

---

# Phase I Desk Study, Site Reconnaissance Report

---

at Carrow Works,  
Bracondale, Norwich,  
Norfolk, NR1 2DD

---

for Unilever (UK) Ltd &  
Britvic Soft Drinks Ltd

---

Report Reference: LP01671/DS/DRAFT

Report Date: 13<sup>th</sup> July 2018

---

**Leap Environmental Ltd**

The Atrium, Curtis Road,  
Dorking, Surrey, RH4 1XA

tel +44 (0) 1306 646510

fax +44 (0) 1306 646511

[www.leapenvironmental.com](http://www.leapenvironmental.com)

**South Coast Regional Office:** Premier House, Victoria Road, Burgess Hill, West Sussex, RH15 9LR

**Kent Regional Office:** Spelmonden Old Oast, Spelmonden Farm, Goudhurst, Kent, TN17 1HE

**Berkshire Regional Office:** Wyvols Court, Swallowfield, Reading, RG7 1WY

Registered in England No 6552502



## TABLE OF CONTENTS

<b>A</b>	<b>INTRODUCTION</b> .....	<b>6</b>
1	Authority .....	6
2	Objective .....	6
3	Proposed Redevelopment.....	6
4	Previous Studies.....	7
5	Terminology.....	7
6	Phase I Scope.....	7
7	Limitations.....	8
8	Environmental Setting.....	9
8.1	Site Location and Description.....	9
8.2	Geology.....	10
8.3	Hydrogeology.....	12
8.4	Hydrology.....	13
8.5	Flooding.....	14
8.6	Designated Environmentally Sensitive Sites.....	14
8.7	Ground Workings and Mining.....	15
9	Site Usage.....	15
9.1	Current Land Use .....	15
9.2	Site Walkovers and Interviews with Operations Managers.....	15
9.3	Site History.....	18
9.4	Unexploded Ordnance (UXO).....	26
9.5	Waste Planning, Landfill Records and Hazardous Substances.....	26
9.6	Radon .....	26
9.7	Contemporary Trade Directories .....	27
9.8	Review of Previous Reports .....	27
<b>B</b>	<b>PRELIMINARY CONCEPTUAL SITE MODEL</b> .....	<b>30</b>
10	Environmental Risk Assessment .....	30
10.1	Conceptual Site Model (CSM).....	30
10.2	Sources .....	30
10.3	Receptors.....	31
10.4	Pathways and Potential Pollutant Linkages.....	31
10.5	Qualitative Risk Assessment of Pollutant Linkages.....	32
11	Geotechnical Risk Assessment.....	33

---

11.1 Geotechnical Risk Register .....	33
12 Recommendations for Intrusive Ground Investigation .....	33
13 Further Works.....	34

APPENDIX A - Limitations

APPENDIX B - Figures

APPENDIX C – Historic Maps and Environmental Database Searches

APPENDIX D – Qualitative Risk Assessment Model

APPENDIX E – Site Photographs

APPENDIX F – Preliminary UXO Assessment

---

## EXECUTIVE SUMMARY

The site is located on Bracondale in Norwich, NRI 2DD and comprises a large food products manufacturing facility and a conservation area encompassing a conference centre, canteen and the ruins of a 12<sup>th</sup> Century priory. The site is jointly owned and operated by Unilever (UK) Ltd and Britvic Soft Drinks (UK). The site extends to 16.9Ha and is located in a mixed land-use area comprising industrial, residential, commercial and open, undeveloped areas. The factories are scheduled to close at the end of 2019 and an assessment of the risks posed by contaminated land and geotechnical hazards is required (as part of other surveys and assessments) to determine the development potential of the land.

The site is mapped as being underlain by River Terrace deposits or Alluvium over Chalk. The superficial deposits are classified as secondary (A) aquifers whilst the Chalk is classified as a principal aquifer. The site is located within a ground water source protection zone I (inner zone). The majority of the site is not indicated to be at risk from flooding from rivers (with the exception of the northeast) but below ground structures (basements) are vulnerable to groundwater flooding across wider regions of the site. The site is not affected by radon gas. The site itself is located within The Broads National Park. An Environmentally Sensitive Area and a Local Nature Reserve are located nearby to the southeast.

Two independent site visits were undertaken to observe the processes employed by both Unilever and Britvic. This information together with an Envirocheck report, client-provided information and public domain searches have been used to develop an initial conceptual site model.




The desk study has identified a number of potential sources of contamination associated primarily with (limited) fuel storage and chemical storage (which comprises primarily cleaning products, acids and alkalis). The resulting risk assessment has been heavily influenced by the known presence of a tetrachloroethylene (PCE) plume in the groundwater in the northeast of the site since the early 1980's (the usage of which was historically associated with the processing of mustard seed by-products).

A number of moderate and high risks have been identified, some of which are likely to be reduced by the implementation of straightforward remedial measures during construction (such as placement of clean cover systems in residential gardens). However, the potential risks to human health from vapour inhalation and to controlled waters from the known PCE in the ground are likely to require more substantial remedial efforts to be implemented.

An outline qualitative geotechnical risk assessment has also been undertaken to identify any likely constraints to redeveloping the site.

Recommendations have been made for intrusive works to be carried out in order to complete a Quantitative Risk Assessment. Further necessary works will likely comprise groundwater

modelling, detailed quantitative risk assessment and the production of a remediation options appraisal.

Signed:	 Dr Paul Adams BSc PhD MEnvSc CSci
Countersigned:	 Tim Thorpe MSci FGS ARSM
Countersigned:	 Helen Smith MSc BSC CGeol DIC SiLC
Date:	14 July 2018
Revision:	Issue 1 - DRAFT

---

## A INTRODUCTION

---

### 1 Authority

Leap Environmental Ltd (hereafter referred to as **LEAP**) has been appointed by Cushman and Wakefield Ltd (C&W) working on behalf of Unilever (UK) Ltd (Unilever) and Britvic Soft Drinks Ltd (Britvic) to undertake a Phase I Desk Study and Walkover Survey of a site referred to as Carrow Works, Bracondale, Norwich, Norfolk, NRI 2DD. The instruction was given via email by George Jolliffe of C&W.

### 2 Objective

**LEAP** understands that the site is currently jointly owned and occupied by Unilever and Britvic and is used for manufacturing purposes. Both parties have decided to cease production at the site with the factories scheduled to close by the end of 2019. C&W have been engaged by the land owners to assess the development potential and hence, the market value of the site. The Phase I Desk Study forms part of this assessment.

The objectives of this report are to:

- Provide information on the existing and former operations at the site;
- Provide information on the potential geotechnical and environmental quality of the ground present on the site;
- Assess the potential health and other environmental risks posed by the site to a proposed development and to other specifically identified receptors; and
- Assess the potential for offsite contamination to adversely affect a proposed development at the site.

### 3 Proposed Redevelopment

No details regarding a proposed redevelopment have been provided. It has therefore been assumed for the purposes of this report that a redevelopment (given the site's considerable size) would likely comprise a mixed end use encompassing both high and low density housing, leisure facilities and public open space, commercial (both office and retail) and potentially light industrial land uses.

## 4 Previous Studies

The following confidential report has been provided to LEAP and relates to a known contamination issue in the north eastern region of the site:

- Options available to Britvic/Unilever with respect to the presence of historical solvent contamination at the Carrow site. Land & Water Resource Consultants (LWRC), dated 12 May 2018.

## 5 Terminology

Geoenvironmental refers principally to the chemical nature of the ground and the degree of soil, water and/or land gas contamination and the impact that contamination may have on current or future development and also on the wider environment.

Geotechnical refers to all other aspects of the ground conditions and the impact they may have on the physical construction of existing or future development, principally foundations, slope stability, drainage, pavement and road design and groundwater control.

## 6 Phase I Scope

This report presents the results of a desk study and site reconnaissance. The following sources of information have also been reviewed:

- Envirocheck database report
- Envirocheck Historical Map Search
- British Geological Survey (BGS) mapping
- British Geological Survey website ([www.bgs.ac.uk](http://www.bgs.ac.uk)) including historic BGS borehole data
- Unexploded WWII aerial delivered bomb (UXB) regional risk maps produced by Zetica
- Interrogation of the World Wide Web on 5-8<sup>th</sup> June 2018 for general information pertaining to the site history
- Review of client-provided information comprising site layout, ownership, external storage, service plans, borehole locations and Britvic's Environmental Permit.

A site reconnaissance was carried out on 20<sup>th</sup> and 26<sup>th</sup> June 2018 in the company of Tony Briggs and Paul Taylor of Britvic and Dave Stebbings of Unilever respectively.

The desk study and site reconnaissance have been used to develop an initial conceptual site model, which informs whether there is a need for, and the basis of, the site investigation strategy. The initial site conceptual model is used to identify geotechnical and geoenvironmental hazards and the qualitative degree of risk associated with them. In terms of the geoenvironmental assessment the conceptual site model is used to identify potential sources of contamination, potential receptors and pathways by which the two may be connected. These are known as possible pollutant linkages and it is these pollutant linkages that are key to contaminated land risk assessment.

The Phase I investigation is also referred to as a Preliminary Investigation<sup>1</sup> or desk-based study.

## 7 Limitations

This report has been prepared by Leap Environmental Ltd on the basis of information received from a variety of sources which Leap Environmental Ltd believes to be accurate. Nevertheless, Leap Environmental Ltd cannot and does not guarantee the authenticity or reliability of the information it has obtained from others.

Leap Environmental Ltd has used all reasonable skill, care and diligence in the design and execution of this report, taking into account the manpower and resources devoted to it in agreement with the Clients. Although every reasonable effort has been made to obtain all relevant information, all potential contamination, environmental constraints or liabilities associated with the site may not necessarily have been revealed.

The conclusions reached in this report are necessarily restricted to those which can be determined from the information consulted and may be subject to amendment in the light of additional information becoming available. These conclusions may not be appropriate for alternative schemes.

This report is strictly confidential to the Clients and has been produced in accordance with a confidentiality agreement. Leap Environmental Ltd accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known, unless formally agreed by Leap Environmental Ltd and our Clients beforehand. Any such party relies upon the report at their own risk.

Full details of the limitations are provided in Appendix A.

---

<sup>1</sup> BS 10175:2011 Investigation of Potentially Contaminated Sites – Code of Practice.



## 8 Environmental Setting

### 8.1 Site Location and Description

The site is located at Carrow Works, Bracondale, Norwich, Norfolk, NR1 2DD. The site's approximate National Grid Reference at the site entrance is TG242072. The site lies at an estimated elevation of 5-8m Above Ordnance Datum (mAOD) in the main site area and 10-17 mAOD in the conservation area. The site extends to approximately 16.9 Ha.

#### 8.1.1 General Description and Boundaries

The current site layout is shown in drawing SITEB10F, Appendix B. Photographs taken during the walkover are included within Appendix E.

The site comprises two areas, namely the main works area (northern, central and eastern site regions) and the conservation area (in the central and south western regions).

The main works area comprises numerous large warehouse, manufacturing and office buildings of varying age and construction due to the long 150 year history of the site. The site has dedicated vehicle and pedestrian access routes. External to the main buildings, there are smaller structures housing water supply boreholes (discussed further in later sections), water treatment plant, process chemicals and electrical infrastructure. There are numerous storage containers referred to as roto plas containers in storage yards (most belonging to Unilever and containing processed mint).

The conservation area encompasses the ruins of a 12<sup>th</sup> Century priory and Carrow Abbey. Abbey Conference Centre is located in the northern part of the conservation area and encompasses the original house. Car parking facilities, the former technical (R&D) centre, a canteen, gardens and groundmen's facilities are also present.

The site is fairly flat with a low point in the northeast and a highpoint in the conservation area. The only significant change of levels (where a bank is present) is via steps from the region where BH F / building 256 is located to the conservation area. An engineered drainage system and sprinkler system (below ground) operates across the site.

Groundcover is exclusively concrete or asphalt in the factory area. In the conservation area there are areas of soft landscaping comprising mature trees, garden areas / borders, grass and shingle.

The site has a dedicated entrance off a roundabout on Bracondale (the A1054). The site is located south of the River Wensum, circa 1Km south of Norwich City Centre. To the west is the primarily residential area of Lakenham and to the east (beyond the immediately adjacent railway line and aggregate yard) are open fields with drainage channels and Whitlingham Country Park. To the south east of the site is Norwich Fire Station. To the south beyond the road junction are properties associated with Norfolk County Council and an industrial estate.

## 8.2 Geology

The geology of the site has been ascertained by reference to the BGS website ([www.bgs.ac.uk](http://www.bgs.ac.uk)) and the Envirocheck report. The superficial deposits across the majority of the site are indicated to comprise River Terrace Deposits. In the north eastern corner of the site the superficial geology is indicated to comprise Alluvium. No superficial geology is indicated to be present on the western boundary region of the site. The solid / bedrock geology is mapped as Chalk.

### 8.2.1 River Terrace Deposits

Sand and Gravel. Superficial Deposits formed up to 3 million years ago in the Quaternary Period. Local environment previously dominated by rivers. These sedimentary deposits are fluvial in origin. They are detrital, ranging from coarse- to fine-grained and form beds and lenses of deposits reflecting the channels, floodplains and levees of a river or estuary (if in a coastal setting).

### 8.2.2 Alluvium

Clay, Silt, Sand and Gravel. Superficial Deposits formed up to 2 million years ago in the Quaternary Period. Local environment previously dominated by rivers. These sedimentary deposits are fluvial in origin. They are detrital, ranging from coarse- to fine-grained and form beds and lenses of deposits reflecting the channels, floodplains and levees of a river or estuary (if in a coastal setting).

### 8.2.3 Bedrock - Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (undifferentiated)

Sedimentary Bedrock formed approximately 72 to 94 million years ago in the Cretaceous Period. Form part of the White Chalk Subgroup.

### 8.2.4 BGS Boreholes

The online BGS Geoindex (<http://www.bgs.ac.uk/geoindex/>) has been reviewed for detailed local geological and hydrogeological information. Table I provides a summary:

**Table 1: Summary of BGS Boreholes indicated to be present on Site**

BH ID	Description of Location	Depth [m]
<i>Deep Wells for Groundwater Abstraction</i>		
TG20NW121	To the north of the conservation area. 121 and 765 within a building and 204 in a yard to the east	362
TG20NW204		100
TG20NW765		115.5
TG20NW768	Central region towards the eastern boundary within a warehouse building	76
TG20NW823	South eastern region within a warehouse building	90
TG20NW940	Southern region within a car park	80
<i>Shallow Wells</i>		
TG20NW766	North western corner of the site	8.5
TG20NW767		12.2
TG20NW35	North eastern corner of the site	12.2
Various (22 No.)	South eastern region within a warehouse building. Presumably associated with providing geotechnical information for structural design purposes	2-6
Various (3 No.)		10.4-16.5
<i>Confidential Records</i>		
TG20NW796-800	Cluster of 5 No. wells (3 of which are on site) towards the western boundary of the conservation area	No data

### Northwest

The log for TG20NW121 contains a number of records which vary slightly. In summary, alluvium (rather than River Terrace Deposits) was encountered to a depth of 12 or 16 feet (3.65-4.80m) which was underlain by chalk to circa 350m bgl. A thin layer of Upper Greensand is indicated to be present below the chalk (6 or 16 feet / 1.8-4.9m) below which Gault (Clay) is recorded to an unproven thickness (at least 6.7-11m in thickness).

### Northeast

The log for TG20NW35 indicates 1.2m of made ground underlain by peat to 3.35m. Sands and gravels are logged to 6.7m underlain by chalk to at least 12.2m bgl. Piezometer boreholes 1 and 2 are described within the LWRC report: The log for BH1 indicates superficial deposits of varying nature (silt, peat, sand, gravel and clay) to circa 8m bgl below which chalk with flints is present. A band of sand and gravel was present at circa 20-25m bgl. The borehole was terminated at 30m. BH2 (a little further south) shows equally variable superficial deposits to circa 22m bgl below which was chalk with flints to the full extent of the boring at 40m.

### Southeast

The log for TG20NW823 indicates that River Terrace Deposits were thicker than in more northerly regions at 33m with chalk present below to the full extent of the borehole at 90m. The resting water level was 11m bgl.

## 8.3 Hydrogeology

The hydrogeology of the site has been ascertained from the Envirocheck data report. The source of the data is reported to be the Environment Agency groundwater vulnerability mapping.

The Alluvium and River Terrace Deposits are reported to be a secondary (A) aquifers. The Chalk is designated as a principal aquifer with high groundwater vulnerability. The entire site and surrounding area is located with a groundwater source protection zone (SPZ) 1 (Inner Protection Zone defined as a travel time of less than 50 days to a drinking water abstraction well).

The Envirocheck lists 148 groundwater abstractions on site. These refer to multiple records at 6 No. abstraction points ('Bore' A-F). It appears that the majority of the licences remain active as no expiry / revocation date is provided. Uses are listed as either non-evaporative cooling, 'food and drink - process water' or 'general use'.

There is 1 further active groundwater abstraction within 250m of the site held by Norwich City Football Club (182m northwest) for spray irrigation.

The Envirocheck report (BGS records) indicates that the north eastern region of the site has potential for groundwater flooding to occur at surface. Significant parts of the north, north western and eastern regions of the site have potential for groundwater flooding of property situated below ground level to occur.

The local groundwater flow would be anticipated to be to the north towards the River Wensum. The regional groundwater flow would be anticipated to be towards the east as the River Wensum flows into the River Yare which then flows broadly east before discharging into the sea at Gorleston-on-Sea, Great Yarmouth. It is noteworthy, that the abstractions on site are likely to significantly influence the local groundwater flow given the high volumes being abstracted.

### 8.3.1 Client Provided Information

The report provided and produced by LWRC Ltd contains a figure (included in Appendix B) summarising the location and status of abstraction boreholes on site. 'Old A', B and C in the northwest are no longer in use but are utilised as part of the required groundwater monitoring and sampling programme. It is noteworthy that BGS wells TG20NW766 and TG20NW767 appear to be located where BHB and C are shown but the BGS records state these are shallow wells. This appears to be a discrepancy. 'New A', E and F are active to the north of the conservation area. D is active towards the eastern boundary as is G by the site entrance. BH H (in the southwest of the site) is described as a trial/production borehole installed in 2014 and is also currently used to supply process water.

### 8.3.2 Active Licenses - Britvic

- 7/34/15/\*G/0152 - license to abstract groundwater at points 'A (64 litres per second [l/s]), B (95 l/s), D (20 l/s), E (45 l/s) and F (76 l/s)' for i) industrial non-evaporative cooling and general low loss uses, ii) commercial – general process water and iii) commercial – food and drink manufacture. Volume up to 1,364,000 m<sup>3</sup> per day for i) and ii) and up to 682,000 m<sup>3</sup> per day for iii)
- AN/034/0015/004/R01 – license to abstract groundwater at points 'G' and 'H' for commercial – food and drink manufacture purposes. Volume up to 390,000 m<sup>3</sup> per annum (not exceeding 45 and 25 l/s at BH G and BH H respectively). Valid 23/05/2018 – 31/03/2024.

## 8.4 Hydrology

There are no surface water features indicated within the site. The River Wensum runs adjacent to the entire northern boundary. An on-site surface water abstraction (from the river) is listed within the Envirocheck report. There are 4 additional surface water abstractions (1 from the River Wensum and 3 from the River Yare) within 250m of the site. The water is reportedly used for cooling, general/process washing and industrial processing).

The Envirocheck report indicates that there is 1 active discharge consent on-site (with 2 revoked licences relating to the same location). The license relates to the discharge of process water to the River Wensum. There are a further 22 records of discharge consents within 250m of the site. Circa 4 or 5 appear active and all relate to emergency discharge of storm or sewage water into the local watercourses.

### 8.4.1 Pollution Incidents – Public Records

There are 3 records of pollution incidents to controlled waters on site. Two separate incidents occurred in 1992 (both were category 2 – significant incidents). In both instances no details are given regarding the nature of the pollutant. The receiving water was the River Wensum at a central region on the northern site boundary. The third incident occurred in 1993 (a category 3 – minor incident). No details regarding the pollutant are provided. The receiving water was the River Wensum at a point in the north east of the site.

There are 3 further adjacent offsite records:

- Spillage of oil on road 4m south of site. Minor incident in 1994. Receiving water – River Yare;
- Two minor incidents involving undisclosed contaminants 5 and 6m from the northern site boundary in 1992 and 1993. Receiving water – River Wensum.

## 8.4.2 Pollution Incidents – Client Records

- A loss of an undisclosed volume of tetrachloroethylene (PCE) occurred from a faulty line or manifold associated with an underground storage tank (UST) in the northeast of the site in the early 1980's (see Section 9.8);
- Three sections of sewer have failed all in north western regions of the site and all had to be re-lined. The first incident was in 2004/5 (when mustard entered the river). The second was in circa 2008;
- A minor failure of an electrical substation in the north western portion of the site (coolant oils).

## 8.4.3 River Quality

The River Wensum was graded A at a sampling point 10m from the northern site boundary in 2000. The River Yare was graded B at a sampling point 106m southeast of the site in 2000. Hence, the water quality in both water courses is high.

## 8.5 Flooding

The flood risk map contained within the Envirocheck report indicates that the majority of the site is not at risk from flooding (flood zone 1) from surface water. Small areas in the extreme north eastern region of the site are indicated to lie within flood zone 2 and 3. A flood risk assessment would be required prior to any development being permitted in this area.

### Definitions

- Flood Zone 1 - land assessed as having a less than 1 in 1,000 annual probability of river or sea flooding (<0.1%);
- Flood Zone 2 - land assessed as having between a 1 in 100 and 1 in 1,000 annual probability of river flooding (1% – 0.1%) in any year;
- Flood Zone 3 - land assessed as having a 1 in 100 or greater annual probability of river flooding (>1%) in any year.

## 8.6 Designated Environmentally Sensitive Sites

A review of designated environmentally sensitive sites presented within the Envirocheck report has been carried out. The dataset covers a number of sensitive sites including the following:

- Sites of Special Scientific Interest (SSSI); including Ramsar sites.
- Areas of Outstanding Natural Beauty (AONB)
- Areas of Special Conservation (SAC);
- Records of Special Protection Areas (SPA);
- Ancient Woodland Records.
- Areas of Adopted Greenbelt.

- Records of National Nature Reserves (NNR);

The Envirocheck report indicates that the site itself is located within The Broads National Park. An Environmentally Sensitive Area (a decommissioned section of The Broads) is located 73m to the southeast of the site. Whitlingham Local Nature Reserve is located 297m to the southeast.

## 8.7 Ground Workings and Mining

The Envirocheck report indicates the site is not situated within an area affected by coal mining and there are no historical on-site ground workings reported in the Envirocheck report.

The Envirocheck report does include a record of a former underground chalk mine located circa 36m to the south of the site. There are further records of 3 shafts associated with chalk mining 4m south of the site and additional man-made cavities 146m southwest of the site (chalk-related) and 162m west of the site (sand and gravel and chalk-related). There is a record of 4 solution pipe features (a natural cavity) being located 40m to the southwest of the site.

## 9 Site Usage

### 9.1 Current Land Use

The site is currently owned and operated by Unilever (UK) Ltd and Britvic soft drinks Ltd for the manufacture of food products. The current site layout is shown in drawing SITEB10F, Appendix B. Unilever manufacture mustard under the name Colman as well as other 'liquid condiments' and powdered sauce sachets. Britvic produce Robinsons fruit squashes and 'Fruit Shoot' products at the site. Site ownership is complex with some areas owned exclusively by the two organisations and others shared. There are a number of listed buildings on site. The two organisations have devolved separate responsibility for various aspects of site management and operation e.g. Britvic take responsibility for all matters pertaining to utilities.

The conservation area contains the residential dwelling known as Carrow Abbey which now forms part of the conference centre. The factory canteen, conference centre car parking and groundmen's facilities are also within this area.

### 9.2 Site Walkovers and Interviews with Operations Managers

Site walkovers and meetings with key long-serving, senior operational staff were conducted on two dates due to staff availability. Client provided drawing, SITEB10F, Appendix B shows the layout of the site along with the ownership and occupation of the buildings. This section summarises information obtained during these visits not included elsewhere in the report.

## Britvic 20<sup>th</sup> June 2018

LEAP was advised that building use largely comprises dilution of concentrates to produce the products along with packaging, storage and logistics. The vast majority of waste processing and chemical storage is located outside. For these reasons, LEAP was not shown inside the majority of the buildings.

### *Information pertaining to potentially contaminative land uses (refer to drawing SITES21D)*

The 2 No. stores located in area 259 are used for cleaning chemicals, flammable goods and food additives. Cleaning chemicals are stored in containers no larger than 25L. Green containers in this area contain concentrated fruit juices. Sugar was historically processed in this area.

There are 2 No. diesel tanks (1) in the vicinity of buildings 107, 203 and 252. The larger tank is contained within a large concrete bund and is understood to be disused. [A second tank within this bund contains RO (reverse osmosis) water]. The smaller tank is internally banded and is alarmed. The contents are only used to power diesel pumps to run the fire sprinkler system and when the factories gas operated boilers (building 107A) are being serviced and hired diesel boilers are used to maintain operation (once a year).

BH D and BH F have air stripping towers associated with them which are used for the removal of chlorinated solvents. This is discussed further in section 9.8.

The tanks in proximity of BH F (9, 10 and 11) are used to store sprinkler water and 'raw' (untreated) groundwater. Tanks 12 and 13 store treated RO water. The chimney is used for boiler venting. The roto plas containers (17) contain concentrated fruit juice.

The Concentrated Soft Drinks (CSD) effluent treatment plant (19 and tanks 3-6) comprises a pH balancing system. Untreated ('strong') waste is contained with a UST. Acid or alkali is added as required to balance the pH before being discharged to sewer to ensure compliance with the discharge consent.

Building 258 is asbestos-clad and has an adjoining storage yard which comprises 2 No. diesel ASTs (which fuel the vehicles which manoeuvre the rear 'curtain sided' sections of road transport vehicles around the site for loading. Also in this area are 2 storage containers labelled for hazardous waste and oil drums labelled for oily rags and Domino Ink waste (used for printing labels) is stored in this area. This part of the site is shared and is out of Britvic's permitted area.

### *General Information*

Groundwater abstracted from BH D has been designated as spring water quality. All water abstracted from this well is used as product ingredient. It is blended with that abstracted from BH G. All abstracted groundwater is treated via a combination of air stripping and reverse



osmosis (RO). There is also an iron and manganese treatment plant to remove the naturally elevated levels of these metals. Water treatment plant is shared between the companies.

BH H in the southwest of the site was installed to investigate elevated concentrations of ammonium and nitrate in groundwater in this region of the site. It is understood that the source of these elevated concentrations is thought to be mains sewers located offsite (and owned by the utility provider).

The stables associated with the cottage in the south of the conservation area were reportedly used for historic vehicle storage.

#### *Environmental Permit – EPR/TP3332PM*

The above permit licenses the following activities:

- The production of concentrated soft drinks and ready drinks via 8 No. processing lines;
- Physiochemical treatment and disposal to sewer of up to 1,200 m<sup>3</sup> of effluent per day;
- Storage of raw materials and products;
- Storage and handling of waste materials;
- Operation of boilers; and
- Water treatment.

The permit outlines maintenance, monitoring, optimisation, emissions, waste management and record keeping / reporting requirements along with emergency procedures. It outlines the maximum permitted discharge volumes at the 5 No. discharge points into the River Wensum along with the allowed concentrations of specific determinants.

#### Unilever 26<sup>th</sup> June 2018

#### *Information pertaining to potentially contaminative land uses*

The disused buildings (7 and 8) forming 'F' block were once the site of the tin shop where mustard containers were produced. In the extreme north west of the site are buildings which once comprised a fire station. Adjacent building 207 once comprised vehicle maintenance and has evidence of 2 former fuel pumps. Vent pipes were visible on the wall and 2 covers were present suggesting the presence of USTs.

Two bunded vinegar tanks are present to the north of the mustard plant building (209) adjacent to the river. A strong waste tank (containing a mixture of food and cleaning products) is located to the northeast of building 209.

Building 39F comprises the mint processing plant. Mint is stored in roto plas in acetic acid for an extended period prior to final preparation. Vinegar and oil are ultimately added to mint

and other food products to create the wet condiments. A bunded caustic soda tank and an acetic acid tank are present in this area.

Tetrachloroethylene (PCE) was historically used to separate processed mustard seed coats from the volatile oils within the seed. The PCE was recycled whilst the seed coats were used to form an animal feed and the oils were used in cosmetics.

### *General Information*

Extensive bomb damage was caused to the buildings along the northern boundary. During the repair (and in response to flood risk) the ground level was raised creating some basements. A number of below ground brick-lined tunnels link buildings in this region of the site including 1 under the road to the concentrated soft drinks (CSD) plant (Britvic building 254). These features are not accurately mapped and may present a constraint to intrusive investigation. The main sewer runs along the road to the south of the listed buildings and is circa 3.6-4.3m deep and ~1.8m wide. The sprinkler main is also present in this area at a depth of circa 2.1-2.4m. The flow of this system has been reversed (in response to changes in building use and occupation). This has resulted in some leakage.

The building which now comprises dry foods (building 201) was once the bottling plant. Part of the loading area was once used for soft drinks before moving to its current location. In between this building and the mustard plant Robinson's baby foods were once produced.

A bottle pit is known to be present in the vicinity of the manganese and iron water treatment plant. This was historically used for the disposal of unwanted bottles from the site, but may potentially have been used for unknown other items.

## 9.3 Site History

### Works Area

The site was acquired by J. Colman in the mid 1850's from the Norfolk Railway for the development and expansion of his mustard business. This land encompassed a large area to the east of the railway line with the sites connected via a below ground tunnel. In 1903 the company bought rival mustard maker Keen Robinson & Company which also owned a barley water business. Robinson's production was moved to The Carrow Works site in 1925. In 1938, Colman's merged with Reckitt and Sons to become conglomerate Reckitt and Colman. In 1995 the mustard, and condiment, side of the business was sold to Unilever. Britvic acquired Robinson's also in 1995. Today the Works occupies the northern, some central and the eastern regions of the site. The land to the east of the railway was not sold to Unilever and Britvic.

## Conservation Area

The house is understood to stand within Carrow Priory – a Benedictine nunnery. The priory was reportedly founded in 1146. The priory church was part of a substantial monastic complex which appears to have included a hospital. Carrow Abbey was originally an early 16th-Century prioress' house: the only building not to fall into ruin after the dissolution. The house was acquired by J. Colman in 1878 who converted Carrow Abbey into a library and the building was significantly modified and extended between 1899 and 1909. By 1900 a series of glasshouses and a boiler house had been built on the site of the formal garden to the south of Carrow Abbey. After 1948 the house ceased to be used as a residential dwelling, being leased to the Red Cross and then converted into offices. A large dining hall (canteen) was erected over what was the priory nave, to the north of Carrow Abbey in the 1960s. New buildings (including the technical centre) were also constructed around this time to the south and west of the house. Commercial buildings now also cover what was the main kitchen garden to the east of the priory grounds. Today, Carrow Abbey is a Grade I listed building.

The surviving foundations of the Priory Church and east range of the monastic buildings are a Scheduled Monument.

### 9.3.1 Historical Map Evidence

The historical Ordnance Survey maps provided spanned the period from 1880 to present day at scales of 1:10,000, 1:2,500 and 1:1,250. The maps are included in full in Appendix C and summarised in Tables 2-6. Table 2 presents a summary of the 1:10,000 scale maps, Tables 3-6 present summaries of the 1:2,500 and 1:1,250 maps which (due to the size of the site) are split covering the NW, NE, SE and SW regions.

In brief, the factories' presence in the north of the site pre-dates the earliest map. In the northeast of the site, saw mills and a timber yard were present prior to factory buildings replacing them. The factory buildings then expanded south along the eastern boundary with time. The railway sidings which serviced the buildings in the north eastern region are no longer shown by the mid 1970s. Changes to the specific layout of the factories are difficult to ascertain from the maps but subtle changes in the layout are evident and it appears that the north western-most portion of the site was redeveloped in the late 1990's-early 2000s and apartments were constructed. In the conservation area, the maps appear to show the construction of the conference centre and other buildings in the 1960's which is consistent with internet-search results. Off site; the land to the north of the River Wensum has an extensive industrial history but (because of the water course) these are unlikely to have adversely affected the site. The land further to the west of the site has remained largely residential and further to the east (beyond the railway) has remained largely undeveloped. To the south, the County Council properties and the roundabout junction appear to have been constructed in the mid 1960's.

**Table 2: Summary of Historical Map Evidence – 1:10,000 scale**

Year	On site	Surrounding area
1886	The north western and northern regions of the site are already occupied by Carrow Works. A significant No. of large buildings of undisclosed use are shown. In the north eastern region of the site buildings indicated as a timber yard and a saw mill are shown. The east of the site is occupied by cattle pens, the west by Carrow Abbey and Carrow House and the south appears to comprise open fields. The priory is present (but unmarked) in the centre of the site.	The area immediately to the north of the River Wensum appears largely undeveloped but 250-500m to the north is an engine works, brewery, malthouses and a coal yard. To the immediate east is the railway line and a station. Beyond are open fields. A sewage works is shown circa 150m to the south(east) of the site. The road bordering the site to the southwest is present. Bracondale Grove is shown to the west of the site beyond which is the residential area of New Lakenham.
1908	Little appears to have changed apart from some modest expansion of Carrow Works in the northeast of the site. Priory now marked.	A gasworks is shown circa 375m to the northwest of the site. Timber yards shown circa 250m to the east. Brewery no longer shown. Gothic Works (electric motor manufacturing) shown 250m to the north.
1929	No significant changes evident.	Gasworks now shown as 'Riverside works'. Engine works replaced by a football ground.
1938 & 1951	1951: Layout of northern central regional of Carrow Works appears to have been reconfigured.	No significant changes evident.
1957	Layout of northern central and north eastern regions of Carrow Works appear to have changed.	Timber works to the east now labelled as a depot.
1979	Cattle Pens have been replaced by a playing field. A large building is now present to the south of the playing fields. Two buildings shown on eastern boundary. A large building (R&D centre) orientated in a north to south direction is now present to the west of the Priory and the conference centre appears with canteen appears to have been constructed.	Depot to the east now shown as works. Additional works shown between football ground and Gothic Works to the north. Former(?) sewage works now labelled as a depot. County Hall has been constructed to the southwest of the site in place of Bracondale Woods. Tanks shown to the east of the Gothic Works. The roundabout has been added on the A1054. Works shown on north western site boundary.
1989	The works have expanded south along the eastern boundary over the playing fields and the building to the south.	Additional works building shown to the east of the Gothic Works.
2000	No significant changes evident.	Works to the west of the football ground (the former gasworks) now shown as a superstore.

2006 & 2018	No significant changes evident.	No significant changes evident.
-------------	---------------------------------	---------------------------------

**Table 3: Summary of Historical Map Evidence – 1:2,500 and 1:1,250 scale. Segment A10 – NW site region**

Year	On site	Surrounding area
1880	The Carrow Works are already present and comprise a significant No. of large buildings of undisclosed use. To the south is Carrow House and Carrow Abbey.	The area immediately to the north of the River Wensum appears largely undeveloped apart from a fire station. A toll bridge is marked along with wharfs and a mill to the northwest along the river. To the immediate northwest is an area which appears to comprise further works [it appears that this was in fact part of the Carrow Works but is outside of the red line boundary provided]. To the west is Bracondale Grove and an already well developed residential area.
1907	No significant changes evident.	Buildings associated with the fire station have expanded. An engine works and a gasworks are shown 200-300m to the north. To the south of these features are fields and allotment gardens.
1928	A tank is shown within the Carrow Abbey region of the site.	Riverside works (joinery and structural engineering) is shown covering the area of the gasworks and some further land to the south. A football ground has been constructed to the north of the allotment gardens to the north of which are Locomotive works and an engine house.
1956-58	Changes to the layout of some of the Works buildings appears to have occurred. Tank no longer shown in conservation area. Pond marked in its place.	Area to the northwest outside of the red line boundary area is marked as part of Carrow Works. Boat houses, flour mills, a joinery works and a coal yard are shown along the south side of the river to the northwest of the site.
1967-68	One tank marked in the Carrow Works area. Other features shown which could potentially be tanks. Buildings have been constructed in the conservation area including the conference centre.	Fire engine station replaced by a timber yard. A warehouse, a grain store, a tank, a wharf and a boat house are also marked in this area. Locomotive works now marked as maintenance depots with a number of tanks shown. Depot shown 100m west of the site.
1981-86	Two further tanks marked within the Carrow Works area. Pond in conservation area no longer shown.	Silos shown associated with the grain store to the north of the site beyond the river. Coal store no longer shown. Timber yard no longer shown a year later in 1987.
1994	No significant changes evident.	No significant changes evident.

1999 (Aerial)	No significant changes evident.	Riverside works appears to have been demolished and is undergoing redevelopment.
~2006-2008	–	Land to the extreme northwest of the Carrow Works has been sold and 'Paper Mill Yard Apartments' constructed.

**Table 4: Summary of Historical Map Evidence – 1:2,500 and 1:1,250 scale. Segment A11 – NE site region**

Year	On site	Surrounding area
1880-86	The Carrow Works are already present and comprise large buildings of undisclosed use serviced by railway tracks. Timber yards and saw mills are present in the extreme northeast. To the south of the Works is the Priory and cattle pens.	The area immediately to the north of the River Wensum appears largely undeveloped apart from a timber yard and a small cluster of buildings of undisclosed use. To the immediate east is the railway (Cambridge and Norwich main line) beyond which is another timber yard and open fields.
1907-14	The Carrow Works has expanded somewhat to the south but the cattle pens remain. Timber yards no longer marked. Wharf marked in extreme north eastern corner of the site.	The small cluster of buildings are identified as a dairy farm and a tank is shown associated with a large unmarked building to the north of the dairy. Further north, the Gothic Works has been constructed and railway sidings have also been constructed. The timber yard north of the river is no longer shown but the timber yards to the south of the river (and the east of the site) have expanded with 4 large associated buildings.
1928	One of the more southerly Carrow Works buildings has expanded substantially in size. Some of the on site railway sidings maybe accessed via a tunnel running below the main railway line to the east.	Two further buildings have been added in the vicinity of the timber yards to the east. These may be associated with the railway. Tanks shown within the dairy farm. Railway sidings extended further south leading to a travelling crane and a large building with tanks marked to the east.
1938	Saw mills no longer marked.	Buildings associated with the railway sidings to the north of the river have expanded further. Two 'destructors' shown to the south of the timber yards.
1958	No significant changes evident.	Railway sidings north of the river shown as Wensum Depot which has expanded further and the Gothic Works has expanded to the west. Timber yards to the east are no longer shown and 2 of the 4 associated buildings have been removed. A new building has been constructed to the south of timber yard and (along with 1 of the 2 surviving timber yard

		buildings) is labelled as works. Destructors no longer shown.
1967-68	A cluster of 20 tanks are shown in the southeast corner of the Carrow Works. The cattle pens are now labelled as a playing field.	Wensum Depot is now marked further north with the sidings to the south labelled as Crown Point. Within these sidings is a large gasholder with surrounding tanks (shown previously in 1958 as an unmarked feature) and Norwich Generating Station is located along the northern bank of the river. Three large tanks are shown to the west of the Generating Station. The Gothic Works has expanded south, tanks are marked and the dairy is no longer shown. A sub station and further tanks are shown in the recent westerly expansion of the Gothic Works.
1974-76	All the railway sidings are no longer shown. Cluster of tanks shown on previous map also no longer shown. The layout of the northern buildings in this region of the Carrow Works has changed with a smaller number of larger buildings.	Four tanks now shown to the west of the Generating Station.
1981-87	Three tanks marked associated with the southern buildings in this region of the Carrow Works. An additional tank is marked to the east of the largest building in the north of the Carrow Works (1987 plan). Playing fields no longer marked (possible further expansion of the Carrow Works to the south).	The large works building to the east of the Generating Station is no longer shown. A substation is present adjacent to the 4 No. tanks. A large 'works' building has been constructed within the Crown Point railway sidings.
1994	Additional tanks shown to the north of a building on the eastern boundary. One of the central buildings has been reduced in size on the eastern side.	No significant changes evident.
1999 (Aerial)	No significant changes evident.	No significant changes evident.

**Table 5: Summary of Historical Map Evidence – 1:2,500 and 1:1,250 scale. Segment A6 – SW site region**

NOTE: Only a small portion of the SW of the site is visible on this segment.

Year	On site	Surrounding area
1880-82	Both the southwest portion of the site and the surrounding area comprises primarily open fields with areas of woodland and low density residential properties. Bracondale Road is present running along the south western site boundary.	
1928	A tank is marked on site (appears to be associated with residential / farmyard property).	No significant changes evident.
1956-59	The properties on site are named as The Lodge and The Bungalow.	No significant changes evident.
1968	An electrical substation is shown close to the site boundary. A larger building appears to have been constructed to the west of The Lodge.	County Hall has been constructed circa 200m to the southwest of the site. The roundabout has been added to the road network south of the site.
1976	No significant changes evident.	The residential development to the west of the site has expanded and increased in density. Two filling stations shown circa in close proximity circa 400m south(west) of the site (1 shown from circa 1971 and the 2 <sup>nd</sup> from circa 1976).
1979-84	(1979 map) An additional feature is present adjacent to the substation.	(1984 map) A depot comprising 2 large buildings and an electrical substation has been constructed in the place of allotments alongside the railway lines 200-300m south of the site.
1986-92	(1986 map) The landscaping / layout of the area to the south of The Lodge appears to have been modified.	(1992 map) Two works buildings have been constructed to the north of the depot.
1999 (Aerial)	The majority of the site below the buildings is being used for car parking.	No significant changes evident.



**Table 6: Summary of Historical Map Evidence – 1:2,500 and 1:1,250 scale. Segment A7 – SE site region**

Year	On site	Surrounding area
1880-86	The remains of a hospital are shown within the priory area and cattle / sheep pens are shown in the northern and eastern parts of the segment respectively. In the south there appears to be an open field.	The railway is present to the immediate east with a station. A public house and a second unlabelled building are shown to the immediate south. Sheep and cattle pens are shown to the immediate east of the railway beyond which are open fields. A sewage works with 2 tanks marked is present 100m to the southeast. There is a fairly dense development to the south which encompasses a flour mill circa 200m south.
1907-14	The field in the south of the segment appears to have been divided up and tanks are marked to the east of the hospital ruins and the west of the cattle pens.	Boat houses are marked to the north of the sewage works. A rifle range is shown ~400m to the east. The open fields are marked as 'liable to flood'.
1928	A building of undisclosed use has been built to the south of the hospital ruins.	No significant changes evident.
1958-59	The building first shown in 1928 is marked as Stable Cottage. A building above the tanks is marked as 'The Gardens'.	The station is marked as disused. The sewage plant is now marked as works. Development has expanded to the southeast beyond the River Yare with warehouses, a crane and tanks marked. A second mill is shown to the south.
1968	A building marked depot is shown on the eastern boundary.	An Asphalt and Tarmacadam plant is shown to the immediate east of the railway replacing some cattle pens. The building to the north of the public house is labelled as a warehouse. A depot and vehicle repair works are present just south of Bracondale. The works adjacent to the southeast are now labelled as Trowse pumping station and encompass an electrical substation. A number of depots with associated tanks are marked southeast of the pumping station beyond the River Yare. Mills to the south labelled as works.
1976	A large warehouse building has been constructed to the immediate south of the gardens and east of Stable Cottage. Tanks are no longer shown.	A garage (possibly a filling station) is shown beyond the depots 200-300m to the southeast.
1979	The garden area is no longer shown. Warehouse buildings have been constructed.	No significant changes evident.

1994	No significant changes evident.	The Asphalt plant and cattle pens are now shown as a builder's yard with tanks marked in the northern extent. A scrap yard is shown in the western extent of the pumping station circa 100m south of the site. Additional tanks are shown in the northern extent of the pumping station.
1999 (Aerial)	Shipping containers appear to be present in the south of the site.	The builder's yard appears to comprise aggregate supply.

## 9.4 Unexploded Ordnance (UXO)

The risks from unexploded ordnance have been assessed by commissioning a preliminary UXO desk-based risk assessment from industry specialists, Brimstone. The report concludes that, based on the bombing density of the area, a moderate risk exists from German UXO and a Low-Moderate risk from British / Allied UXO. Thus, a detailed stage 2 detailed risk assessment (which is desk-based) is recommended by the specialist. The preliminary report is provided in Appendix F.

## 9.5 Waste Planning, Landfill Records and Hazardous Substances

The Environment Agency website and Envirocheck report showed that there are no areas of historic or active landfill listed within 500m of the subject site. Furthermore, there are no active waste treatment or transfer sites within 500m of the site or any records of sites handling hazardous substances (explosives etc.) within 250m of the site. However, the Network Rail storage facility on the eastern side of the site appears to store flammable gases and metallic powders (presumably for welding) which have the potential to be explosive.

## 9.6 Radon

According to the Envirocheck database search, the site is not within a radon affected area (less than 1% of homes are above the action level for radon). Therefore, no special protective measures are required in the construction of buildings on this site, in respect of radon gas.

## 9.7 Contemporary Trade Directories

There are 4 on-site records (1 relating to Britvic, 2 to Unilever and a 4<sup>th</sup> to Robinson's soft drinks Ltd.). Only the Britvic record is listed as being active within the Envirocheck report.

The offsite records have been analysed up to a distance of circa 250m. Potentially significant records are summarised below (this list has been reduced on account of the long industrial history of the subject site meaning low risk potentially contaminative land uses have been excluded):

- Former sheet metals workers and asphalt / macadam suppliers 16m south of the site;
- Active petrol filling station 258m northwest of the site.

NOTE: The 'points of interest' listings within the Envirocheck report also record a scrap metal merchants 72m to the south of the site.

## 9.8 Review of Previous Reports

### 9.8.1 Remedial Options Appraisal, LWRC, May 2018

The report provides an introduction stating that a known contaminant plume of tetrachloroethene (PCE) and its breakdown products is present within the soils and groundwater in the north eastern region of the site. The source was reportedly, a ~8m<sup>3</sup> below ground storage tank located close to the (current) mint processing plant. The contamination was identified in circa 1988 when Britvic and Unilever were already in discussion with Colman regarding purchasing the site.

The report states that an attempt to address the contamination was made in 1989-1994 via soil venting and air stripping. In 2007 the regulatory authorities contacted the owners of the site as part of their responsibilities to compile a list of all contaminated sites under the Environmental Protection Act (1990). The concern arose from historical data obtained from Anglian Water. This resulted in site investigation works which identified that contamination still remained. Remediation of the shallow soils was undertaken in order that the site would not be registered as contaminated under the EPA (1990). However, the Environment Agency (EA) remained concerned that the contamination in groundwater presented a risk to the Anglian Water drinking water abstraction borehole at nearby Thorpe.

The site owners agreed to undertake further investigation work and sunk 3 'piezometer' boreholes (BH1 – 30m, BH2 – 40m and BH3 – undisclosed depth) followed by soil and groundwater sampling which identified chlorinated solvent contamination to at least 30m bgl. Reports and meetings with the EA followed and groundwater modelling was undertaken. The resultant conclusion was that the best short-term approach would be to continue day-to-day abstraction as the resulting groundwater cone of depression was effectively containing the contamination and preventing migration offsite. Regular sampling was undertaken with the results provided to the EA. These data (now dating back 5 years) have demonstrated that the onsite abstraction is containing the contaminant plume and potentially reducing the main

solvent source (via abstraction well, BHD). With the pending closure of the factories (and the presumed cessation of the abstractions) a longer-term plan is now required. The bulk of the report discusses 4 selected potential options which comprise:

*1. Continuation of the current abstraction 'as is'*

Considerations of what to do with the abstracted water (discharge to river / re-inject) when it is no longer required for production are discussed along with the potential effects on the aquifer. This option would constrain redevelopment plans.

*2. Design and install a new well to control the plume closer to the source area (with the location based on previously undertaken groundwater modelling)*

Unlike option 1, this option would allow the shutdown of the other site-wide abstraction wells potentially allowing the sale / development of other regions of the site but would incur significantly higher costs to install the well and water treatment plant (an estimate of which is presented). Due to the proximity to the source, remediation would be anticipated to be completed faster than via option 1.

*3. Treatment via a wellfield installation (potentially including bioaugmentation)*

This approach would comprise drilling of a larger number of narrow diameter abstraction and re-injection boreholes within the plume area targeting the contamination more directly. Pumping rates would be restricted by the smaller boreholes meaning groundwater abstraction via existing installations may need to continue. The report states that this remedial approach would be more labour intensive. The report does not discuss the fact that insitu degradation of chlorinated solvents can only occur under anaerobic conditions.

*4. Excavation of the source*

This option is presented as excavating the entire source area down to considerable depth below the water table. It is essentially dismissed due to the scale and volumes involved coupled with site constraints (below ground services and proximity to the river).

Detailed analysis of the options presented is beyond the scope of this Phase I Desk Study. However, it is considered that there are more available options than those discussed and a more practical approach may comprise a combination of remedial techniques. One option may be further investigation to delineate any residual shallow soils impact and excavating and removing this down to a more achievable depth i.e. <5m bgl and then coupling this with groundwater remediation, which may comprise further pump and treat, or could involve enhanced reductive dichlorination subject to assessment showing it to be viable.

Significant work has been undertaken in this region of the site and a valuable dataset has been generated. A more detailed review of this work will be required, with the aim of producing a detailed remediation options appraisal, including detailed consideration of active source removal methodologies and alternative containment solutions. Consultation with specialist remediation contractors to ascertain likely costs and timescales should be integral to this process.

A meeting to discuss the approach to surrendering the environmental permit, site closure and remediating this region of the site was held between Britvic and the EA on 27<sup>th</sup> June 2018.

The report makes two further points of note:

- Existing abstraction wells will need to be decommissioned to EA specifications when they are no longer required;
- Asbestos has been found localised in infill material at the site.

## B PRELIMINARY CONCEPTUAL SITE MODEL

### 10 Environmental Risk Assessment

#### 10.1 Conceptual Site Model (CSM)

A risk based approach is used to assess contaminated or potentially contaminated land within the UK. For a potential risk to exist, there must be a pollutant linkage in place, i.e. there must be a source of contamination, a potential receptor, and a pathway linking the two.

The purpose of the Conceptual Site Model, in this instance, is to identify all of the potential pollutant linkages by considering, in turn, the potential sources, receptors and pathways.

#### 10.2 Sources

##### 10.2.1 Onsite Sources

Based on a review of the available site information, and in line with the relevant Department of Environment Industry Profiles, the following contaminants of concern are proposed:

**Table 7: Onsite sources of contamination**

Source	Contaminants of Concern
Above ground and underground fuel tanks storing fuel oil and waste oils	Total Petroleum Hydrocarbons (TPH), Polycyclic Aromatic Hydrocarbons (PAH), heavy metals
Storage and use of chemicals associated with cleaning/disinfection/sterilisation – detergents, surfactants, organic solvents	Volatile Organic Compounds (VOC) including PCE and its breakdown products, Semi-volatile Organic Compounds (SVOC), acids and alkalis
Storage of process raw materials	Acids, alkalis, oils, dyes (VOCs and SVOCs)
Former railway sidings	PAH, heavy metals, oils and greases
Former timber yard and saw mills	Wood preservatives – PAH, phenol and creosols
Buildings and service ducts constructed prior to 2000	Asbestos
Made Ground associated with installation and construction of various buildings	PAH, asbestos and heavy metals
Bottle Pit	Arsenic/Antimony associated with old glass, PAH, Asbestos and heavy metals if other materials disposed of within pit
Electrical Substations	Polychlorinated Biphenyls (PCBs), mineral oil
Former technical / R&D centre (laboratory)	Solvents
Coolant	Ethylene glycol

### 10.2.2 Offsite Sources

The majority of potentially contaminative land uses to the north of the site have been discounted due to the presence of the river acting as a barrier which would prevent any contamination of shallow soils. It is possible that groundwater contamination could have occurred subject to the groundwater flow direction and the effect of the on-site abstractions.

**Table 8: Off-site sources of contamination**

Source and distance	Contaminants of Concern
Railway adjacent to the east of the site	PAH, heavy metals, oils and greases
Railway storage depot	Metallic powders, undisclosed chemicals in drums
Former sheet metals workers and asphalt / macadam suppliers 16m (south) of the site	Heavy metals, PAH
Former timber works and identified works circa 100m (east) of the site	Wood preservatives – PAH, phenol and creosols
Active petrol filling station 258m northwest of the site.	TPH, PAH, MTBE, BTEX and heavy metals (in groundwater)

### 10.3 Receptors

Potential receptors are those which may be impacted by any of the contaminants of concern identified above, and include the following:

- Current and future users of the site
- Construction workers
- Groundwater (secondary (A) aquifers – RiverTerrace Deposits and Alluvium and underlying principal aquifer - Chalk)
- Surface Water – Rivers Wensum and Yare
- Material construction of buildings and infrastructure
- Neighbouring properties and occupants

### 10.4 Pathways and Potential Pollutant Linkages

No details have been provided re any redevelopment proposals. Given the size of the site it is assumed that any redevelopment would likely encompass a mixed land use comprising high and low density residential properties (some with private gardens), commercial (retail and office space), leisure facilities, light industrial and open spaces. Therefore, for the purposes of

this preliminary assessment, it must be assumed that all potential contaminant exposure pathways are active i.e. direct ingestion of soil, dermal contact with soil, inhalation of dust, outdoor and indoor gases/vapours and ingestion of contaminated vegetables and soil attached to vegetables.

Ground workers are at risk via direct ingestion of soil, inhalation of dust and outdoor vapour but risks are attenuated by the adoption of good industry working practices.

The site is underlain by River Terrace gravels / Alluvium; secondary (A) aquifers below which lies the principal aquifer within the Chalk. The terrace gravels have a moderate groundwater vulnerability whilst the Chalk has a high groundwater vulnerability. Hence, there is a potential pathway for leachate from soil pollutants and for mobile liquid contaminants to enter the groundwater. There is no natural geological obstruction (i.e. an aquiclude created by low permeability soils) to prevent vertical migration to the deeper principal aquifer and the site is located within a groundwater source protection zone I. These factors make the site very sensitive from a groundwater standpoint.

The River Wensum lies directly adjacent to the site so any surface runoff may enter directly into the river from the site. Sewers discharge directly into the river from the site. Leachate may enter the river via groundwater depending on the connectivity of the river to groundwater at this location.

## 10.5 Qualitative Risk Assessment of Pollutant Linkages

Risk levels within the preliminary CSM are determined on a qualitative basis following review of the available desk-based information. The significance of particular pollutant linkages is dependant both upon the severity and likelihood of the risk.

The potential pollutant linkages are summarised and discussed in the table appended in Appendix D and given a qualitative risk classification in accordance with current guidance. The details of the risk assessment methodology are also presented in Appendix D.

The following pollutant linkages are rated as moderate:

- Ingestion of hydrocarbon/solvent impacted soil by future site users;
- Ingestion of hydrocarbon/solvent impacted household and fugitive soil dust by future site users;
- Inhalation of soil-derived vapours within buildings by current and future site users; and
- Inhalation of land gases within buildings by current and future site users.

The following pollutant linkages are rated as high:

- Intergranular flow of free-phase contamination and migration into groundwater; and
- Inhalation of asbestos fibres by construction / maintenance workers.



It is considered that the majority of these potential pollutant linkages would be able to be managed under planning policy risk minimisation by the implementation of clean cover systems etc., however the potential vapour risk to future site users and the risk to controlled waters (both groundwater and the adjacent river) are likely to require more comprehensive remediation measures to be carried out.

## 11 Geotechnical Risk Assessment

### 11.1 Geotechnical Risk Register

The preliminary geotechnical risk register for the proposed development is summarised in the table in Appendix D.

The following geotechnical hazards have been identified as substantial risks:

- Unstable excavations and underground obstructions resulting from the presence of made ground and underground tunnels;
- Likely requirement for deepened foundations due to the presence of made ground and soft alluvial soils and putty chalk;
- Likely requirement to work adjacent to active traffic routes during the site investigation;
- Slope stability should the change in levels between the conservation area and building 256 / BH F region of the site need to be modified;
- Ground dissolution / natural cavities given the nature of the geology;
- Contaminated land may require remedial measures; and
- UXO supervision likely to be needed based on specialist assessment

## 12 Recommendations for Intrusive Ground Investigation

The desk study has identified a number of potentially significant risks posed by the previous and current usage of the site. An intrusive site investigation is therefore recommended.

An outline scope of the investigation should comprise the following:

(a more detailed proposal with costs will be produced by LEAP under separate cover):

*The site has been divided into the area where the known PCE plume resides and the remainder of the site.*

### PCE Plume Area

- Detailed review of all previous work undertaken in this area including groundwater modelling;

- Investigation and delineation of residual PCE contamination in shallow soils (to a depth of circa 4-5m). It is understood that this will be constrained by the presence of live below ground services;
- Collection of soil & water samples for laboratory analysis.
- Detailed Quantitative Risk Assessment for controlled waters (to identify the compliance point and remedial target value);

#### Wider site

- Review of the groundwater quality dataset;
- A series of windowless sampler boreholes and machine-excavated trial pits at various locations across the site targeting areas of current / historical fuel and chemical storage as well as areas where any known releases have occurred;
- Potential (deeper) cable percussion boreholes where analysis indicates a data gap;
- Collection of soil samples for geochemical laboratory testing;

Additional data could be collected during the site investigation work to inform the geotechnical assessment of the site for foundation design etc. if required at this stage.

### 13 Further Works

In accordance with published Environment Agency guidance and as confirmed from an initial discussion with the Environment Agency the following assessments will also be required:

- Groundwater modelling to demonstrate the potential effect on the PCE contaminant plume if groundwater abstraction at the factory is reduced or switched off and likely impact of potential remediation schemes;
- Detailed Quantitative Risk Assessment for controlled waters (to identify the compliance point and remedial target value); and
- Remediation Options Appraisal (primarily for the PCE plume but also, potentially, for any other contamination identified during the ground investigation.

Once the intended land use for the site is identified further 'land-use specific' site investigation will likely be necessary. This may comprise:

- Installation of vapour and land gas monitoring wells to assess the vapour and land gas risk to future site users; and
- Production of a Remediation Method Statement.

---

## APPENDIX A - LIMITATIONS

---

**Limitations**

---

## LIMITATIONS

This report is confidential to the Client, and Leap Environmental Ltd accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known, unless formally agreed by Leap Environmental Ltd beforehand. Any such party relies upon the report at their own risk. Unless explicitly agreed otherwise in writing, this report has been prepared under LEAP's standard terms and conditions, as included in the quotation for this works.

This report has been prepared by Leap Environmental Ltd on the basis of information received from a variety of sources which Leap Environmental Ltd believes to be accurate. Nevertheless, Leap Environmental Ltd cannot and does not guarantee the authenticity or reliability of the information it has obtained from others.

Leap Environmental Ltd has used all reasonable skill, care and diligence in the design and execution of this report, taking into account the manpower and resources devoted to it in agreement with the Client. Although every reasonable effort has been made to obtain all relevant information, all potential contamination, environmental constraints or liabilities associated with the site may not necessarily have been revealed. LEAP cannot be held responsible for any disclosures or changes in regulation that are provided post production of this report, and will not automatically update the report.

The conclusions reached in this report are necessarily restricted to those which can be determined from the information consulted, and may be subject to amendment in the light of additional information becoming available. These conclusions may not be appropriate for alternative schemes.

The presence of asbestos may be noted during the site walkover survey. This report does not constitute an asbestos survey. On this basis, the presence of asbestos on site cannot be discounted and a full asbestos survey should be undertaken.

---

## APPENDIX A - LIMITATIONS

---

Limitations

---

## LIMITATIONS

This report is confidential to the Client, and Leap Environmental Ltd accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known, unless formally agreed by Leap Environmental Ltd beforehand. Any such party relies upon the report at their own risk. Unless explicitly agreed otherwise in writing, this report has been prepared under LEAP's standard terms and conditions, as included in the quotation for this works.

This report has been prepared by Leap Environmental Ltd on the basis of information received from a variety of sources which Leap Environmental Ltd believes to be accurate. Nevertheless, Leap Environmental Ltd cannot and does not guarantee the authenticity or reliability of the information it has obtained from others.

Leap Environmental Ltd has used all reasonable skill, care and diligence in the design and execution of this report, taking into account the manpower and resources devoted to it in agreement with the Client. Although every reasonable effort has been made to obtain all relevant information, all potential contamination, environmental constraints or liabilities associated with the site may not necessarily have been revealed. LEAP cannot be held responsible for any disclosures or changes in regulation that are provided post production of this report, and will not automatically update the report.

The conclusions reached in this report are necessarily restricted to those which can be determined from the information consulted, and may be subject to amendment in the light of additional information becoming available. These conclusions may not be appropriate for alternative schemes.

The presence of asbestos may be noted during the site walkover survey. This report does not constitute an asbestos survey. On this basis, the presence of asbestos on site cannot be discounted and a full asbestos survey should be undertaken.

---

## APPENDIX B - FIGURES

---

Figures

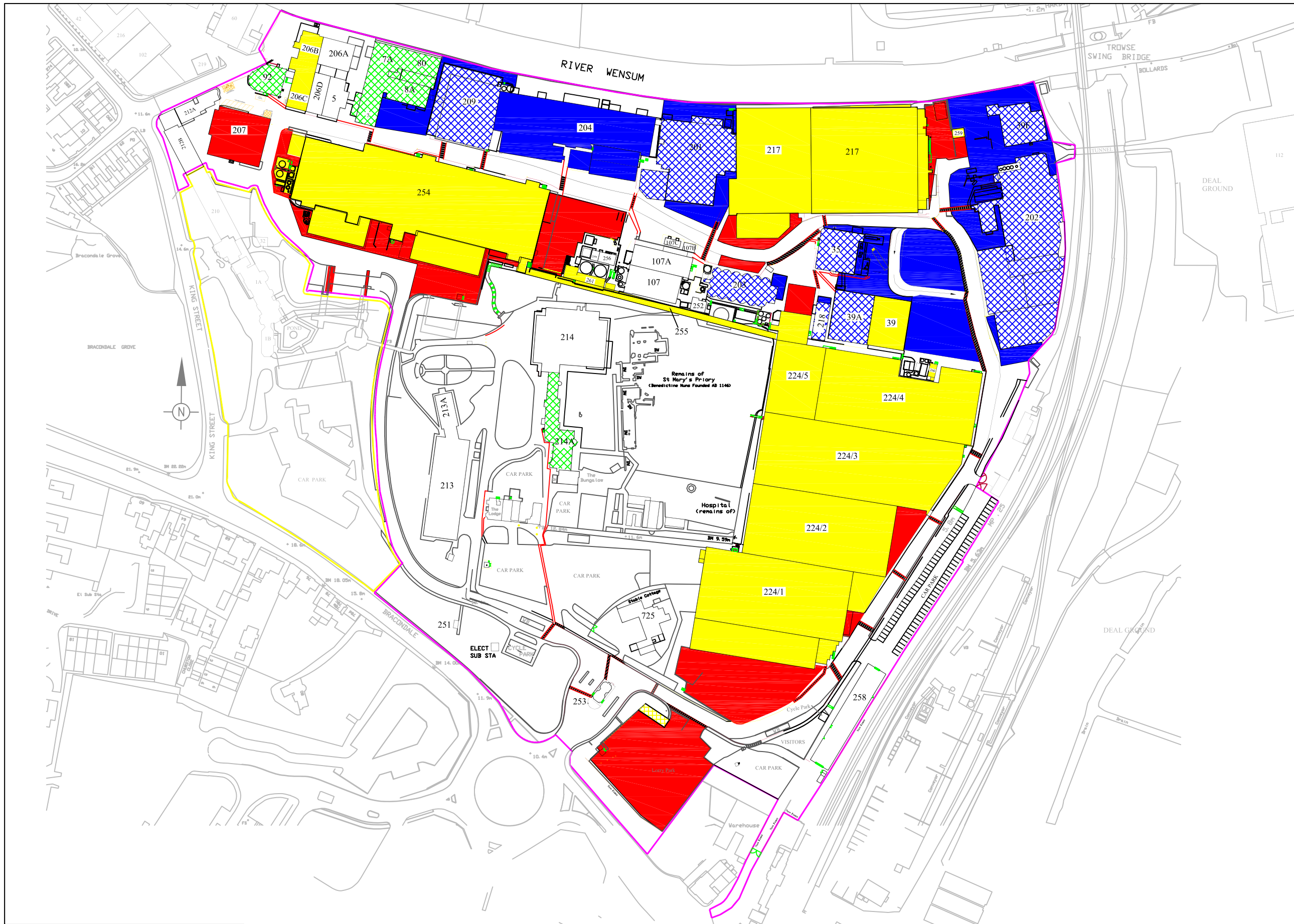


0 100 200 m



Client:	Unilever (UK) & Britvic	Title:	Site Location Plan	Project ID:	LP01671
Project:	Carrow Works, Norwich	Date:	06/07/2018	Figure No.	1





**NOTES**

- NCC Boundary
- Britvic/UBF Boundary
- Britvic Owned
- UBF Owned
- Shared Listed
- Shared
- Jointly Owned but Britvic Occupied
- Jointly Owned but UBF Occupied

NOTES

Blk	Description	Blk	Description
5	Building Shared Closed	214B	Occupational Health Centre Shared
7/7A	Listed (Shared Closed)	217	Ready Drinks Unit Britvic
8A/80	Listed (Shared Closed)	218	Mustard Seed Intake UBF
35	Mustard Seed Driers UBF	224/1	Britvic Warehouse & Office
39	Storage Area Wets UBF	224/1,2	Warehousing Britvic
39 A	Mustard Seed Store UBF	224/3,4	"
39 F	Mint Plant UBF	224/5	CSD Palletising Britvic
92	Listed(Shared Closed)	250	UBF Office
107	Compressor/Water Plant (Shared)	251	Gas Valve House Shared
107A	Boiler House (Shared)	252	Chlorination Plant Shared
107B	HV Switch Room (Shared)	253	Works Entrance & Gatehouse Shared
201	Dry Foods Unit UBF	254	Concentrate Soft Drinks Britvic
202	Culinary Unit UBF	255	Case Conveyor Britvic
203	Mustard Seed Silo UBF	256	Sprinkler Pump House Shared
204	Jif Plant UBF	258	Contractors Workshop Shared
206A	Building Closed Shared	259	RTD Flammable Goods Store Britvic
206B/C	Building Closed Britvic	260	Spring Water Plant Britvic
207	Shared	261	Soft Drinks Compressor Rm Britvic
209	Mustard Plant UBF	725	Shared
212A/B	Building Closed Shared		
213	Technical Centre Shared		
214	Abbey Dining Room Shared		
214A	Abbey Shared Listed		



Carrow, Norwich, NR1 2DD.

**WARNING!**  
THE CONTENTS, INFORMATION & COPYRIGHT OF THIS DOCUMENT ARE THE SOLE PROPERTY OF BRITVIC SOFT DRINKS LTD & UNILEVER UK FOODS & MUST NOT BE USED, PUBLISHED, APPLIED OR COPIED WITHOUT THE EXPRESS KNOWLEDGE & WRITTEN PERMISSION OF THE OWNERS

REVISION HISTORY			
NO.	DATE	BY	DESCRIPTION
1	02/06/03	C.S	New Site Share Drawing
2	20/07/09	C.S	Drawing Updated - Blks 204 & 39/39A Amended
3	28/04/11	C.S	Drawing Updated after Unilever Office Move & DFU Canopy Extension
4	01/09/15	C.S	Drawing Updated Following Installation of pH Correction Plant & CSD HP Compressor House Extension

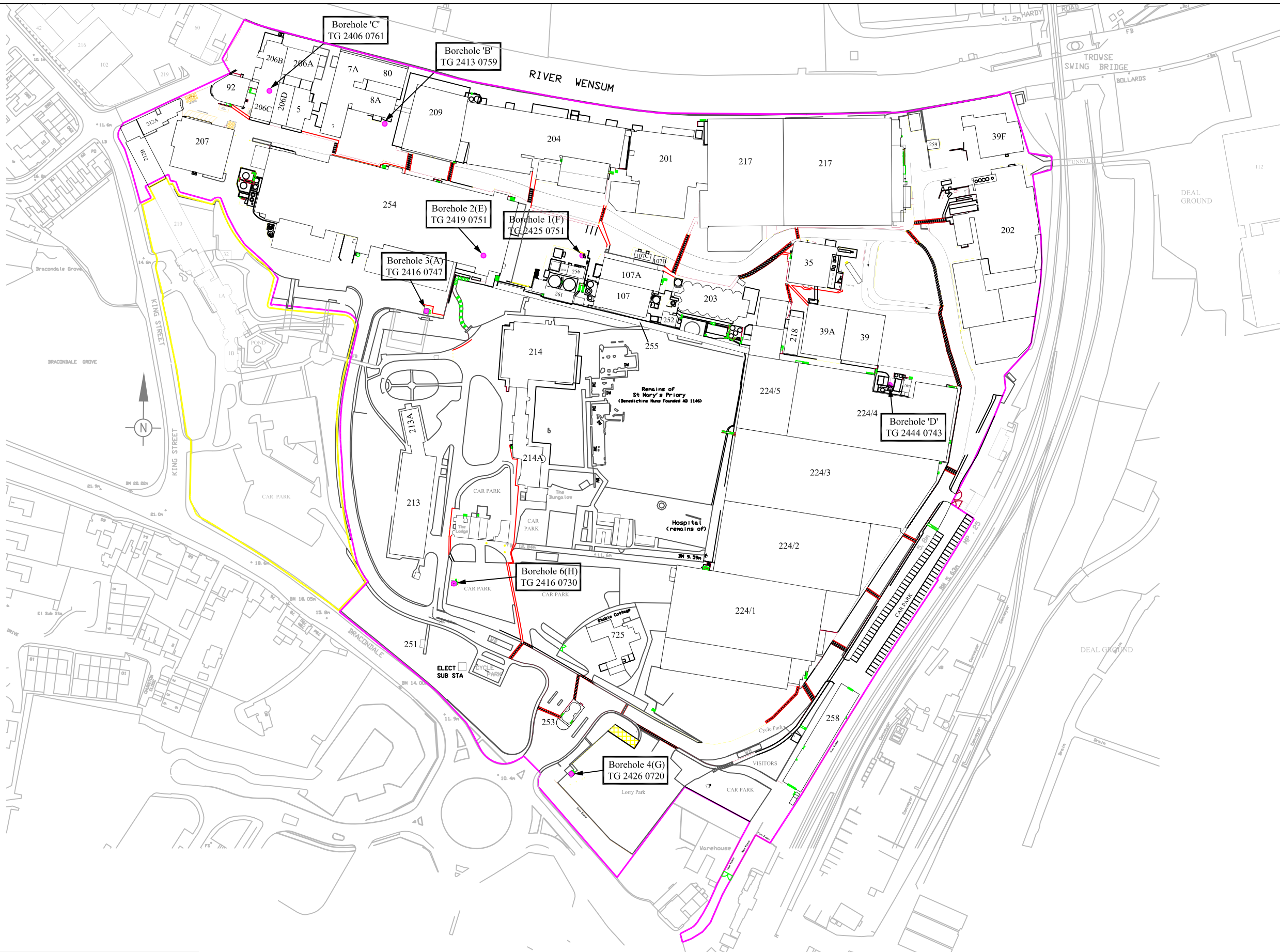
SCALE	N.T.S
DRAWN	C.S
DATE	21/08/00
CHECKED	JMS
APPROVED	JMS

BORDER SIZE A3

**TITLE:**  
Building Master

**DESCRIPTION:**  
Site Ownership

**DRAWING NUMBER:** SITEB10F



NOTES

Blk	Description	Blk	Description
5	Building Shared Closed	214B	Occupational Health Centre Shared
7/7A	Listed (Shared Closed)	217	Ready Drinks Unit Britvic
8A/80	Listed (Shared Closed)	218	Mustard Seed Intake UBF
35	Mustard Seed Driers UBF	224/1	Britvic Warehouse & Office
39	Storage Area Wets UBF	224/1,2	Warehousing Britvic
39 A	Mustard Seed Store UBF	224/3,4	"
39 F	Mint Plant UBF	224/5	CSD Palletising Britvic
92	Listed(Shared Closed)	250	UBF Office
107	Compressor/Water Plant (Shared)	251	Gas Valve House Shared
107A	Boiler House (Shared)	252	Chlorination Plant Shared
107B	HV Switch Room (Shared)	253	Works Entrance & Gatehouse Shared
201	Dry Foods Unit UBF	254	Concentrate Soft Drinks Britvic
202	Culinary Unit UBF	255	Case Conveyor Britvic
203	Mustard Seed Silo UBF	256	Sprinkler Pump House Shared
204	Jif Plant UBF	258	Contractors Workshop Shared
206A	Building Closed Shared	259	RTD Flammable Goods Store Britvic
206B/C	Building Closed Britvic Shared	260	Spring Water Plant Britvic
209	Mustard Plant UBF	261	Soft Drinks Compressor Rm Britvic
212A/B	Building Closed Shared	725	Shared
213	Technical Centre Shared (Closed)		
214	Abbey Dining Room Shared		
214A	Abbey Shared Listed		



Carrow, Norwich, NR1 2DD.

**WARNING!**  
THE CONTENTS, INFORMATION & COPYRIGHT OF THIS DOCUMENT ARE THE SOLE PROPERTY OF BRITVIC SOFT DRINKS LTD & UNILEVER UK FOODS & MUST NOT BE USED, PUBLISHED, APPLIED OR COPIED WITHOUT THE EXPRESS KNOWLEDGE & WRITTEN PERMISSION OF THE OWNERS

REVISION HISTORY			
NO.	DATE	BY	DESCRIPTION
1	03/03/09	C.S	Borehole References updated
2	04/11/14	C.S	Reference Added for New Borehole 6H

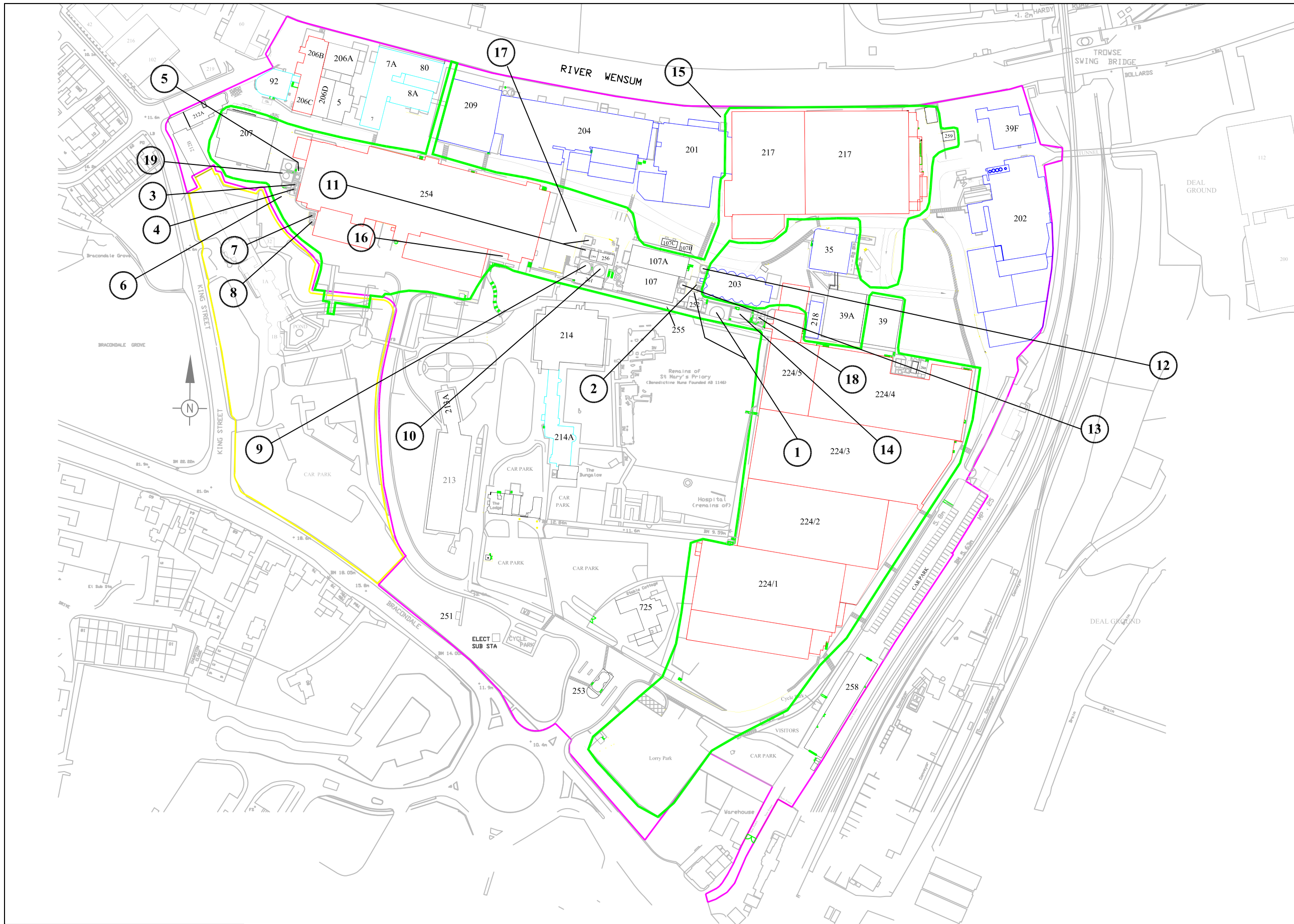
SCALE	N.T.S
DRAWN	JMS
DATE	25/01/03
CHECKED	
APPROVED	

**BORDER SIZE A3**

**TITLE:**  
Site Layout

**DESCRIPTION:**  
Showing Borehole Locations

**DRAWING NUMBER:** SITEM13C



**KEY**

1. 35Sec Diesel Oil Tanks
2. Waste Oil Tank
3. Caustic Tank
4. Hydrochloric Acid Tank
5. Citric Acid Tank
6. Strong Waste (Underground)
7. Sugar Silo
8. Citric Acid Silo
9. Sprinkler Water Tank
10. Sprinkler Water Tank
11. RO Raw Water Tanks
12. RO Storage Tank
13. RO Storage Tank
14. CBH Water Storage Tank
15. Cooling with Glycol
16. Cooling with Glycol
17. Juice Storage Area
18. Iron & Manganese Treatment Plant
19. CSD Effluent Treatment Plant

**NOTES**

Blk	Description	Blk	Description
5	Building Shared Closed	214B	Occupational Health Centre Shared
7/7A	Listed (Shared Closed)	217	Ready Drinks Unit Britvic
8A/80	Listed (Shared Closed)	218	Mustard Seed Intake UBF
35	Mustard Seed Driers UBF	224/1	Britvic Warehouse & Office
39	Storage Area Wets UBF	224/1,2	Warehousing Britvic
39 A	Mustard Seed Store UBF	224/3,4	"
39 F	Mint Plant UBF	224/5	"
92	Listed(Shared Closed)	227	CSD Palletising Britvic
107	Compressor/Water Plant (Shared)	250	Culinary Cold Store UBF
107A	Boiler House (Shared)	251	UBF Office
107B	HV Switch Room (Shared)	252	Gas Valve House Shared
201	Dry Foods Unit UBF	253	Chlorination Plant Shared
202	Culinary Unit UBF	254	Works Entrance & Gatehouse Shared
203	Mustard Seed Silo UBF	254	Concentrate Soft Drinks
204	Jif Plant UBF	255	Britvic
206A	Building Closed Shared	255	Case Conveyor Britvic
206B/C	Building Closed Britvic	256	Sprinkler Pump House Shared
207	Shared	258	Contractors Workshop Shared
209	Mustard Plant UBF	259	RTD Flammable Goods Store
212A/B	Building Closed Shared	260	Britvic
213	Technical Centre Shared (Closed)	261	Spring Water Plant Britvic
214	Abbey Dining Room Shared	261	Soft Drinks Compressor Rm
214A	Abbey Shared Listed	725	Britvic Shared



Tel:(01603) 632633      Tel:(01603) 660166

Carrow, Norwich, NR1 2DD.

**WARNING!**  
THE CONTENTS, INFORMATION & COPYRIGHT OF THIS DOCUMENT ARE THE SOLE PROPERTY OF BRITVIC SOFT DRINKS LTD & UNILEVER UK FOODS & MUST NOT BE USED, PUBLISHED, APPLIED OR COPIED WITHOUT THE EXPRESS KNOWLEDGE & WRITTEN PERMISSION OF THE OWNERS

REVISION HISTORY			
NO.	DATE	BY	DESCRIPTION
1	01/09/09	C.S	Drawing Information Updated – New Tanks added
2	24/10/14	C.S	Drawing Updated to Include New CSD Effluent Treatment Plant

SCALE	N.T.S
DRAWN	C.S
DATE	18/01/05
CHECKED	
APPROVED	

**BORDER SIZE A3**

**TITLE:**  
IPPC

**DESCRIPTION:**  
External Storage Tanks / Areas

**DRAWING NUMBER:** SITES21D

---

## APPENDIX C – HISTORIC MAPS AND ENVIRONMENTAL DATABASE SEARCHES

---

Historic Maps and  
Environmental  
Database Searches

## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

168652647\_1\_1

**Customer Reference:**

Carrow Works, Norwich

**National Grid Reference:**

624260, 307420

**Slice:**

A

**Site Area (Ha):**

16.99

**Search Buffer (m):**

500

#### Site Details:

Carrow Works

Norwich

NR1 2DD

#### Client Details:

Dr P Adams

Leap Environmental Ltd

The Atrium Business Centre

Curtis Road

Dorking

Surrey

RH4 1XA

#### Prepared For:

Unilever (UK) Ltd and Britvic Soft Drinks Ltd

Carrow Works

Bracondale

Norwich

NR1 2DD

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	88
Hazardous Substances	89
Geological	90
Industrial Land Use	96
Sensitive Land Use	110
Data Currency	111
Data Suppliers	116
Useful Contacts	117

### 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/Natural Resources Wales 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.

### Copyright Notice

© Landmark Information Group Limited 2018. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency/Natural Resources Wales and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer. A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and/or other Data providers, whose Copyright material has been included in this Report.

### Natural England Copyright Notice

Site of Special Scientific Interest, National Nature Reserve, Ramsar, Special Protection Area, Special Conservation Area, Marine Nature Reserve data (derived from Ordnance Survey 1:10000 raster) is provided by, and used with the permission of, Natural England who retain the copyright and Intellectual Property Rights for the data.

### Scottish Natural Heritage Copyright

Contains SNH information licensed under the Open Government Licence v3.0.

### Ove Arup Copyright Notice

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.

### Peter Brett Associates Copyright Notice

The cavity data presented has been extracted from the PBA enhanced version of the original DEFRA national cavity databases. PBA/DEFRA retain the copyright & intellectual property rights in the data. Whilst all reasonable efforts are made to check that the information contained in the cavity databases is accurate we do not warrant that the data is complete or error free. The information is based upon our own researches and those collated from a number of external sources and is continually being augmented and updated by PBA. In no event shall PBA/DEFRA or Landmark be liable for any loss or damage including, without limitation, indirect or consequential loss or damage arising from the use of this data.

### Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

### Natural Resources Wales Copyright Notice

Contains Natural Resources Wales information © Natural Resources Wales and Database Right. All rights Reserved. Contains Ordnance Survey Data. Ordnance Survey Licence number 100019741. Crown Copyright and Database Right. Contains Natural Resources Wales information © Natural Resources Wales and Database Right. All rights Reserved. Some features of this information are based on digital spatial data licensed from the Centre for Ecology & Hydrology © NERC (CEH). Defra, Met Office and DARD Rivers Agency © Crown copyright. © Cranfield University. © James Hutton Institute. Contains OS data © Crown copyright and database right 2018. Land & Property Services © Crown copyright and database right.

### Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Agency &amp; Hydrological</b>				
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes
Contaminated Land Register Entries and Notices				
Discharge Consents	pg 3	3	22	9
Prosecutions Relating to Controlled Waters			n/a	n/a
Enforcement and Prohibition Notices				
Integrated Pollution Controls	pg 11		3	
Integrated Pollution Prevention And Control	pg 12	3		
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls	pg 13		4	4
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 14	Yes		
Pollution Incidents to Controlled Waters	pg 14	3	26	14
Prosecutions Relating to Authorised Processes				
Registered Radioactive Substances				
River Quality	pg 21		2	2
River Quality Biology Sampling Points				
River Quality Chemistry Sampling Points	pg 22		1	1
Substantiated Pollution Incident Register	pg 23		1	1
Water Abstractions	pg 24	148	7	12 (*8)
Water Industry Act Referrals				
Groundwater Vulnerability	pg 67	Yes	n/a	n/a
Drift Deposits			n/a	n/a
Bedrock Aquifer Designations	pg 67	Yes	n/a	n/a
Superficial Aquifer Designations	pg 67	Yes	n/a	n/a
Source Protection Zones	pg 68	3		
Extreme Flooding from Rivers or Sea without Defences	pg 68	Yes	Yes	n/a
Flooding from Rivers or Sea without Defences	pg 75	Yes	Yes	n/a
Areas Benefiting from Flood Defences				n/a
Flood Water Storage Areas				n/a
Flood Defences				n/a
OS Water Network Lines	pg 77		29	62

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Waste</b>				
BGS Recorded Landfill Sites				
Historical Landfill Sites				
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)				
Local Authority Landfill Coverage	pg 88	2	n/a	n/a
Local Authority Recorded Landfill Sites				
Potentially Infilled Land (Non-Water)				
Potentially Infilled Land (Water)	pg 88		2	4
Registered Landfill Sites				
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites	pg 88			1
<b>Hazardous Substances</b>				
Control of Major Accident Hazards Sites (COMAH)				
Explosive Sites				
Notification of Installations Handling Hazardous Substances (NIHHS)				
Planning Hazardous Substance Consents	pg 89			3
Planning Hazardous Substance Enforcements				



Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Geological</b>				
BGS 1:625,000 Solid Geology	pg 90	Yes	n/a	n/a
BGS Estimated Soil Chemistry	pg 90	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 92		2	2
BGS Urban Soil Chemistry				
BGS Urban Soil Chemistry Averages				
CBSCB Compensation District			n/a	n/a
Coal Mining Affected Areas			n/a	n/a
Mining Instability	pg 92	Yes	n/a	n/a
Man-Made Mining Cavities	pg 92		3	1
Natural Cavities	pg 93		1	
Non Coal Mining Areas of Great Britain	pg 93	Yes	Yes	n/a
Potential for Collapsible Ground Stability Hazards	pg 94	Yes		n/a
Potential for Compressible Ground Stability Hazards	pg 94	Yes		n/a
Potential for Ground Dissolution Stability Hazards	pg 94	Yes	Yes	n/a
Potential for Landslide Ground Stability Hazards	pg 95	Yes		n/a
Potential for Running Sand Ground Stability Hazards	pg 95	Yes		n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 95	Yes	Yes	n/a
Radon Potential - Radon Affected Areas			n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a
<b>Industrial Land Use</b>				
Contemporary Trade Directory Entries	pg 96	4	20	33
Fuel Station Entries	pg 100		1	2
Points of Interest - Commercial Services	pg 101		3	8
Points of Interest - Education and Health				
Points of Interest - Manufacturing and Production	pg 102	14	43	16
Points of Interest - Public Infrastructure	pg 108		4	12
Points of Interest - Recreational and Environmental	pg 109		1	
Gas Pipelines				
Underground Electrical Cables				

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Sensitive Land Use</b>				
Ancient Woodland				
Areas of Adopted Green Belt				
Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty				
Environmentally Sensitive Areas	pg 110		1	
Forest Parks				
Local Nature Reserves	pg 110			1
Marine Nature Reserves				
National Nature Reserves				
National Parks	pg 110	1		
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones	pg 110	1		
Ramsar Sites				
Sites of Special Scientific Interest				
Special Areas of Conservation				
Special Protection Areas				
World Heritage Sites				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SW (W)	0	1	624250 307425
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SW (N)	0	1	624264 307450
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SE (W)	0	1	624200 307400
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SE (NW)	0	1	624000 307550
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10SE (NW)	0	1	624050 307550
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SE (W)	0	1	624150 307450
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SW (NW)	0	1	624250 307450
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SW (S)	0	1	624264 307425
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A11SW (NE)	0	1	624350 307500
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10SE (NW)	36	1	624000 307650
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10SE (NW)	64	1	623950 307650
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SW (NW)	93	1	623900 307650
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SW (S)	111	1	624250 307000
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10SW (NW)	131	1	623900 307700
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NE (NW)	137	1	623950 307750
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6SE (S)	144	1	624200 307000
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A6SE (S)	178	1	624150 307000
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SW (NW)	204	1	623800 307700
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NW (NW)	207	1	623900 307800
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6SE (S)	215	1	624150 306950
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NW (NW)	235	1	623800 307750
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NW (NW)	271	1	623800 307800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10NW (NW)	273	1	623750 307750
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6SE (S)	285	1	624100 306900
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10NW (NW)	343	1	623700 307800
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11NW (N)	347	1	624350 307950
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6SE (S)	356	1	624050 306850
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NW (NW)	376	1	623700 307850
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A6SE (SW)	390	1	624000 306850
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (E)	409	1	624900 307300
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SE)	425	1	624800 307050
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6SE (S)	430	1	624050 306750
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SW (E)	431	1	624950 307400
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A15SW (N)	442	1	624400 308050
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NW (NW)	451	1	623700 307950
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A15SE (NE)	451	1	624600 308050
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A15SW (N)	455	1	624350 308050
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (E)	456	1	624950 307300
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A15SW (N)	461	1	624250 308100
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (SE)	467	1	624850 307050
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SW (E)	467	1	625000 307425
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SE (SE)	479	1	624800 306950
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SW (E)	480	1	625000 307400
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NW (NW)	483	1	623650 307950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A15SW (N)	487	1	624264 308100
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (E)	489	1	625000 307350
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A2NE (S)	490	1	624100 306650
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A15SW (N)	492	1	624450 308100
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SE (SE)	495	1	624850 307000
1	<b>Discharge Consents</b> Operator: Britvic Soft Drinks Limited Property Type: Domestic Property (Multiple) Location: Carrow, Norwich, Norfolk, Norfolk, Nr1 2dd Authority: Environment Agency, Anglian Region Catchment Area: River Wensum / Whitewater Reference: Prets11982 Permit Version: 2 Effective Date: 8th July 2004 Issued Date: 8th July 2004 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Process Water Discharge Environment: Freshwater Stream/River Receiving Water: River Wensum <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 10m	A11SW (N)	0	2	624320 307590
1	<b>Discharge Consents</b> Operator: Britvic Soft Drinks Limited Property Type: Domestic Property (Multiple) Location: Carrow, Norwich, Norfolk, Norfolk, Nr1 2dd Authority: Environment Agency, Anglian Region Catchment Area: River Wensum / Whitewater Reference: Prets11982 Permit Version: 1 Effective Date: 17th March 2000 Issued Date: 18th April 2000 Revocation Date: 7th July 2004 Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: River Wensum <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 10m	A11SW (N)	0	2	624320 307590
2	<b>Discharge Consents</b> Operator: Britvic Soft Drinks Limited Property Type: Domestic Property (Multiple) Location: Carrow, Norwich, Norfolk, Norfolk, Nr1 2dd Authority: Environment Agency, Anglian Region Catchment Area: River Wensum / Whitewater Reference: Prets11982 Permit Version: 1 Effective Date: 17th March 2000 Issued Date: 18th April 2000 Revocation Date: 7th July 2004 Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: River Wensum <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 10m	A11SW (NE)	0	2	624290 307480

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Norwich Cedar Road Cso, Cedar Road, Norwich, Norfolk, Nr1 1hj  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Epreb3296eh  Permit Version: 1  Effective Date: 28th June 2016  Issued Date: 28th June 2016  Revocation Date: 27th June 2017  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: The River Wensum  <b>Status: New issued under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	23	2	624067 307669
3	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Norwich Cedar Road Cso, Cedar Road, Norwich, Norfolk, Nr1 1hj  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Epreb3296eh  Permit Version: 2  Effective Date: 28th June 2017  Issued Date: 28th June 2016  Revocation Date: Not Supplied  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: The River Wensum  <b>Status: New issued under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	23	2	624067 307669
4	<p><b>Discharge Consents</b></p> <p>Operator: Messrs. J. &amp; J. Colman Limited  Property Type: Undefined Or Other  Location: Carrow Works, Norwich., Nr1 2dd  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Pr4nf219x  Permit Version: 1  Effective Date: 25th November 1960  Issued Date: 25th November 1960  Revocation Date: 18th September 1990  Discharge Type: Trade Discharges - Cooling Water  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Wensum  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A11SW (N)	105	2	624300 307700
4	<p><b>Discharge Consents</b></p> <p>Operator: Messrs. J. &amp; J. Colman Limited  Property Type: Undefined Or Other  Location: Carrow Works, Norwich., Nr1 2dd  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Pr4nf207x  Permit Version: 1  Effective Date: 23rd September 1960  Issued Date: 23rd September 1960  Revocation Date: 18th September 1990  Discharge Type: Trade Effluent  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Wensum  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A11SW (N)	105	2	624300 307700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Trowse Ps/ King St &amp; Bracondale Cso Bracondale Junction The Street, Norwich, -, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Aeenf2682  Permit Version: 1  Effective Date: 2nd January 1990  Issued Date: 2nd January 1990  Revocation Date: 22nd May 1992  Discharge Type: Storm /emergency overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: R Yare  <b>Status:</b> Post National Rivers Authority Legislation where issue date &gt; 31/08/1989  Positional Accuracy: Located by supplier to within 100m</p>	A7SW (S)	125	2	624400 307000
5	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Bracondale Combined Sewer Overflow Off Bracondale, Trowse Millgate, Norwich, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Eprhb3693dn  Permit Version: 2  Effective Date: 31st March 2019  Issued Date: 27th March 2018  Revocation Date: Not Supplied  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: The River Yare  <b>Status:</b> Varied under EPR 2010  Positional Accuracy: Located by supplier to within 10m</p>	A7SW (S)	160	2	624430 306980
5	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Bracondale Combined Sewer Overflow Off Bracondale, Trowse Millgate, Norwich, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Eprhb3693dn  Permit Version: 1  Effective Date: 27th March 2018  Issued Date: 27th March 2018  Revocation Date: 30th March 2019  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: The River Yare  <b>Status:</b> Varied under EPR 2010  Positional Accuracy: Located by supplier to within 10m</p>	A7SW (S)	160	2	624430 306980
5	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Trowse Ps/ King St &amp; Bracondale Cso Bracondale Junction The Street, Norwich, -, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Aw4tf777x  Permit Version: 4  Effective Date: 10th September 2010  Issued Date: 10th September 2010  Revocation Date: 26th March 2018  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Yare Or Wensum  <b>Status:</b> Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989  Positional Accuracy: Located by supplier to within 10m</p>	A7SW (S)	160	2	624430 306980

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Trowse Ps/ King St &amp; Bracondale Cso Bracondale Junction The Street, Norwich, -, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Aw4tf777x  Permit Version: 3  Effective Date: 23rd February 2005  Issued Date: 23rd February 2005  Revocation Date: 9th September 2010  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Yare Or Wensum  <b>Status:</b> Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989  Positional Accuracy: Located by supplier to within 10m</p>	A7SW (S)	160	2	624430 306980
6	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Trowse Terminal Pumping Station Off The Street, Bracondale, Trowse Millgate, Norwich, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Eprhb3693af  Permit Version: 1  Effective Date: 27th March 2018  Issued Date: 27th March 2018  Revocation Date: 30th March 2018  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: The River Yare  <b>Status:</b> Varied under EPR 2010  Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SE)	144	2	624500 307100
6	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Trowse Terminal Pumping Station Off The Street, Bracondale, Trowse Millgate, Norwich, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Eprhb3693af  Permit Version: 1  Effective Date: 27th March 2018  Issued Date: 27th March 2018  Revocation Date: 30th March 2018  Discharge Type: Sewage Discharges - Pumping Station - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: The River Yare  <b>Status:</b> Varied under EPR 2010  Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SE)	144	2	624500 307100
6	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Trowse Terminal Pumping Station Off The Street, Bracondale, Trowse Millgate, Norwich, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Eprhb3693af  Permit Version: 2  Effective Date: 31st March 2018  Issued Date: 27th March 2018  Revocation Date: Not Supplied  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: The River Yare  <b>Status:</b> Varied under EPR 2010  Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SE)	144	2	624500 307100



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Trowse Terminal Pumping Station Off The Street, Bracondale, Trowse Millgate, Norwich, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Eprhb3693af  Permit Version: 2  Effective Date: 31st March 2018  Issued Date: 27th March 2018  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Pumping Station - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: The River Yare  <b>Status: Varied under EPR 2010</b>  Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SE)	144	2	624500 307100
6	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Trowse Ps/ King St &amp; Bracondale Cso Bracondale Junction The Street, Norwich, -, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Aw4tf777x  Permit Version: 4  Effective Date: 10th September 2010  Issued Date: 10th September 2010  Revocation Date: 26th March 2018  Discharge Type: Storm /emergency overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Yare Or Wensum  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SE)	144	2	624500 307100
6	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Trowse Ps/ King St &amp; Bracondale Cso Bracondale Junction The Street, Norwich, -, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Aw4tf777x  Permit Version: 4  Effective Date: 10th September 2010  Issued Date: 10th September 2010  Revocation Date: 26th March 2018  Discharge Type: Sewage Discharges - Pumping Station - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Yare Or Wensum  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SE)	144	2	624500 307100
6	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Trowse Ps/ King St &amp; Bracondale Cso Bracondale Junction The Street, Norwich, -, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Aw4tf777x  Permit Version: 3  Effective Date: 23rd February 2005  Issued Date: 23rd February 2005  Revocation Date: 9th September 2010  Discharge Type: Sewage Discharges - Pumping Station - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Yare Or Wensum  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SE)	144	2	624500 307100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Trowse Ps/ King St &amp; Bracondale Cso Bracondale Junction The Street, Norwich, -, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Aw4tf777x  Permit Version: 3  Effective Date: 23rd February 2005  Issued Date: 23rd February 2005  Revocation Date: 9th September 2010  Discharge Type: Storm /emergency overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Yare Or Wensum  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SE)	144	2	624500 307100
6	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Trowse Ps/ King St &amp; Bracondale Cso Bracondale Junction The Street, Norwich, -, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Aw4tf777x  Permit Version: 2  Effective Date: 14th December 2001  Issued Date: 15th December 2001  Revocation Date: 23rd February 2005  Discharge Type: Sewage Discharges - Pumping Station - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Tidal River Yare  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SE)	144	2	624500 307100
6	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Trowse Ps/ King St &amp; Bracondale Cso Bracondale Junction The Street, Norwich, -, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Given  Reference: Aw4tf262  Permit Version: 1  Effective Date: 9th June 1986  Issued Date: 9th June 1986  Revocation Date: 14th December 2001  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Yare  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SE)	144	2	624500 307100
6	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Trowse Ps/ King St &amp; Bracondale Cso Bracondale Junction The Street, Norwich, -, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Given  Reference: Aw4nf777x  Permit Version: 1  Effective Date: 29th March 1973  Issued Date: 29th March 1973  Revocation Date: 22nd February 2005  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Not Supplied  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SE)	144	2	624500 307100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Trowse Ps/ King St &amp; Bracondale Cso Bracondale Junction The Street, Norwich, -, Norfolk, Nr1 2eg  Authority: Environment Agency, Anglian Region  Catchment Area: Not Given  Reference: Aw4tf777x  Permit Version: 1  Effective Date: 29th March 1973  Issued Date: 29th March 1973  Revocation Date: 13th December 2001  Discharge Type: Sewage Discharges - Pumping Station - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Tidal River Yare  <b>Status:</b> Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989  Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SE)	144	2	624500 307100
7	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Carrow Road - Norwich, Carrow Road, Norwich, Nr1  Authority: Environment Agency, Anglian Region  Catchment Area: Not Given  Reference: Aw4nf577x  Permit Version: 1  Effective Date: 14th October 1966  Issued Date: 14th October 1966  Revocation Date: 19th March 2008  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Ditch  Environment:  Receiving Water: Bramford Dyke  <b>Status:</b> Revoked (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)  Positional Accuracy: Located by supplier to within 100m</p>	A10NE (N)	185	2	624200 307800
8	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Norwich Carrow Road Cso, Carrow Road, Norwich, Norfolk, Nr1 1hs  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Epreb3296ax  Permit Version: 1  Effective Date: 28th June 2016  Issued Date: 28th June 2016  Revocation Date: 27th June 2017  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: The River Wensum  <b>Status:</b> New issued under EPR 2010  Positional Accuracy: Located by supplier to within 10m</p>	A10NE (N)	269	2	624243 307876
8	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Norwich Carrow Road Cso, Carrow Road, Norwich, Norfolk, Nr1 1hs  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Epreb3296ax  Permit Version: 2  Effective Date: 28th June 2017  Issued Date: 28th June 2016  Revocation Date: Not Supplied  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: The River Wensum  <b>Status:</b> New issued under EPR 2010  Positional Accuracy: Located by supplier to within 10m</p>	A10NE (N)	269	2	624243 307876

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	<p><b>Discharge Consents</b></p> <p>Operator: May Gurney Co Ltd  Property Type: Not Supplied  Location: Trowse, Norwich  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Pr4ff80619  Permit Version: 1  Effective Date: 29th August 1980  Issued Date: 29th August 1980  Revocation Date: 9th September 1998  Discharge Type: Unknown  Discharge: Onto Land  Environment:  Receiving Water: Land  <b>Status:</b> Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989  Positional Accuracy: Located by supplier to within 100m</p>	A7SE (SE)	282	2	624600 307000
9	<p><b>Discharge Consents</b></p> <p>Operator: May Gurney &amp; Co Ltd  Property Type: Undefined Or Other  Location: Trowse, Norwich  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Pr4ff80619  Permit Version: 1  Effective Date: 29th August 1980  Issued Date: 29th August 1980  Revocation Date: 9th September 1998  Discharge Type: Unknown  Discharge: Onto Land  Environment:  Receiving Water: Land  <b>Status:</b> Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989  Positional Accuracy: Located by supplier to within 100m</p>	A7SE (SE)	282	2	624600 307000
10	<p><b>Discharge Consents</b></p> <p>Operator: Robinsons Soft Drinks  Property Type: MAKING OF BEVERAGES/BREWERIES/SOFT DRINKS  Location: Robinsons Soft Drinks Carrow, Norwich, Norfolk, Nr1 2dd  Authority: Environment Agency, Anglian Region  Catchment Area: Lower River Yare / River Chet  Reference: Pr4ff692x  Permit Version: 1  Effective Date: 11th September 1970  Issued Date: 11th September 1970  Revocation Date: Not Supplied  Discharge Type: Trade Discharge - Process Water  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Wensum  <b>Status:</b> Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989  Positional Accuracy: Approximate location provided by supplier</p>	A6SE (SW)	287	2	624000 307000
11	<p><b>Discharge Consents</b></p> <p>Operator: Transco  Property Type: Undefined Or Other  Location: Cremorne Lane, Norwich, Norfolk  Authority: Environment Agency, Anglian Region  Catchment Area: Lower River Yare / River Chet  Reference: Prenf1872  Permit Version: 1  Effective Date: 31st July 1990  Issued Date: 31st July 1990  Revocation Date: 25th September 2002  Discharge Type: Trade Discharge - Process Water  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Trib River Wensum  <b>Status:</b> Post National Rivers Authority Legislation where issue date &gt; 31/08/1989  Positional Accuracy: Located by supplier to within 100m</p>	A11NE (NE)	348	2	624800 307800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: Not Supplied  Location: Thorpe Gen Station, Norwich  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Aw4tf1409  Permit Version: 1  Effective Date: 14th October 1987  Issued Date: 14th October 1987  Revocation Date: 4th March 1992  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Unknown  Environment:  Receiving Water:  <b>Status:</b> Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989  Positional Accuracy: Located by supplier to within 100m</p>	A11NE (NE)	434	2	624900 307800
12	<p><b>Discharge Consents</b></p> <p>Operator: National Power Plc  Property Type: Not Supplied  Location: Thorpe Gen Station, Norwich  Authority: Environment Agency, Anglian Region  Catchment Area: River Wensum / Whitewater  Reference: Pr4tf307x  Permit Version: 1  Effective Date: 25th May 1962  Issued Date: 25th May 1962  Revocation Date: 15th January 1993  Discharge Type: Trade Discharge - Process Water  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Yare  <b>Status:</b> Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989  Positional Accuracy: Located by supplier to within 100m</p>	A11NE (NE)	434	2	624900 307800
13	<p><b>Discharge Consents</b></p> <p>Operator: Whitlingham Boathouses Foundation Limited  Property Type: SPORT, AMUSEMENT+RECREATION/GOLF CLUB/GYM/THEME PK/SPA  Location: Whitlingham Boathouses Whitlingham Lane, Trowse, Norwich, Norfolk, Nr14 8tr  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Eprbb3799rc  Permit Version: 1  Effective Date: 18th December 2014  Issued Date: 18th December 2014  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Yare  <b>Status:</b> New issued under <b>EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A12NW (E)	491	2	625002 307713
14	<p><b>Integrated Pollution Controls</b></p> <p>Name: Rwe Npower Plc  Location: Norwich G T Power Station, Hardy Road, NORWICH, Norfolk, NR1 1JR  Authority: Environment Agency, Anglian Region  Permit Reference: BE3251  Dated: 24th November 1998  Process Type: IPC minor (non-substantial) variation to previous variation  Description: 1.3 A (B) Combustion processes within the Fuel &amp; Power Industry  <b>Status:</b> Authorisation revokedRevoked  Positional Accuracy: Unknown</p>	A11SE (NE)	157	2	624639 307697
14	<p><b>Integrated Pollution Controls</b></p> <p>Name: Rwe Npower Plc  Location: Hardy Road, NORWICH, NR1 1JR  Authority: Environment Agency, Anglian Region  Permit Reference: AF7134  Dated: 7th April 1993  Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation  Description: 1.3 A (B) Combustion processes within the Fuel &amp; Power Industry  <b>Status:</b> Authorisation superseded by a substantial or non substantial variationSuperseded  Positional Accuracy: Unknown</p>	A11SE (NE)	157	2	624639 307697

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	<p><b>Integrated Pollution Controls</b></p> <p>Name: Rwe Npower Plc            Location: Norwich G T Power Station, Hardy Road, NORWICH, NR1 1JR            Authority: Environment Agency, Anglian Region            Permit Reference: BA6771            Dated: 9th July 1998            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 1.3 A (B) Combustion processes within the Fuel &amp; Power Industry  <b>Status: Authorisation superseded by a substantial or non substantial variationSuperseded</b>            Positional Accuracy: Unknown</p>	A11SE (NE)	160	2	624639 307702
15	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Britvic Soft Drinks Limited            Location: Britvic Soft Drinks Norwich, Carrow Works, King Street,,, NORWICH, Norfolk, NR1 2DD            Authority: Environment Agency, Anglian Region            Permit Reference: HP3435WG            Original Permit Ref: Tp3332pm            Effective Date: 3rd June 2015  <b>Status: Effective</b>            Application Type: Variation            App. Sub Type: Standard            Positional Accuracy: Located by supplier to within 100m            Activity Code: 6.8 A(1) (D) (II)            Activity Description: Animal, Vegetable &amp; Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day            Primary Activity: N            Activity Code: 6.8 A(1) (D) (II)            Activity Description: Animal, Vegetable &amp; Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day            Primary Activity: Y</p>	A6NE (S)	0	2	624220 307200
16	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Britvic Soft Drinks Limited            Location: Robinsons Soft Drinks Norwich, Robinson Soft Drinks, Carrow,, NORWICH, Norfolk, NR1 2DD            Authority: Environment Agency, Anglian Region            Permit Reference: NP3836KF            Original Permit Ref: Tp3332pm            Effective Date: 29th July 2010  <b>Status: Superseded By Variation</b>            Application Type: Variation            App. Sub Type: Simple Standard Variation            Positional Accuracy: Manually positioned within the geographical locality            Activity Code: 6.8 A(1) (D) (II)            Activity Description: Animal, Vegetable &amp; Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day            Primary Activity: Y            Activity Code: 6.8 A(1) (D) (II)            Activity Description: Animal, Vegetable &amp; Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day            Primary Activity: N</p>	A10SE (NW)	0	2	624124 307490
17	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Britvic Soft Drinks Limited            Location: Robinsons Soft Drinks Norwich, Robinson Soft Drinks, Carrow,, NORWICH, Norfolk, NR1 2DD            Authority: Environment Agency, Anglian Region            Permit Reference: Tp3332pm            Original Permit Ref: Tp3332pm            Effective Date: 8th November 2005  <b>Status: Superseded By Variation</b>            Application Type: Application            App. Sub Type: New            Positional Accuracy: Manually positioned to the address or location            Activity Code: 6.8 A(1) (D) (II)            Activity Description: Animal, Vegetable &amp; Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day            Primary Activity: Y            Activity Code: 6.8 A(1) (D) (II)            Activity Description: Animal, Vegetable &amp; Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day            Primary Activity: N</p>	A10SE (NW)	0	2	624057 307615

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Redland Aggregates Ltd            Location: Trowse Depot, Old Station Yard, NORWICH, Norfolk, .            Authority: Norwich City Council, Environmental Health Department            Permit Reference: Epa92/5/B2/R1            Dated: 25th July 2000            Process Type: Local Authority Air Pollution Control            Description: PG3/1 Blending, packing, loading and use of bulk cement  <b>Status: Authorised</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A7NW (S)	1	3	624309 307097
18	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Lafarge Aggregates Ltd            Location: Old Station Yard, Trowse, Norwich, Norfolk, Nr1 2ee            Authority: Norwich City Council, Environmental Health Department            Permit Reference: 2007/02            Dated: 16th March 1992            Process Type: Local Authority Pollution Prevention and Control            Description: PG3/15 Mineral drying and roadstone coating processes  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A7NW (S)	17	3	624322 307079
19	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: National Power Plc            Location: Hardy Road, NORWICH, NR1 1JR            Authority: Norwich City Council, Environmental Health Department            Permit Reference: Ah4152            Dated: 23rd December 1992            Process Type: Unknown            Description: Part B process (no specific reference)  <b>Status: Authorisation revokedRevoked</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A11SE (NE)	159	3	624638 307701
20	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Laurence Scott &amp; Electromotors Ltd            Location: PO Box 25, Kerrison Road, NORWICH, Norfolk, NR1 1JA            Authority: Norwich City Council, Environmental Health Department            Permit Reference: Epa92/6/B3            Dated: 22nd March 1994            Process Type: Local Authority Air Pollution Control            Description: PG6/23 Coating of metal and plastic  <b>Status: Authorisation revokedRevoked</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A10NE (N)	222	3	624239 307829
21	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Wm Morrison Supermarkets Plc            Location: Albion Way, Riverside, NORWICH, Norfolk, NR1 1WU            Authority: Norwich City Council, Environmental Health Department            Permit Reference: 2006/13            Dated: 22nd September 1999            Process Type: Local Authority Pollution Prevention and Control            Description: PG1/14 Petrol filling station  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A10NE (NW)	319	3	623991 307966
22	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Youngs Doors Ltd            Location: City Road Works, NORWICH, Norfolk, NR1 3AN            Authority: Norwich City Council, Environmental Health Department            Permit Reference: Epa91/15/B1            Dated: 22nd October 1992            Process Type: Local Authority Air Pollution Control            Description: PG6/3 Chemical treatment of timber and wood-based products  <b>Status: Authorisation revokedRevoked</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A9SE (W)	453	3	623514 307592
23	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: J Knights            Location: Norman Buildings, Rouen Road, NORWICH, Norfolk, NR1 1QS            Authority: Norwich City Council, Environmental Health Department            Permit Reference: Epa/91/08/B1            Dated: Not Supplied            Process Type: Local Authority Air Pollution Control            Description: PG1/1 Waste oil burners, less than 0.4MW net rated thermal input  <b>Status: Authorisation revokedRevoked</b>            Positional Accuracy: Manually positioned to the address or location</p>	A10NW (NW)	471	3	623589 307865

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Malthouse Petroleum Ltd            Location: Martineau Lane, NORWICH, Norfolk, NR1 2JA            Authority: Norwich City Council, Environmental Health Department            Permit Reference: 2006/12            Dated: 12th March 1999            Process Type: Local Authority Pollution Prevention and Control            Description: PG1/14 Petrol filling station  <b>Status: Permitted</b>            Positional Accuracy: Automatically positioned to the address</p>	A6SE (SW)	487	3	623955 306760
	<p><b>Nearest Surface Water Feature</b></p>	A11SW (NE)	0	-	624456 307599
25	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Unknown            Note: River Wensum            Incident Date: 14th May 1993            Incident Reference: 1916            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A11SW (NE)	0	2	624500 307600
26	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Unknown            Note: River Wensum            Incident Date: 14th June 1992            Incident Reference: 1577            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 2 - Significant Incident            Positional Accuracy: Located by supplier to within 100m</p>	A10SE (N)	0	2	624200 307595
26	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Unknown            Note: River Wensum            Incident Date: 27th February 1992            Incident Reference: 1432            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 2 - Significant Incident            Positional Accuracy: Located by supplier to within 100m</p>	A10SE (N)	0	2	624200 307600
27	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Road            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Oils - Other Oil            Note: River Yare            Incident Date: 21st April 1994            Incident Reference: 2321            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Accidental Spillage/Leakage            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A6NE (S)	4	2	624200 307200
28	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Unknown            Note: River Wensum            Incident Date: 11th June 1993            Incident Reference: 1951            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A11SW (NE)	5	2	624400 307600



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Unknown            Note: River Wensum            Incident Date: 24th April 1992            Incident Reference: 1506            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A11SW (N)	6	2	624300 307600
30	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Unknown            Note: River Wensum            Incident Date: 17th August 1993            Incident Reference: 2034            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A11SE (NE)	75	2	624600 307600
31	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Unknown            Note: River Yare            Incident Date: 24th August 1992            Incident Reference: 1660            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 2 - Significant Incident            Positional Accuracy: Located by supplier to within 100m</p>	A11SW (NE)	105	2	624400 307700
32	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Unknown            Note: River Wensum            Incident Date: 17th September 1993            Incident Reference: 2075            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A10SW (NW)	125	2	623905 307695
32	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Unknown            Note: River Wensum            Incident Date: 30th August 1993            Incident Reference: 2044            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A10SW (NW)	127	2	623900 307695
32	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Road            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Oils - Other Oil            Note: River Wensum            Incident Date: 22nd December 1993            Incident Reference: 2174            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Collision            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A10SW (NW)	129	2	623905 307700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	<b>Pollution Incidents to Controlled Waters</b> Property Type: Ships/Boats Location: Norwich District Authority: Environment Agency, Anglian Region Pollutant: Oils - Diesel (Including Agricultural) Note: River Wensum Incident Date: 4th July 1997 Incident Reference: 3861 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10SW (NW)	130	2	623895 307695
32	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Norwich District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: River Wensum Incident Date: 14th April 1993 Incident Reference: 1872 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10SW (NW)	131	2	623900 307700
32	<b>Pollution Incidents to Controlled Waters</b> Property Type: Road Location: Norwich District Authority: Environment Agency, Anglian Region Pollutant: Chemicals - Unknown Note: River Wensum Incident Date: 5th August 1994 Incident Reference: 2493 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10SW (NW)	133	2	623905 307705
32	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Norwich District Authority: Environment Agency, Anglian Region Pollutant: Oils - Other Oil Note: River Wensum Incident Date: 21st May 1996 Incident Reference: 3345 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10SW (NW)	134	2	623895 307700
32	<b>Pollution Incidents to Controlled Waters</b> Property Type: Road Location: Norwich District Authority: Environment Agency, Anglian Region Pollutant: Oils - Other Oil Note: River Wensum Incident Date: 29th June 1995 Incident Reference: 2928 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10SW (NW)	136	2	623900 307705
32	<b>Pollution Incidents to Controlled Waters</b> Property Type: Ships/Boats Location: Norwich District Authority: Environment Agency, Anglian Region Pollutant: Oils - Diesel (Including Agricultural) Note: River Wensum Incident Date: 20th March 1996 Incident Reference: 3232 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10SW (NW)	138	2	623895 307705

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Storm Tank            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Storm Sewage            Note: River Yare            Incident Date: 4th July 1997            Incident Reference: 3859            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Ineffective Pumping            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A7SW (S)	129	2	624405 307000
33	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Surface Water Outfall            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Crude Sewage            Note: River Yare            Incident Date: 25th August 1994            Incident Reference: 2524            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A7SW (S)	130	2	624400 306995
33	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Miscellaneous - Unknown            Note: River Yare            Incident Date: 16th August 1996            Incident Reference: 3490            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A7SW (S)	132	2	624405 306995
34	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Surface Water Outfall            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Oils - Diesel (Including Agricultural)            Note: River Yare - New Cut            Incident Date: 28th July 1994            Incident Reference: 2473            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A10NE (NW)	158	2	624100 307800
35	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Ships/Boats            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Oils - Diesel (Including Agricultural)            Note: River Wensum            Incident Date: 12th May 1996            Incident Reference: 3329            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Accidental Spillage/Leakage            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A10SW (W)	167	2	623800 307600
36	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Oils - Other Oil            Note: River Wensum            Incident Date: 14th March 1995            Incident Reference: 2749            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A10SW (NW)	197	2	623805 307695

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	<b>Pollution Incidents to Controlled Waters</b> Property Type: Other General Premises Location: Norwich District Authority: Environment Agency, Anglian Region Pollutant: Oils - Other Oil Note: River Wensum Incident Date: 29th June 1995 Incident Reference: 2931 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10SW (NW)	200	2	623805 307700
36	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Norwich District Authority: Environment Agency, Anglian Region Pollutant: Oils - Other Oil Note: River Wensum Incident Date: 12th May 1994 Incident Reference: 2355 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10SW (NW)	201	2	623800 307695
36	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Norwich District Authority: Environment Agency, Anglian Region Pollutant: Oils - Waste Oil Note: River Wensum Incident Date: 13th October 1995 Incident Reference: 3083 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10SW (NW)	202	2	623805 307705
36	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Norwich District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: River Wensum Incident Date: 9th September 1992 Incident Reference: 1675 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10SW (NW)	204	2	623800 307700
37	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Applicable Location: Norwich District Authority: Environment Agency, Anglian Region Pollutant: Miscellaneous - Natural Note: River Yare Incident Date: 20th July 1996 Incident Reference: 3444 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Algal Bloom Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SW (SE)	202	2	624500 307000
38	<b>Pollution Incidents to Controlled Waters</b> Property Type: Industrial: Other Location: Norwich District Authority: Environment Agency, Anglian Region Pollutant: Oils - Other Oil Note: River Yare Incident Date: 25th April 1995 Incident Reference: 2817 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SW (S)	212	2	624400 306900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Unknown            Note: River Yare            Incident Date: 14th October 1992            Incident Reference: 1700            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A7NE (SE)	260	2	624700 307200
40	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Pumping Station            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Storm Sewage            Note: River Yare            Incident Date: 1st September 1996            Incident Reference: 3515            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Ineffective Pumping            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A7SW (SE)	266	2	624500 306900
41	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Unknown            Note: River Wensum            Incident Date: 27th September 1993            Incident Reference: 2088            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A10SW (NW)	291	2	623700 307700
42	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Domestic/Residential            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Unknown Sewage            Note: River Yare            Incident Date: 27th June 1996            Incident Reference: 3406            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Wrong Connection            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A7SW (S)	293	2	624300 306800
43	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Oils - Diesel (Including Agricultural)            Note: River Wensum            Incident Date: 18th July 1997            Incident Reference: 3880            Catchment Area: Not Given            Receiving Water: Potential River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A10NW (NW)	342	2	623805 307895
43	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Ships/Boats            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Oils - Diesel (Including Agricultural)            Note: River Wensum            Incident Date: 13th February 1997            Incident Reference: 3671            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Land Runoff            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A10NW (NW)	345	2	623800 307895

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Unknown            Note: River Wensum            Incident Date: 14th April 1993            Incident Reference: 1873            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A10NW (NW)	349	2	623800 307900
44	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Storm Tank            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Sewage Debris/Litter            Note: River Yare            Incident Date: 5th January 1998            Incident Reference: 4108            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Ineffective Pumping            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A7NE (E)	409	2	624900 307300
45	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Rail            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Chemicals - Deicing Compounds            Note: River Yare            Incident Date: 12th January 1998            Incident Reference: 4119            Catchment Area: Not Given            Receiving Water: Potential River            Cause of Incident: Accidental Spillage/Leakage            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A11NE (NE)	412	2	624800 307900
46	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Applicable            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Miscellaneous - Natural            Note: River Yare            Incident Date: 21st April 1996            Incident Reference: 3285            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Benthic Algae            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A7SE (SE)	453	2	624800 307000
47	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Storm Tank            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Storm Sewage            Note: River Yare            Incident Date: 18th July 1995            Incident Reference: 2965            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Inadequate Design/Capacity            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A12SW (E)	470	2	625001 307601
48	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Surface Water Outfall            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Oils - Diesel (Including Agricultural)            Note: River Yare            Incident Date: 5th August 1994            Incident Reference: 2492            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 2 - Significant Incident            Positional Accuracy: Located by supplier to within 100m</p>	A11NE (NE)	485	2	624900 307895

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Combined Sewer Overflow            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Oils - Other Oil            Note: River Yare            Incident Date: 9th June 1994            Incident Reference: 2407            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Blocked Sewer            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A11NE (NE)	488	2	624900 307900
49	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Engineering            Location: Norwich District            Authority: Environment Agency, Anglian Region            Pollutant: Oils - Other Oil            Note: River Wensum            Incident Date: 7th March 1994            Incident Reference: 2264            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Poor Operational Practice            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A10NW (NW)	490	2	623700 308000
	<p><b>River Quality</b></p> <p>Name: Wensum            GQA Grade: River Quality A            Reach: New Mills...Yare            Estimated Distance (km): 3            Flow Rate: Flow less than 5 cumecs            Flow Type: River            Year: 2000</p>	A11SW (N)	10	2	624287 307607
	<p><b>River Quality</b></p> <p>Name: Yare            GQA Grade: River Quality B            Reach: Earham Bridge...Trowse Mill            Estimated Distance (km): 10            Flow Rate: Flow less than 2.5 cumecs            Flow Type: River            Year: 2000</p>	A7NW (SE)	106	2	624465 307116
	<p><b>River Quality</b></p> <p>Name: Yare            GQA Grade: River Quality B            Reach: Trowse Mill...Crown Point            Estimated Distance (km): 3.5            Flow Rate: Flow less than 10 cumecs            Flow Type: River            Year: 2000</p>	A7NE (SE)	277	2	624754 307203
	<p><b>River Quality</b></p> <p>Name: Tas            GQA Grade: River Quality A            Reach: Markshall Br...R. Yare            Estimated Distance (km): 4.5            Flow Rate: Flow less than 1.25 cumecs            Flow Type: River            Year: 2000</p>	A7NE (SE)	283	2	624672 307061

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	<p><b>River Quality Chemistry Sampling Points</b></p> <p>Name: Wensum                      Reach: New Mills To Yare                      Estimated Distance: 3.00                      Objective: Not Supplied                      Positional Accuracy: Located by supplier to within 100m                      Year: 1990                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 1993                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 1994                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 1995                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 1996                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 1997                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 1998                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 1999                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2000                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2001                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2002                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 2003                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2004                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 2005                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 2006                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 2007                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2008                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2009                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied</p>	A10SW (NW)	131	2	623900 307700



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	<p><b>River Quality Chemistry Sampling Points</b></p> <p>Name: Yare                      Reach: Earlam Bridge To Trowse Mill                      Estimated Distance: 10.00                      Objective: Not Supplied                      Positional Accuracy: Located by supplier to within 100m                      Year: 1990                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 1993                      GQA Grade: River Quality Chemistry GQA Grade A - Very Good                      Compliance: Not Supplied                      Year: 1994                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 1995                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 1996                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 1997                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 1998                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 1999                      GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good                      Compliance: Not Supplied                      Year: 2000                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2001                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2002                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2003                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2004                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2005                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2006                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2007                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2008                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied                      Year: 2009                      GQA Grade: River Quality Chemistry GQA Grade B - Good                      Compliance: Not Supplied</p>	A7SW (S)	293	2	624300 306800
52	<p><b>Substantiated Pollution Incident Register</b></p> <p>Authority: Environment Agency - Anglian Region, Central Area                      Incident Date: 24th September 2003                      Incident Reference: 192085                      Water Impact: Category 2 - Significant Incident                      Air Impact: Category 4 - No Impact                      Land Impact: Category 4 - No Impact                      Positional Accuracy: Located by supplier to within 10m                      Pollutant: Pollutant Not Identified: Not Identified</p>	A10SE (NW)	30	2	624163 307650
53	<p><b>Substantiated Pollution Incident Register</b></p> <p>Authority: Environment Agency - Anglian Region, Central Area                      Incident Date: 13th July 2010                      Incident Reference: 801557                      Water Impact: Category 2 - Significant Incident                      Air Impact: Category 4 - No Impact                      Land Impact: Category 4 - No Impact                      Positional Accuracy: Located by supplier to within 10m                      Pollutant: Pollutant Not Identified: Not Identified</p>	A7NE (SE)	340	2	624697 307050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever Uk Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 109  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 1st April 2018  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever Uk Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 108  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 13th February 2017  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever Uk Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 108  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 13th February 2017  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 107  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd January 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 107  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd January 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 106  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th June 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 106  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th June 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 105  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st January 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 105  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st January 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 104  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th August 2006  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 104  Location: Bore At Carrow Works,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th August 2006  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 104  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th August 2006  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 103  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th July 2005  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 103  Location: Bore At Carrow Works,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th July 2005  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 103  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th July 2005  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore At Carrow Works,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 101  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th September 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 101  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th September 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624060 307610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 100  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: E chalk; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st May 1995  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (NW)	0	2	624060 307610
54	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 100  Location: Bore C,Block 206,Carrow Works  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: E chalk; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st May 1995  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (NW)	0	2	624060 307615
54	<p><b>Water Abstractions</b></p> <p>Operator: Reckitt &amp; Colman Food Division  Licence Number: 7/34/15/*g/154  Permit Version: Not Supplied  Location: Bore At Carrow Works, NORWICH  Authority: Environment Agency, Anglian Region  Abstraction: Industrial Processing ( Miscellaneous)  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 14  Yearly Rate (m3): 55000  Details: E chalk; Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (NW)	0	2	624065 307615
54	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*g/152  Permit Version: Not Supplied  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Unspecified  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 682  Yearly Rate (m3): 3600000  Details: Not Supplied  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (NW)	0	2	624065 307610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever UK Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 109  Location: Bore D Block 224/6b, Carrow Wks  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 1st April 2018  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (E)	0	2	624440 307430
55	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever UK Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 109  Location: Bore D Block 224/6b, Carrow Wks  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 1st April 2018  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (E)	0	2	624440 307430
55	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever UK Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 108  Location: Bore D Block 224/6b, Carrow Wks  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 13th February 2017  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (E)	0	2	624440 307430
55	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever UK Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 108  Location: Bore D Block 224/6b, Carrow Wks  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 13th February 2017  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (E)	0	2	624440 307430



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 107  Location: Bore D Block 224/6b, Carrow Wks  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd January 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (E)	0	2	624440 307430
55	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 107  Location: Bore D Block 224/6b, Carrow Wks  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd January 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (E)	0	2	624440 307430
55	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 106  Location: Bore D Block 224/6b, Carrow Wks  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th June 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (E)	0	2	624440 307430
55	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 106  Location: Bore D Block 224/6b, Carrow Wks  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th June 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (E)	0	2	624440 307430

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	<b>Water Abstractions</b> Operator: Britvic Soft Drinks Ltd Licence Number: 7/34/15/*G/0152 Permit Version: 105 Location: Bore D Block 224/6b, Carrow Wks Authority: Environment Agency, Anglian Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Carrow Works, Norwich Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (E)	0	2	624440 307430
55	<b>Water Abstractions</b> Operator: Britvic Soft Drinks Ltd Licence Number: 7/34/15/*G/0152 Permit Version: 105 Location: Bore D Block 224/6b, Carrow Wks Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Various Points At Carrow Works Norwich Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (E)	0	2	624440 307430
55	<b>Water Abstractions</b> Operator: Britvic Soft Drinks Ltd Licence Number: 7/34/15/*G/0152 Permit Version: 104 Location: Bore D Block 224/6b, Carrow Wks Authority: Environment Agency, Anglian Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Carrow Works, Norwich Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th August 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (E)	0	2	624440 307430
55	<b>Water Abstractions</b> Operator: Britvic Soft Drinks Ltd Licence Number: 7/34/15/*G/0152 Permit Version: 104 Location: Bore D Block 224/6b, Carrow Wks Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Carrow Works Norwich Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th August 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (E)	0	2	624440 307430

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 103  Location: Bore D Block 224/6b, Carrow Wks  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th July 2005  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (E)	0	2	624440 307430
55	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 103  Location: Bore D Block 224/6b, Carrow Wks  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th July 2005  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (E)	0	2	624440 307430
55	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore D Block 224/6b, Carrow Wks  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (E)	0	2	624440 307430
55	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore D Block 224/6b, Carrow Wks  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (E)	0	2	624440 307430

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore D Block 224/6b, Carrow Wks  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (E)	0	2	624440 307430
55	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 101  Location: Bore D Block 224/6b, Carrow Wrk  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th September 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (E)	0	2	624440 307430
55	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 101  Location: Bore D Block 224/6b, Carrow Wrk  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th September 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (E)	0	2	624440 307430
55	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 100  Location: Bore D Block 224/6b, Carrow Wrk  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: E chalk; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st May 1995  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A11SW (E)	0	2	624440 307430

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 100  Location: Bore D Block 224/6b, Carrow Wrk  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: E chalk; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st May 1995  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A11SW (E)	0	2	624440 307425
55	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*g/152  Permit Version: Not Supplied  Location: Bore D Block 224/6B, Carrow Wrk  Authority: Environment Agency, Anglian Region  Abstraction: Unspecified  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 682  Yearly Rate (m3): 3600000  Details: Not Supplied  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A11SW (E)	0	2	624445 307425
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever UK Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 109  Location: Bore E Block 254, Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 1st April 2018  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever UK Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 109  Location: Bore E Block 254, Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 1st April 2018  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever UK Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 109  Location: Bore A,-Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 1st April 2018  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624160 307470
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever UK Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 109  Location: Bore A,-Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 1st April 2018  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624160 307470
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever UK Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 108  Location: Bore A,-Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 13th February 2017  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624160 307470
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever UK Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 108  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 13th February 2017  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever Uk Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 108  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 13th February 2017  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever Uk Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 108  Location: Bore A,-Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 13th February 2017  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624160 307470
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 107  Location: Bore A,-Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd January 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624160 307470
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 107  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd January 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 107  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd January 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 107  Location: Bore A,-Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd January 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624160 307470
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 106  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th June 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 106  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th June 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 105  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st January 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 105  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st January 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 104  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th August 2006  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510
56	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 104  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th August 2006  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 103  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th July 2005  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510
56	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 103  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th July 2005  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510
56	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510
56	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510
56	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 101  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th September 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510
56	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 101  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th September 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624190 307510
56	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 100  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: E chalk; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st May 1995  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (NW)	0	2	624190 307510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 100  Location: Bore A,Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: E chalk; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st May 1995  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (NW)	0	2	624145 307515
56	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 100  Location: Bore E Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: E chalk; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st May 1995  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (NW)	0	2	624190 307505
56	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*g/152  Permit Version: Not Supplied  Location: Bore D Block 224/6B, Carrow Wrk  Authority: Environment Agency, Anglian Region  Abstraction: Unspecified  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 682  Yearly Rate (m3): 3600000  Details: Not Supplied  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (NW)	0	2	624195 307510
56	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*g/152  Permit Version: Not Supplied  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Unspecified  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 682  Yearly Rate (m3): 3600000  Details: Not Supplied  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (NW)	0	2	624145 307520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever Uk Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 109  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 1st April 2018  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (N)	0	2	624250 307510
57	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever Uk Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 109  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 1st April 2018  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (N)	0	2	624250 307510
57	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever Uk Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 108  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 13th February 2017  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (N)	0	2	624250 307510
57	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever Uk Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 108  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 13th February 2017  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (N)	0	2	624250 307510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 107  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd January 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (N)	0	2	624250 307510
57	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 107  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd January 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (N)	0	2	624250 307510
57	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 106  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th June 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (N)	0	2	624250 307510
57	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 106  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th June 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (N)	0	2	624250 307510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	<b>Water Abstractions</b> Operator: Britvic Soft Drinks Ltd Licence Number: 7/34/15/*G/0152 Permit Version: 105 Location: Bore F Block 107 West Authority: Environment Agency, Anglian Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Carrow Works, Norwich Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (N)	0	2	624250 307510
57	<b>Water Abstractions</b> Operator: Britvic Soft Drinks Ltd Licence Number: 7/34/15/*G/0152 Permit Version: 105 Location: Bore F Block 107 West Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Various Points At Carrow Works Norwich Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (N)	0	2	624250 307510
57	<b>Water Abstractions</b> Operator: Britvic Soft Drinks Ltd Licence Number: 7/34/15/*G/0152 Permit Version: 104 Location: Bore F Block 107 West Authority: Environment Agency, Anglian Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Carrow Works, Norwich Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th August 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (N)	0	2	624250 307510
57	<b>Water Abstractions</b> Operator: Britvic Soft Drinks Ltd Licence Number: 7/34/15/*G/0152 Permit Version: 104 Location: Bore F Block 107 West Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Carrow Works Norwich Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th August 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (N)	0	2	624250 307510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 103  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th July 2005  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (N)	0	2	624250 307510
57	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 103  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th July 2005  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (N)	0	2	624250 307510
57	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (N)	0	2	624250 307510
57	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (N)	0	2	624250 307510



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (N)	0	2	624250 307510
57	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 101  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th September 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (N)	0	2	624250 307510
57	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 101  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th September 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (N)	0	2	624250 307510
57	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 100  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: E chalk; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st May 1995  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A11SW (N)	0	2	624255 307515

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 100  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: E chalk; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st May 1995  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A11SW (N)	0	2	624250 307510
57	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*g/152  Permit Version: Not Supplied  Location: Bore D Block 224/6B, Carrow Wrk  Authority: Environment Agency, Anglian Region  Abstraction: Unspecified  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 682  Yearly Rate (m3): 3600000  Details: Not Supplied  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A11SW (N)	0	2	624255 307510
58	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever UK Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 109  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 1st April 2018  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590
58	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever UK Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 109  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 1st April 2018  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever Uk Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 108  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 13th February 2017  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590
58	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever Uk Limited  Licence Number: 7/34/15/*G/0152  Permit Version: 108  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 13th February 2017  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590
58	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 107  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd January 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590
58	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 107  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd January 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 106  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th June 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590
58	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 106  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th June 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590
58	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 105  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st January 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590
58	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 105  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st January 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 104  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th August 2006  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590
58	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 104  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th August 2006  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590
58	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 103  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th July 2005  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590
58	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 103  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th July 2005  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590
58	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590
58	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore B,Block 8a,Carrow Wks,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590
58	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 101  Location: Bore B,Block 8a,Carrow Wks,Nch  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th September 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 101  Location: Bore B,Block 8a,Carrow Wks,Nch  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th September 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624130 307590
58	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 100  Location: Bore B,Block 8a,Carrow Wks,Nch  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: E chalk; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st May 1995  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (NW)	0	2	624130 307595
58	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 100  Location: Bore B,Block 8a,Carrow Wks,Nch  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: E chalk; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st May 1995  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (NW)	0	2	624130 307590
58	<p><b>Water Abstractions</b></p> <p>Operator: Reckitt &amp; Colman Food Division  Licence Number: 7/34/15/*g/154  Permit Version: Not Supplied  Location: Bore At Carrow Works, NORWICH  Authority: Environment Agency, Anglian Region  Abstraction: Cooling  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 114  Yearly Rate (m3): 455000  Details: E chalk; Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (NW)	0	2	624135 307590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*g/152  Permit Version: Not Supplied  Location: Bore F Block 107 West  Authority: Environment Agency, Anglian Region  Abstraction: Unspecified  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 682  Yearly Rate (m3): 3600000  Details: Not Supplied  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (NW)	0	2	624135 307595
59	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Limited &amp; Unilever Uk Limited  Licence Number: 7/34/15/*S/0153  Permit Version: 106  Location: R Wensum At Carrow Works,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: River Wensum, Carrow Works, Norwich.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 13th February 2017  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (NE)	0	2	624440 307590
59	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*S/0153  Permit Version: 105  Location: R Wensum At Carrow Works,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: River Wensum, Carrow Works, Norwich.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd January 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (NE)	0	2	624440 307590
59	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*S/0153  Permit Version: 104  Location: R Wensum At Carrow Works,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich Norfolk  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st January 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (NE)	0	2	624440 307590



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*S/0153  Permit Version: 103  Location: R Wensum At Carrow Works,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th August 2006  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (NE)	0	2	624440 307590
59	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*S/0153  Permit Version: 102  Location: R Wensum At Carrow Works,Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (NE)	0	2	624440 307590
59	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*S/0153  Permit Version: 101  Location: R Wensum At Carrow Works,Nch  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th September 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11SW (NE)	0	2	624440 307590
59	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*S/0153  Permit Version: 100  Location: R Wensum At Carrow Works,Nch  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st October 1995  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A11SW (NE)	0	2	624440 307590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: An/034/0015/004  Permit Version: 2  Location: Bore At Carrow Works Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 2nd November 2015  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A7NW (S)	0	2	624263 307201
60	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: An/034/0015/004  Permit Version: 1  Location: Bore At Carrow Works Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow, Works Norwich  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 22nd January 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A7NW (S)	0	2	624260 307200
60	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0229a  Permit Version: 2  Location: Bore At Carrow Works Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th June 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A7NW (S)	0	2	624260 307200
60	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0229a  Permit Version: 1  Location: Bore At Carrow Works Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st January 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A7NW (S)	0	2	624260 307200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0229  Permit Version: 2  Location: Bore At Carrow Works Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th August 2007  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A7NW (S)	0	2	624260 307200
61	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: An/034/0015/004  Permit Version: 2  Location: Carrow Works Borehole  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 2nd November 2015  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A6NE (SW)	0	2	624161 307302
62	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 106  Location: Bore A,Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th June 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624140 307520
62	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 106  Location: Bore A,Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th June 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624140 307520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 105  Location: Bore A,Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st January 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624140 307520
62	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 105  Location: Bore A,Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Various Points At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st January 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624140 307520
62	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 104  Location: Bore A,Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th August 2006  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624140 307520
62	<p><b>Water Abstractions</b></p> <p>Operator: Britvic Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 104  Location: Bore A,Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th August 2006  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624140 307520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 103  Location: Bore A,Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works, Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th July 2005  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624140 307520
62	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 103  Location: Bore A,Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Land At Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 18th July 2005  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624140 307520
62	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore A,Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Food And Drink: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624140 307520
62	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore A,Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624140 307520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 102  Location: Bore A,Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 30th July 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624140 307520
62	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 101  Location: Bore A,Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th September 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624140 307520
62	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 101  Location: Bore A,Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Carrow Works Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th September 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SE (NW)	0	2	624140 307520
62	<p><b>Water Abstractions</b></p> <p>Operator: Robinsons Soft Drinks Ltd  Licence Number: 7/34/15/*G/0152  Permit Version: 100  Location: Bore A,Block 254,Basement West  Authority: Environment Agency, Anglian Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: E chalk; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st May 1995  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (NW)	0	2	624140 307520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	<p><b>Water Abstractions</b></p> <p>Operator: National Power Plc  Licence Number: 7/34/15/*s/170  Permit Version: Not Supplied  Location: River Wensum E Of Railway Br  Authority: Environment Agency, Anglian Region  Abstraction: Cooling  Abstraction Type: Not Supplied  Source: Stream  Daily Rate (m3): 242  Yearly Rate (m3): 15000000  Details: Not Supplied  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A11SW (NE)	82	2	624580 307650
64	<p><b>Water Abstractions</b></p> <p>Operator: Anglian Water Services Limited  Licence Number: 7/34/15/*S/0198  Permit Version: 100  Location: River Yare - Trowse Newton  Authority: Environment Agency, Anglian Region  Abstraction: Water supply related: General Washing/Process Washing  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 15th August 1990  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A7SW (S)	125	2	624400 307000
65	<p><b>Water Abstractions</b></p> <p>Operator: Anglian Water Services Limited  Licence Number: 7/34/15/*S/0198  Permit Version: 102  Location: River Yare - Trowse Newton  Authority: Environment Agency, Anglian Region  Abstraction: Water supply related: General Washing/Process Washing  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Trowse Newton. Lh To Install Meter Within 3yrs Of This Lic.  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 6th November 2014  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A7NW (SE)	146	2	624490 307080
65	<p><b>Water Abstractions</b></p> <p>Operator: Anglian Water Services Limited  Licence Number: 7/34/15/*S/0198  Permit Version: 101  Location: River Yare - Trowse Newton  Authority: Environment Agency, Anglian Region  Abstraction: Water supply related: General Washing/Process Washing  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Trowse Newton. Lh To Install Meter Within 3yrs Of This Lic.  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 6th October 2009  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A7NW (SE)	146	2	624490 307080

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	<p><b>Water Abstractions</b></p> <p>Operator: W A Dawson Ltd  Licence Number: 7/34/14*/s/105  Permit Version: Not Supplied  Location: River Yare Near Bridge At Trowse  Authority: Environment Agency, Anglian Region  Abstraction: Industrial Processing ( Miscellaneous)  Abstraction Type: Not Supplied  Source: Stream  Daily Rate (m3): 9  Yearly Rate (m3): 5000000  Details: Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SE)	149	2	624505 307100
66	<p><b>Water Abstractions</b></p> <p>Operator: Norwich City Football Club Plc  Licence Number: 7/34/15*/G/0199  Permit Version: 101  Location: Chalk Borehole -Carrow Road  Authority: Environment Agency, Anglian Region  Abstraction: General Agriculture: Spray Irrigation - Direct  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 10th March 2016  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10NE (NW)	182	2	624010 307830
66	<p><b>Water Abstractions</b></p> <p>Operator: Norwich City Football Club Plc  Licence Number: 7/34/15*/G/0199  Permit Version: 100  Location: Chalk Borehole -Carrow Road  Authority: Environment Agency, Anglian Region  Abstraction: General Agriculture: Spray Irrigation - Direct  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st April 2011  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10NE (NW)	182	2	624010 307830
67	<p><b>Water Abstractions</b></p> <p>Operator: R J Read Ltd  Licence Number: 7/34/15*/g/157  Permit Version: Not Supplied  Location: Bore At King St, NORWICH  Authority: Environment Agency, Anglian Region  Abstraction: Industrial Processing ( Miscellaneous)  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 2  Yearly Rate (m3): 36000  Details: E chalk; Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10NW (NW)	254	2	623830 307800



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	<p><b>Water Abstractions</b></p> <p>Operator: Boulton &amp; Paul Ltd  Licence Number: 7/34/15/*g/171  Permit Version: Not Supplied  Location: Bore At Riverside Works, NORWICH  Authority: Environment Agency, Anglian Region  Abstraction: Cooling  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 5  Yearly Rate (m3): 16000  Details: E chalk; Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10NE (NW)	271	2	623980 307915
69	<p><b>Water Abstractions</b></p> <p>Operator: Innogy Plc  Licence Number: 7/34/15/*S/0170  Permit Version: 101  Location: R Wensum E Of Railway Br  Authority: Environment Agency, Anglian Region  Abstraction: Production Of Energy: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 20th July 2000  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A11SE (NE)	274	2	624770 307705
69	<p><b>Water Abstractions</b></p> <p>Operator: Rwe Generation Uk Plc  Licence Number: 7/34/15/*S/0170  Permit Version: 104  Location: R Wensum E Of Railway Bridge, Norwich  Authority: Environment Agency, Anglian Region  Abstraction: Production Of Energy: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 12th October 2015  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11NE (NE)	276	2	624770 307710
69	<p><b>Water Abstractions</b></p> <p>Operator: Rwe Npower Plc  Licence Number: 7/34/15/*S/0170  Permit Version: 103  Location: R Wensum E Of Railway Br  Authority: Environment Agency, Anglian Region  Abstraction: Production Of Energy: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 2nd August 2004  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11NE (NE)	276	2	624770 307710

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	<p><b>Water Abstractions</b></p> <p>Operator: Rwe Innogy Plc  Licence Number: 7/34/15/*S/0170  Permit Version: 102  Location: R Wensum E Of Railway Br  Authority: Environment Agency, Anglian Region  Abstraction: Production Of Energy: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Norwich  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st October 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A11NE (NE)	276	2	624770 307710
70	<p><b>Water Abstractions</b></p> <p>Operator: Norfolk Haulage Co Ltd  Licence Number: 7/34/15/*s/160  Permit Version: Not Supplied  Location: River Yare At Trowse, TROWSE NEWTON  Authority: Environment Agency, Anglian Region  Abstraction: Industrial Processing ( Miscellaneous)  Abstraction Type: Not Supplied  Source: Stream  Daily Rate (m3): 1  Yearly Rate (m3): 5000  Details: Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A7NE (SE)	295	2	624650 307060
71	<p><b>Water Abstractions</b></p> <p>Operator: Boulton &amp; Paul Ltd  Licence Number: 7/34/15/*g/171  Permit Version: Not Supplied  Location: Bore At Riverside Works, NORWICH  Authority: Environment Agency, Anglian Region  Abstraction: Cooling  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 6  Yearly Rate (m3): 20000  Details: E chalk; Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10NE (N)	320	2	624070 307970
72	<p><b>Water Abstractions</b></p> <p>Operator: Boulton &amp; Paul Ltd  Licence Number: 7/34/15/*g/171  Permit Version: Not Supplied  Location: Bore At Riverside Works, NORWICH  Authority: Environment Agency, Anglian Region  Abstraction: Cooling  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 1  Yearly Rate (m3): 3000  Details: E chalk; Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10NE (NW)	337	2	623950 307975

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	<p><b>Water Abstractions</b></p> <p>Operator: May Gurney (Construction) Ltd  Licence Number: 7/34/15/*s/221  Permit Version: Not Supplied  Location: River Wensum, Norwich Riverside Dev  Authority: Environment Agency, Anglian Region  Abstraction: Spray Irrigation  Abstraction Type: Not Supplied  Source: Stream  Daily Rate (m3): 5  Yearly Rate (m3): 20000  Details: Status: Temporary  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10NW (NW)	376	2	623760 307900
74	<p><b>Water Abstractions</b></p> <p>Operator: Boulton &amp; Paul Ltd  Licence Number: 7/34/15/*g/171  Permit Version: Not Supplied  Location: Bore At Riverside Works, NORWICH  Authority: Environment Agency, Anglian Region  Abstraction: Cooling  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 6  Yearly Rate (m3): 20000  Details: E chalk; Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10NW (NW)	426	2	623850 308030
75	<p><b>Water Abstractions</b></p> <p>Operator: Norfolk Ski Club Ltd  Licence Number: 7/34/15/*G/0216  Permit Version: 100  Location: Borehole At Whitlingham Lane  Authority: Environment Agency, Anglian Region  Abstraction: Sports Grounds/Facilities: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: E chalk; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st April 2015  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A7NE (SE)	483	2	624900 307100
	<p><b>Water Abstractions</b></p> <p>Operator: Eastern Gas Board  Licence Number: 7/34/15/*g/052  Permit Version: Not Supplied  Location: Bore At Cremorne Lane, NORWICH  Authority: Environment Agency, Anglian Region  Abstraction: Cooling  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 23  Yearly Rate (m3): 91000  Details: E chalk; Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A11NE (NE)	539	2	624900 307980

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: C W Chapman  Licence Number: 7/34/15/*g/023  Permit Version: Not Supplied  Location: Well At Old Hall Farm, TROWSE NEWTON  Authority: Environment Agency, Anglian Region  Abstraction: Agriculture (General)  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 2  Yearly Rate (m3): 7000  Details: E chalk; Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A3NW (S)	600	2	624490 306520
	<p><b>Water Abstractions</b></p> <p>Operator: British Gas Plc (Eastern)  Licence Number: 7/34/15/*s/209  Permit Version: Not Supplied  Location: River Yare, NORWICH  Authority: Environment Agency, Anglian Region  Abstraction: Industrial Processing ( Miscellaneous)  Abstraction Type: Not Supplied  Source: Stream  Daily Rate (m3): 22  Yearly Rate (m3): 600000  Details: Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A12NW (NE)	613	2	625100 307800
	<p><b>Water Abstractions</b></p> <p>Operator: Norwich Brewery Ltd  Licence Number: 7/34/15/**/174  Permit Version: Not Supplied  Location: Bore At King Saint Old Brewery  Authority: Environment Agency, Anglian Region  Abstraction: Industrial Processing ( Miscellaneous)  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 121  Yearly Rate (m3): 332000  Details: E chalk; Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A13SE (NW)	721	2	623530 308160
	<p><b>Water Abstractions</b></p> <p>Operator: Watney Mann (East Anglia) Ltd  Licence Number: 7/34/15/*g/130  Permit Version: Not Supplied  Location: Bore At King Saint Old Brewery  Authority: Environment Agency, Anglian Region  Abstraction: Industrial Processing ( Miscellaneous)  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 295  Yearly Rate (m3): 1818000  Details: E chalk; Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A13SE (NW)	807	2	623450 308205

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Norwich Brewery Ltd  Licence Number: 7/34/15/**/174  Permit Version: Not Supplied  Location: Bore At King Saint Old Brewery  Authority: Environment Agency, Anglian Region  Abstraction: Industrial Processing ( Miscellaneous)  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 121  Yearly Rate (m3): 332000  Details: E chalk; Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A13SE (NW)	810	2	623450 308210
	<p><b>Water Abstractions</b></p> <p>Operator: Watney Mann (East Anglia) Ltd  Licence Number: 7/34/15/*g/130  Permit Version: Not Supplied  Location: Bore At King Saint Old Brewery  Authority: Environment Agency, Anglian Region  Abstraction: Industrial Processing ( Miscellaneous)  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 295  Yearly Rate (m3): 1818000  Details: E chalk; Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A13SE (NW)	831	2	623460 308245
	<p><b>Water Abstractions</b></p> <p>Operator: Norwich Brewery Ltd  Licence Number: 7/34/15/**/174  Permit Version: Not Supplied  Location: Bore At King Saint Old Brewery  Authority: Environment Agency, Anglian Region  Abstraction: Industrial Processing ( Miscellaneous)  Abstraction Type: Not Supplied  Source: Well And Borehole  Daily Rate (m3): 121  Yearly Rate (m3): 332000  Details: E chalk; Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A13SE (NW)	835	2	623460 308250
	<p><b>Groundwater Vulnerability</b></p> <p>Soil Classification: Soils of Intermediate Leaching Potential (I2) - Soils which can possibly transmit non or weakly absorbed pollutants and liquid discharges but are unlikely to transmit absorbed pollutants  Map Sheet: Sheet 26 East Norfolk  Scale: 1:100,000</p>	A7NW (SE)	0	2	624310 307317
	<p><b>Groundwater Vulnerability</b></p> <p>Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise  Map Sheet: Sheet 26 East Norfolk  Scale: 1:100,000</p>	A11SW (S)	0	2	624264 307425
	<p><b>Drift Deposits</b></p> <p>None</p>				
	<p><b>Bedrock Aquifer Designations</b></p> <p>Aquifer Designation: Principal Aquifer</p>	A11SW (S)	0	1	624264 307425
	<p><b>Superficial Aquifer Designations</b></p> <p>Aquifer Designation: Secondary Aquifer - A</p>	A11SW (S)	0	1	624264 307425

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	<b>Source Protection Zones</b> Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A11SW (S)	0	2	624264 307425
77	<b>Source Protection Zones</b> 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.	A11SW (S)	0	2	624264 307425
78	<b>Source Protection Zones</b> 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.	A11SW (S)	0	2	624264 307425
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A11SW (N)	0	2	624274 307599
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (N)	0	2	624274 307599
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	3	2	624513 307607
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	6	2	624518 307602
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	21	2	624533 307602
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (N)	25	2	624308 307634
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SW (N)	25	2	624279 307630
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	28	2	624538 307612
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	30	2	624543 307602
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	35	2	624568 307562
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SW (NE)	35	2	624567 307572
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	38	2	624548 307612

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	40	2	624572 307573
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (SE)	84	2	624555 307302
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (SE)	92	2	624450 307117
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (SE)	94	2	624445 307107
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (SE)	94	2	624455 307122
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (SE)	96	2	624440 307097
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A7NW (SE)	96	2	624455 307118
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (E)	99	2	624575 307312
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NW (SE)	101	2	624460 307118
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (SE)	102	2	624530 307177
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (SE)	105	2	624465 307117
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (E)	113	2	624590 307313
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	114	2	624595 307322
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NW (SE)	116	2	624475 307113
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	117	2	624600 307332
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (E)	119	2	624600 307323

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	125	2	623952 307735
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	133	2	624615 307327
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (E)	139	2	624620 307323
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (E)	145	2	624625 307318
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NE (NW)	146	2	623933 307744
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	147	2	623931 307744
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (SE)	148	2	624470 307052
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (SE)	148	2	624475 307057
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NW (SE)	149	2	624480 307062
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7SW (SE)	150	2	624455 307022
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	150	2	624630 307317
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (SE)	151	2	624465 307042
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NW (SE)	151	2	624475 307053
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7SW (SE)	152	2	624460 307032
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NW (SE)	153	2	624470 307044
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7SW (SE)	154	2	624451 307012



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7SW (SE)	155	2	624460 307025
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NW (SE)	155	2	624465 307034
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (SE)	157	2	624509 307076
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (E)	160	2	624640 307313
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7SW (S)	161	2	624415 306966
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A7SW (S)	162	2	624415 306966
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NW (SE)	162	2	624575 307188
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A10NW (NW)	163	2	623890 307731
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (SE)	164	2	624580 307192
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (E)	164	2	624645 307318
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (SE)	165	2	624585 307197
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (SE)	168	2	624595 307207
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	168	2	624650 307322
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (SE)	169	2	624615 307237
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (SE)	169	2	624590 307198
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (SE)	170	2	624620 307242

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (SE)	172	2	624610 307222
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	172	2	624655 307332
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	173	2	624670 307367
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	173	2	623903 307750
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (SE)	173	2	624605 307213
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NW (NW)	174	2	623903 307751
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (SE)	174	2	624625 307243
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	175	2	623877 307737
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (SE)	176	2	624635 307257
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (SE)	176	2	624640 307267
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	176	2	624660 307342
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	176	2	623903 307755
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (SE)	176	2	624630 307248
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (E)	177	2	624675 307368
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	179	2	624680 307372
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (E)	180	2	624665 307343

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7SW (S)	182	2	624375 306922
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NW (NW)	183	2	623898 307759
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SE (E)	183	2	624685 307373
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NW (NW)	186	2	623895 307762
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7SW (S)	188	2	624440 306952
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SE (E)	188	2	624692 307378
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	189	2	623867 307747
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SE (E)	190	2	624697 307383
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	191	2	623893 307768
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	193	2	624702 307387
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	195	2	623862 307752
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	202	2	624728 307452
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	202	2	623857 307757
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SE (E)	202	2	624712 307388
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	204	2	624717 307397
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	204	2	624727 307425

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	206	2	624722 307407
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	209	2	623852 307762
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7SW (S)	210	2	624413 306907
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	216	2	623847 307767
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	216	2	623873 307783
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7SW (S)	222	2	624327 306871
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	223	2	623842 307772
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	223	2	623868 307788
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SE (E)	226	2	624753 307467
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	230	2	623837 307777
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	230	2	623863 307793
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (SE)	236	2	624620 307122
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	237	2	623832 307782
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	237	2	623858 307798
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	240	2	624768 307463
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SE (NE)	241	2	624738 307695

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7SW (S)	242	2	624306 306850
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A7SW (S)	243	2	624306 306850
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	244	2	623853 307803
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A11SE (NE)	245	2	624741 307697
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	0	2	624468 307592
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A11SW (N)	0	2	624274 307599
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10SE (NW)	4	2	624043 307655
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	11	2	624523 307603
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10SE (NW)	19	2	624028 307660
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	25	2	624368 307627
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10SE (NW)	30	2	624018 307665
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10SE (NW)	41	2	624008 307670
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	44	2	624578 307577
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10SE (NW)	52	2	623998 307675
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	70	2	624603 307537
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (NE)	94	2	624593 307653

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NW (SE)	96	2	624455 307118
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (NE)	97	2	624628 307588
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	106	2	624638 307577
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10SE (NW)	112	2	623943 307700
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (NE)	120	2	624617 307659
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (NE)	130	2	624627 307663
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	145	2	623909 307720
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (NE)	151	2	624647 307669
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A7SW (S)	161	2	624415 306966
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A10NW (NW)	163	2	623890 307731
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (NE)	167	2	624662 307674
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	186	2	624713 307462
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	195	2	623888 307768
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	200	2	624727 307473
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	202	2	623883 307773
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	202	2	624728 307452

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	209	2	623878 307778
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	215	2	624743 307468
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	216	2	623873 307783
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	223	2	623868 307788
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	230	2	623863 307793
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (NE)	234	2	624753 307647
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	237	2	623858 307798
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	238	2	623832 307782
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	240	2	624768 307463
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A7SW (S)	242	2	624306 306850
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10NW (NW)	244	2	623853 307803
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				
79	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 3025.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Wensum Catchment Name: Wensum and Yare Primacy: 1	A11SW (N)	11	4	624288 307609
80	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 35.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NW (SE)	114	4	624560 307251

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 57.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NW (SE)	115	4	624564 307258
82	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 37.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NW (SE)	117	4	624480 307121
83	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 76.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7NW (SE)	118	4	624546 307223
84	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 101.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NW (SE)	118	4	624546 307223
85	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 101.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7NE (E)	122	4	624597 307305
86	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 217.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NE (E)	122	4	624597 307305
87	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 271.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A11SE (E)	141	4	624641 307380
88	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 169.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A11SE (E)	141	4	624652 307401
89	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NW (SE)	154	4	624514 307106



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 157.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 1	A7NW (SE)	155	4	624511 307093
91	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 11.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NW (SE)	155	4	624515 307106
92	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 210.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 1	A7NW (SE)	166	4	624525 307099
93	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 17.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 1	A7SW (S)	166	4	624434 306975
94	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 162.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 2	A7SW (S)	168	4	624422 306963
95	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 45.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 1	A7SW (S)	168	4	624422 306963
96	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 191.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 1	A7SW (S)	199	4	624414 306921
97	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 50.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7SW (S)	199	4	624414 306921
98	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 66.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7NE (SE)	216	4	624641 307188

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 30.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NE (SE)	216	4	624641 307188
100	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 21.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7NE (E)	221	4	624687 307263
101	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 23.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7NE (E)	223	4	624690 307264
102	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 76.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7NE (E)	235	4	624696 307249
103	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 19.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7NE (E)	235	4	624696 307249
104	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 121.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7SW (S)	238	4	624454 306900
105	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 17.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7NE (E)	246	4	624711 307254
106	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 114.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NE (SE)	246	4	624669 307178
107	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 64.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 2	A7SW (S)	248	4	624313 306845

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 85.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A11SE (E)	262	4	624772 307373
109	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 115.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NE (E)	264	4	624727 307247
110	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 9.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NE (E)	264	4	624727 307247
111	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 90.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NE (E)	264	4	624731 307256
112	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 93.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A11SE (E)	265	4	624791 307456
113	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 202.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NE (E)	277	4	624772 307337
114	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 246.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7SE (SE)	292	4	624650 307011
115	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 166.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7SW (SE)	292	4	624549 306913
116	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 63.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A11NE (NE)	293	4	624742 307786

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 196.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 1	A7SW (S)	302	4	624280 306792
118	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 133.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7SW (S)	313	4	624402 306794
119	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 52.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7SW (S)	313	4	624402 306794
120	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 25.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A11SE (E)	319	4	624839 307413
121	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 21.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A11SE (E)	320	4	624833 307379
122	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 462.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 1	A11SE (E)	324	4	624860 307513
123	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 23.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NE (E)	341	4	624847 307351
124	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 34.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A11SE (E)	341	4	624853 307374
125	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 18.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A11SE (E)	344	4	624863 307407

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 10.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NE (SE)	346	4	624733 307092
127	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 24.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 1	A7NE (SE)	346	4	624733 307092
128	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7SW (S)	348	4	624450 306773
129	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 17.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7SW (S)	350	4	624453 306773
130	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 9.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NE (SE)	354	4	624777 307146
131	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 157.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A11NE (NE)	356	4	624789 307828
132	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 12.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A11SE (E)	356	4	624879 307431
133	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 16.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7SW (S)	357	4	624470 306773
134	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 10.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NE (SE)	361	4	624756 307100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
135	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 52.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 1	A7NE (SE)	361	4	624756 307100
136	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 74.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 1	A7NE (SE)	364	4	624786 307142
137	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 115.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NE (SE)	366	4	624755 307089
138	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 113.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 1	A11SE (E)	368	4	624892 307434
139	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 21.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7SW (S)	373	4	624476 306758
140	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 60.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7SW (S)	373	4	624476 306758
141	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NE (E)	379	4	624833 307201
142	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 38.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 1	A7NE (E)	387	4	624837 307192
143	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 111.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7SW (S)	388	4	624271 306707

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
144	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 176.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7SW (S)	389	4	624310 306704
145	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 73.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7SW (S)	392	4	624477 306737
146	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 92.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7SW (S)	392	4	624477 306737
147	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 7.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A7NE (E)	396	4	624897 307329
148	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 109.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7SE (SE)	397	4	624652 306872
149	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 60.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7SE (SE)	400	4	624710 306950
150	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 118.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 1	A7NE (E)	403	4	624868 307214
151	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 277.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7SE (SE)	405	4	624618 306822
152	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 24.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7NE (E)	408	4	624868 307214

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 48.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7SE (SE)	414	4	624706 306922
154	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 86.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A12SW (E)	417	4	624945 307470
155	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 268.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A7NE (E)	417	4	624869 307190
156	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A12SW (E)	423	4	624951 307469
157	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 38.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A12SW (E)	426	4	624953 307470
158	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 26.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A2NE (S)	446	4	624206 306658
159	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 202.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A2NE (S)	447	4	624231 306652
160	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 2	A3NW (S)	457	4	624469 306664
161	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 66.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A3NW (S)	458	4	624473 306664



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A12SW (E)	463	4	624991 307472
163	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 25.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A2NE (S)	476	4	624165 306639
164	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 9.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A2NE (S)	476	4	624165 306639
165	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 92.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Yare Catchment Name: Wensum and Yare Primacy: 1	A2NE (S)	482	4	624170 306631
166	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 209.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A2NE (S)	483	4	624189 306625
167	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 41.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A2NE (S)	489	4	624086 306658
168	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 25.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A2NE (S)	490	4	624141 306632
169	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 215.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wensum and Yare Primacy: 1	A11NE (NE)	494	4	624863 307953

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Local Authority Landfill Coverage</b> Name: Norfolk County Council - Has supplied landfill data		0	6	624264 307425
	<b>Local Authority Landfill Coverage</b> Name: Norwich City Council - Has supplied landfill data		0	5	624264 307425
	<b>Local Authority Landfill Coverage</b> Name: South Norfolk District Council - Has no landfill data to supply		144	7	624501 307103
170	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11NW (NE)	126	-	624548 307729
171	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1908	A10NE (N)	231	-	624161 307858
172	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11NE (NE)	280	-	624738 307770
173	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1908	A10NE (N)	321	-	624180 307947
174	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11NE (NE)	345	-	624783 307819
175	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1957	A6SE (SW)	465	-	623931 306813
176	<b>Registered Waste Treatment or Disposal Sites</b> Licence Holder: Bryer Services Ltd Licence Reference: NFK/TS/030/0 Site Location: 1 City Road, NORWICH, Norfolk, NR1 3AJ Operator Location: As Site Address Authority: Environment Agency - Anglian Region, Eastern Area Site Category: Storage Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: Some restriction on source of waste Restrictions: Licence Status: Licence known to be surrenderedSurrendered Dated: 3rd September 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Max.Storage Waste Cellulose Paint Thinners Prohibited Waste: Liable To Cause Environmental Hazards	A9SE (W)	422	2	623550 307650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
177	<p><b>Planning Hazardous Substance Consents</b></p> <p>Name: Not Supplied            Location: Holder Station, Cremorne Lane, Norwich, NR1 1TZ            Authority: Norwich City Council            Application Ref: 4/2001/0885            Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not)            Maximum Quantity: 0            Application date: 25th September 2001  <b>Decision: Application revoked or cancelledCancelled</b>            Positional Accuracy: Manually positioned to the address or location</p>	A11NE (NE)	390	5	624790 307879
177	<p><b>Planning Hazardous Substance Consents</b></p> <p>Name: Not Supplied            Location: Cremorne Lane Holder Station, Cremorne Lane, Norwich, NR1 1TZ            Authority: Norwich City Council            Application Ref: 4/2000/0293            Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not)            Maximum Quantity: 0            Application date: 4th April 2000  <b>Decision: Application revoked or cancelledCancelled</b>            Positional Accuracy: Manually positioned to the address or location</p>	A11NE (NE)	390	5	624790 307879
177	<p><b>Planning Hazardous Substance Consents</b></p> <p>Name: British Gas Plc            Location: Cremorne Lane Holder Station, NORWICH, Norfolk, NR12 0JD            Authority: Norwich City Council            Application Ref: 4/1900/9201            Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not)            Maximum Quantity: 44.97            Application date: 16th November 1992  <b>Decision: Deemed Consent GrantedGranted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A11NE (NE)	390	5	624790 307879

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: White Chalk Subgroup	A11SW (S)	0	1	624264 307425
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 20 - 40 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: <15 mg/kg	A10SE (W)	0	1	624000 307500
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A11SW (E)	0	1	624500 307425
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 20 - 40 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: <15 mg/kg	A11SW (S)	0	1	624264 307425
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SW (S)	93	1	624273 307000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: <15 mg/kg	A10SW (W)	159	1	623826 307500
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: <15 mg/kg	A6NE (W)	160	1	623931 307298

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic &lt;15 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 20 - 40 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 300 - 600 mg/kg</p> <p>Nickel &lt;15 mg/kg</p> <p>Concentration:</p>	A11NW (N)	349	1	624264 308000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic &lt;15 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 20 - 40 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 600 - 1200 mg/kg</p> <p>Nickel &lt;15 mg/kg</p> <p>Concentration:</p>	A10NE (NW)	352	1	624000 308000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic &lt;15 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 20 - 40 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 200 - 300 mg/kg</p> <p>Nickel &lt;15 mg/kg</p> <p>Concentration:</p>	A11NW (N)	392	1	624500 308000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic &lt;15 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 40 - 60 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A6SE (SW)	408	1	623913 306881
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic &lt;15 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 40 - 60 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 200 - 300 mg/kg</p> <p>Nickel &lt;15 mg/kg</p> <p>Concentration:</p>	A9SE (W)	466	1	623500 307500
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic &lt;15 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 20 - 40 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 200 - 300 mg/kg</p> <p>Nickel &lt;15 mg/kg</p> <p>Concentration:</p>	A9NE (W)	492	1	623500 307738

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	<b>BGS Recorded Mineral Sites</b> Site Name: Martineau Lane Chalk Mine Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 220312 Type: Underground <b>Status: Ceased</b> Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A6NE (S)	36	1	624186 307171
179	<b>BGS Recorded Mineral Sites</b> Site Name: Trowse Rail Depot Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 10759 Type: Rail Depot <b>Status: Active</b> Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Not Available Geology: Quarry (Hard Rock) Commodity: Crushed Rock Positional Accuracy: Located by supplier to within 10m	A7NW (SE)	55	1	624455 307200
180	<b>BGS Recorded Mineral Sites</b> Site Name: Norwich Chalk Mine Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 220271 Type: Underground <b>Status: Ceased</b> Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	343	1	623699 307798
181	<b>BGS Recorded Mineral Sites</b> Site Name: Norwich Station Rail Depot Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 29605 Type: Rail Depot <b>Status: Ceased</b> Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Carboniferous Limestone Supergroup From Dove Holes Commodity: Crushed Rock Positional Accuracy: Located by supplier to within 10m	A11NW (N)	419	1	624285 308020
	<b>BGS Measured Urban Soil Chemistry</b> No data available				
	<b>BGS Urban Soil Chemistry Averages</b> No data available				
	<b>Coal Mining Affected Areas</b> In an area that might not be affected by coal mining				
	<b>Mining Instability</b> Mining Evidence: Conclusive Rock Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A11SW (S)	0	-	624264 307425
	<b>Man-Made Mining Cavities</b> Easting: 624200 Northing: 307200 Distance: 4 Quadrant Reference: A6 Quadrant Reference: NE Bearing Ref: S Cavity Type: 3x Shafts with Galleries discovered Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: River Terrace Deposits Detail:	A6NE (S)	4	9	624200 307200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Man-Made Mining Cavities</b> Easting: 624100 Northing: 307100 Distance: 146 Quadrant Reference: A6 Quadrant Reference: NE Bearing Ref: SW Cavity Type: Chalk Mining-Details Unknown Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology No Details Detail:	A6NE (SW)	146	9	624100 307100
	<b>Man-Made Mining Cavities</b> Easting: 623900 Northing: 307400 Distance: 162 Quadrant Reference: A10 Quadrant Reference: SW Bearing Ref: W Cavity Type: Chalk Mining-Details Unknown Commodity: Chalk Solid Geology Detail: Norwich Crag Formation, Upper Chalk Formation Superficial Geology Norwich Brickearth Detail:	A10SW (W)	162	9	623900 307400
	<b>Man-Made Mining Cavities</b> Easting: 623600 Northing: 307800 Distance: 426 Quadrant Reference: A10 Quadrant Reference: NW Bearing Ref: NW Cavity Type: Shaft Discovered Commodity: Unknown Solid Geology Detail: Norwich Crag Formation, Upper Chalk Formation Superficial Geology No Details Detail:	A10NW (NW)	426	9	623600 307800
	<b>Natural Cavities</b> Easting: 624150 Northing: 307200 Distance: 40 Quadrant Reference: A6 Quadrant Reference: NE Bearing Ref: SW Cavity Type: Solution Pipe x 4 Solid Geology Detail: Chalk Group Superficial Geology No Details Detail:	A6NE (SW)	40	9	624150 307200
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	1	624194 307352
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	624264 307425
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	0	1	624199 307220
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	0	1	624214 307268
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A11SW (N)	0	1	624260 307456
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	2	1	624027 307425
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	16	1	624126 307251
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	141	1	623898 307407

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A6SE (S)	205	1	624112 307000
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	624323 307556
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	624264 307425
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	624264 307425
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	624323 307556
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	624178 307435
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	1	624258 307175
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	0	1	624241 307399
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SW (NW)	0	1	624250 307435
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10SE (NW)	0	1	624054 307578
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (SE)	0	1	624330 307369
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	1	624285 307329
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	624264 307425
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (NW)	0	1	624210 307521
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	624182 307410
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	1	624269 307426
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	0	1	624229 307406
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	30	1	624226 307134
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (N)	59	1	624230 307675
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	98	1	624164 307101
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6SE (S)	134	1	624205 307010



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NW (NW)	197	1	623841 307738
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	624182 307410
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	624264 307425
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (NW)	0	1	624052 307649
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	624323 307556
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	624264 307425
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	624182 307410
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	624323 307556
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	624264 307425
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NE (W)	159	1	623931 307298
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	624264 307425
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	624264 307425

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
182	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Britvic Soft Drinks Ltd            Location: Carrow Works, Bracondale, Norwich, NR1 2DD            Classification: Soft Drinks - Manufacturers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A6NE (S)	0	-	624243 307232
182	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Unilever Best Foods Uk            Location: Carrow Works, Bracondale, NORWICH, NR1 2DD            Classification: Food Products - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A6NE (S)	0	-	624243 307232
183	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Uni-Lever            Location: Carrow Works, Bracondale, Norwich, NR1 2DD            Classification: Food Products - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A10SE (NW)	0	-	623982 307565
183	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Robinsons Soft Drinks Ltd            Location: Carrow Works, Bracondale, Norwich, NR1 2DD            Classification: Soft Drinks - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A10SE (NW)	0	-	623982 307565
184	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Paul Hitchings Ltd            Location: Old Station Yard, Bracondale, Norwich, NR1 2EE            Classification: Furniture Manufacturers - Home &amp; Office  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NW (S)	16	-	624322 307079
184	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: B E Wilde            Location: 4-5, The Arches, Bracondale, Norwich, NR1 2EF            Classification: Sheet Metal Work  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NW (S)	16	-	624322 307079
184	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: F C Walker            Location: 10, The Arches, Bracondale, Norwich, NR1 2EE            Classification: Sheet Metal Work  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NW (S)	16	-	624322 307079
184	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Lafarge Aggregates Ltd            Location: Old Station Yard, Bracondale, Norwich, NR1 2EE            Classification: Asphalt &amp; Macadam Suppliers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NW (S)	16	-	624322 307079
185	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Ben Burgess Norwich            Location: 38, Europa Way, Martineau Lane, Norwich, NR1 2EA            Classification: Agricultural Engineers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A6NE (S)	68	-	624248 307068
185	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Ben Burgess &amp; Co Ltd            Location: 38, Europa Way, Martineau Lane, Norwich, NR1 2EA            Classification: Agricultural Engineers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A6NE (S)	68	-	624248 307068
185	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Thomas Wilch &amp; High Ltd            Location: 38, Europa Way, Norwich, Norfolk, NR1 2EA            Classification: Electric Motor Sales &amp; Service  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the address or location</p>	A6NE (S)	68	-	624248 307068
186	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Tarmac            Location: Old Station Yard, Norwich, NR10 4AH            Classification: Quarries  <b>Status: Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A7NW (S)	77	-	624390 307059

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
186	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Tarmac            Location: Old Station Yard, Bracondale, Norwich, Norfolk, NR1 2EG            Classification: Sand, Gravel &amp; Other Aggregates            Status: <b>Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A7NW (S)	82	-	624394 307057
187	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Redwell Brewing Company            Location: 7, The Arches, Bracondale, Norwich, NR1 2EF            Classification: Brewers            Status: <b>Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SW (S)	89	-	624333 307007
188	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Lafarge Aggregates Ltd            Location: The Granary, Bracondale, Norwich, Norfolk, NR1 2EG            Classification: Sand, Gravel &amp; Other Aggregates            Status: <b>Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NW (SE)	136	-	624458 307056
188	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Celtic Cars            Location: 6a, Pumping Station Cottages, Bracondale, Norwich, Norfolk, NR1 2EG            Classification: Car &amp; Commercial Repairs            Status: <b>Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SW (SE)	136	-	624443 307033
189	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: A T B Laurence &amp; Scott            Location: Laurence Scott &amp; Electromotors Ltd, Hardy Road, Norwich, NR1 1JJ            Classification: Electric Motor Manufacturers            Status: <b>Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A11NW (NE)	168	-	624433 307765
190	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: L S L            Location: 29, Bracondale, Norwich, NR1 2AT            Classification: Road Haulage Services            Status: <b>Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A10SW (W)	202	-	623780 307505
191	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Passenger Transport Unit            Location: County Hall, Martineau Lane, Norwich, NR1 2SG            Classification: Bus &amp; Coach Operators &amp; Stations            Status: <b>Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A6NE (SW)	205	-	624017 307096
191	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Waste -Management Norfolk County Council            Location: County Hall, Martineau Lane, Norwich, Norfolk, NR1 2SG            Classification: Waste Disposal Services            Status: <b>Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A6NE (SW)	205	-	624017 307096
191	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Norfolk Partnership Laboratory            Location: County Hall, Martineau Lane, Norwich, NR1 2SG            Classification: Laboratories            Status: <b>Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A6NE (SW)	224	-	624017 307071
191	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Norfolk Cc Business Advice &amp; Calibration Services            Location: County Hall, Martineau Lane, Norwich, Norfolk, NR1 2DH            Classification: Testing, Inspection &amp; Calibration Equipment Manufacturers            Status: <b>Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A6NE (SW)	224	-	624017 307071
192	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Travis Perkins Plc            Location: 35, Europa Way, Martineau Lane, Norwich, NR1 2EN            Classification: Builders' Merchants            Status: <b>Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A6SE (S)	216	-	624169 306930
193	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Norwich Proton            Location: Carrow Road, Norwich, Norfolk, NR1 1JE            Classification: Car Dealers            Status: <b>Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NE (NW)	224	-	624045 307875

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
194	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Morrisons Petrol Station            Location: 4, Riverside Retail Park, Albion Way, Norwich, NR1 1WR            Classification: Petrol Filling Stations  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NE (NW)	258	-	623951 307891
195	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Reality Group            Location: 34, Europa Way, Martineau Lane, Norwich, NR1 2EN            Classification: Distribution Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A6SE (S)	288	-	624151 306853
195	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Zeus Packaging            Location: 34, Europa Way, Martineau Lane, Norwich, NR1 2EN            Classification: Distribution Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A6SE (S)	288	-	624151 306853
195	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Burgess            Location: Europa Way, Martineau La, Norwich, Norfolk, NR1 2EN            Classification: Agricultural Engineers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A6SE (S)	292	-	624111 306879
196	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: John Hurrell            Location: The Street, Trowse, Norwich, NR14 8TA            Classification: Lawnmowers &amp; Garden Machinery - Sales &amp; Service  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SE (SE)	294	-	624609 306993
197	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Q8 Petroleum (Gb) Ltd            Location: Martineau La, Norwich, Norfolk, NR1 2JA            Classification: Petrol Filling Stations - 24 Hour  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A6SE (S)	304	-	624076 306897
197	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Norwich Label Converters Ltd            Location: 2, Europa Way, Martineau Lane, Norwich, NR1 2EN            Classification: Printers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A6SE (S)	318	-	624096 306857
197	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Claire Fiddy            Location: 2 Europa Way, Martineau La, Norwich, Norfolk, NR1 2EN            Classification: Soft Furnishings - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A6SE (S)	320	-	624095 306856
198	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: S T S Tyre Pros            Location: Broadman Close, Norwich, NR1 1WY            Classification: Tyre Dealers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NE (N)	346	-	624205 307966
198	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Sts Tyre Pros            Location: Broadman Close, Norwich, NR1 1WY            Classification: Tyre Dealers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NE (N)	347	-	624206 307967
199	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: 1st Call Salvage            Location: 3, Europa Way, Martineau Lane, Norwich, Norfolk, NR1 2EN            Classification: Motor Cycle Breakers &amp; Dismantlers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A6SE (S)	349	-	624075 306835
199	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Express Evans Ltd            Location: 1, Europa Way, Martineau Lane, Norwich, NR1 2EN            Classification: Lift Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned in the proximity of the address</p>	A6SE (S)	371	-	624079 306802

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
199	<b>Contemporary Trade Directory Entries</b> Name: B D & H Ltd Location: 37, Europa Way, Martineau Lane, Norwich, NR1 2EN Classification: Printers Status: <b>Active</b> Positional Accuracy: Automatically positioned in the proximity of the address	A6SE (S)	371	-	624079 306802
199	<b>Contemporary Trade Directory Entries</b> Name: B P Service Station Location: Martineau Lane, Norwich, Norfolk, NR1 2JA Classification: Petrol Filling Stations Status: <b>Active</b> Positional Accuracy: Manually positioned to the address or location	A6SE (S)	380	-	624058 306809
199	<b>Contemporary Trade Directory Entries</b> Name: Pace Petroleum Ltd Location: Martineau Lane, Norwich, NR1 2JA Classification: Petrol Filling Stations Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A6SE (S)	380	-	624057 306809
199	<b>Contemporary Trade Directory Entries</b> Name: M R H Service Station Location: Martineau Lane, Norwich, Norfolk, NR1 2JA Classification: Petrol Filling Stations Status: <b>Active</b> Positional Accuracy: Automatically positioned to the address	A6SE (S)	387	-	624052 306804
200	<b>Contemporary Trade Directory Entries</b> Name: Atb Group Uk Ltd Location: Hardy Road, Norwich, Norfolk, NR1 1JN Classification: Electric Motor Manufacturers Status: <b>Active</b> Positional Accuracy: Manually positioned within the geographical locality	A11NW (N)	373	-	624368 307967
201	<b>Contemporary Trade Directory Entries</b> Name: Pentagon Control Systems Location: The Vicarage, Whitlingham Lane, Trowse, Norwich, NR14 8TN Classification: Control Panel Manufacturers Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A7SE (SE)	380	-	624625 306867
202	<b>Contemporary Trade Directory Entries</b> Name: W M Morrisons Petrol Station Location: 4, Albion Way, Norwich, NR1 1WU Classification: Petrol Filling Stations Status: <b>Active</b> Positional Accuracy: Automatically positioned to the address	A14SE (N)	406	-	624057 308057
203	<b>Contemporary Trade Directory Entries</b> Name: Q8 Petroleum (Gb) Ltd Location: Martineau La, Norwich, Norfolk, NR1 2JA Classification: Petrol Filling Stations Status: <b>Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A6SE (S)	409	-	624020 306804
204	<b>Contemporary Trade Directory Entries</b> Name: City News & City Road Dairy Location: 27-31, City Road, Norwich, NR1 3AJ Classification: Dairies Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A9SE (W)	433	-	623533 307591
204	<b>Contemporary Trade Directory Entries</b> Name: Builders Equipment Location: City Road, NORWICH, NR1 3AL Classification: Builders' Merchants Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A9SE (W)	465	-	623502 307607
204	<b>Contemporary Trade Directory Entries</b> Name: Be Green Uk Location: City Rd, Norwich, Norfolk, NR1 3AN Classification: Builders' Merchants Status: <b>Inactive</b> Positional Accuracy: Manually positioned within the geographical locality	A9SE (W)	477	-	623490 307598
205	<b>Contemporary Trade Directory Entries</b> Name: Hudsons Components Location: 83, Carrow Road, Norwich, NR1 1HP Classification: Car Manufacturers Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A11NW (N)	441	-	624414 308039

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
206	<b>Contemporary Trade Directory Entries</b> Name: G B Printing Ltd Location: 7, Europa Way, Martineau Lane, Norwich, NR1 2EN Classification: Printers Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A6SE (S)	442	-	624032 306750
206	<b>Contemporary Trade Directory Entries</b> Name: Cash 4 Toners Location: 9, Europa Way, Martineau Lane, Norwich, NR1 2EN Classification: Printers Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A6SE (S)	460	-	624021 306736
206	<b>Contemporary Trade Directory Entries</b> Name: Link Radio Services Location: 10, Europa Way, Martineau Lane, Norwich, NR1 2EN Classification: Radio Communication Equipment Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A6SE (S)	469	-	624014 306728
206	<b>Contemporary Trade Directory Entries</b> Name: Link Radio Services Location: 10, Europa Way, Martineau Lane, Norwich, NR1 2EN Classification: Telecommunications Equipment & Systems Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A6SE (S)	469	-	624014 306728
206	<b>Contemporary Trade Directory Entries</b> Name: Link Radio Services Location: 10, Europa Way, Martineau Lane, Norwich, NR1 2EN Classification: Radio Communication Equipment Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A6SE (S)	469	-	624014 306728
206	<b>Contemporary Trade Directory Entries</b> Name: Acorn Cleaning Services Ltd Location: 10, Europa Way, Martineau Lane, Norwich, NR1 2EN Classification: Commercial Cleaning Services Status: <b>Active</b> Positional Accuracy: Automatically positioned to the address	A6SE (S)	470	-	624014 306728
207	<b>Contemporary Trade Directory Entries</b> Name: Rmc Readymix Readicrete Location: King Street, Norwich, NR1 1QH Classification: Concrete & Mortar Ready Mixed Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A10NW (NW)	478	-	623639 307933
208	<b>Contemporary Trade Directory Entries</b> Name: A J'S Location: The White Horse, The Street, Trowse, Norwich, NR14 8ST Classification: Domestic Appliances - Servicing, Repairs & Parts Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A7SE (SE)	482	-	624708 306808
209	<b>Contemporary Trade Directory Entries</b> Name: Youngs Doors Location: City Road, Norwich, NR1 3AL Classification: Door Manufacturers - Industrial Status: <b>Active</b> Positional Accuracy: Automatically positioned to the address	A9SE (W)	500	-	623472 307510
210	<b>Fuel Station Entries</b> Name: Former Garage Location: Old Railway Station , Trwse , Norwich, Norfolk, NR9 5LY Brand: Obsolete Premises Type: Not Applicable Status: <b>Obsolete</b> Positional Accuracy: Manually positioned to the address or location	A7NW (S)	14	-	624343 307107
211	<b>Fuel Station Entries</b> Name: Morrisons Norwich Location: Albion Way , Riverside , Norwich, Norfolk, NR1 1WR Brand: MORRISONS Premises Type: Hypermarket Status: <b>Open</b> Positional Accuracy: Manually positioned to the address or location	A10NE (NW)	322	-	623992 307969

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
212	<b>Fuel Station Entries</b> Name: Mrh Martineau Lane Spar Location: Martineau Lane , , Norwich, Norfolk, NR1 2JA Brand: Bp Premises Type: Petrol Station Status: <b>Open</b> Positional Accuracy: Manually positioned to the address or location	A6SE (S)	380	-	624058 306809
213	<b>Points of Interest - Commercial Services</b> Name: F C Walker Location: 10 The Arches, Bracondale, Norwich, NR1 2EE Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A7NW (S)	16	10	624322 307079
213	<b>Points of Interest - Commercial Services</b> Name: Scrap Yard Location: Not Supplied Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to an adjacent address or location	A7NW (S)	71	10	624365 307042
213	<b>Points of Interest - Commercial Services</b> Name: Scrap Yard Location: NR1 Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A7NW (S)	73	10	624365 307040
214	<b>Points of Interest - Commercial Services</b> Name: Zeus Packaging Location: 34 Europa Way, Martineau Lane, Norwich, NR1 2EN Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A6SE (S)	288	10	624150 306853
215	<b>Points of Interest - Commercial Services</b> Name: Car Wash Location: Albion Way, Riverside, Norwich, Norfolk, NR1 1WR Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A10NE (NW)	322	10	623992 307969
215	<b>Points of Interest - Commercial Services</b> Name: Morrisons Norwich Location: Albion Way, Riverside, Norwich, NR1 1WR Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A10NE (NW)	324	10	623961 307964
216	<b>Points of Interest - Commercial Services</b> Name: S T S Tyre Pro's Location: Broadsman Close, Norwich, NR1 1WY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A10NE (N)	346	10	624205 307966
217	<b>Points of Interest - Commercial Services</b> Name: Mrh Martineau Lane Spar Location: Martineau Lane, Norwich, NR1 2JA Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A6SE (S)	380	10	624058 306809
218	<b>Points of Interest - Commercial Services</b> Name: Car Wash Location: Martineau Lane, Norwich, Norfolk, NR1 2JA Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A6SE (SW)	487	10	623955 306760
218	<b>Points of Interest - Commercial Services</b> Name: Mc Auto Valeters Location: 85 Netherwood Green, Norwich, NR1 2JG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A6SE (SW)	488	10	623913 306798
218	<b>Points of Interest - Commercial Services</b> Name: M.C Automobile Auto Valeters Location: 85 Netherwood Green, Norwich, NR1 2JG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6SE (SW)	488	10	623913 306798

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
219	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A10SE (N)	0	10	624242 307492
219	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A10SE (NW)	0	10	624232 307494
219	<b>Points of Interest - Manufacturing and Production</b> Name: Tanks Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A10SE (NW)	0	10	624236 307488
219	<b>Points of Interest - Manufacturing and Production</b> Name: Carrow Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A11SW (NE)	0	10	624323 307497
219	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11SW (NE)	0	10	624316 307465
219	<b>Points of Interest - Manufacturing and Production</b> Name: Carrow Works Location: NR1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A10SE (N)	0	10	624227 307536
220	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A11SW (NE)	0	10	624494 307556
220	<b>Points of Interest - Manufacturing and Production</b> Name: Tanks Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11SW (NE)	0	10	624494 307556
220	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11SW (NE)	0	10	624441 307588
220	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: NR1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A11SW (NE)	0	10	624505 307566
221	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11SW (E)	0	10	624447 307430
221	<b>Points of Interest - Manufacturing and Production</b> Name: Carrow Works Location: NR1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A11SW (E)	0	10	624512 307477



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
222	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11SW (NE)	0	10	624330 307465
223	<b>Points of Interest - Manufacturing and Production</b> Name: Carrow Works Location: NR1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A10SE (NW)	0	10	623979 307578
224	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: NR1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NW (S)	14	10	624318 307080
224	<b>Points of Interest - Manufacturing and Production</b> Name: Tarmac Location: Old Station Yard, Trowse, Norwich, NR1 2EG Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A7NW (S)	17	10	624322 307079
224	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NW (S)	18	10	624321 307077
224	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NW (S)	49	10	624305 307044
224	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: NR1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NW (S)	50	10	624301 307043
224	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SW (S)	96	10	624328 306998
224	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SW (S)	121	10	624358 306981
224	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: NR1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SW (S)	121	10	624358 306981
225	<b>Points of Interest - Manufacturing and Production</b> Name: Tanks Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NW (SE)	44	10	624470 307243
225	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (SE)	50	10	624477 307242

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
225	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (SE)	54	10	624470 307225
226	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: NR1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A7NW (S)	70	10	624250 307058
226	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6NE (S)	75	10	624248 307052
227	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A11SW (NE)	98	10	624498 307706
227	<b>Points of Interest - Manufacturing and Production</b> Name: Tanks Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11SW (NE)	98	10	624486 307704
227	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR14 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11SW (NE)	114	10	624571 307704
227	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR14 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11NW (NE)	132	10	624585 307716
227	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: NR1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A11NW (NE)	132	10	624506 307740
227	<b>Points of Interest - Manufacturing and Production</b> Name: Gothic Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A11NW (NE)	134	10	624511 307742
227	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR14 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11NW (NE)	140	10	624576 307732
227	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR14 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11NE (NE)	148	10	624595 307729
228	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (SE)	110	10	624466 307110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
228	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (SE)	111	10	624462 307101
228	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (SE)	114	10	624458 307091
228	<b>Points of Interest - Manufacturing and Production</b> Name: Tanks Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NW (SE)	114	10	624458 307091
228	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NW (SE)	115	10	624452 307080
228	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NW (SE)	137	10	624465 307062
229	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SW (S)	116	10	624263 306987
229	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: NR1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SW (S)	116	10	624263 306987
229	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	162	10	624205 306969
229	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: NR1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	162	10	624205 306969
229	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	191	10	624183 306950
229	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: NR1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	191	10	624183 306950
230	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A11NW (N)	136	10	624364 307730

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
230	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A11NW (N)	136	10	624360 307730
230	<b>Points of Interest - Manufacturing and Production</b> Name: Tanks Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11NW (N)	137	10	624371 307731
230	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A11NW (N)	138	10	624294 307734
230	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A11NW (N)	139	10	624290 307735
230	<b>Points of Interest - Manufacturing and Production</b> Name: Tanks Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11NW (N)	140	10	624287 307737
231	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A11SE (E)	149	10	624677 307486
232	<b>Points of Interest - Manufacturing and Production</b> Name: Gothic Works Location: NR1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A11NW (NE)	169	10	624429 307766
233	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A11SE (E)	182	10	624714 307579
234	<b>Points of Interest - Manufacturing and Production</b> Name: Electricity Generating Station Location: NR14 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A11NE (NE)	186	10	624660 307717
235	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7SW (S)	260	10	624268 306836
236	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NE (SE)	303	10	624660 307061
236	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NE (SE)	309	10	624657 307044

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
237	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: NR1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A11NE (NE)	319	10	624663 307888
237	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A11NE (NE)	322	10	624667 307889
238	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A10SW (W)	386	10	623605 307449
239	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: NR1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A10NW (NW)	417	10	623576 307728
240	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11NE (NE)	438	10	624870 307857
241	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A15SW (N)	478	10	624361 308072
241	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A15SW (N)	480	10	624352 308074
241	<b>Points of Interest - Manufacturing and Production</b> Name: Tanks Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A15SW (N)	484	10	624353 308078
241	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A15SW (N)	486	10	624337 308080
241	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A15SW (N)	487	10	624360 308081
241	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A15SW (N)	487	10	624333 308081
241	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A15SW (N)	489	10	624352 308083

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
241	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: NR1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A15SW (N)	490	10	624344 308084
242	<b>Points of Interest - Public Infrastructure</b> Name: Diamond Jubilee Fire and Rescue Station Location: 63 Bracondale, Trowse, NR1 2EE Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A7NW (S)	21	10	624301 307139
243	<b>Points of Interest - Public Infrastructure</b> Name: The Passenger Transport Unit Location: County Hall, Martineau Lane, Norwich, NR1 2SG Category: Public Transport, Stations and Infrastructure Class Code: Bus and Coach Stations, Depots and Companies Positional Accuracy: Positioned to address or location	A6NE (SW)	205	10	624017 307096
244	<b>Points of Interest - Public Infrastructure</b> Name: Trowse Lower Junction Location: NR1 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	241	10	624232 306865
244	<b>Points of Interest - Public Infrastructure</b> Name: Sluice Location: NR1 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7SW (S)	244	10	624301 306849
244	<b>Points of Interest - Public Infrastructure</b> Name: Sluice Location: NR1 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7SW (S)	251	10	624310 306842
244	<b>Points of Interest - Public Infrastructure</b> Name: Sluice Location: NR1 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7SW (S)	258	10	624316 306835
244	<b>Points of Interest - Public Infrastructure</b> Name: Sluice Location: NR1 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7SW (S)	271	10	624328 306822
245	<b>Points of Interest - Public Infrastructure</b> Name: Morrisons Petrol Station Location: 4 Riverside Retail Park, Albion Way, Norwich, NR1 1WR Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A10NE (NW)	257	10	623951 307891
245	<b>Points of Interest - Public Infrastructure</b> Name: W M Morrisons Petrol Station Location: Albion Way, Riverside, Norwich, NR1 1WU Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A10NE (NW)	322	10	623992 307969
245	<b>Points of Interest - Public Infrastructure</b> Name: Morrisons Norwich Location: Albion Way, Riverside, Norwich, NR1 1WR Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A10NE (NW)	322	10	623992 307969
246	<b>Points of Interest - Public Infrastructure</b> Name: BP Service Stationm R H Martineau Lane Location: Martineau Lane, Norwich, NR1 2JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A6SE (S)	380	10	624058 306809

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
246	<b>Points of Interest - Public Infrastructure</b> Name: BP Service Station Location: Martineau Lane, Norwich, NR1 2JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A6SE (S)	380	10	624058 306809
246	<b>Points of Interest - Public Infrastructure</b> Name: MRH Martineau Lane Spar Location: Martineau, Lane, Norwich, NR1 2JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A6SE (S)	380	10	624058 306809
247	<b>Points of Interest - Public Infrastructure</b> Name: BP Martineau Lane Location: Martineau Lane, Norwich, Norfolk, NR1 2JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A6SE (SW)	487	10	623955 306760
247	<b>Points of Interest - Public Infrastructure</b> Name: BP Service Station Location: Martineau Lane, Norwich, NR1 2JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A6SE (SW)	487	10	623955 306760
247	<b>Points of Interest - Public Infrastructure</b> Name: Pace Martineau Lane Location: Martineau Lane, Norwich, NR1 2JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A6SE (SW)	487	10	623955 306760
248	<b>Points of Interest - Recreational and Environmental</b> Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A10NE (N)	186	10	624216 307797

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
249	<b>Environmentally Sensitive Areas</b> Name: Broads (decommissioned) Multiple Areas: Y Total Area (m2): 382941888.19 Source: Natural England	A7NW (SE)	73	11	624534 307287
250	<b>Local Nature Reserves</b> Name: Whitlingham Multiple Area: Y Area (m2): 1000376.28 Source: Natural England Designation Date: Not Supplied	A7SE (SE)	297	11	624657 307012
251	<b>National Parks</b> Name: The Broads Multiple Area: N Area (m2): 301512785 Source: Natural England <b>Status: Fully Designated - designated as a National Park</b> Designation Date: 1st March 1988	A11SW (N)	0	11	624283 307598
252	<b>Nitrate Vulnerable Zones</b> Name: Norwich Crag And Gravels Description: Groundwater Source: Environment Agency, Head Office	A11SW (S)	0	12	624264 307425



Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Broadland District Council - Environmental Health Department South Norfolk District Council - Environmental Health Department Norwich City Council - Environmental Health Department	April 2014 December 2014 November 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - Anglian Region	April 2018	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - Anglian Region	March 2013	As notified
<b>Integrated Pollution Controls</b> Environment Agency - Anglian Region	October 2008	Variable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - Anglian Region	April 2018	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> South Norfolk District Council - Environmental Health Department Norwich City Council - Environmental Health Department Broadland District Council - Environmental Health Department	June 2014 March 2015 September 2014	Variable Variable Variable
<b>Local Authority Pollution Prevention and Controls</b> South Norfolk District Council - Environmental Health Department Norwich City Council - Environmental Health Department Broadland District Council - Environmental Health Department	June 2014 March 2015 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> South Norfolk District Council - Environmental Health Department Norwich City Council - Environmental Health Department Broadland District Council - Environmental Health Department	June 2014 March 2015 September 2014	Variable Variable Variable
<b>Nearest Surface Water Feature</b> Ordnance Survey	September 2017	
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - Anglian Region	September 1999	Not Applicable
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - Anglian Region	March 2013	As notified
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - Anglian Region	March 2013	As notified
<b>Registered Radioactive Substances</b> Environment Agency - Anglian Region	January 2015	
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>Substantiated Pollution Incident Register</b> Environment Agency - Anglian Region - Central Area Environment Agency - Anglian Region - Eastern Area	April 2018 April 2018	Quarterly Quarterly
<b>Water Abstractions</b> Environment Agency - Anglian Region	April 2018	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - Anglian Region	October 2017	Quarterly
<b>Groundwater Vulnerability</b> Environment Agency - Head Office	April 2015	Not Applicable
<b>Drift Deposits</b> Environment Agency - Head Office	January 1999	Not Applicable

Agency & Hydrological	Version	Update Cycle
<b>Bedrock Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	August 2015	As notified
<b>Superficial Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	August 2015	As notified
<b>Source Protection Zones</b> Environment Agency - Head Office	January 2018	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	February 2018	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	February 2018	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	February 2018	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	February 2018	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	February 2018	Quarterly
<b>OS Water Network Lines</b> Ordnance Survey	January 2018	Quarterly
<b>Surface Water 1 in 30 year Flood Extent</b> Environment Agency - Head Office	October 2013	As notified
<b>Surface Water 1 in 100 year Flood Extent</b> Environment Agency - Head Office	October 2013	As notified
<b>Surface Water 1 in 1000 year Flood Extent</b> Environment Agency - Head Office	October 2013	As notified
<b>Surface Water Suitability</b> Environment Agency - Head Office	October 2013	As notified
<b>BGS Groundwater Flooding Susceptibility</b> British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
<b>Historical Landfill Sites</b> Environment Agency - Head Office	April 2018	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - Anglian Region	October 2008	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - Anglian Region - Eastern Area	April 2018	Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - Anglian Region - Eastern Area	April 2018	Quarterly
<b>Local Authority Landfill Coverage</b> Broadland District Council Norfolk County Council - Planning & Transportation - Minerals & Waste Norwich City Council South Norfolk District Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Broadland District Council Norfolk County Council - Planning & Transportation - Minerals & Waste Norwich City Council South Norfolk District Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
<b>Potentially Infilled Land (Non-Water)</b> Landmark Information Group Limited	December 1999	Not Applicable
<b>Potentially Infilled Land (Water)</b> Landmark Information Group Limited	December 1999	Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	September 2017	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	March 2017	Variable
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> Broadland District Council Norfolk County Council - Planning & Transportation - Minerals & Waste Norwich City Council South Norfolk District Council	February 2016 June 2007 October 2015 October 2015	Variable Annual Rolling Update Variable Variable
<b>Planning Hazardous Substance Consents</b> Broadland District Council Norfolk County Council - Planning & Transportation - Minerals & Waste Norwich City Council South Norfolk District Council	February 2016 June 2007 October 2015 October 2015	Variable Annual Rolling Update Variable Variable

Geological	Version	Update Cycle
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
<b>BGS Estimated Soil Chemistry</b> British Geological Survey - National Geoscience Information Service	October 2015	As notified
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	May 2018	Bi-Annually
<b>CBSCB Compensation District</b> Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Property Searches	March 2014	As notified
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	As notified
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	As notified
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	As notified
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	As notified
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	As notified
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	As notified
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	July 2011	As notified
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	Version	Update Cycle
<b>Contemporary Trade Directory Entries</b> Thomson Directories	May 2018	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	April 2018	Quarterly
<b>Gas Pipelines</b> National Grid	July 2014	Quarterly
<b>Points of Interest - Commercial Services</b> PointX	March 2018	Quarterly
<b>Points of Interest - Education and Health</b> PointX	March 2018	Quarterly
<b>Points of Interest - Manufacturing and Production</b> PointX	March 2018	Quarterly
<b>Points of Interest - Public Infrastructure</b> PointX	March 2018	Quarterly
<b>Points of Interest - Recreational and Environmental</b> PointX	March 2018	Quarterly
<b>Underground Electrical Cables</b> National Grid	December 2015	Bi-Annually

<b>Sensitive Land Use</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Ancient Woodland</b> Natural England	October 2017	Bi-Annually
<b>Areas of Outstanding Natural Beauty</b> Natural England	February 2018	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	January 2017	
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	February 2018	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	January 2018	Bi-Annually
<b>National Nature Reserves</b> Natural England	February 2018	Bi-Annually
<b>National Parks</b> Natural England	April 2017	Bi-Annually
<b>Nitrate Vulnerable Zones</b> Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
<b>Ramsar Sites</b> Natural England	February 2018	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	February 2018	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	January 2018	Bi-Annually
<b>Special Protection Areas</b> Natural England	February 2018	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 <b>British Geological Survey</b> NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 <b>Centre for Ecology &amp; Hydrology</b> NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	<b>British Geological Survey - Enquiry Service</b> 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
2	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	<b>Norwich City Council - Environmental Health Department</b> City Hall, St Peters Street, Norwich, Norfolk, NR2 1NH	Telephone: 01603 212302 Fax: 01603 213000 Email: N.rotsos.ncc.ch@gtnet.gov.uk Website: www.norwich.gov.uk
4	<b>Ordnance Survey</b> Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	<b>Norwich City Council</b> City Hall, St. Peters Street, Norwich, Norfolk, NR2 1NH	Telephone: 01603212212 Fax: 01603 213000 Website: www.norwich.gov.uk
6	<b>Norfolk County Council - Planning &amp; Transportation - Minerals &amp; Waste</b> County Hall, Martineau Lane, Norwich, Norfolk, NR1 2DH	Telephone: 0844 800 8020 Fax: 0844 800 8012 Email: information@norfolk.gov.uk Website: www.norfolk.gov.uk
7	<b>South Norfolk District Council - Environmental Health Department</b> South Norfolk House, Swan Lane, Long Stratton, Norwich, Norfolk, NR15 2XE	Telephone: 01508 533722 Fax: 01508 533626 Website: www.south-norfolk.gov.uk
8	<b>Health and Safety Executive</b> 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
9	<b>Peter Brett Associates</b> Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
10	<b>PointX</b> 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
11	<b>Natural England</b> County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
12	<b>Environment Agency - Head Office</b> Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	<b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	<b>Landmark Information Group Limited</b> 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

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

---

## APPENDIX D – QUALITATIVE RISK ASSESSMENT MODEL

---

Qualitative Risk  
Assessment Model



# QUALITATIVE RISK ASSESSMENT MODEL

The Qualitative Risk Assessment Model used is based upon that developed by the NHBC<sup>1</sup> (2008) which is itself developed from (DOE, 1995) A Guide to Risk Assessment and Risk Management for Environmental Protection; and the Statutory Guidance on Contaminated Land (Defra, September 2006). The methodology is based on that presented in CIRIA<sup>2</sup> C552 2001; but differs in terms of the definitions of classification of consequence, which include a consideration of immediacy of hazards.

The key to the classification is that the designation of risk is based upon the consideration of both:

- A) the magnitude of the potential consequence (i.e. severity) [takes into account both the potential severity of the hazard and the sensitivity of the receptor]
- B) the magnitude of probability (i.e. likelihood) [takes into account both the presence of the hazard and receptor and the integrity of the pathway]

These are defined in the tables on the following pages:

**Table I Classification of Consequence**

Classification	Definition	Examples
<b>Severe</b>	<p>Highly elevated concentrations <b>likely</b> to result in “significant harm” to human health as defined by the EPA 1990 Part 2a, if exposure occurs.</p> <p>Equivalent to <b>EA Category 1</b> pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point; major impact on amenity value or major damage to agriculture or commerce.</p> <p>Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long term maintenance of the population.</p> <p>Catastrophic damage to crops, buildings or property.</p>	<p>Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions.</p> <p>Major fish kill in surface water from large spillage of contaminants from site.</p> <p>Highly elevated concentrations of List I and II substances present in groundwater close to small potable abstraction (high sensitivity).</p> <p>Explosion, causing building collapse (can also equate to immediate human health risk if buildings are occupied).</p>
<b>Medium</b>	<p>Elevated concentrations which could result in “significant harm” to human health as defined by the EPA 1990 Part 2A if exposure occurs.</p> <p>Equivalent to <b>EA Category 2</b> pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce.</p> <p>Significant damage to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long term maintenance of the population.</p> <p>Significant damage to crops, buildings or property.</p>	<p>Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions.</p> <p>Damage to building rendering it unsafe to occupy e.g. foundation damage resulting in instability.</p> <p>Ingress of contaminants through plastic potable water pipes/</p>

<sup>1</sup>Guidance for the Safe Development of Housing on Land Affected by Contamination R&S66: 2008 Annex 4

<sup>2</sup>C552 Contaminated Land Risk Assessment, A Guide to Good Practice

<b>Mild</b>	<p>Exposure to human health <b>unlikely</b> to lead to “significant harm”.</p> <p>Equivalent to <b>EA Category 3</b> pollution incident including minimal or short lived effect on water quality; marginal effect on amenity value, agriculture or commerce.</p> <p>Minor or short lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial adverse change on its functioning or harm to a species of special interest that would endanger the long-term maintenance of the population.</p> <p>Minor damage to crops, buildings or property.</p>	<p>Exposure could lead to slight short-term effects (e.g. mild skin rash).</p> <p>Surface spalling of concrete.</p>
<b>Minor</b>	<p>No measurable effect on humans.</p> <p>Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems.</p> <p>Repairable effects or damage to buildings, structures and services.</p>	<p>The loss of plants in a landscaping scheme.</p> <p>Discolouration of concrete.</p>

\*For these purposes disease is to be taken to mean an unhealthy condition of the body or a part off it and can include, for example, cancer, liver dysfunction or extensive skin ailments. Mental dysfunction is included only in so far as it is attributable to the effects on the body of the person concerned.

**Table 2 Classification of probability**

<b>Category</b>	<b>Definition</b>	<b>Examples</b>
<b>High Likelihood</b>	There is pollutant linkage and an event would appear very likely in the short-term and almost inevitable over the long-term, or there is evidence at the receptor of harm or pollution.	<p>A) Elevated concentrations of toxic contaminants are present in soils in the top 0.5m in a residential garden.</p> <p>B) Ground/groundwater contamination could be present from chemical works, containing a number of USTs, having been in operation on the same site for over 50 years.</p>
<b>Likely</b>	There is a pollutant linkage and all the elements are present and in the right place which means that it is probably that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long-term.	<p>A) Elevated concentrations of toxic contaminants are present in soils at depths of 0.5 – 1m in a residential garden, or the top 0.5m in public open space.</p> <p>B) Ground/groundwater contamination could be present from an industrial site containing a UST present between 1970 and 1990. The tank is known to be single skin. There is no evidence of leakage although there are no records of integrity tests.</p>
<b>Low Likelihood</b>	There is pollutant linkage and circumstances are possible under which an event could occur. However it is by no means certain that even over a long period such an event would take place, and is less likely in the shorter term.	<p>A) Elevated concentrations of toxic contaminants are present in soils at depths &gt;1m in a residential garden, or 0.5 – 1m in public open space.</p> <p>B) Ground/groundwater contamination could be present on a light industrial unit constructed in the 1990s containing a UST in operation over the last 10 years – the tank is double skinned but there is no integrity testing or evidence of leakage</p>
<b>Unlikely</b>	There is a pollutant linkage but circumstances are such that it is improbably that an event would occur even in the very long-term.	<p>A) Elevated concentrations of toxic contamination are present below hardstanding.</p> <p>B) Light industrial unit &lt;10 yrs old containing a double skinned UST with annual integrity testing results available.</p>

Risk is then classified as a product of the magnitude of the potential consequence and the likelihood of it coming about as follows:

**Table 3. The classification of risk**

		Consequence			
		Severe	Medium	Mild	Minor
Probability (Likelihood)	High likelihood	Very high risk	High risk	Moderate risk	Low risk
	Likely	High risk	Moderate risk	Moderate/low risk	Low risk
	Low likelihood	Moderate risk	Moderate/low risk	Low risk	Very low risk
	Unlikely	Moderate/low risk	Low risk	Very low risk	Very low risk

### Description of the classified risks

#### Very high risk

There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without remediation action OR there is evidence there severe harm to a designated receptor is already occurring. Realisation of the risk is likely o present a substantial liability to the site owner/or occupier. Investigation is required as a matter of urgency and remediation works likely to follow in the short term.

#### High risk

Harm is likely to arise to a designated receptor from an identified hazard at the site without remediation action. Realisation of the risk is likely to present a substantial liability to the site owner/or occupier. Investigation is required as a matter of urgency to clarify the risk. Remediation works may be necessary in the short term and are likely over the longer term.

#### Moderate risk

It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely, that the harm would be relatively mild. Further investigative work is normally required to clarify the risk and to determine the potential liability to site owner/occupier. Some remediation works may be required in the longer term.

#### Low risk

It is possible that harm could arise to a designated receptor from identified hazard, but it is unlikely at worst, that this harm if realised would normally be mild. It is unlikely that the site owner/or occupier

would face substantial liabilities from such a risk. Further investigative work (which is likely to be limited) to clarify the risk may be required. Any subsequent remediation works are likely to be relatively limited.

### Very low risk

It is a low possibility that harm could arise to a designated receptor, but it is likely at worst, that this harm if realised would normally be mild or minor.

### No potential risk

There is no potential risk if no pollution linkage has been established.

Definitions	
<b>Hazard</b>	A property or situation which in certain circumstances could lead to harm. [The properties of different hazards must be assessed in relation to their potential to affect the various different receptors].
<b>Risk</b>	A combination of the probability or frequency of the occurrences of a defined hazard <b>AND</b> the magnitude of the consequence of that occurrence.
<b>Probability</b>	The mathematical expression of the chance of a particular event in a given period of time [e.g. probability of 0.2 is equivalent to 20% or a 1 in 5 chance].
<b>Likelihood</b>	Probability; the state or fact of being likely.
<b>Consequences</b>	The adverse effects (or harm) arising from a defined hazard which impairs the quality of the environment or human health in the short or longer term.
<b>Pollution Linkage</b>	An identified pathway is capable of exposing a receptor to a contaminant and that contaminant is capable of harming the receptor.

Contaminant	Receptor	Route <sup>1</sup>	Pathway <sup>1</sup>	Likelihood of Occurrence <sup>2</sup>	Severity of Consequence <sup>2</sup>	Risk Classification <sup>3</sup>	Notes
Polyaromatic Hydrocarbons, Petroleum Hydrocarbons, VOCs, SVOCs, acids, alkalis, Polychlorinated Biphenyls, oils and greases, dyes, glycol	Current Site Users	1	Ingestion of soil	Low likelihood	Medium	Moderate/low risk	The desk study and site visits have ascertained that only a relatively small volume of fuel is stored at the site. The majority of chemical storage comprises acids and alkalis which will not persist over extended periods of time in soil due to their high levels of reactivity. Waste comprises mainly food and cleaning products primarily of low hazard. Site management procedures were observed to be good but it cannot be guaranteed that this was the case throughout the life of the factory. Vapour risk assessed as medium due to known presence of PCE. The hardstanding offers significant protection to current site users by severing the direct contact pathways.
		2	Ingestion of household dust	Low likelihood	Medium	Moderate/low risk	
		3	Ingestion of home-grown vegetables	Low likelihood	Medium	Moderate/low risk	
		4	Ingestion of soil attached to home-grown vegetables	Low likelihood	Medium	Moderate/low risk	
		5	Dermal contact with soil	Low likelihood	Mild	Low risk	
		6	Dermal contact with household dust	Low likelihood	Mild	Low risk	
		7	Inhalation of fugitive soil dust	Low likelihood	Medium	Moderate/low risk	
		8	Inhalation of fugitive household dust	Low likelihood	Medium	Moderate/low risk	
		9	Inhalation of vapours outside	Low likelihood	Mild	Low risk	
		10	Inhalation of vapours inside	Likely	Medium	Moderate risk	
	Future Site Users	1	Ingestion of soil	Likely	Medium	Moderate risk	The desk study and site visits have ascertained that only a relatively small volume of fuel is stored at the site. The majority of chemical storage comprises acids and alkalis which will not persist over extended periods of time in soil due to their high levels of reactivity. Waste comprises mainly food and cleaning products primarily of low hazard. Site management procedures were observed to be good but it cannot be guaranteed that this was the case throughout the life of the factory. Vapour risk assessed as medium due to known presence of PCE. The majority of these pathways are likely to be able to be reduced through the implementation of typical risk reduction measures through planning policy (e.g. clean cover systems etc.)
		2	Ingestion of household dust	Likely	Medium	Moderate risk	
		3	Ingestion of home-grown vegetables	Likely	Medium	Moderate/low risk	
		4	Ingestion of soil attached to home-grown vegetables	Likely	Medium	Moderate/low risk	
		5	Dermal contact with soil	Likely	Mild	Moderate/low risk	
		6	Dermal contact with household dust	Likely	Mild	Moderate/low risk	
		7	Inhalation of fugitive soil dust	Likely	Medium	Moderate risk	
		8	Inhalation of fugitive household dust	Likely	Medium	Moderate risk	
		9	Inhalation of vapours outside	Likely	Mild	Moderate/low risk	
		10	Inhalation of vapours inside	Likely	Medium	Moderate risk	
	Construction /maintenance workers	1	Ingestion of soil	Low likelihood	Medium	Moderate/low risk	Working in line with industry guidance including appropriate risk assessment, training and use of PPE

Contaminant	Receptor	Route <sup>1</sup>	Pathway <sup>1</sup>	Likelihood of Occurrence <sup>2</sup>	Severity of Consequence <sup>2</sup>	Risk Classification <sup>3</sup>	Notes	
		5	Dermal contact with soil	Low likelihood	Mild	Low risk	will reduce the likelihood of exposure.	
		7	Inhalation of fugitive soil dust	Low likelihood	Medium	Moderate/low risk		
		9	Inhalation of vapours outside	Low likelihood	Mild	Low risk		
	Groundwater		Intergranular flow of free product	High likelihood	Medium	High risk	The superficial and bedrock geology is conducive to migration of contamination and potential contaminants are stored and used at the site. The outcome of the assessment is heavily influenced by the known presence of a PCE plume in the NE. The site currently has a high proportion of hardstanding which will significantly retard rainwater infiltration but this could change subject to the nature of the redevelopment.	
			Rainwater infiltration and leaching of contaminated soils	Low likelihood	Medium	Moderate/low risk		
	Surface water		Rainwater infiltration and leaching, intergranular flow via groundwater to controlled waters	Likely	Medium	Moderate risk	Nearest surface water feature is adjacent to the northern boundary. Infiltration is considered unlikely given the hardstanding cover but leaching from contaminated soils is considered likely given the known PCE plume in the NE.	
			Surface water run-off	High likelihood	Minor	Moderate/low risk		
	Material construction of buildings and infrastructure		Contact of building materials, including water supply pipes with contaminated soils and/or contaminated groundwater	Low likelihood	Medium	Moderate/low risk	Site walkover identified no signs of building stress or subsidence. Potential contaminants from identified offsite sources are conducive to permeation into water supply pipes.	
	Heavy Metals	Current and Future Site Users	1	Ingestion of soil	Low likelihood	Medium	Moderate/low risk	Potential sources of heavy metals are limited to made ground and the tin manufacturing plant. The hardstanding offers significant protection to current site users by severing the direct contact pathways. The presence of acids could serve to mobilise metal contamination by increasing solubility.
			2	Ingestion of household dust	Low likelihood	Medium	Moderate/low risk	
5			Dermal contact with soil	Likely	Mild	Moderate/low risk		
6			Dermal contact with household dust	Likely	Mild	Moderate/low risk		
7			Inhalation of fugitive soil dust	Low likelihood	Medium	Moderate/low risk		

Contaminant	Receptor	Route <sup>1</sup>	Pathway <sup>1</sup>	Likelihood of Occurrence <sup>2</sup>	Severity of Consequence <sup>2</sup>	Risk Classification <sup>3</sup>	Notes	
	Construction / maintenance workers	8	Inhalation of fugative household dust	Low likelihood	Medium	Moderate/low risk	Working in line with industry guidance including appropriate risk assessment, training and use of PPE will reduce the likelihood of exposure.	
		1	Ingestion of soil	Low likelihood	Medium	Moderate/low risk		
		5	Dermal contact with soil	Low likelihood	Mild	Low risk		
		7	Inhalation of fugative soil dust	Low likelihood	Medium	Moderate/low risk		
	Groundwater		Intergranular flow of free product	Low likelihood	Mild	Low risk	Potential source of heavy metals at the site is limited. Solubility of metals in groundwater is generally low although they can be increased by acidification (acids are stored and used on the site).	
			Rainwater infiltration and leaching of contaminated soils	Unlikely	Mild	Very low risk		
	Surface water		Rainwater infiltration and leaching, intergranular flow via groundwater to controlled waters	Unlikely	Mild	Very low risk	Solubility of metals in groundwater is generally low. Potential metal sources are limited. Engineered drainage and hardstanding will reduce risk further despite proximity of water course.	
			Surface water run-off	Likely	Minor	Low risk		
	Asbestos	Current and Future Site Users	7	Inhalation of fugative soil dust	Unlikely	Severe	Moderate/low risk	Given the presence of hardstanding across the majority of the site the likelihood of inhalation of asbestos fibres by current site users is considered low. The likelihood of construction workers being exposed is considered to be high given the long history of the factory. Severity of exposure is severe in all cases.
			8	Inhalation of fugative household dust	Unlikely	Severe	Moderate/low risk	
Construction / maintenance workers		7	Inhalation of fugative soil dust	Likely	Severe	High risk		
Land Gases	Current and Future Site Users						A significant thickness of made ground is anticipated in some regions of the site given the long site history. The release of organic matter from sewage spills could pose a potential source. Additionally, chalk can naturally produce small quantities of carbon dioxide.	
		10	Inhalation of vapours inside	Likely	Medium	Moderate risk		

Notes to table:

2. Classification of Probability and Consequence from CIRIA C552 Contaminated land risk assessment, a guide to good practice 2001

3. Risk Classification from DETR Guidelines for Environmental Risk Assessment and Management, 2000

## Preliminary Geotechnical Risk Register

Geotechnical risk is the risk to building and construction work created by the site ground conditions. The Preliminary Geotechnical Risk Register has been compiled to provide an assessment of the likely risks that may impact on the proposed development based on the results of the desk study, and should be used to specify the type and extent of the intrusive investigation and testing undertaken, and to identify potential mitigation measures to control the risk to an acceptable level.

The inclusion of a risk in the register does not indicate that the risk is present, rather the likelihood of mitigation measures being required due to that risk, based on the available data. Equally, a risk classified as low indicates that mitigation measures are unlikely to be required for the hazard identified based on the available data.

The risk register should be developed and refined throughout the design process such that it will enable the management of geotechnical risk.

The Geotechnical Risk Register has been developed in accordance with the guidance presented in ICE/DETR Document "Managing Geotechnical Risk" (2002). The degree of risk (R) is determined by assessing the likelihood of a hazard (L) occurring and the effect of the hazard (E) on the project ( $R=L \times E$ ). The effect may be measured in one or more aspect e.g. increased cost, delays in the program, health and safety etc. The scale of the likelihood, effect and risk are determined as follows:-

Likelihood of Occurrence		
Scale	Likelihood	Chance
4	Probable	>1 in 2
3	Likely	1 in 10 to 1 in 2
2	Unlikely	1 in 100 to 1 in 10
1	Negligible	<1 in 100

**x**

Effect of Hazard		
Scale	Effect	Increase in cost or time
4	Very High	>10%
3	High	4-10%
2	Low	1-4%
1	Very Low	<1%

**=**

Degree of Risk		
Degree of Risk	Risk Level	Action required
1-4	Trivial	None
5-8	Significant	Consider cost effective solutions or improvements at no extra cost
9-12	Substantial	Work must not start until risk has been reduced. Additional resource required
13-16	Intolerable	Work must not start until risk has been reduced. If risk can not be reduced, project should not proceed.



Hazard	Effect	Likelihood of Occurrence	Effect of Hazard	Risk Classification	Notes
Made Ground	Deepened foundations	Likely	High	Substantial	Sites long development history means a significant thickness of MG as well as underground tunnels are anticipated at some locations. Natural geology comprises soft alluvial deposits and putty chalk
	Unstable excavations	Likely	High	Substantial	
Compressible Ground	Bearing capacity failure	Negligible	High	Trivial	Strata on-site is not deemed excessively compressible
	Excessive settlement	Negligible	High	Trivial	
High Groundwater Table	Unstable excavations/ running sands	Unlikely	High	Significant	Although the groundwater is level is understood to be higher than in the majority of chalk aquifers, it is not anticipated to be shallow enough to affect works relating to shallow soils.
	Dewatering	Unlikely	High	Significant	
	Contamination	Unlikely	High	Significant	
Deep Excavations	Deepened foundations	Likely	High	Substantial	Anticipated to be necessary at some stage during the redevelopment due to buried structures (tunnels) and historic landuse
Working in highway	Traffic Management	Likely	High	Substantial	Although not on the public highway, site investigation works are likely to be required adjacent to vehicle routes on the factory itself.
Shrinkable soils	Deepened foundations	Negligible	High	Trivial	Soils not considered susceptible to shrinkage or heave.
	Heave	Negligible	High	Trivial	
Frost Susceptible soils	Road Design	Unlikely	Low	Trivial	Soils on-site are not deemed frost susceptible.
Aggressive ground conditions for Concrete	Concrete design	Negligible	High	Trivial	Soils not anticipated to contain elevated levels of sulphate / be aggressive to concrete.
Slope Stability/Retaining Structure	Local stability	Likely	High	Substantial	Moderately steep slope from conservation area to Building 256 / BH F location
	Global stability	Negligible	High	Trivial	
Mining	Suitability for development	Unlikely	High	Significant	No records on site but some man-made cavities recorded nearby to the south
Ground dissolution/ Natural cavities	Remedial measures	Likely	High	Substantial	Site is underlain by alluvium and sands and gravels over chalk which could promote solution feature initiation. Clayey layers logged with the RTDs

Landfill	Land gas	Unlikely	High	Significant	No records of landfill in the vicinity but made ground presents a potential source. Bottle pit known to be on site, but not likely to be source of land gas
Contaminated land	Remedial measures	Likely	High	Substantial	Known PCE contamination present onsite and likely other contaminants present due to industrial history.
Archaeological remains	Remedial measures	Negligible	High	Trivial	Known archaeological remains within the conservation area, but assumed that this area will not be redeveloped and will be protected and maintained.
UXO	UXO supervision	Likely	Very high	Substantial	UXO risk has been deemed MODERATE based on records of ordinance which fell historically. Full desk study recommended by specialist

---

## APPENDIX E – SITE PHOTOGRAPHS

---

Site Photographs



Plate 1: Product range produced at Carrow Works



Plate 2: Buildings which formally comprised the fire station in the northwest of the site



Plate 3: Building 207 in the northwest of the site. Evidence of former pumps, vent pipes and possible below ground tanks



Plate 4: Older (listed) buildings in the northwest of the site. Now largely disused. Former tin production area. BH 'C' is located within

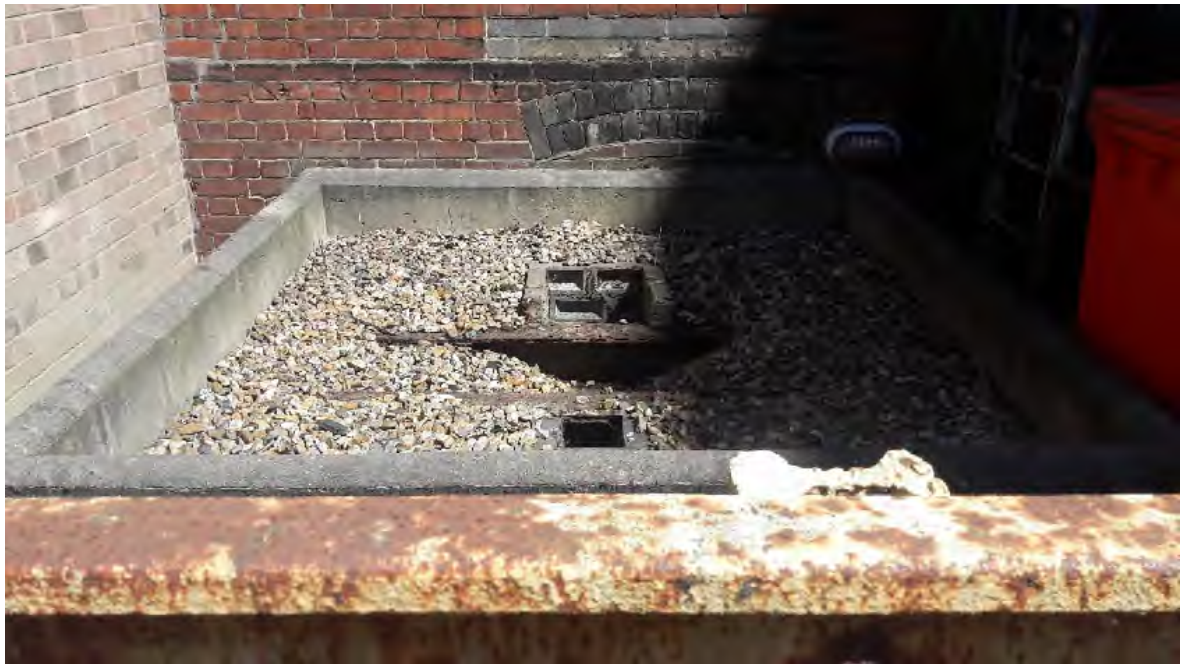


Plate 5: Location of former substation in the north of the site. Known to have failed resulting in a minor release of oil.



Plate 6: North western corner of the site looking towards land sold where apartments have now been constructed



Plate 7: Strong waste storage along the northern boundary and scar showing area where sewer repair works were undertaken



Plate 8: Mustard seed silos (#203). Present since c1930s.



Plate 9: Jif plant (building 204). The mustard plant is located to the west



Plate 10: Dry products (building 201)





Plate 11: Storage of processed mint in roto plas containers in the east and north east of the site



Plate 12: North eastern site area



Plate 13: Mint plant / wet products production in the northeast of the site.



Plate 14: Chemical usage within the mint plant (top left: acetic acid tank behind cleaning product tanks - bottom left). Right: banded caustic soda tank



Plate 15: Access tunnel (now closed) to former Colman-owned 'Deal' land to the east of the current site boundary beyond the railway line



Plate 16: View of the site looking west towards the mustard seed silos



Plate 1: Loading area in the east of the site



Plate 2: Diesel ASTs and waste storage in the southeast of the site (shared area)



Plate 3: Chemical store and food additives cold storage in the northeast of the site



Plate 4: Ready drinks department in the northeast of the site



Plate 5: Location of the former tetrachloroethylene below ground storage tank in the northeast of the site



Plate 6: View of the site looking west from the north eastern area towards Unilever's mustard seed silos and the CSD plant



Plate 7: Borehole 'D' and associated air stripping / water treatment plant for the removal of PCE to the north of building 224



Plate 8: Reverse Osmosis water tank adjacent to the mustard seed silos

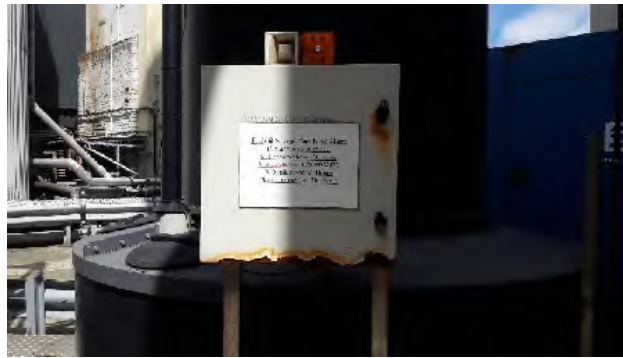


Plate 9: Service boiler bunded fuel tank and bund alarm (east of building 107)



Plate 10: Gas cylinder storage and one of the emergency spillage stations (east of building 107)





Plate 11: Electrical installations



Plate 12: Bund containing water tank and dis-used diesel fuel tank (located behind the mustard seed silos)



Plate 13: View of the sprinkler pump house (#256) with the boiler house and chimney behind. Tanks are for fire water storage (silver) and part of the water treatment system (green). BH 'F' and associated air stripping plant also located in this area.



Plate 14: roto plas containers storing concentrated fruit juice in yard by building 256



Plate 15: Concentrated soft drinks (CSD) plant (building 254)



Plate 16: pH balancing plant to the west of building 254



Plate 17: View of the River Wensum looking west from the northern site boundary



Plate 18: View of the River Wensum looking east from the northern site boundary. Approx. location of the discharge point



Plate 19: Storage area in the northwest of the site



Plate 20: Internal part of the water treatment plant



Plate 21: Borehole 'G' within the lorry park area in the south of the site



Plate 22: Recycling area



Plate 1: View of Carrow House (now part of the conference centre)



Plate 2: Canteen to the north of the conference centre



Plate 3: Priory ruins



Plate 4: Garden area in the vicinity of the Priory ruins





Plate 5: View of the former greenhouses now dilapidated amongst dense vegetation



Plate 6: View of the now disused technical (R&D) centre to the west of the conference centre



Plate 7: Grounds maintenance equipment stored in ancillary buildings to the south of the conference centre



Plate 8: Former stables located close to the site's main entrance



Plate 9: Borehole 'H' located within the conference centre parking facilities



Plate 10: Canteen and conference centre looking southeast

---

## APPENDIX F – PRELIMINARY UXO RISK ASSESSMENT

---

**Preliminary UXO Risk  
Assessment**

# STAGE 1 PRELIMINARY UXO RISK ASSESSMENT

REPORT REF: PRA-18-1023 | Revision: 0



1-3 Manor Road, Chatham, Kent, ME4 6AE  
0207 117 2492  
www.brimstoneuxo.com

Client: Leap Environmental Ltd

Project: Carrow Works, Norwich

Date: 06/06/2018

## INTRODUCTION

The Stage 1 Preliminary Risk Assessment is an initial screening assessment designed to highlight any sources of unexploded ordnance (UXO) with the potential to contaminate a given site.

The aim of the Stage 1 assessment is to identify or discount the need for further detailed research - a *Stage 2 Detailed UXO Risk Assessment*.

This desktop assessment has been researched and written by a dedicated Researcher / Risk Assessor and produced in accordance with the **CIRIA Guidelines: C681 - Unexploded Ordnance, a Guide for the Construction Industry** (published in 2009).

In preparation for this assessment, original WWII bombing figures and the *Brimstone UXO Sources Database* has been searched. The latter incorporates multiple datasets plotting the positions of a variety of domestic military sites and confirmed historic German bombing targets.

The Stage 1 Preliminary Risk Assessment considers the following:

1. The Proposed Works
2. Enemy Action during WWI and WWII
3. British / Allied Military Activity
4. Risk Mitigating Factors

## THE SITE AND PROPOSED WORKS

*The Site* is a large, mixed-use parcel of land covering approximately 16.9ha. It comprises the 19<sup>th</sup> Century Grade II listed Carrow Works, several modern office blocks and large commercial buildings, including the Britvic Factory. Some wooded parkland and several car parks also occupy *The Site*.

It is bound to the north by the River Wensum and is located at the junction of Bracondale (road) and King Street in south-east Norwich, Norfolk (Grid Ref: TG 24274 07403).

There are currently no redevelopment plans or ground works proposed for *The Site*.

## ENEMY ACTION DURING WWI AND WWII

Potential Source of UXO	Significant?	Details	
WWI German Bombing	✓	Norwich was subjected to one Zeppelin airship raid during WWI	
WWII German Bombing	✓	British District Bombing Density Statistics	<i>The Site</i> was formerly located within the WWII-era County Borough of Norwich which has a bombing density figure of 85.6 bombs / 1,000 acres - a high bombing density (source: <i>National Archives Home Office Records</i> )
		Local German Bombing Targets	Central Norwich was the target area for heavy bombing raids in 1942 and smaller scale raids throughout the war
		Local Bombing Decoy Sites	None within a significant radius of <i>The Site</i>

German Cross Channel Artillery Shelling	x	n/a
---	---	-----

### BRITISH / ALLIED MILITARY ACTIVITY

Potential Source of UXO	Significant?	Details
Existing or historic Army or RAF Training Areas / Ranges	x	n/a
Existing or historic Military Bases and Other Installations	x	n/a
Existing or historic Munitions or Explosives Factories	x	n/a
Existing or historic Military Storage Depots	x	n/a
Existing or historic Military Defensive Fortifications	x	Remnants of a Type 22 pillbox constructed just 85m south of <i>The Site</i> during WWII persist to this day. This fortification may be indicative of further, since removed defences in the vicinity
WWII Light and / or Heavy Anti-Aircraft (LAA & HAA) Fire	✓	Norwich was defended by HAA batteries during WWII. The frequency of air raids suggests these guns would have expended a large number of shells
WWII Pipe Mined Locations and Beach Minefields	x	n/a

### RISK MITIGATING FACTORS

Post-Conflict Ground Works	Parts of <i>The Site</i> have experienced substantial post-war ground works which will have partly mitigated the risk from UXO in those specific areas. NB: the relationship between UXO and construction works however, means UXO could still remain beneath the footprints of present day buildings. The laying of hard-standing will not have required substantial ground works and greenfield land occupies <i>The Site</i> . Any UXO risk will persist, unmitigated in such areas.
----------------------------	---

### CONCLUSIONS

The high WWII German bombing density experienced over Norwich requires further research to ascertain the specific risk to *The Site*. As such, there is currently considered to be a **Moderate Risk** to future ground works from German UXO. Substantial historic military activity is considered unlikely within this urban area, however local WWII-era fortifications and the fact *The Site* contained open ground historically on the edge of the city suggests further research is required. In addition, the possibility of an unexploded British AA shell striking the site and becoming shallow buried cannot be ruled out. As such, there is currently considered to be a **Low-Moderate Risk** to future ground works from British / Allied UXO.

### RECOMMENDATION:

Brimstone SI recommends a **Stage 2 Detailed Risk Assessment** is carried out to further elucidate the UXO risk to the proposed works  
*NB: The fee for this Stage 1 assessment will be refunded if the Stage 2 assessment is ordered*