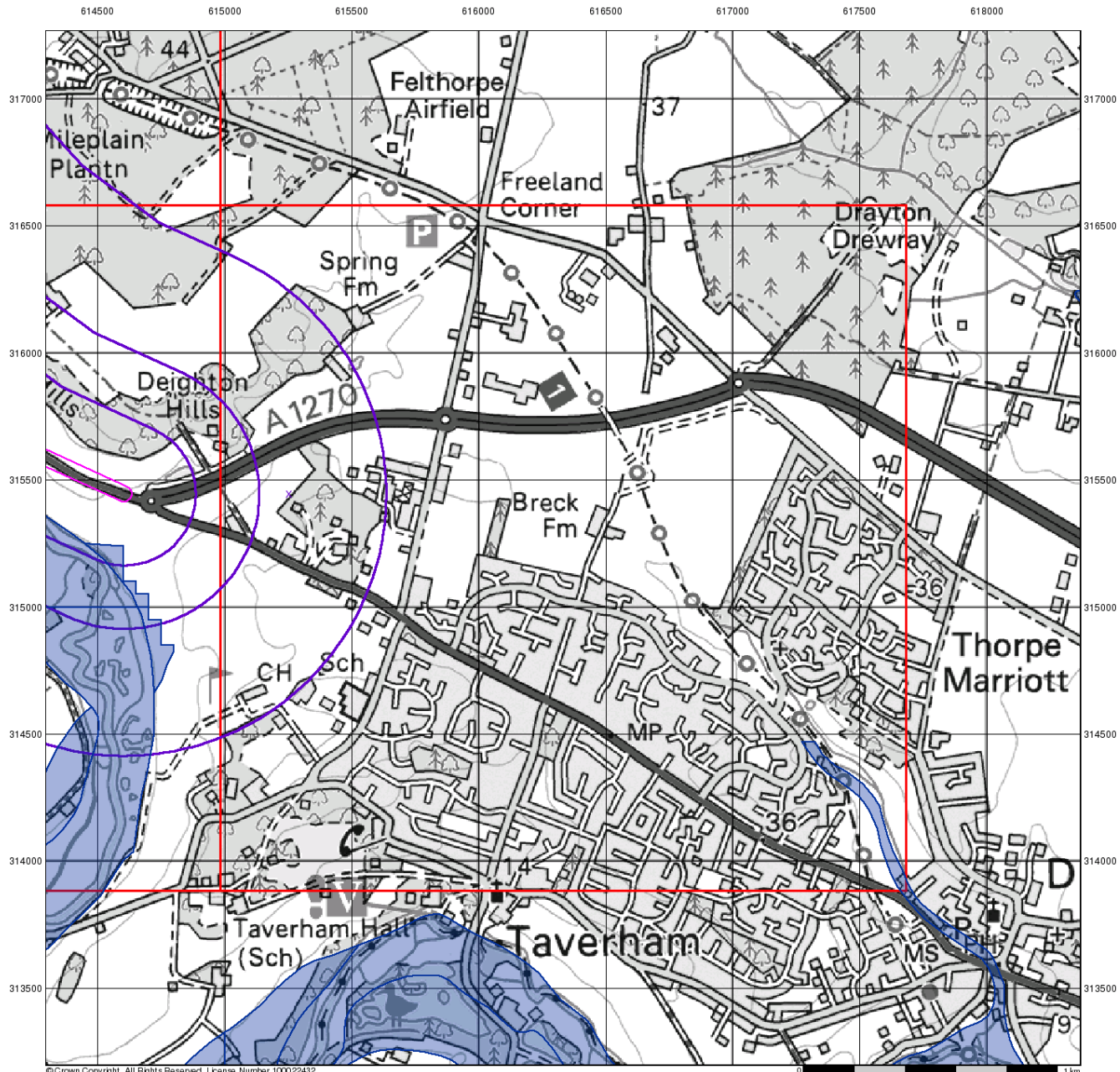
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 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
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BGS Flood Data (1:50,000)

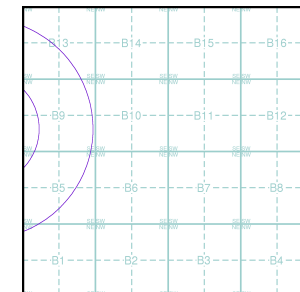
General

- ◊ Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point
- Slice
- B Map ID

BGS Geological Indicators of Flooding

- Coastal
- Inland
- Bodies of Water

BGS Flood Data Map - Slice B



Order Details

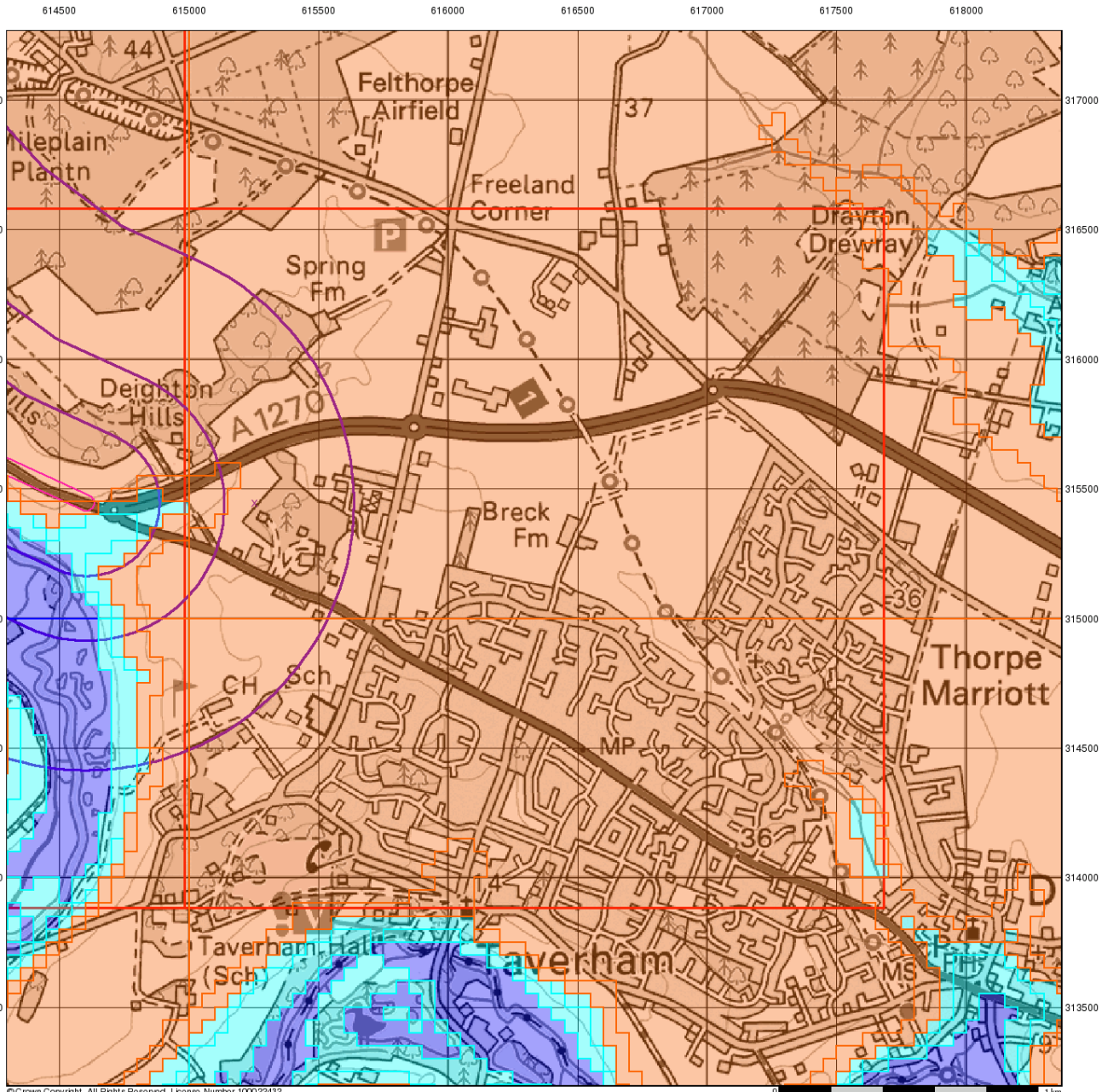
Order Number: 192638994_1_1
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 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details

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BGS Flood Data (1:50,000)

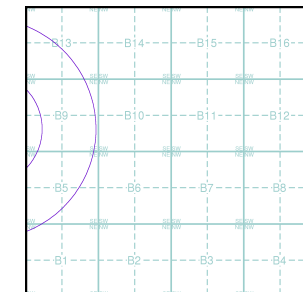
General

- ◆ Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point
- Slice
- B Map ID

BGS Groundwater Flooding Susceptibility

- Potential for Groundwater Flooding to Occur at Surface
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Limited Potential for Groundwater Flooding to Occur

BGS Flood Data Map - Slice B



Order Details

Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

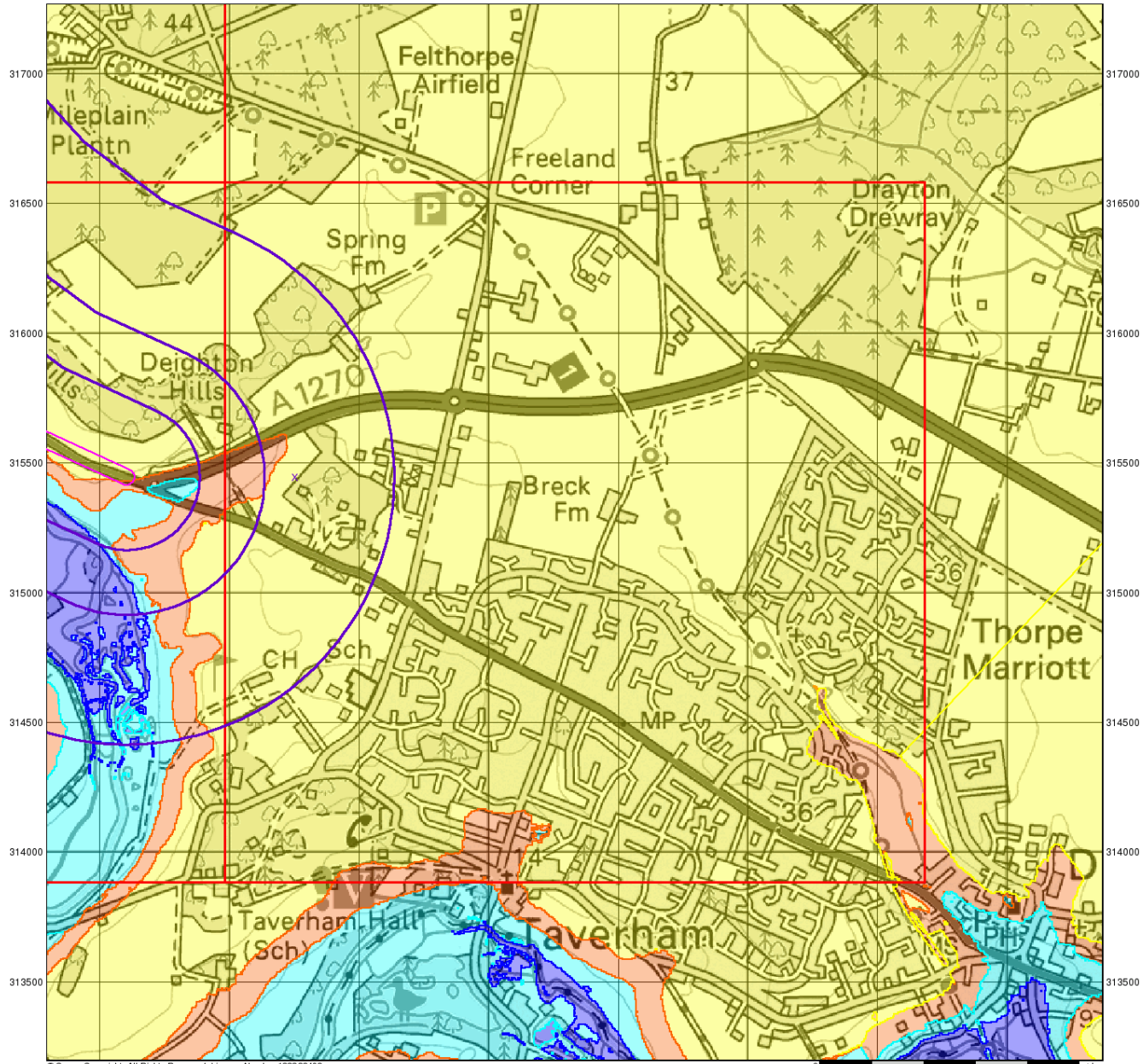
Site Details

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614500 615000 615500 616000 616500 617000 617500 618000



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0 1 km

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GeoSmart Information Groundwater Flood Map (1:50,000)

General

◊ Specified Site ◊ Specified Buffer(s) X Bearing Reference Point

□ Slice

GeoSmart Information Groundwater Flooding Risk

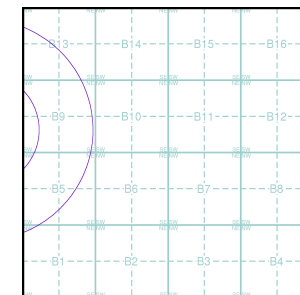
■ High Risk

■ Moderate Risk

■ Low Risk

■ Negligible Risk

GeoSmart Information Groundwater Flood Map - Slice B



Order Details

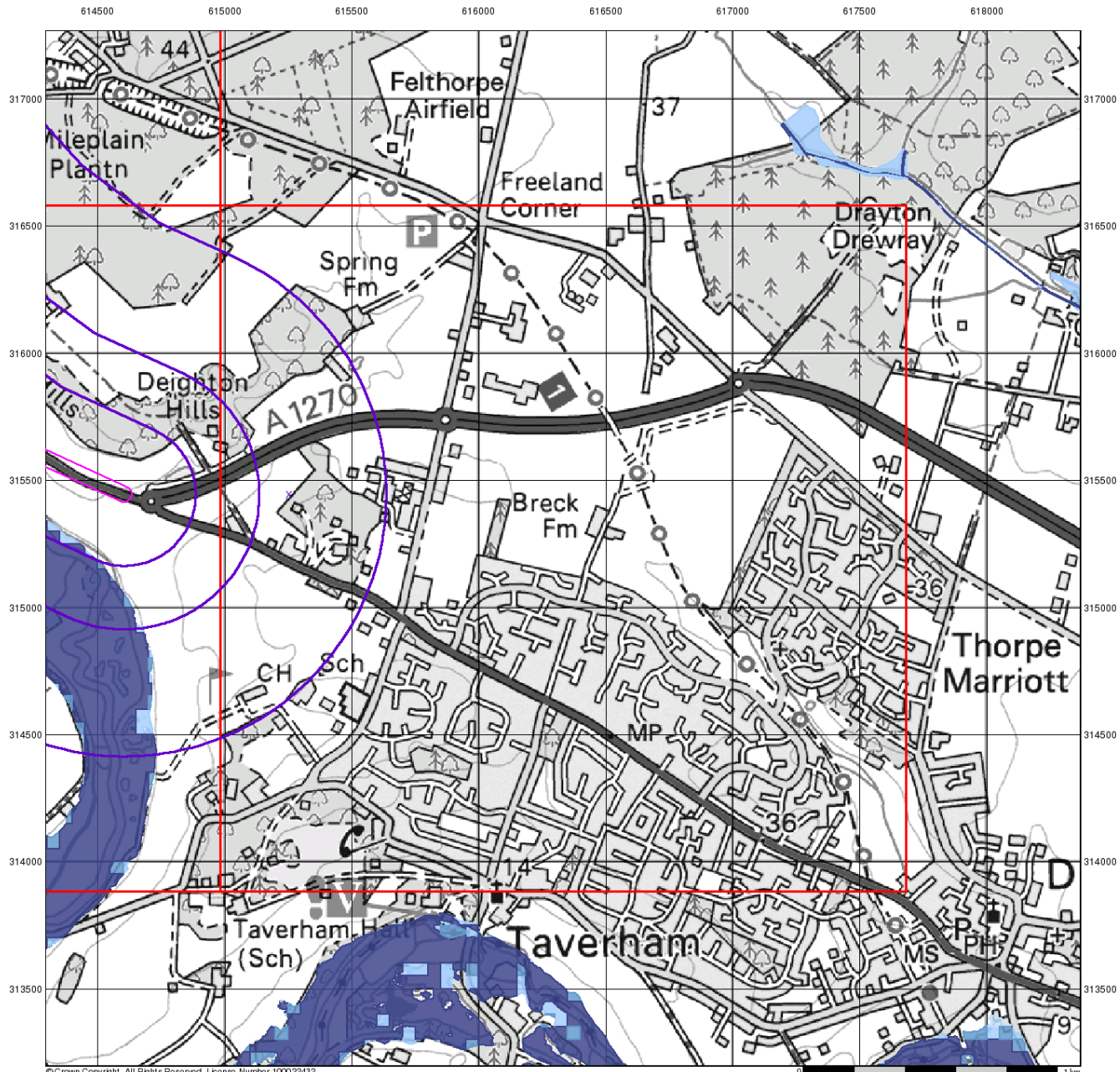
Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details

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EA/NRW RoFRS Data (1:50,000)

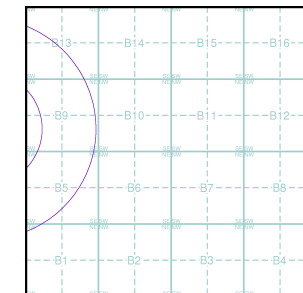
General

- ◊ Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point
- Slice
- Map ID

Risk of Flooding from Rivers and Sea (RoFRS)

- High Risk
- Medium Risk
- Low Risk
- Very Low Risk

EA/NRW RoFRS Data Map - Slice B



Order Details

Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details

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Envirocheck[®] Report:

Flood Screening Report Datasheet

Order Details:

Order Number:

192638994_1_1

Customer Reference:

NWL Line 5

National Grid Reference:

615250, 315440

Slice:

B

Site Area (Ha):

9.82

Search Buffer (m):

1000

Site Details:

Site at 613969,315908

Client Details:

Mr D Lee
WSP UK Ltd
6 Devonshire Square
London
EC2M 4YE

Report Section and Details	Page Number
Summary	-
<p>The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer(s) selected. For ease of reference, the report is broken down into seven sections of data.</p>	
EA / NRW / CEH Flood Data	-
<p>This section details data from the Environment Agency/Natural Resources Wales and the Centre for Ecology and Hydrology.</p> <p>The EA/NRW data is reported to a distance of 250m from the edge of the site polygon and details both Zone 2 (extreme) and Zone 3 flood extents, as well as flood defences, flood water storage areas and areas benefiting from flood defences.</p> <p>The CEH data is reported to a distance of 250m from the edge of the site polygon and covers flood data for Scotland, divided into levels based on the frequency and magnitude of a predicted 100 year term.</p> <p>All data sets within this section are plotted and feature on the EA / NRW / CEH Flood Data (1:10,000) map. For added value, OS Contour data is also plotted, detailing contours, spot heights and land water boundaries.</p>	
JBA Flood Data	1
<p>This section contains the Comprehensive Flood Map ("CFM") data from JBA Risk Management Limited. The data is based upon the likelihood of a flood occurrence for up to 4 flood return periods depending on the type of flooding; these being 75 years, 100 years, 200 years and 1000 years. Each layer being modelled at a 5m cell resolution.</p> <p>Each return period is depicted on a separate 1:10,000 scale map and reports features to a distance of 250m in the datasheet from the edge of the site polygon.</p> <p>For each return period the following three sources of flooding are identified, surface water or pluvial flooding, undefended river flooding or fluvial flooding and undefended coastal flooding. In each case the extent of the flooding source is displayed with the associated depth range.</p> <p>In addition, a 1:10,000 scale map depicting flooding from a Canal Failure and a coverage check for this dataset is included.</p> <p>Where coverage exists, information is reported in the datasheet where the site could be affected by flooding that results from a dam breach.</p> <p>For added value, OS Contour data is also plotted, detailing contours, spot heights and land water boundaries.</p>	
BGS Flood Data	2
<p>This section contains two BGS data sets; namely Geological Indicators of Flooding and Groundwater Flooding Susceptibility, both of which report features out to a possible 1000m, with coverage in England, Wales and Scotland.</p> <p>Each data set is plotted on a separate BGS Flood Data (1:50,000) map.</p>	
GeoSmart Information Groundwater Flood Data	5
<p>This section contains data provided by GeoSmart Information who, building on their expertise, have developed algorithms and calibrated predictions of the risk of groundwater flooding occurring in Great Britain. The resulting map, classifies groundwater flood risk for each 5m x 5m into four categories, negligible, low, moderate and high. These 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 200 years.</p>	
OS Water Network Data	11
<p>This section details the MasterMap Water Network data sourced from the Ordnance Survey. The OS MasterMap Water Network data details a network representing the watercourse within Great Britain.</p> <p>The OS Water Network Lines data set details the approximate central alignment of a watercourse, including rivers, lakes and canals.</p> <p>The OS Water Network Nodes data set details features that represent a river's source, end, a junction where three or more links meet, and places where the real world related attribution changes; for example a watercourse becoming tidal.</p> <p>The data sets within this section are plotted and feature on the OS Water Network Map (1:10,000) . For added value, OS Contour data is also plotted, detailing contours, spot heights and land water boundaries.</p>	

EA/NRW Historic Flood Events Data	-
<p>This section details Historic Flood data sourced from the Environment Agency/Natural Resources Wales and from data held by Landmark. The EA/NRW Historic Flood Events data is reported to a distance of 1000m from the edge of the site polygon and details recorded historic flood events from 1703 to October 2008. The data also contains information on the source and cause of the flood, and how the flood outline was established.</p> <p>Also included in this section is Landmark's Historical Flood Liabilities data set, which identifies areas that are liable to flood based on systematic analysis of historical mapping dating back to the mid 19th century.</p> <p>Both data sets within this section are plotted and feature on the EA/NRW Historical Flood (1:10,000) map. For added value, OS Contour data is also plotted, detailing contours, spot heights and land water boundaries.</p>	
EA/NRW RoFRS Data	12
<p>This section details the Risk of Flooding from Rivers and Sea (RoFRS) data sourced from the Environment Agency/Natural Resources Wales and is reported to a distance of 1000m from the edge of the site polygon. The RoFRS data provides an indication of areas of land at risk of flooding from rivers and the sea. These areas of land, called impacted cells, are represented as 50 metre squares, or smaller areas where a square is intersected by a river or coastline.</p> <p>The average height information of the impacted cell, modelled river and sea levels and information about over 200,000 flood defences are used as inputs to a computer flood model run by the Environment Agency/Natural Resources Wales. The model compares the probability that the flood defences will overtop or breach and the distance of the impact cell from the river or the sea for 40 scenarios for probabilities of between 100% to 0.1%.</p> <p>The results are then consolidated to calculate a single probability category for each impacted cell. These results have been validated by local staff using their local knowledge and expertise. RoFRS is a national flood risk assessment and does not contain information about property thresholds. Due to variations in the input data and the performance of the computer flood model at particular locations, the resulting category of an impacted cell should only be used at a specific study scale. In certain areas it would only be appropriate to compare risks between towns and counties whereas in other areas they would be more suitable for understanding risk at a street level. The level of suitability for a particular cell is indicated by the cell's suitability scale.</p> <p>The data within this section is plotted and feature on the EA/NRW RoFRS Data (1:50,000) map. This dataset is not available in Scotland.</p>	
Flood Insurance Risk Data	14
<p>This section contains flood risk data from Crawford and Company. This dataset is not plotted on any of the associated Flood maps.</p> <p>Crawford & Co have generated an Insurance Claims rating for Flood Risk. The risk is determined by comparing the number of flood insurance claims made to the number of properties in the postcode sector. The data will also include flood claims from domestic accidents or blocked drains, as well as flooding from river or tidal events. Flood insurance claim ratings are reported for the site only.</p>	
Data Currency	15
Data Suppliers	18
Useful Contacts	19

Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
EA / NRW / CEH Flood Data					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
JBA Flood Data					
JBA 75 Year Return (undefended) - Pluvial				n/a	n/a
JBA 75 Year Return (undefended) - Fluvial				n/a	n/a
JBA 75 Year Return (undefended) - Coastal				n/a	n/a
JBA 100 Year Return (undefended) - Fluvial				n/a	n/a
JBA 100 Year Return (undefended) - Coastal				n/a	n/a
JBA 200 Year Return (undefended) - Pluvial				n/a	n/a
JBA 200 Year Return (undefended) - Fluvial				n/a	n/a
JBA 200 Year Return (undefended) - Coastal				n/a	n/a
JBA 1000 Year Return (undefended) - Pluvial	pg 1		1	n/a	n/a
JBA 1000 Year Return (undefended) - Fluvial				n/a	n/a
JBA 1000 Year Return (undefended) - Coastal				n/a	n/a
JBA Canal Failure					
JBA Dam Break					
BGS Flood Data					
BGS Geological Indicators of Flooding	pg 2		2	2	1
BGS Groundwater Flooding Susceptibility	pg 2	3	13	11	11
GeoSmart Information Groundwater Flood					
GeoSmart Information Groundwater Flood Risk	pg 5	3	2	7	73
OS Water Network Data					
OS Water Network Lines	pg 11		1	4	
OS Water Network Nodes	pg 11			3	
EA/NRW Historic Flood Events Data					
Historic Flood Events					
Historical Flood Liabilities					
EA/NRW RoFRS Data					
RoFRS - Risk of Flooding from Rivers and Sea	pg 12		3	5	11
Flood Insurance Risk Data					
Postcode Sector Flood Insurance Claim Ratings	pg 14	1	n/a	n/a	n/a

Report Version v53.0

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	JBA 75 Year Return (undefended) - Pluvial None				
	JBA 75 Year Return (undefended) - Fluvial None				
	JBA 75 Year Return (undefended) - Coastal None				
	JBA 100 Year Return (undefended) - Fluvial None				
	JBA 100 Year Return (undefended) - Coastal None				
	JBA 200 Year Return (undefended) - Pluvial None				
	JBA 200 Year Return (undefended) - Fluvial None				
	JBA 200 Year Return (undefended) - Coastal None				
	JBA 1000 Year Return (undefended) - Pluvial Flood Depth: Greater than 0.1m and Less than or equal to 0.3m	B9SW (W)	160	1	614985 315485
	JBA 1000 Year Return (undefended) - Fluvial None				
	JBA 1000 Year Return (undefended) - Coastal None				
	JBA Canal Failure Coverage Coverage: This area has not been mapped for risk of flooding from canal or aqueduct failure or breach.	B9SW (SW)	0	1	615252 315444
	JBA Canal Failure None				
	JBA Dam Break Coverage Coverage: This area has been mapped for flooding from dam or reservoir embankment failure or breach.	B9SW (SW)	0	1	615252 315444
	JBA Dam Break None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Geological Indicators of Flooding Flooding Type: Inland Flooding Flood Potential: Higher flood potential from rivers: the first areas to experience the effects of inland flooding in a river catchment. Code:	(SW)	114	2	614634 315050
	BGS Geological Indicators of Flooding Flooding Type: Inland Flooding Flood Potential: Lower flood potential from rivers: areas affected by secondary flooding in extreme cases as a result of a prolonged flood event. Code:	(SW)	175	2	614700 315050
	BGS Geological Indicators of Flooding Flooding Type: Inland Flooding Flood Potential: Higher flood potential from rivers: the first areas to experience the effects of inland flooding in a river catchment. Code:	(SW)	415	2	614657 315000
	BGS Geological Indicators of Flooding Flooding Type: Inland Flooding Flood Potential: Lower flood potential from rivers: areas affected by secondary flooding in extreme cases as a result of a prolonged flood event. Code:	(SW)	418	2	614750 314950
	BGS Geological Indicators of Flooding Flooding Type: Inland Flooding Flood Potential: Lower flood potential from rivers: areas affected by secondary flooding in extreme cases as a result of a prolonged flood event. Code:	(SW)	820	2	614478 314604
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (NW)	0	2	615000 315550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SW)	0	2	614650 315050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	2	614650 315444
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	2	2	614300 315500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B9SW (W)	15	2	615000 315444
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	15	2	614600 315400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	15	2	614800 315400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	26	2	614350 315450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	47	2	614300 315450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	66	2	614800 315450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	72	2	614450 315350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	75	2	614450 315400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	100	2	614500 315350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	143	2	614800 315300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (W)	173	2	615000 315450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (W)	213	2	615000 315400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (SW)	283	2	615000 315300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	315	2	614650 315100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (NW)	365	2	615200 315500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	367	2	614700 315050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	376	2	614750 315050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (SW)	376	2	615252 315444
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SW)	415	2	614650 315000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	417	2	614700 315000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	425	2	614750 315000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	438	2	614800 315000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B5NW (SW)	455	2	615000 315000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B5NW (S)	565	2	615252 315000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	582	2	614800 314850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	643	2	614850 314800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	704	2	614300 314750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	757	2	614350 314700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	775	2	614300 314700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	791	2	614400 314650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	805	2	614350 314650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	821	2	614300 314650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	934	2	614850 314500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	946	2	614900 314500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	GeoSmart Information Groundwater Flood Data Risk: Negligible Risk Risk Details: There is a negligible risk of groundwater flooding in this area and any groundwater flooding incidence has a chance of less than 1 in 100 (<1%) probability of occurrence.	B9SW (SW)	0	1	615252 315444
	GeoSmart Information Groundwater Flood Data Risk: Low Risk Risk Details: There is a low risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	B9SW (W)	0	1	615175 315475
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(W)	0	1	614785 315335
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	27	1	614630 315030
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(W)	59	1	614885 315425
	GeoSmart Information Groundwater Flood Data Risk: Negligible Risk Risk Details: There is a negligible risk of groundwater flooding in this area and any groundwater flooding incidence has a chance of less than 1 in 100 (<1%) probability of occurrence.	(SW)	307	1	614895 315265
	GeoSmart Information Groundwater Flood Data Risk: Negligible Risk Risk Details: There is a negligible risk of groundwater flooding in this area and any groundwater flooding incidence has a chance of less than 1 in 100 (<1%) probability of occurrence.	(SW)	309	1	614900 315270
	GeoSmart Information Groundwater Flood Data Risk: Low Risk Risk Details: There is a low risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	311	1	614900 315265
	GeoSmart Information Groundwater Flood Data Risk: Low Risk Risk Details: There is a low risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	313	1	614910 315270
	GeoSmart Information Groundwater Flood Data Risk: Low Risk Risk Details: There is a low risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	368	1	614665 315050
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	396	1	614565 315020
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	450	1	614585 314965
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	505	1	614600 314910
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	521	1	614680 314885
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	530	1	614620 314885
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	541	1	614490 314885

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	557	1	614515 314860
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	565	1	614605 314850
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	565	1	614625 314850
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	568	1	614675 314850
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	570	1	614600 314845
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	580	1	614625 314835
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	580	1	614595 314835
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	586	1	614465 314845
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	593	1	614455 314840
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	609	1	614415 314835
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	610	1	614590 314805
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	611	1	614565 314805
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	625	1	614615 314790
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	630	1	614465 314800
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	640	1	614595 314775
	GeoSmart Information Groundwater Flood Data Risk: Low Risk Risk Details: There is a low risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	640	1	614755 314790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.</p>	(SW)	643	1	614500 314780
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.</p>	(SW)	645	1	614440 314790
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.</p>	(SW)	649	1	614450 314780
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.</p>	(SW)	680	1	614580 314735
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.</p>	(SW)	709	1	614315 314765
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.</p>	(SW)	720	1	614480 314705
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.</p>	(SW)	721	1	614360 314735
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.</p>	(SW)	733	1	614535 314685
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.</p>	(SW)	748	1	614415 314690
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.</p>	(SW)	750	1	614435 314680
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: Negligible Risk Risk Details: There is a negligible risk of groundwater flooding in this area and any groundwater flooding incidence has a chance of less than 1 in 100 (<1%) probability of occurrence.</p>	(SW)	759	1	614855 314695
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.</p>	(SW)	766	1	614445 314665
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.</p>	(SW)	767	1	614380 314680
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.</p>	(SW)	768	1	614460 314660
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.</p>	(SW)	769	1	614430 314665
	<p>GeoSmart Information Groundwater Flood Data</p> <p>Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.</p>	(SW)	770	1	614475 314655

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	770	1	614510 314650
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	773	1	614555 314635
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	785	1	614655 314625
	GeoSmart Information Groundwater Flood Data Risk: Low Risk Risk Details: There is a low risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	789	1	614330 314630
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	794	1	614525 314625
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	802	1	614685 314615
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	806	1	614440 314625
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	806	1	614660 314610
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	815	1	614590 314600
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	824	1	614520 314595
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	825	1	614445 314605
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	830	1	614505 314590
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	832	1	614495 314590
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	839	1	614475 314585
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	839	1	614450 314590
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	845	1	614615 314570

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	851	1	614675 314560
	GeoSmart Information Groundwater Flood Data Risk: Moderate Risk Risk Details: There is a moderate risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence.	(SW)	861	1	614670 314550
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	870	1	614645 314540
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	871	1	614655 314545
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	891	1	614665 314525
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	893	1	614485 314530
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	895	1	614580 314520
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	918	1	614690 314500
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	930	1	614610 314485
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	936	1	614550 314480
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	939	1	614470 314485
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	951	1	614555 314465
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	960	1	614710 314460
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	964	1	614705 314455
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	974	1	614705 314445
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	975	1	614650 314440

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	985	1	614575 314430
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	994	1	614710 314425
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	996	1	614555 314420
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	999	1	614515 314420
	GeoSmart Information Groundwater Flood Data Risk: High Risk Risk Details: There is a high risk of groundwater flooding in this area with a chance of greater than 1 in 100 (>1%) probability of occurrence or more frequent.	(SW)	999	1	614705 314420

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	OS Water Network Lines Watercourse Name: Not Supplied Watercourse Form: Inland river Watercourse Length: 225.8 Watercourse Level: On ground surface Primacy: 1 Permanent: True Catchment Name: Wensum and Yare	B9SW (W)	160	3	614996 315403
2	OS Water Network Lines Watercourse Name: Not Supplied Watercourse Form: Inland river Watercourse Length: 60.0 Watercourse Level: On ground surface Primacy: 2 Permanent: True Catchment Name: Wensum and Yare	B9SW (W)	347	3	615012 315409
3	OS Water Network Lines Watercourse Name: Not Supplied Watercourse Form: Inland river Watercourse Length: 13.2 Watercourse Level: Underground Primacy: 1 Permanent: True Catchment Name: Wensum and Yare	B9SW (W)	363	3	615008 315407
4	OS Water Network Lines Watercourse Name: Not Supplied Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Primacy: 1 Permanent: True Catchment Name: Wensum and Yare	B9SW (W)	375	3	615012 315409
5	OS Water Network Lines Watercourse Name: Not Supplied Watercourse Form: Inland river Watercourse Length: 956.0 Watercourse Level: On ground surface Primacy: 1 Permanent: True Catchment Name: Wensum and Yare	B9SW (NW)	378	3	615183 315524
6	OS Water Network Nodes Hydronode Pseudo Category:	B9SW (W)	363	3	614996 315403
7	OS Water Network Nodes Hydronode Pseudo Category:	B9SW (W)	375	3	615008 315407
8	OS Water Network Nodes Hydronode Junction Category:	B9SW (W)	378	3	615012 315409

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk Assessment: High - Greater than or equal to 1 in 30 (3.3%) chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	97	4	614600 315058
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk Assessment: Low - Less than 1 in 100 (1%) but greater than or equal to 1 in 1,000 (0.1%) chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(W)	194	4	614430 315250
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk Assessment: Low - Less than 1 in 100 (1%) but greater than or equal to 1 in 1,000 (0.1%) chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(W)	229	4	614480 315200
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk Assessment: Medium - Less than 1 in 30 (3.3%) but greater than or equal to 1 in 100 (1%) chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(W)	257	4	614525 315150
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk Assessment: Medium - Less than 1 in 30 (3.3%) but greater than or equal to 1 in 100 (1%) chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	298	4	614568 315100
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk Assessment: Low - Less than 1 in 100 (1%) but greater than or equal to 1 in 1,000 (0.1%) chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	356	4	614606 315050
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk Assessment: Medium - Less than 1 in 30 (3.3%) but greater than or equal to 1 in 100 (1%) chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	365	4	614622 315026
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk Assessment: Low - Less than 1 in 100 (1%) but greater than or equal to 1 in 1,000 (0.1%) chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	479	4	614683 314913
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk Assessment: Low - Less than 1 in 100 (1%) but greater than or equal to 1 in 1,000 (0.1%) chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	594	4	614703 314828
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk Assessment: Medium - Less than 1 in 30 (3.3%) but greater than or equal to 1 in 100 (1%) chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	621	4	614715 314800
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk Assessment: Low - Less than 1 in 100 (1%) but greater than or equal to 1 in 1,000 (0.1%) chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	671	4	614709 314750
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk Assessment: Low - Less than 1 in 100 (1%) but greater than or equal to 1 in 1,000 (0.1%) chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	683	4	614300 314800
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk Assessment: Low - Less than 1 in 100 (1%) but greater than or equal to 1 in 1,000 (0.1%) chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	757	4	614350 314700
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk Assessment: Medium - Less than 1 in 30 (3.3%) but greater than or equal to 1 in 100 (1%) chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	770	4	614712 314650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk: Medium - Less than 1 in 30 (3.3%) but greater than or equal to 1 in 100 (1%) Assessment: chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	791	4	614400 314650
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk: Low - Less than 1 in 100 (1%) but greater than or equal to 1 in 1,000 (0.1%) Assessment: chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	816	4	614707 314600
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk: Low - Less than 1 in 100 (1%) but greater than or equal to 1 in 1,000 (0.1%) Assessment: chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	839	4	614400 314600
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk: Medium - Less than 1 in 30 (3.3%) but greater than or equal to 1 in 100 (1%) Assessment: chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	878	4	614450 314550
	Risk of Flooding from Rivers and Sea (RoFRS) Flood Risk: Low - Less than 1 in 100 (1%) but greater than or equal to 1 in 1,000 (0.1%) Assessment: chance in any given year Suitability Scale: Town to Street Source: Environment Agency, Head Office	(SW)	927	4	614450 314500








Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Postcode Sector Flood Insurance Claim Ratings Insurance Rating: Low Flood Insurance Claim Rating Postcode Sector: NR9 5	B9SW (NE)	0	1	615294 315538

EA / NRW / CEH Flood Data	Version	Update Cycle
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2018	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2018	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2018	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2018	Quarterly
Flood Defences Environment Agency - Head Office	August 2018	Quarterly
EA / NRW Surface Water Flood Data	Version	Update Cycle
Surface Water 1 in 30 year Flood Depth Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Depth Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Depth Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 30 year Flood Velocity Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Velocity Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Velocity Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 30 year Flood Flow Direction 25m Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Flow Direction 25m Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Flow Direction 25m Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 30 year Flood Hazard Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Hazard Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Hazard Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability Environment Agency - Head Office	October 2013	Annually

JBA Flood Data	Version	Update Cycle
JBA 75 Year Return (undefended) - Pluvial JBA Risk Management Limited	November 2018	Annually
JBA 75 Year Return (undefended) - Fluvial JBA Risk Management Limited	December 2017	Annually
JBA 75 Year Return (undefended) - Coastal JBA Risk Management Limited	November 2018	Annually
JBA 100 Year Return (undefended) - Fluvial JBA Risk Management Limited	December 2017	Annually
JBA 100 Year Return (undefended) - Coastal JBA Risk Management Limited	November 2018	Annually
JBA 200 Year Return (undefended) - Pluvial JBA Risk Management Limited	December 2017	Annually
JBA 200 Year Return (undefended) - Fluvial JBA Risk Management Limited	December 2017	Annually
JBA 200 Year Return (undefended) - Coastal JBA Risk Management Limited	November 2018	Annually
JBA 1000 Year Return (undefended) - Pluvial JBA Risk Management Limited	November 2018	Annually
JBA 1000 Year Return (undefended) - Fluvial JBA Risk Management Limited	December 2017	Annually
JBA 1000 Year Return (undefended) - Coastal JBA Risk Management Limited	November 2018	Annually
JBA Canal Failure JBA Risk Management Limited	October 2017	Annually
JBA Dam Break JBA Risk Management Limited	October 2017	Annually
BGS Flood Data	Version	Update Cycle
BGS Geological Indicators of Flooding British Geological Survey - National Geoscience Information Service	February 2011	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
GeoSmart Information Groundwater Flooding Data	Version	Update Cycle
GeoSmart Information Groundwater Flood Risk GeoSmart Information Ltd	November 2017	Bi-Annually
OS Water Network Data	Version	Update Cycle
OS Water Network Lines Ordnance Survey	October 2018	Quarterly
OS Water Network Nodes Ordnance Survey	October 2018	Quarterly
EA/NRW Historic Flood Events Data	Version	Update Cycle
Historic Flood Events Environment Agency - Head Office	November 2018	Quarterly
Historical Flood Liabilities Landmark Information Group Limited	December 1999	Not Applicable

EA/NRW Risk of Flooding from Rivers and Sea (RoFRS)	Version	Update Cycle
RoFRS - Risk of Flooding from Rivers and Sea Environment Agency - Head Office	October 2018	Annually
Flood Insurance Risk Data	Version	Update Cycle
Postcode Sector Flood Insurance Claim Ratings Crawford and Company	July 2018	Quarterly

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Natural Resources Wales	
Centre for Ecology and Hydrology	 <p>Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
British Geological Survey	 <p>British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
GeoSmart Information	
JBA Risk Management	

Contact	Name and Address	Contact Details
1	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9966 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk
2	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
4	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
5	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409

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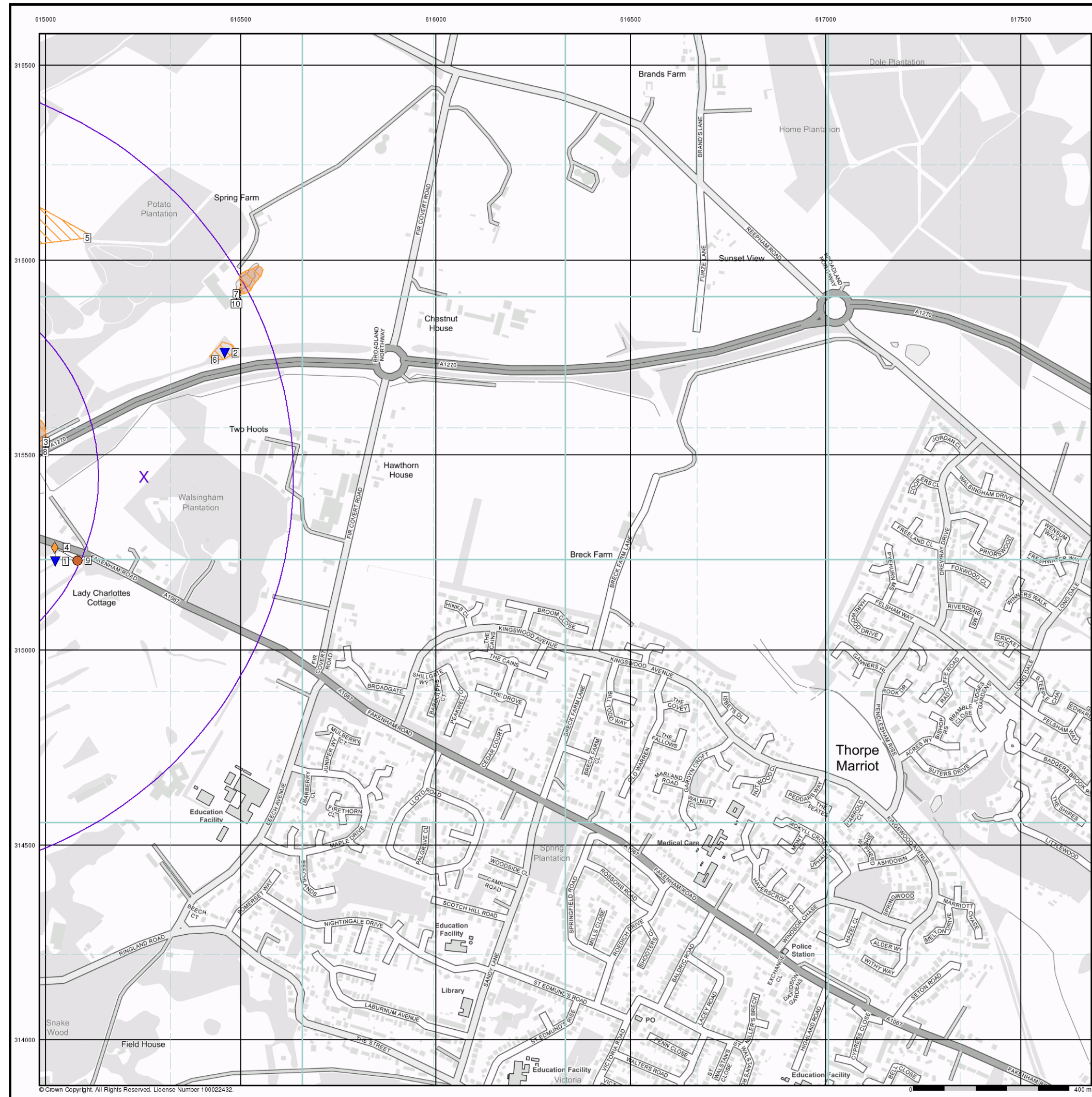
JBA Flood Data Information

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Historical Land Use Information (1:10,000)

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts	Blue diamond	Blue line	Blue hatched polygon
Disturbed Ground	Purple diamond	Purple line	Purple hatched polygon
General Quarrying	Brown diamond	Brown line	Brown hatched polygon
Heap, unknown constituents	Green diamond	Green line	Green hatched polygon
Mineral Railway	Red diamond	Red line	Red hatched polygon
Mining and Quarrying General	Red diamond	Red line	Red hatched polygon
Mining of Coal & Lignite	Blue diamond	Blue line	Blue hatched polygon
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	Orange diamond	Orange line	Orange hatched polygon

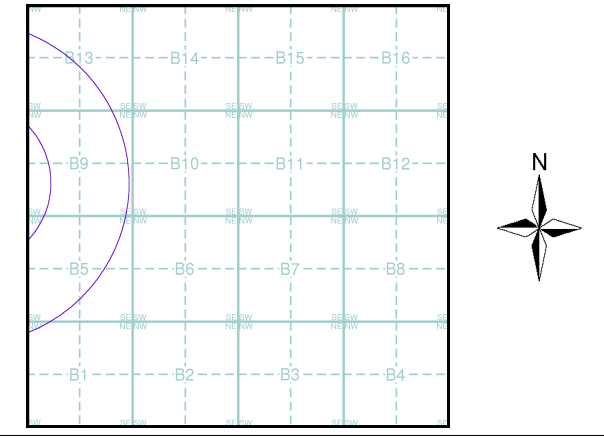
Historical Land Use

	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	Brown circle	Red dashed line	Brown hatched polygon
Potentially Infilled Land (Water)	Green circle	Green dashed line	Green hatched polygon
Former Marsh	Blue cross		

Mining Data

- Potential Mining Area
- BGS Recorded Mineral Site

Mining and Ground Stability - Slice B

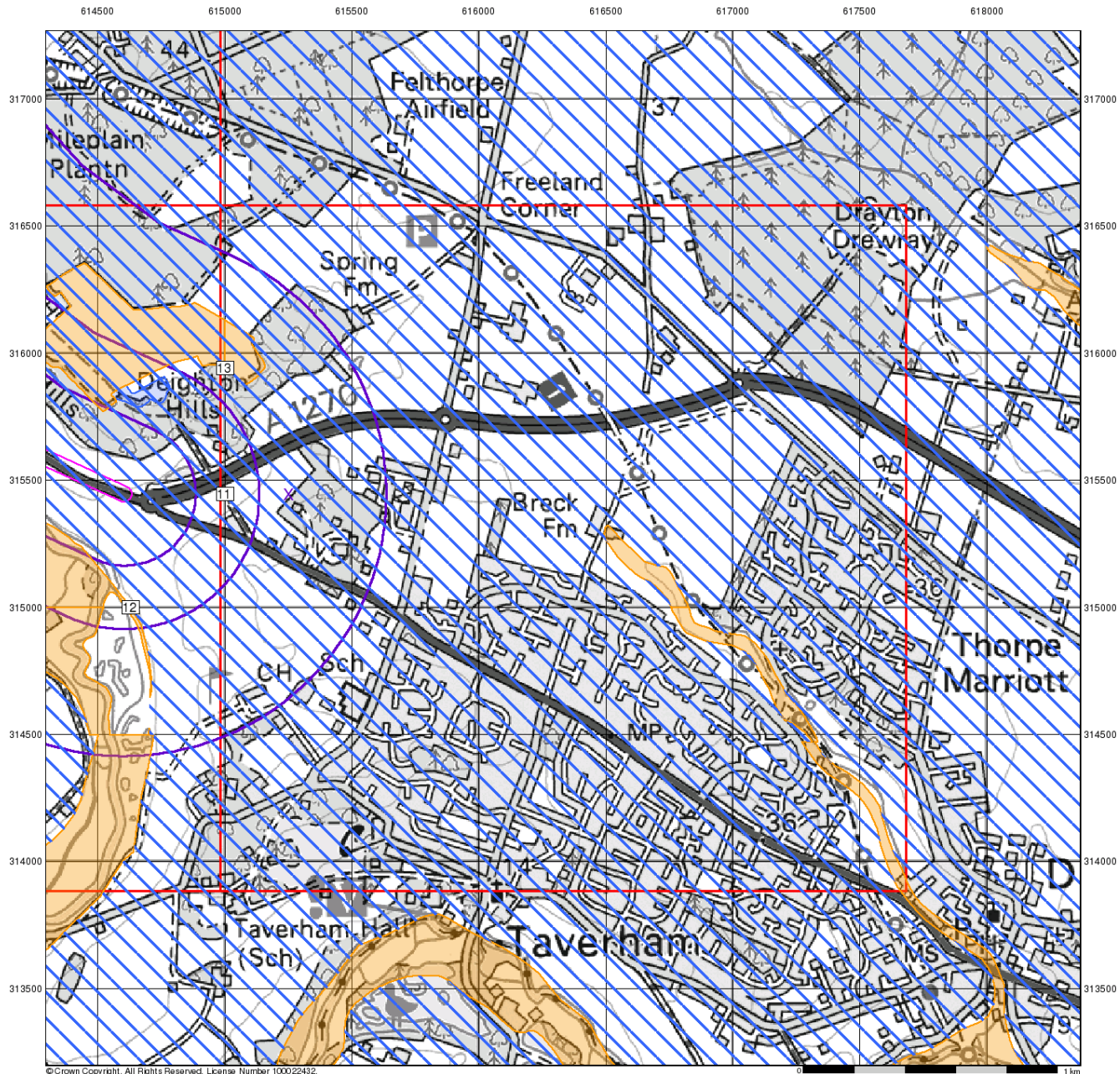


Order Details

Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details

Site at 613969,315908








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Ground Stability Data (1:50,000)





General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Slice
-  Map ID

Potential for Compressible Ground Stability Hazards





-  High
-  Low
-  Moderate
-  Very Low

Potential for Collapsible Ground Stability Hazards

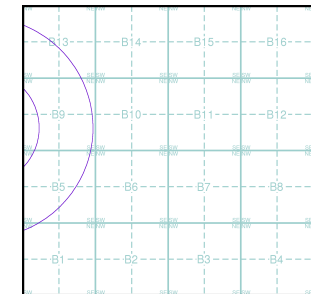
-  High
-  Low
-  Moderate
-  Very Low

Brine Pumping and Salt Mining

- Brine Pumping Related Feature
- Salt Mining Related Feature

- | Point | Polygon |
|---|---|
|  |  |
|  |  |

Mining and Ground Stability - Slice B



Order Details

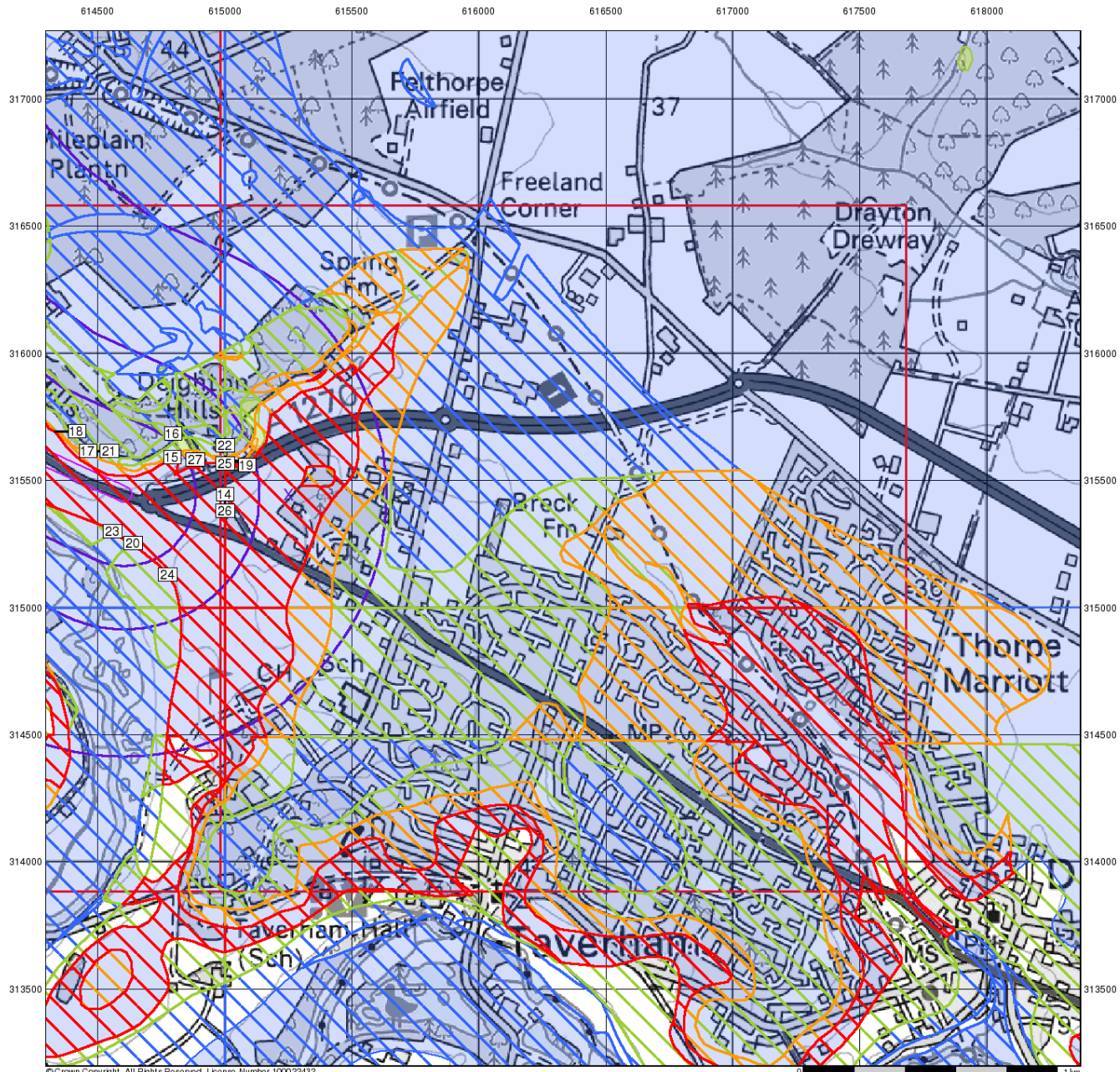
Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details

Site at 613969,315908

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 Fax: 0844 844 9951
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Ground Stability Data (1:50,000)

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

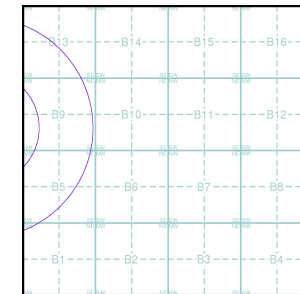
Potential for Landslide Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

Potential for Ground Dissolution Stability Hazards

- High
- Low
- Moderate
- Very Low

Mining and Ground Stability - Slice B



Order Details

Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details

Site at 613969,315908

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Ground Stability Data (1:50,000)

General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Slice
-  Map ID

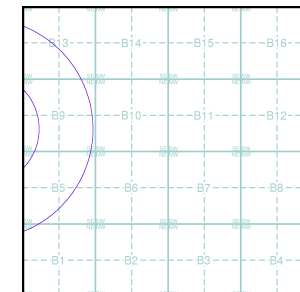
Potential for Running Sand Ground Stability Hazards

-  High
-  Low
-  Moderate
-  Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

-  High
-  Low
-  Moderate
-  Very Low

Mining and Ground Stability - Slice B



Order Details

Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details

Site at 613969, 315908

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Envirocheck[®] Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:

192638994_1_1

Customer Reference:

NWL Line 5

National Grid Reference:

615250, 315440

Slice:

B

Site Area (Ha):

9.82

Search Buffer (m):

1000

Site Details:

Site at 613969,315908

Client Details:

Mr D Lee
WSP UK Ltd
6 Devonshire Square
London
EC2M 4YE

Report Section and Details	Page Number
Summary	-
<p>The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected.</p> <p>For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).</p>	
Mining and Natural Cavities Data	1
<p>The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities.</p> <p>Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.</p>	
Historical Land Use Information (1:2,500)	-
<p>The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative.</p> <p>For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.</p>	
Historical Land Use Information (1:10,000)	2
<p>The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses.</p> <p>For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.</p>	
Ground Stability Data (1:50,000)	3
<p>The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.</p>	
Historical Map List	5
<p>The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.</p>	
Data Currency	6
Data Suppliers	7
Useful Contacts	8

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The brine subsidence data relating to the Droitwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

The Mining Instability data was obtained on licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The supplied Mining Instability data is derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites	pg 1			1	1
Coal Mining Affected Areas			n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability			n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 1	Yes		n/a	n/a
Potential Mining Areas					
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)				n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying					
Heap, unknown constituents					
Mineral Railway					
Mining & quarrying general					
Mining of coal & lignite					
Quarrying of sand & clay, operation of sand & gravel pits	pg 2			2	3
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 2			2	1
Potentially Infilled Land (Water)					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Ground Stability Data (1:50,000)					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 3	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 3	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 3	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 3	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 4	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 4	Yes	Yes	n/a	n/a
Salt Mining Related Features					
Subsidence Insurance Claims				n/a	n/a
Subsidence Investigations				n/a	n/a

Report Version v53.0

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Lady Charlotte'S Plantation Pit Location: Taverham, Norwich, Norfolk Source: British Geological Survey, National Geoscience Information Service Reference: 194903 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m</p>	B9SW (SW)	430	1	615024 315254
2	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Spring Farm Pit Location: Taverham, Norwich, Norfolk Source: British Geological Survey, National Geoscience Information Service Reference: 194926 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Wroxham Crag Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m</p>	B9NE (NE)	882	1	615458 315766
	<p>Coal Mining Affected Areas</p> <p>In an area which may not be affected by coal mining</p>				
	<p>Non Coal Mining Areas of Great Britain</p> <p>Risk: Rare Source: British Geological Survey, National Geoscience Information Service</p>	B9SW (W)	0	1	615000 315444

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1884	B9SW (W)	293	-	615000 315533
4	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1938	B9SW (SW)	426	-	615023 315263
5	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1975	B13SW (N)	542	-	615106 316057
6	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1938	B9NE (NE)	843	-	615434 315745
7	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1884	B13SE (NE)	971	-	615488 315914
8	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1975	B9SW (W)	293	-	615000 315533
9	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1976	B9SW (SW)	426	-	615023 315263
10	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1976	B13SE (NE)	971	-	615488 315914

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
11	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9SW (W)	0	1	615000 315444
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(SW)	96	1	614630 315000
12	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(SW)	96	1	614630 315000
13	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B13SW (NW)	231	1	615000 315940
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9SW (W)	0	1	615000 315444
14	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	B9SW (W)	0	1	615000 315444
15	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(W)	14	1	614794 315590
16	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(NW)	58	1	614797 315685
17	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(W)	61	1	614462 315616
18	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(W)	61	1	614330 315692
19	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B9NW (NW)	62	1	615000 315593
20	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(W)	64	1	614627 315253
21	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(W)	67	1	614498 315615
22	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9NW (NW)	71	1	615000 315637
23	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(W)	118	1	614557 315299
24	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(SW)	163	1	614775 315130
25	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B9SW (NW)	185	1	615000 315565
26	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9SW (W)	0	1	615000 315444
27	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(W)	232	1	614882 315582

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9SW (W)	0	1	615000 315444
29	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(SW)	96	1	614630 315000
30	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9SW (W)	63	1	615000 315444
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9SW (W)	0	1	615000 315542
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9SW (W)	149	1	615000 315408








No Historical Land Use information available.

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Norfolk	050_NE	1883
Norfolk	050_SE	1884
Norfolk	051_NW	1891
Norfolk	051_SW	1892
Norfolk	050_NE	1907
Norfolk	051_NW	1907
Norfolk	050_SE	1908
Norfolk	051_SW	1908
Norfolk	050_SE	1938
Norfolk	051_SW	1938
Norfolk	051_NW	1951
Ordnance Survey Plan	TG11NE	1957
Ordnance Survey Plan	TG11NW	1957
Ordnance Survey Plan	TG11SE	1957
Ordnance Survey Plan	TG11SW	1957
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	TG11NW	1975
Ordnance Survey Plan	TG11SW	1976
Ordnance Survey Plan	TG11SE	1995
Ordnance Survey Plan	TG11NE	1996

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2018	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Man Made Mining Cavities Peter Brett Associates	October 2018	Bi-Annually
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural Cavities Peter Brett Associates	October 2018	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features Landmark Information Group Limited	August 2018	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Subsidence Insurance Claims SP Property Services	October 2018	Quarterly
Subsidence Investigations CET Structures Ltd	July 2018	Quarterly
Brine Subsidence Solution Area Johnson Poole & Bloomer	January 2015	Annual Rolling Update

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
British Geological Survey	 British Geological Survey <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
The Coal Authority	 The Coal Authority
Ove Arup	
Peter Brett Associates	
Wardell Armstrong	 <i>your earth our world</i>
Johnson Poole & Bloomer	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Envirocheck[®] Report: Historical Data Report Datasheet

Order Details:

Order Number:

192638994_1_1

Customer Reference:

NWL Line 5

National Grid Reference:

615250, 315440

Slice:

B

Site Area (Ha):

9.82

Search Buffer (m):

1000

Site Details:

Site at 613969,315908

Client Details:

Mr D Lee
WSP UK Ltd
6 Devonshire Square
London
EC2M 4YE

Report Section	Page Number
Summary	-
Historical Building Plans Information	-
Historical Land Use Information	1
Historical Tanks and Energy Facilities	-
Historical Map List	2
Useful Contacts and Further Information	3

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Historical Building Plans Information					
Areas Cleared Due To Enemy Action					
Above Ground Fuel Tanks (100m)				n/a	n/a
Asbestos (100m)				n/a	n/a
Benzene/Benzole/Naphtha, Naphthalene/Kerosene (100m)				n/a	n/a
Electricity Generation (100m)				n/a	n/a
Electricity Sub-Stations (100m)				n/a	n/a
Gas Industry (100m)				n/a	n/a
Gas Storage (100m)				n/a	n/a
Gas Use (100m)				n/a	n/a
Oil Industry (100m)				n/a	n/a
Oil Storage (100m)				n/a	n/a
Oil Use (100m)				n/a	n/a
Paint based Oils (100m)				n/a	n/a
Paraffin (100m)				n/a	n/a
Petrol and Diesel Industry (100m)				n/a	n/a
Petrol and Diesel Storage (100m)				n/a	n/a
Petrol and Diesel Use (100m)				n/a	n/a
Potential Fuel Gas (100m)				n/a	n/a
Potential Fuel Oil (100m)				n/a	n/a
Potential Fuel Use (100m)				n/a	n/a
Potential Petrol and Diesel (100m)				n/a	n/a
Potential Tanks (100m)				n/a	n/a
Potentially Fuel-related Tanks (100m)				n/a	n/a
Underground Fuel Tanks (100m)				n/a	n/a
Historical Land Use Information					
Former Marshes					
Historical Flood Liabilities					
Potentially Contaminative Industrial Uses (Past Land Use)	pg 1			2	3
Potentially Infilled Land (Non-Water)	pg 1			2	1
Potentially Infilled Land (Water)					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Historical Tanks and Energy Facilities					
Electrical Sub Station Facilities (100m)				n/a	n/a
Electricity Industry Facilities (100m)				n/a	n/a
Gas Industry Facilities (100m)				n/a	n/a
Gas Monitoring Facilities (100m)				n/a	n/a
Miscellaneous Power Facilities (100m)				n/a	n/a
Oil Industry Facilities (100m)				n/a	n/a
Petroleum Storage Facilities (100m)				n/a	n/a
Potential Tanks (100m)				n/a	n/a
Tanks (100m)				n/a	n/a

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1884	B9SW (W)	293	1	615000 315533
2	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1938	B9SW (SW)	426	1	615023 315263
3	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1975	B13SW (N)	542	1	615106 316057
4	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1938	B9NE (NE)	843	1	615434 315745
5	Potentially Contaminative Industrial Uses (Past Land Use) Use: Quarrying of sand & clay, operation of sand & gravel pits Date of Mapping: 1884	B13SE (NE)	971	1	615488 315914
6	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1975	B9SW (W)	293	1	615000 315533
7	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1976	B9SW (SW)	426	1	615023 315263
8	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1976	B13SE (NE)	971	1	615488 315914

No Historical Building Plans information available.

The following mapping has been analysed for Historical Land Use Information:

1:10,560	Mapsheet	Published Date
Norfolk	050_NE	1883
Norfolk	050_SE	1884
Norfolk	051_NW	1891
Norfolk	051_SW	1892
Norfolk	050_NE	1907
Norfolk	051_NW	1907
Norfolk	050_SE	1908
Norfolk	051_SW	1908
Norfolk	050_SE	1938
Norfolk	051_SW	1938
Norfolk	051_NW	1951
Ordnance Survey Plan	TG11NE	1957
Ordnance Survey Plan	TG11NW	1957
Ordnance Survey Plan	TG11SE	1957
Ordnance Survey Plan	TG11SW	1957
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	TG11NW	1975
Ordnance Survey Plan	TG11SW	1976
Ordnance Survey Plan	TG11SE	1995
Ordnance Survey Plan	TG11NE	1996

No Historical Tanks and Energy Facilities information available.

Contact	Name and Address	Contact Details
1	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9966 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

Historical Building Plans Information

This data set contains potentially contaminative features such as asbestos, petrol, oil and tanks captured from Historical Building Plans. The Historical Building Plans were produced by the London-based firm Charles E. Goad Ltd. as fire insurance plans, dating back to 1885. The firm ceased production of fire insurance plans in 1970. Most of the important towns and cities of the British Isles are covered. Historical Building Plans are usually at the scales of 1:480 (1 inch to 40 feet) for the British Isles. They were updated every 5-6 years by means of revision sheets designed to be pasted on to the original plans.

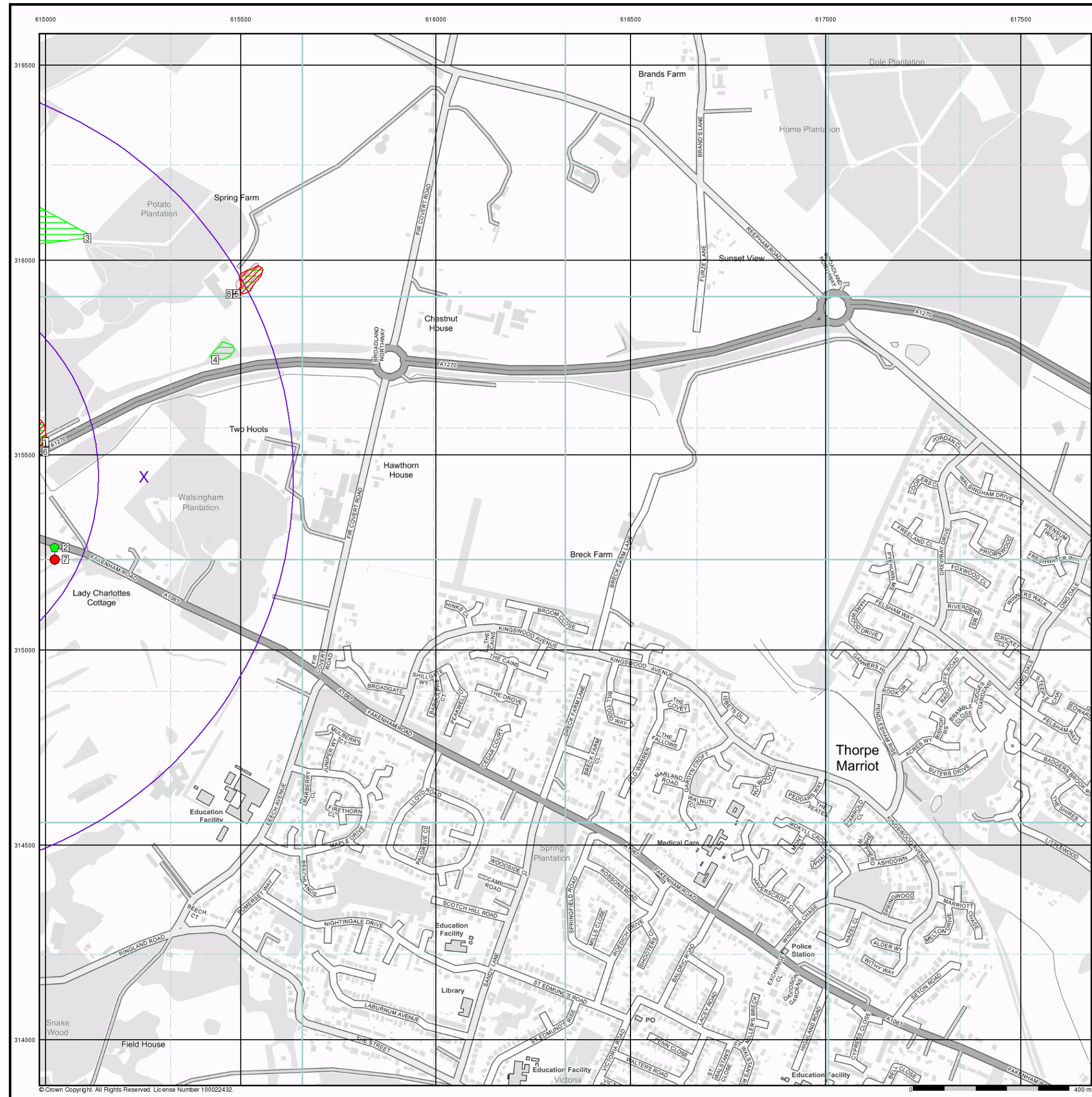
It should be noted that Historical Building Plans are only available for certain major towns and cities and in some cases there may only be partial coverage of the search area. It cannot therefore be assumed that the absence of responses under the Historical Building Plans section of this report indicates that no hazards exist. Please check the Historical Building Plans Map List table in the Historical Map List section of this report to establish if Historical Building Plans are available for this search area.

Historical Land Use Information

Landmark's Historical Land Use Data is the result of combined analysis of historical map data captured at 1:10,560 and 1:10,000. A unique comprehensive database of Historic Land Use from the 1840's to 1996 it includes 67 different types of potentially contaminated past industrial land use. This entailed analysing over 60,000 maps and is drawn from at least four, and up to six historical map editions. In addition a seventh layer was also created, known as the land use layer, containing areas of infilled land which are plotted via comparison between two or more map editions.

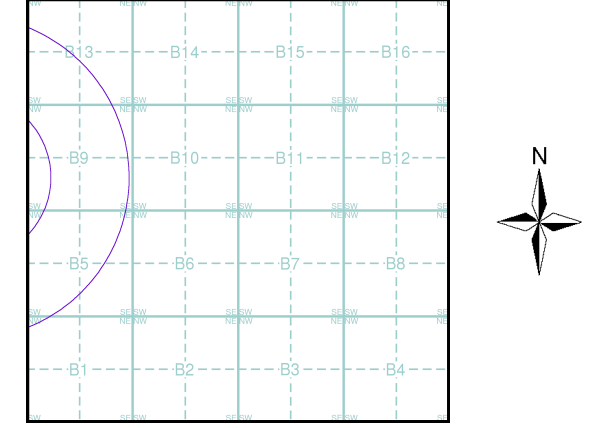
Historical Tanks and Energy Facilities

In addition to HLUD, additional analysis uncovered some of the most dangerous sources of contamination (past and present tanks, petrol storage, oil, gas, electricity, miscellaneous facilities). This data set covers over 390,000 Historical Tanks and Energy facilities in Great Britain and was captured from post war 1:2500 and 1:1250 Ordnance Survey historical mapping covering a period from 1943 to 1996.



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Historical Building Plans**
- Area Cleared due to Enemy Action
- Historical Land Use**
- Former Marsh
 - Historical Flood Liability
 - Historical Flood Liability (Location)
 - Potentially Contaminative Industrial Use (Past Land Use)
 - Potentially Contaminative Industrial Use (Past Land Use) (Linear)
 - Potentially Contaminative Industrial Use (Past Land Use) (Location)
 - Potentially Infilled Land (Non-Water)
 - Potentially Infilled Land (Non-Water) (Linear)
 - Potentially Infilled Land (Non-Water) (Location)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water) (Linear)
 - Potentially Infilled Land (Water) (Location)

Historical Data Report - Slice Map B

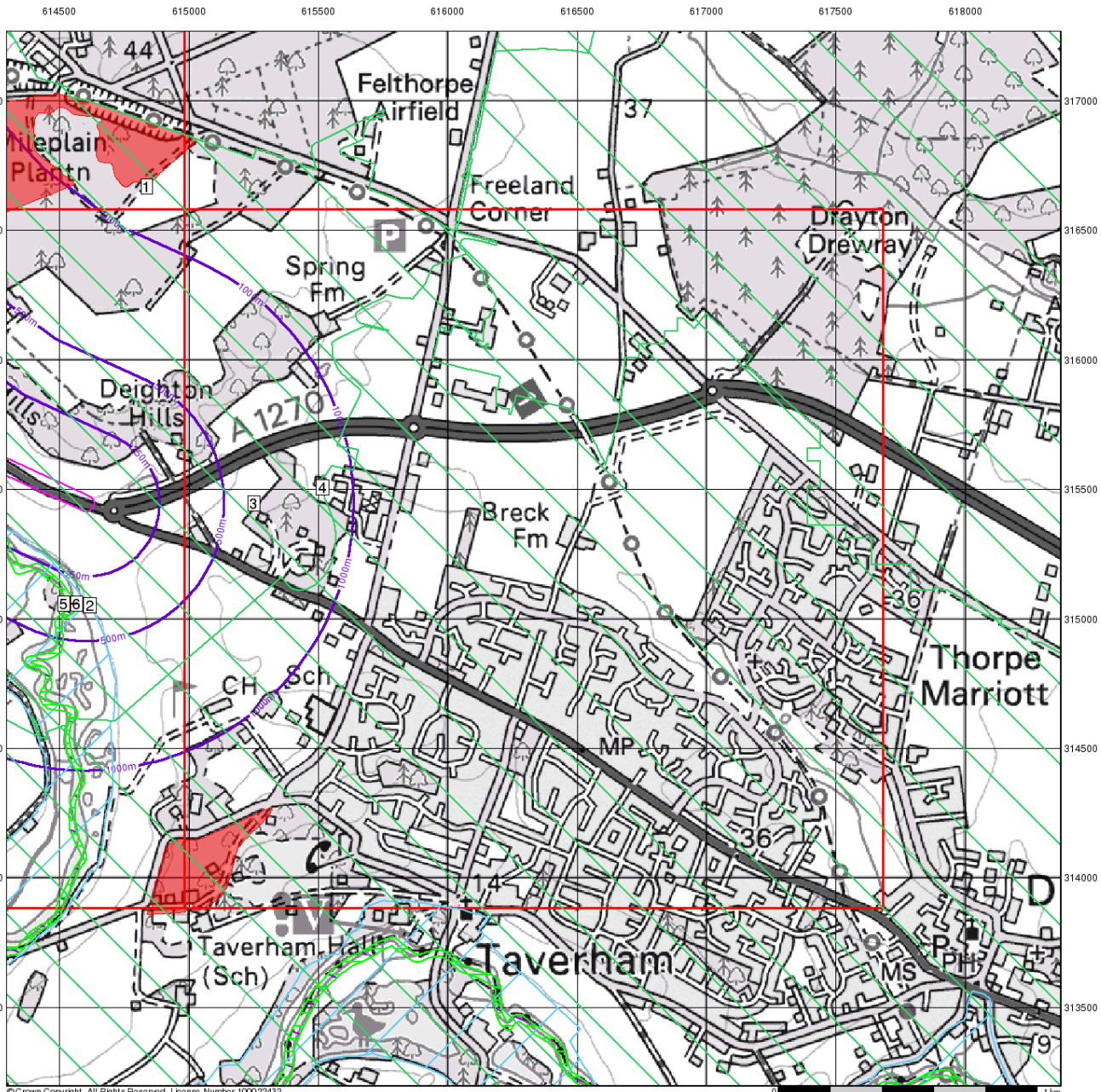


Order Details

Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details

Site at 613969,315908



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Ecology

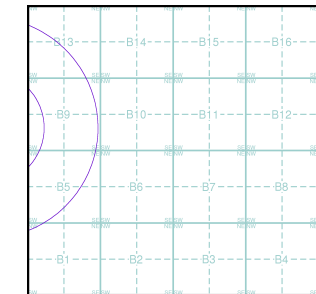
General

- ◇ Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point
- Slice
- B Map ID

Ecology

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Outstanding Natural Beauty
- Area of Unadopted Green Belt
- Country Parks
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Ecology - Slice B



Order Details

Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

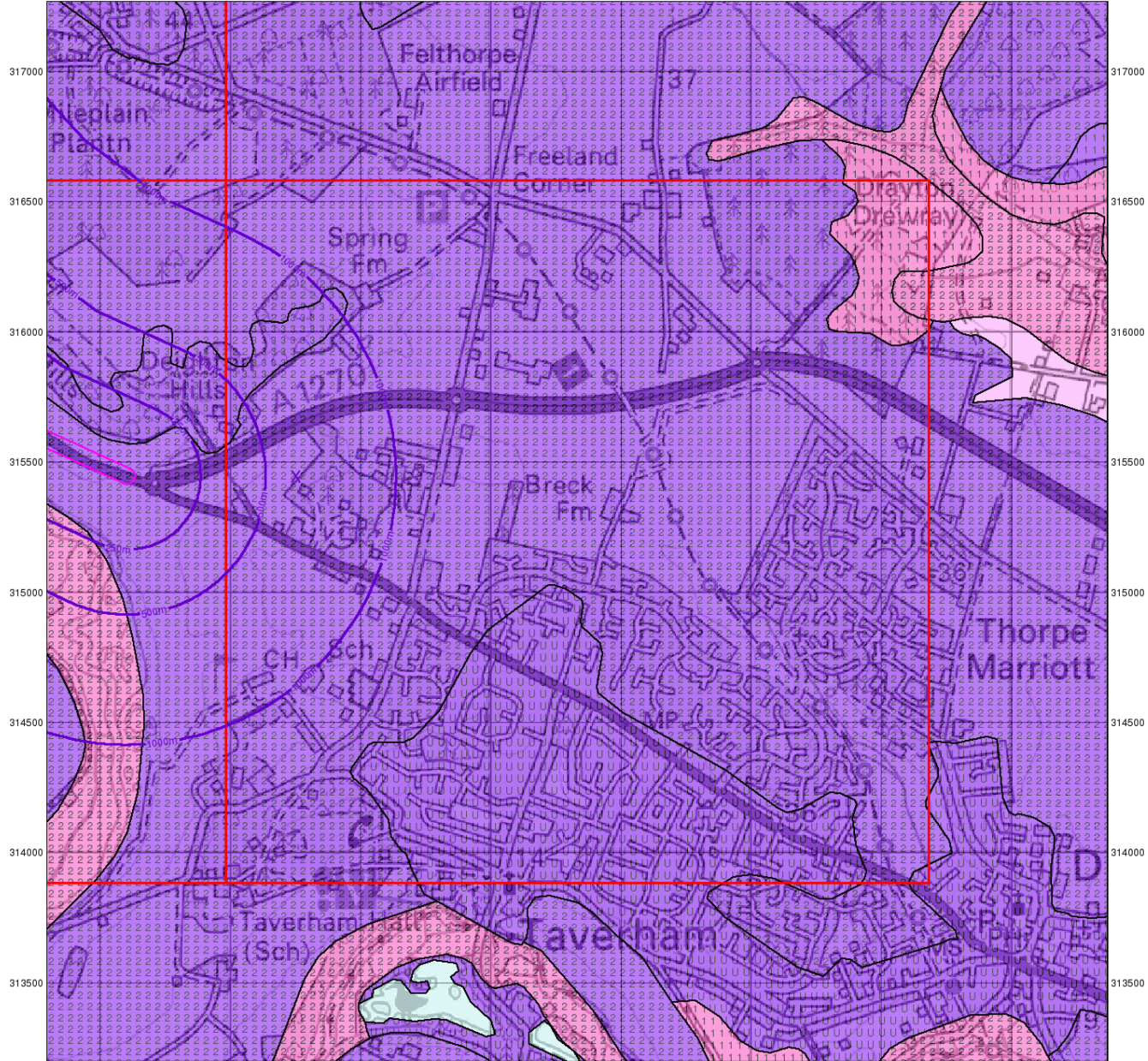
Site Details

Site at 613969,315908

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Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk

614500 615000 615500 616000 616500 617000 617500 618000








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Water and Hydrology




General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Slice
-  Map ID




Groundwater Vulnerability

Geological Classes

Major Aquifer (Highly Permeable)

-  High (H) 1, 2, 3, U
-  Intermediate (I) 1, 2
-  Low

Minor Aquifer (Variably Permeable)

-  High (H) 1, 2, 3, U
-  Intermediate (I) 1, 2
-  Low

Non Aquifer (Negligibly Permeable)



Water or Sea

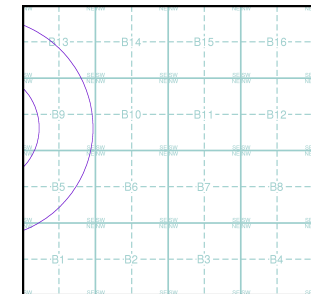


Drift Deposit



Soil Classes

Groundwater Vulnerability - Slice B



Order Details

Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

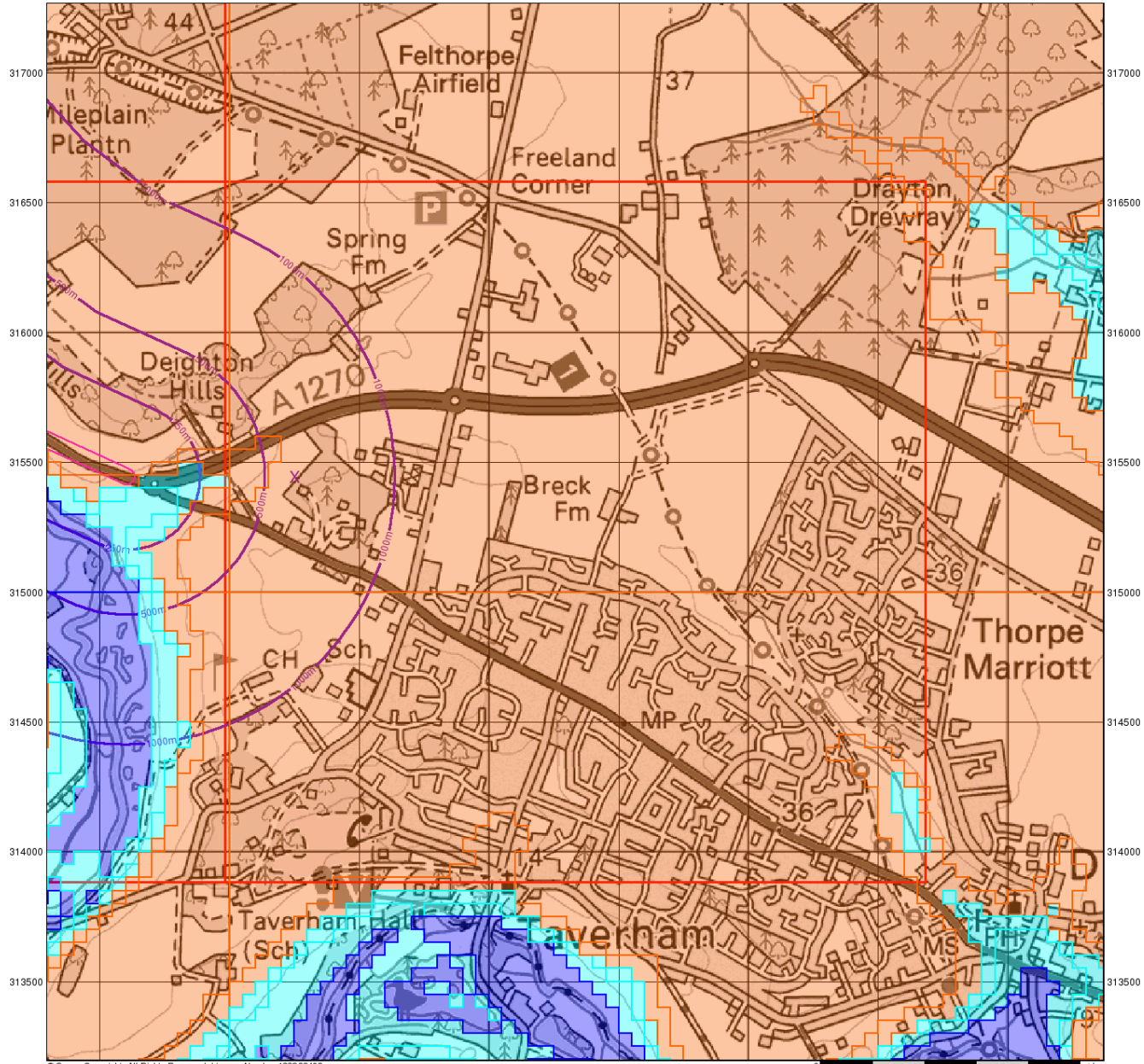
Site Details

Site at 613969,315908

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614500 615000 615500 616000 616500 617000 617500 618000



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0 1 km

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Water and Hydrology

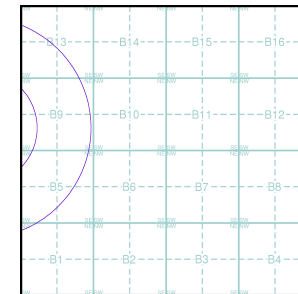
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Groundwater Flooding Susceptibility

- Potential for Groundwater Flooding to Occur at Surface
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Limited Potential for Groundwater Flooding to Occur

Groundwater Flooding Susceptibility - Slice B



Order Details

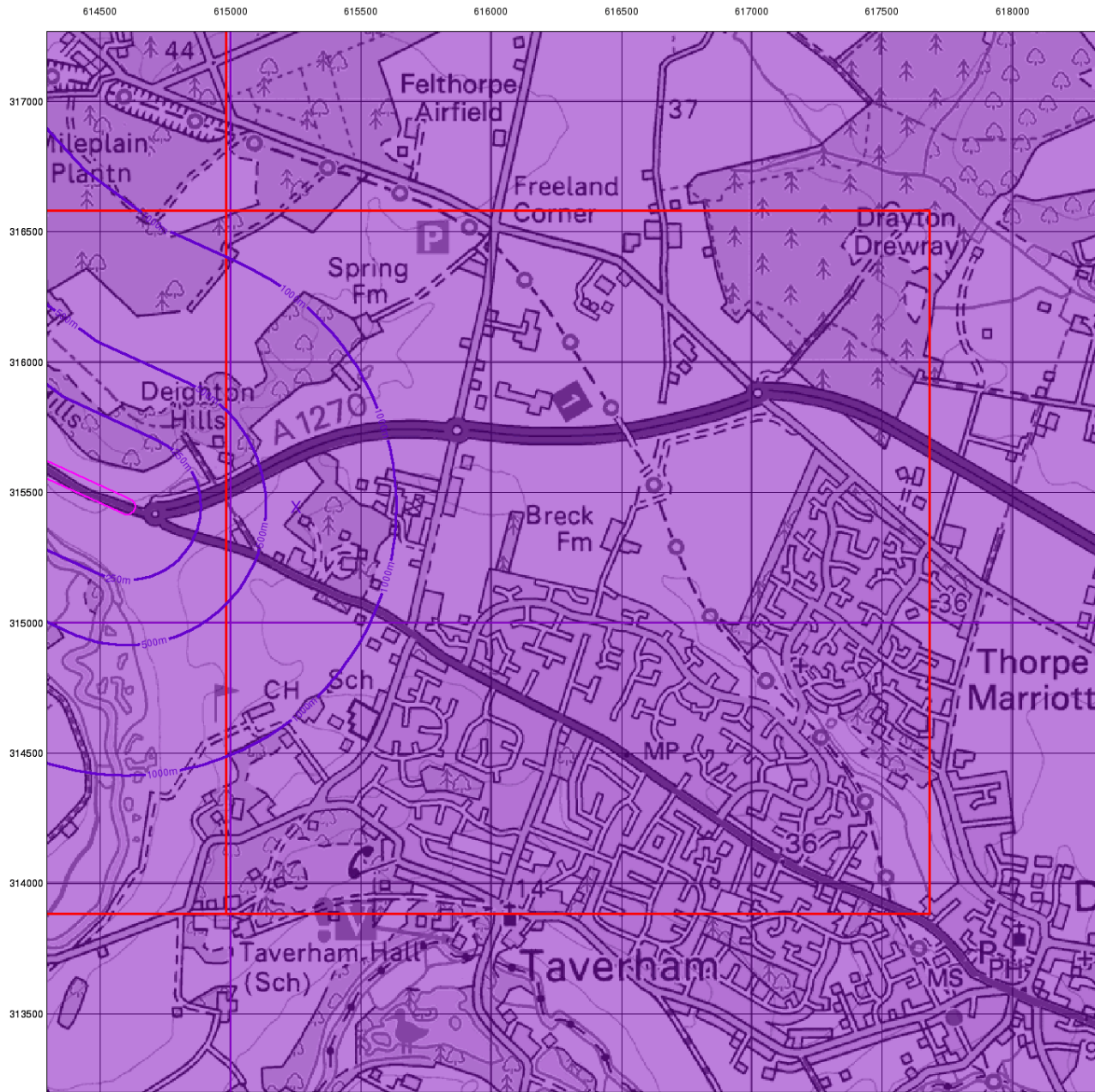
Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details

Site at 613969,315908

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Water and Hydrology

General

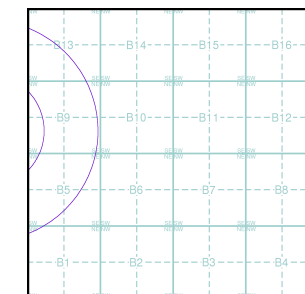
- ◆ Specified Site
- ⬭ Specified Buffer(s)
- ✕ Bearing Reference Point
- Slice
- B Map ID

Bedrock Aquifer Designations

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Bedrock Aquifer Designations - Slice B



Order Details

Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

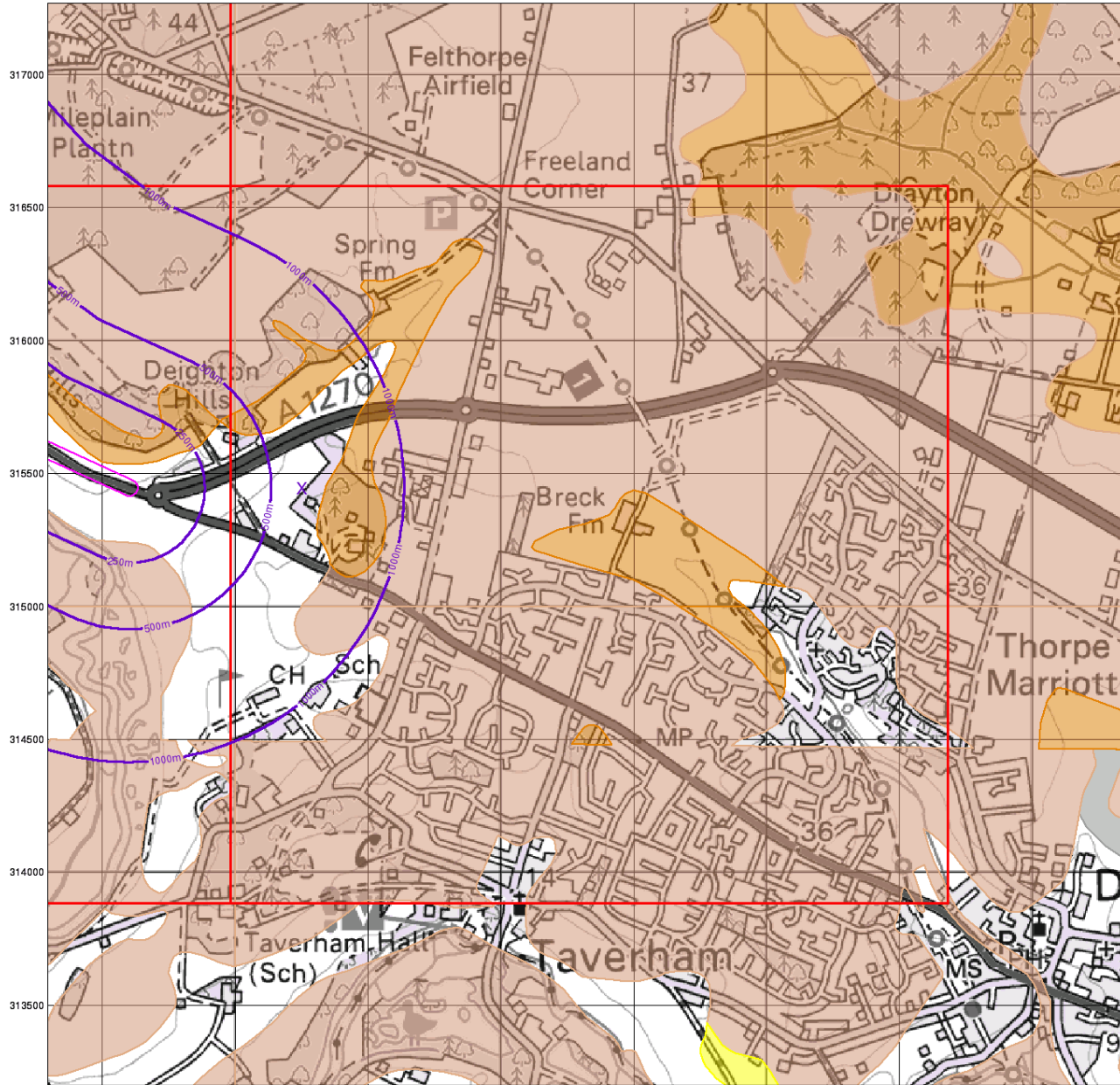
Site Details

Site at 613969,315908

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0 1 km

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Water and Hydrology

General

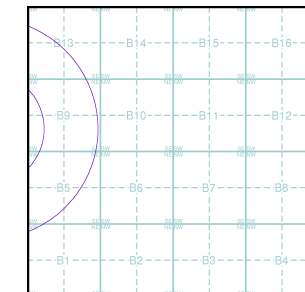
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Superficial Aquifer Designations

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Superficial Aquifer Designations - Slice B



Order Details

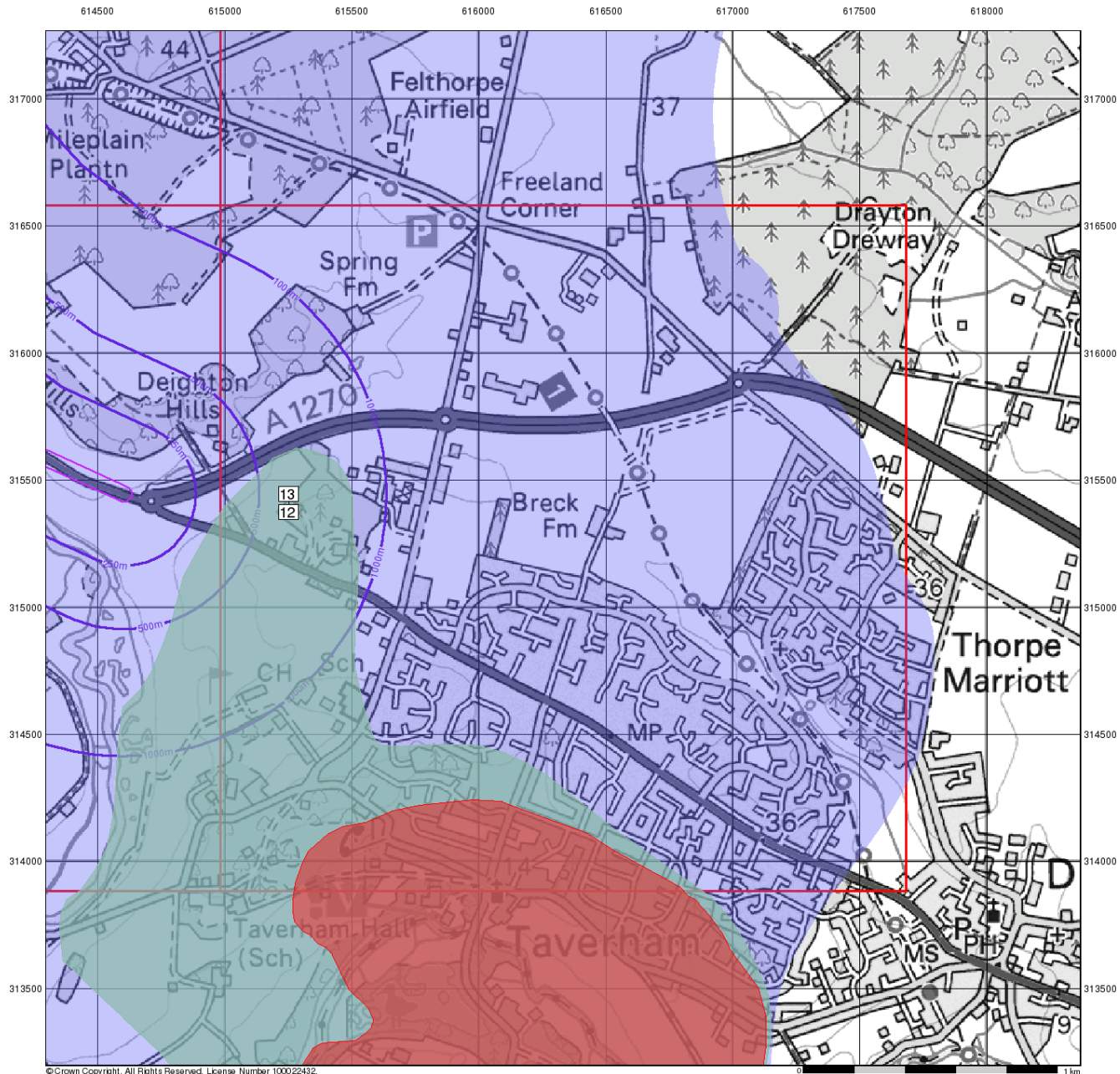
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 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details

Site at 613969,315908

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Water and Hydrology

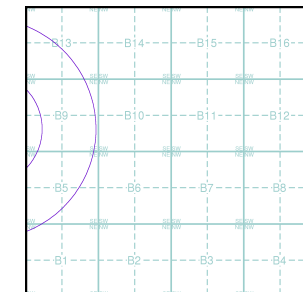
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Source Protection Zones

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Source Protection Zones - Slice B



Order Details

Order Number: 192638994_1_1
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Site Details

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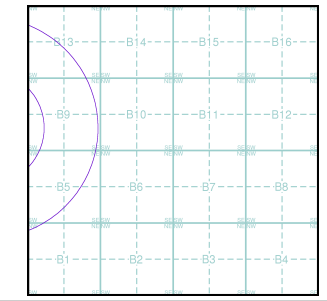
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Site Location

General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

Site Location - Slice B



Order Details

Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details

Site at 613969,315908

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OS Explorer Map / 1:25 000 Scale Colour Raster

Customer Information

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Communications

ROADS AND PATHS Not necessarily rights of way

	Service area
	Junction number
	Motorway
	Dual carriageway
	Main road
	Secondary road
	Narrow road with passing places
	Road under construction
	Road generally more than 4 m wide
	Road generally less than 4 m wide
	Other road, drive or track, fenced and unfenced
	Gradient: steeper than 20% (1 in 5); 14% (1 in 7) to 20% (1 in 5)
	Ferry; Ferry P - passenger only
	Path

RAILWAYS

	Multiple track } standard gauge
	{ Narrow gauge or Light rapid transit system (LRTS) and station
	Road over; road under; level crossing
	Cutting; tunnel; embankment
	Station, open to passengers; siding

PUBLIC RIGHTS OF WAY (Rights of way are not shown on maps of Scotland)

	Footpath
	Bridleway
	Byway open to all traffic
	Restricted byway (not for use by mechanically propelled vehicles)

Public rights of way shown on this map have been taken from local authority definitive maps and later amendments.

Rights of way are liable to change and may not be clearly defined on the ground. Please check with the relevant local authority for the latest information

The representation on this map of any other road, track or path is no evidence of the existence of a right of way

OTHER PUBLIC ACCESS

	Other routes with public access (not normally shown in urban areas)
The exact nature of the rights on these routes and the existence of any restrictions may be checked with the local highway authority. Alignments are based on the best information available	
	National Trail / Long Distance Route
	Recreational Route
	Permissive footpath } Footpaths and bridleways along which landowners have permitted public use but which are not rights of way. The agreement may be withdrawn
	Traffic-free cycle route
	National cycle network route number - traffic free
	National cycle network route number - on road

Scotland

In Scotland, everyone has access rights in law* over most land and inland water, provided access is exercised responsibly. **This includes walking, cycling, horse-riding and water access, for recreational and educational purposes, and for crossing land or water.**

Access rights do not apply to motorised activities, hunting, shooting or fishing, nor if your dog is not under proper control. The **Scottish Outdoor Access Code** is the reference point for responsible behaviour, and can be obtained at www.outdooraccess-scotland.com or by phoning your local Scottish Natural Heritage office. * Land Reform (Scotland) Act 2003

	National Trust for Scotland, always open / limited opening - observe local signs
	Forestry Commission Land / Woodland Trust Land

England & Scotland

	Firing and test ranges in the area. Danger! Observe warning notices Champs de tir et d'essai. Danger! Se conformer aux avertissements Schiess und Erprobungsgelände. Gefahr! Warnschilder beachten Visit www.access.mod.uk for information
--	--

ACCESS LAND

England

Portrayal of access land on this map is intended as a guide to land which is normally available for access on foot, for example access land created under the Countryside and Rights of Way Act 2000, and land managed by the National Trust, Forestry Commission and Woodland Trust. Access for other activities may also exist. Some restrictions will apply; some land will be excluded from open access rights. The depiction of rights of access does not imply or express any warranty as to its accuracy or completeness. Observe local signs and follow the Countryside Code. Visit www.countrysideaccess.gov.uk for up-to-date information

	Access land boundary and tint
	Access land in woodland area
	Access information point
	Access permitted within managed controls for example, local byelaws Visit www.access.mod.uk for information

General Information

VEGETATION

Limits of vegetation are defined by positioning of symbols

	Coniferous trees		Scrub		Orchard
	Non-coniferous trees		Bracken, heath or rough grassland		
	Coppice		Marsh, reeds or saltings		

GENERAL FEATURES

+	Place of worship		Gravel pit		Sand pit
Current or former place of worship	<ul style="list-style-type: none"> with tower with spire, minaret or dome 		Other pit or quarry		Landfill site or slag/spoil heap
	Building; important building	BP/BS	Boundary post/stone		
	Glasshouse	CG	Cattle grid		
	Youth hostel	CH	Clubhouse		
	Bunkhouse/camping barn/other hostel	FB	Footbridge		
	Bus or coach station	MP; MS	Milepost; milestone		
	Lighthouse; disused lighthouse; beacon	Mon	Monument		
	Triangulation pillar; mast	PO	Post office		
	Windmill, with or without sails	Pol Sta	Police station		
	Wind pump; wind turbine	Sch	School		
	Electricity transmission line	TH	Town hall		
	Slopes	NTL	Normal tidal limit		
		-W; Spr	Well; spring		

BOUNDARIES

	National
	County (England)
	Unitary Authority (UA), Metropolitan District (Met Dist), London Borough (LB) or District (Scotland & Wales are solely Unitary Authorities)
	Civil Parish (CP) (England) or Community (C) (Wales)
	National Park boundary

HEIGHTS AND NATURAL FEATURES

52	Ground survey height	Surface heights are to the nearest metre above mean sea level. Where two heights are shown, the first height is to the base of the triangulation pillar and the second (in brackets) to the highest natural point of the hill
284	Air survey height	
	Vertical face/cliff	
	Contours may be at 5 or 10 metres vertical interval	
	Loose rock	
	Boulders	
	Outcrop	
	Scree	
	Water	
	Mud	
	Sand; sand & shingle	

ARCHAEOLOGICAL AND HISTORICAL INFORMATION

	Site of antiquity	VILLA	Roman
	Site of battle (with date)	Castle	Non-Roman
	Visible earthwork		

Information provided by English Heritage for England and the Royal Commissions on the Ancient and Historical Monuments for Scotland and Wales

Selected Tourist and Leisure Information

RENSEIGNEMENTS TOURISME ET LOISIRS SÉLECTIONNÉS

AUSGEWÄHLTE INFORMATIONEN ZU TOURISTIK UND FREIZEITGESTALTUNG

	Parking / Park & Ride, all year/seasonal Parking / Parking et navette, ouvert toute l'année/en saison Parkplatz / Park & Ride, ganzjährig/saisonal
	Information centre, all year/seasonal Office de tourisme, ouvert toute l'année/en saison Informationsbüro, ganzjährig/saisonal
	Visitor centre Centre pour visiteurs Besucherzentrum
	Forestry Commission visitor centre Commission Forestière: Centre de visiteurs Staatsforst Besucherzentrum
	Public convenience Toilettes Öffentliche Toilette
	Telephone, public/roadside assistance/emergency Téléphone, public/borne d'appel d'urgence/urgence Telefon, öffentlich/Notrufsäule/Notruf
	Camp site/caravan site Terrain de camping/Terrain pour caravanes Campingplatz/Wohnwagenplatz
	Recreation/leisure/sports centre Centre de détente/loisirs/sports Erholungs-/Freizeit-/Sportzentrum
	Golf course or links Terrain de golf Golfplatz
	Theme/pleasure park Parc à thèmes/Parc d'agrément Vergnügungs-/Freizeitpark
	Preserved railway Chemin de fer touristique Museumseisenbahn
	Public house/s Pub/s Gaststätte/n
	Craft centre Centre artisanal Zentrum für Kunsthandwerk

	Walks/trails Promenades Wanderwege
	Cycle trail Piste cyclable Radfahrweg
	Mountain bike trail Chemin pour VTT Mountainbike-Strecke
	Cycle hire Location de vélos Fahrradverleih
	Horse riding Equitation Reitstall
	Viewpoint Point de vue Aussichtspunkt
	Picnic site Emplacement de pique-nique Picknickplatz
	Country park Parc naturel Landschaftspark
	Garden/arboretum Jardin/Arboretum Garten/Baumgarten
	Water activities Jeux aquatiques Wassersport
	Slipway Cale Helling
	Boat trips Croisières en bateau Bootsfahrten
	Boat hire Location de bateau Bootsverleih

	Nature reserve Réserve naturelle Naturschutzgebiet
	Fishing Pêche Angeln
	Other tourist feature Autre site intéressant Sonstige Sehenswürdigkeit
	Cathedral/Abbey Cathédrale/Abbaye Kathedrale/Abtei
	Museum Musée Museum
	Castle/fort Château/Fortification Burg/Festung
	Building of historic interest Bâtiment d'intérêt historique Historisches Gebäude
	Heritage centre Centre d'héritage Heimatmuseum
	National Trust
	English Heritage
	Historic Scotland

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

192638994_1_1

Customer Reference:

NWL Line 5

National Grid Reference:

615250, 315440

Slice:

B

Site Area (Ha):

9.82

Search Buffer (m):

1000

Site Details:

Site at 613969,315908

Client Details:

Mr D Lee
WSP UK Ltd
6 Devonshire Square
London
EC2M 4YE

Report Section	Page Number
Summary	-
Ecology	1
Heritage	-
Water & Hydrology	2
Visual and Landscape	-
Data Currency	4
Data Suppliers	6
Useful Contacts	7

Introduction

The process of an Environmental Impact Assessment is governed by the Town and Country Planning (Environmental Impact Assessment) Regulations 2011. These regulations apply the EU directive "on the assessment of the effects of certain public and private projects on the environment" (usually referred to as the Environmental Impact Assessment Directive) to the planning system in England.

The aim of the Envirocheck Environmental Impact Assessment Report is to provide the necessary site-specific environmental data required to assess the potential environmental effects of a development. Ultimately this assessment is required by the local planning authority in order to decide whether or not to grant planning permission for a project, so as to protect the environment. The regulations set out a procedure for identifying those projects which should be subject to an Environmental Impact Assessment, and for assessing, consulting and coming to a decision on those projects which are likely to have significant environmental effects.

The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Ecology					
Ancient Woodland	pg 1				1
Areas of Adopted Green Belt					
Areas of Outstanding Natural Beauty					
Areas of Unadopted Green Belt					
Country Parks					
Environmentally Sensitive Areas	pg 1		1		
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 1	1			1
Ramsar Sites					
Sites of Special Scientific Interest	pg 1		1		
Special Areas of Conservation	pg 1		1		
Special Protection Areas					
Heritage					
Historic Battlefields					
Listed Buildings					
Scheduled Monuments					
World Heritage Sites					
Water & Hydrology					
Areas Benefiting from Flood Defences				n/a	n/a
BGS Groundwater Flooding Susceptibility	pg 2	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 2	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
OS Water Network Lines	pg 2		1	4	
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Groundwater Vulnerability	pg 3	Yes	n/a	n/a	n/a
Drift Deposits	pg 3	Yes	n/a	n/a	n/a
Historic Flood Events				n/a	n/a
Source Protection Zones	pg 3	1		1	
Visual and Landscape					
Historic Parks, Gardens and Designed Landscapes					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Ancient Woodland Name: Mileplain Plantation Reference: 1452060 Area(m ²): 221722.68 Type: Plantation on Ancient Woodland	(N)	740	1	614836 316670
2	Environmentally Sensitive Areas Name: Broads (decommissioned) Multiple Areas: Y Total Area(m ²): 48955725.17 Source: Natural England	(SW)	90	1	614616 315051
3	Nitrate Vulnerable Zones Name: Anglian Chalk Description: Groundwater Source: Environment Agency, Head Office	B9SW (SW)	0	2	615252 315444
4	Nitrate Vulnerable Zones Name: Norwich Crag And Gravels Description: Groundwater Source: Environment Agency, Head Office	B9SE (E)	671	2	615516 315508
5	Sites of Special Scientific Interest Name: River Wensum Multiple Areas: Y Total Area(m ²): 3859619.98 Source: Natural England Reference: 1006328 Designation Details: Special Area Of Conservation Designation Date: 24th February 1993 Date Type: Notified Designation Details: Site Of Special Scientific Interest Designation Date: 24th February 1993 Date Type: Notified Designation Details: Water Framework Directive (WFD) Designation Date: 24th February 1993 Date Type: Notified	(SW)	200	1	614567 315058
6	Special Areas of Conservation Name: River Wensum Multiple Areas: Y Total Area(m ²): 3834189.88 Source: Natural England Reference: UK0012647 Status: Designated	(SW)	200	1	614567 315058









Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Areas Benefiting from Flood Defences None				
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (NW)	0	3	615000 315550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SW)	0	3	614650 315050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	3	614650 315444
	Bedrock Aquifer Designations Aquifer Desination: Principal Aquifer	B9SW (W)	0	2	615000 315444
	Superficial Aquifer Designations No Data Available				
7	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 225.8 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Wensum and Yare Primacy: 1	B9SW (W)	160	4	614996 315403
8	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.0 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Wensum and Yare Primacy: 2	B9SW (W)	347	4	615012 315409
9	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.2 Watercourse Level: Underground Watercourse Name: Not Supplied Permanent: True Catchment Name: Wensum and Yare Primacy: 1	B9SW (W)	363	4	615008 315407
10	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Wensum and Yare Primacy: 1	B9SW (W)	375	4	615012 315409
11	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 956.0 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Wensum and Yare Primacy: 1	B9SW (NW)	378	4	615183 315524
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Flood Defences None				
	Flood Water Storage Areas None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (H2) - Deep, permeable, coarse textured soils which readily transmit a wide range of pollutants because of their rapid drainage and low attenuation potential Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	B9SW (SW)	0	5	615252 315444
	Drift Deposits Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	B9SE (SE)	0	5	615368 315390
	Historic Flood Events None				
12	Source Protection Zones Name: Not Supplied 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.	B9SW (SW)	0	5	615252 315444
13	Source Protection Zones Name: Not Supplied 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.	B9SW (SW)	328	5	615252 315444

Ecology	Version	Update Cycle
Ancient Woodland Natural England	August 2018	Bi-Annually
Areas of Outstanding Natural Beauty Natural England	August 2018	Bi-Annually
Country Parks Natural England	October 2017	Annually
Environmentally Sensitive Areas Natural England	January 2017	
Local Nature Reserves Natural England	August 2018	Bi-Annually
Marine Nature Reserves Natural England	January 2018	Bi-Annually
National Nature Reserves Natural England	August 2018	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
Ramsar Sites Natural England	August 2018	Bi-Annually
Sites of Special Scientific Interest Natural England	October 2018	Bi-Annually
Special Areas of Conservation Natural England	August 2018	Bi-Annually
Special Protection Areas Natural England	August 2018	Bi-Annually

Agency & Hydrological	Version	Update Cycle
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2018	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
OS Water Network Lines Ordnance Survey	October 2018	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2018	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2018	Quarterly
Flood Defences Environment Agency - Head Office	August 2018	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2018	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Historic Flood Events Environment Agency - Head Office	November 2018	Quarterly
Source Protection Zones Environment Agency - Head Office	January 2018	Quarterly

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
British Geological Survey	 <p>British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Centre for Ecology and Hydrology	 <p>Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	

Contact	Name and Address	Contact Details
1	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
2	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
3	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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