# Appendix G – Geo-environmental Phase 1 Report


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# Lake Lothing Crossing, Lowestoft

## Environmental Desk Study Report

January 2017

For Suffolk County Council

Lake Lothing THIRD CROSSING

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The brief includes an assessment of the previous site usage by review of the sources identified in this report. These effectively provide snapshots of the site through time and although a consistent sequence of site usage has been deduced from these records, the possibility of some activity carried out on the site not being identified on these records cannot be excluded.

New information, changed practices or new legislation may necessitate revised interpretation of the report after the date of its submission.

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# EXECUTIVE SUMMARY

| | |
|---|---|
| **Introduction** | Mouchel were contracted by Suffolk County Council to prepare an environmental desk study report for proposed Lake Lothing Third Crossing, Lowestoft. This report assesses the potential soil based environmental risks and liabilities associated with development of the proposed crossing. |
| **Site Location & Description** | The site is located in the centre of Lowestoft town, adjacent to the northern and southern sides of Lake Lothing. The overall study area, (the site) covers an area of approximately 21ha, centred at 653884, 292755 and is a mix of commercial / industrial properties, highway, vacant / derelict land and port quayside. |
| **Site History** | In the late 1800's, the site was largely agricultural / marsh land although some industry was present including railways, works, wharf and a gasometer. Commercial / industrial development continued throughout the 1900's and included further rail development, canning and processing works, ice works and boatbuilding. More recently, new commercial development has occurred, particularly in the southern part of the site. |
| **Geology / Hydrogeology** | The site is underlain by sand of the Happisburgh Formation (Secondary A aquifer). Bedrock is sand of the Crag Group (Principal aquifer).<br>The site lies outside a Source Protection Zone.<br>There are no groundwater abstractions within 500m. |
| **Hydrology** | The Lake Lothing watercourse is recorded as a primary river. There is a culverted watercourse (understood to be Kirkley Sream) beneath the south east part of the site.<br>There are no surface water or potable water abstractions within 2km. The site is within a Zone 3 and Zone 2 floodplain. |
| **Waste Management, Environmental Permits, Incidents and Registers.** | There is one Environment Agency historic landfill in the south east corner of the site and two Local Authority landfills on site recorded on the 1963 mapping.<br>The only valid Environmental Permits, Incidents and Registers on site are a storm sewer overflow discharge on St Peters Street / Rotterdam Road and a permit for discharge of process effluent in Riverside Business Park. |
| **Previous Reports** | Waveney District Council indicated that ground condition information is available on the East Suffolk Council planning website in relation to the site currently occupied by the Council Offices on Canning Road. Ground Investigations identified a potential risk to site users from lead, polyaromatic hydrocarbons, total petroleum hydrocarbons and asbestos containing materials (ACM).<br>Exceedences of groundwater screening values were recorded but concluded to be a negligible risk.<br>Remedial works were undertaken by Kier Construction Ltd and comprised source removal; encapsulation below hard standing and the building and a 600mm soft landscaping cap. Approximately 3480 tonnes of asbestos impacted waste was removed from site including a pocket of amosite materials comprising rope, gaskets, pipe lagging and 'flock'.<br>Ground condition information is also available for the Northumbrian Water site to the west of Riverside Road. Made ground up to 4.2m thick was recorded but no potential risks to human health or controlled waters were identified. Identification and removal of an area of hydrocarbon contamination was undertaken during and after construction to the satisfaction of the Regulators. |
| **Risk Assessment** | The preliminary risk assessment has classified the site as posing a risk to the environment ranging from high to low due to the industrial site history and the potential for contamination to be present across the site. |
| **Recommendations** | A geo-environmental ground investigation is likely to be required to inform the Environmental Statement, the planning process and detailed design. Any intrusive works on the Council Offices site on Canning Road must take into account the remedial measures undertaken at this site to ensure their integrity is not compromised. |

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# 1 Introduction

## 1.1 Terms of Reference

Mouchel were commissioned by Suffolk County Council (SCC) to prepare an Environmental Desk Study in relation to the proposed Lake Lothing Third Crossing, Lowestoft. This report assesses the potential environmental risks, constraints and liabilities associated with the proposed development.

## 1.2 Development Proposals/Legislative Context

The site will be subject to redevelopment works which will include a new bridge and associated highways and new junction arrangements.

The presence of contaminants which may pose a risk to human health or the environment is a material planning consideration. For planning it should be considered whether the site is suitable for its new use, and the responsibility for securing a safe development (including cumulative effects of pollution on health, and the potential sensitivity of the proposed development to adverse effects from pollution), rests with the developer and/or landowner. Planning is concerned with the site's proposed use not its current use.

Section 57 of the Environment Act 1995, adds Part 2A (ss.78A-18YC) to the Environmental Protection Act 1990 and contains the legislative framework for identifying and dealing with contaminated land. Where development is undertaken on land which may be affected by contamination, the National Planning Policy Framework, paragraphs 120 to 122 considers pollution and remediation.

## 1.3 Objectives and Scope

The objective of this study is to assess the potential environmental risks, constraints and liabilities associated with the site in respect of potential redevelopment.

The scope of work comprises:-

- A site walkover undertaken by a suitably qualified Geo-Environmental Scientist,

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- An interpretation of the information obtained from a Groundsure Report,
- A preliminary assessment of potential geo-environmental risks following the methodology of CLR11,
- Recommendations for further investigation/actions if required.

# 2 Desk Study Research

## 2.1 Site Location

The irregular shaped site is located in the centre of Lowestoft to the north and south of the Lake Lothing. The site is bounded to the south by Waveney Drive and to the north by Denmark Road. In the south east, the boundary is marked by the roundabout junction between the A12 and Waveney Drive and also the adjacent dock area. In the south west, the boundary is within a former industrial site immediately to the west of the Waveney Council offices. In the north east, the boundary is at the end of Commercial Road and in the north west, the boundary is at the roundabout junction between Denmark Road and Peto Way.

The site covers an area of approximately 21 ha, centred at National Grid Reference 653884, 292755.

Drawing 1073877/001/011/OD/01 presents the 'Study Area Boundary and Preferred Alignment' and Drawing 1073877/001/011/OD/02 presents the 'Site Location'.

## 2.2 Site Setting and Description

A site walkover was undertaken by a qualified Mouchel Geo-Environmental Engineer on 21st September 2016. Photographs and a photograph location plan are presented in Appendix A.

Access to much of the northern half of the site was not obtained at the time of the walkover and any walkover information for this site was obtained from adjacent publically accessible land.

The site is of mixed use which is summarised below:-

The southern part of the site comprises highway including Waveney Drive, Riverside Road and Canning Road); commercial properties including a car dealership, fork lift truck factory, Essex and Suffolk Water Ltd, a nursery, Waveney District Council offices; hard standing including car parking and areas of derelict land.

The northern part of the site comprises highway including Denmark Road; commercial properties including a small car sales, Wickes DIY store, railway

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land including track and sidings; hard standing including quayside and areas of derelict land.

## 2.3 Adjacent Land Use

The table below summarises the adjacent land uses.

**Table 1: Summary of Adjacent Land uses**

| Direction | Surrounding Land Use |
|---|---|
| North | Residential properties, small commercial / industrial park and a small play park |
| East | Commercial park, industrial area associated with the port / quayside, railway lines and residential properties. |
| South | Residential properties and a small commercial park. |
| West | Derelict land, port / quayside industrial land and commercial properties. |

## 2.4 Environmental Designations and Ecology

No invasive weeds were confirmed during the walkover, although due to access restrictions at some locations, not all of the site was accessible.

The site is entirely located within a groundwater nitrate vulnerable zone and is immediately adjacent to a surface water nitrate vulnerable zone. Three other environmentally sensitive areas are located within 2km of the site:-

- Outer Thames Estuary, 441m to the south east,
- Leathes Ham local nature reserve 103m to the west,
- Norfolk Broads, 1954m to the south west (Environmentally Sensitive Area) and 1176m to the west (National Park).

## 2.5 Site History

The site history has been assessed from a review of historical Ordnance Survey maps from the GroundSure report presented in Appendix B. A

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summary is presented below. A more detailed site history, including the surrounding land is presented in Appendix C.

### *2.5.1 Northern Site Area*

The earliest map provided by GroundSure dated 1883 indicates the site to be predominantly agricultural land with some small buildings and a railway line adjacent to the waterfront area.

Some industrial development occurred in the early 1900's including a railway and associated land through the centre of the site and timber yard at the western end. However, no significant changes occurred until the 1970's when most of the railways had been dismantled and by 1992, a new road (Peto Way) had been constructed through the site.

### *2.5.2 Southern Site Area*

The earliest map provided by GroundSure dated 1883 indicates the site to be predominantly agricultural land with marsh and mudflats. By the early 1900's, many of the mudflats had been removed and formal waterfront wharfs appear to from the waterside area. Some industry is present including unlabelled works and a gasometer marked in the south east corner. By 1926 the gasometer is no longer marked and industrial development including a railway spur line had occurred across a large part of the site. The site remained largely industrial, including canning and processing works, ice works and boatbuilding until circa 2002 when the Riverside Business Park was developed in the centre of the site.

## 2.6 Geology

### *2.6.1 Drift*

The British Geological Survey website (www.bgs.ac.uk) indicates the site is underlain by sand of the Happisburgh Glacigenic Formation.

### *2.6.2 Solid*

The British Geological Survey website (www.bgs.ac.uk) indicates the bedrock geology is composed of sand of the Crag Group.

No faults are recorded by GroundSure within 500m of the site boundary.

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### 2.6.3 *Ground Workings*

GroundSure records a number of historical ground working on site; ponds, unspecified pit, lake, unspecified wharf, quay and a refuse heap. Within 100m of the site boundaries, a number of historical ground workings are also recorded; unspecified wharf, pond, quay, cuttings, sand pit, refuse heap, unspecified heap and unspecified pit.

### 2.6.4 *BGS Boreholes*

Borehole / trial pit records are available from the British Geological Survey (BGS) website **http://www.bgs.ac.uk/data/boreholescans/home.html**. A large number are recorded within the site boundary including offshore within Lake Lothing. A summary of the recorded ground conditions is presented in the table below.

**Table 2: Summary of Available BGS Borehole Records**

| Location | Encountered Ground Conditions | Potential Contamination Identified |
|---|---|---|
| Northern Site Area | **Made ground –** Deposits up to 5m thick generally comprising concretes and tarmacs overlying black ash and clinker, slag, brick fragments, railway fill and sleepers with sandy and silty clays.<br>**Superficial –** Deposits up to 23m thick generally comprising sandy and silty clays, silty sands with peat and chalk and flint gravels.<br>**Bedrock –** Crag Formation encountered at a minimum depth of -18m aOD. Comprises silty sands with occasional shell fragments. | TM59SW136 - Oily odours 1.25-1.5m<br>TM59SW127 – Sulphurous odour 1.6-2.5m<br>TM59SW123 – Oily contamination noted 3-4m |
| Within Lake Lothing | **Made ground –** None recorded<br>**Superficial –** Deposits up to 24.1m thick generally comprising black silts, silty sands and silty clays. There are occasional flint gravel and shell fragments throughout.<br>**Bedrock –** Crag Formation encountered at a minimum depth of -20.05m aOD. Predominantly consisting of silty sands with shell fragments and occasional silty clay. | None recorded |
| Southern Site Area | **Made ground –** Deposits up to 4.35m thick generally comprising reinforced concrete (predominant surface material) overlying black and brown clays and sands. Brick and concrete rubbles, steel, ash and timber are all recorded.<br>**Superficial –** Deposits recorded up to 20m thick comprising alluvial and glaciofluvial sands, silts, clays and gravels. With some shallow peat deposits present further south.<br>**Bedrock –** Crag Formation encountered from -20.09m aOD. Consisting of silty sands with clay pockets and shell fragments. | TM59SW103 – oil odour 1.5-3.2m<br>TM59SW104 – oil odour 1.5-4.35m<br>TM59SW121 – ammoniacal odour 0.5-1.7m |

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## 2.7 Hydrogeology

The superficial deposits underlying the site is classified as a Secondary (A) Aquifer with permeable layers. These are defined by the Environment Agency as permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.

The underlying bedrock is classified as a Principal Aquifer. These are defined by the Environment Agency as layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale.

The GroundSure report indicates the site is not within a Source Protection Zone.

There are no groundwater abstraction points within 500m of the site.

## 2.8 Hydrology

The Lake Lothing watercourse is recorded as a Primary River and there is a culverted watercourse (un-named in the GroundSure report but understood to be Kirkley Stream) beneath the south east part of the site.

No surface water or potable water abstractions are present within 2km of the site.

Much of the site is within Zone 3 and Zone 2 floodplain. The only sections not within floodplain are at the south east, south west, north east and north west corners of the site.

Risk of flooding from the rivers and the sea varies from high in the centre of the site to medium and low towards the edges of the site. The only sections of the site not at risk are in the south east, south west, north east and north west corners of the site.

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## 2.9 Waste Management Facilities

No active Environment Agency landfill sites are present within 1km of the site.

One historic Environment Agency landfill site is present on site in the south east corner of the site. The address is provided as South Inner Harbour, reference WAV35, OFSW36. No other information is provided by GroundSure.

One historic Environment Agency landfill site is present within 500m of the site;- 488m to the north east. The address is provided as Love Road, reference OFSW11, WAV10, 3500/5163. No other information is provided by GroundSure.

No BGS/DoE non-operational landfill sites are present within 500m of the site.

Two Local Authority recorded landfill sites are present on site. No others are present within 500m of the site boundary. Both are recorded on 1963 mapping as refuse tips.

No operational or non-operational waste treatment, transfer or disposal sites are present within 500m of the site.

No Environment Agency licensed waste sites are present on site and only one is recorded within 500m; Brooke Marina, Heath Road, NR33 9LZ, 486m to the west. Recorded as a metal recycling site operated by Mitchell Demolition Ltd and East Point Metal Trading Ltd. Various waste management licence references are provided – 401425, MIT037, EA/EPR/BB3601TF/V002.

## 2.10 Environmental Permits, Incidents and Registers

Records of Environmental Permits or registers on site and within 250m are detailed below.

### *2.10.1 Historic IPC Authorisations*

- 248m to the west – timber process. GroundSure records the status as 'referred to La'.

### *2.10.2 List 1 Dangerous Substances Inventory Sites*

- 215m to the north – M.p.(eastern) Limited. Authorised substance is recorded as mercury (other). Status is recorded as 'active'.

### *2.10.3 List 2 Dangerous Substances Inventory Sites*

- On site – M.R.King and Sons. Authorised substance is recorded as pH, but the status is recorded as 'not active'.
- 226m to the North – Ev Head. Authorised substance is recorded as pH, but the status is recorded as 'not active'.

### *2.10.4 Part A(2) and Part B Activities and Enforcements*

- 87m to the north – Asda Stores Limited. Part B permit relating to the unloading and storage of petrol at service station.
- 188m to the south east – Dudman (Lowestoft) Ltd. Part B permit relating to bulk cement.
- 234m to the south – Aura Graphics Limited. Part B process for screen printing, coating and SED.
- 246m to the south east – Fashion Clean. Part B process for dry cleaning.

None of the above are recorded as having any enforcements.

In addition to the 4 active permits above, there are a further 10 records of historic permits within 250m. None are recorded as having had any enforcements. They relate to; unloading and storage of petrol; cement/lime/mortar; coating and enamelling; timber impregnation.

### *2.10.5 Licensed Discharge Consents*

- On site – St Peters St and Rotterdam Road, CSO. Sewer Storm Overflow. Permit ASETS16977. Status is recorded as 'New consent by application'. Receiving water is not recorded. GroundSure records this same permit 6 times.
- 90m west – Norwich Road CSO's (#1 and #2). Permit ASETS16992 for sewer storm overflow.

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- 163m north east – Shell UK Ltd. Permit NPSWQD000453 for sewage discharge of final/treated effluent.
- 185m south – Belvedere Road overflow. Permit ASETS16995 for sewer storm overflow.

Four records are recorded as 'Pre-NRA legislation where issue date <01-Sept 89'. These are detailed below;

- On site – Riverside Business Park. Permit PR4TS605 for discharge of process effluent.
- 18m west – Norwich Road /Denmark Road. Permit AW4TS1413 for discharge of surface water.
- 21m south east – Rotterdam and Gorleston Roads CSOS. Permit AW4NF328X for sewer storm overflow.
- 134m south – British Parts Building, Norfolk Quay Road. Permit PR4TS1013X for sewage discharge of final/treated effluent.

A further 5 records are for revoked permits and have therefore not be detailed here.

### *2.10.6 Planning Hazardous Substance Consents and Enforcements*

Two records of hazardous substance consents are recorded by GroundSure within 250m of the site, both for storage of ammonium nitrate at North Quay Cargo Terminal but both applications were refused.

### *2.10.7 National Incidents Recording System, List 2*

Thirteen records of incidents are recorded by GroundSure within 250m of the site generally relating to; construction and demolition wastes; tyres; vehicles and parts; other specific waste material; final effluent; sewage; smoke; firefighting run-off.

## 2.11 Natural Ground Hazards

The table below summarises the natural ground subsidence findings presented in the GroundSure report.

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**Table 3: Summary of Natural Ground Hazards**

| Natural Hazard | Hazard Potential |
|---|---|
| Shrink Swell Clay | Varies from negligible to low |
| Landslides | Very low |
| Dissolution of soluble rocks | Negligible |
| Compressible ground | Varies from Moderate to negligible |
| Collapsible deposits | Varies from very low to negligible |
| Running sand | Varies from moderate to very low |

## 2.12 Mining, Extraction and Natural Cavities

The site is not in an area likely to be affected by historical mining, coal mining, non-coal mining, natural cavities, brine extraction, gypsum extraction, tin mining or clay mining.

## 2.13 Radon

The GroundSure report indicates the site is not in a radon affected area and any new buildings if required as part of the proposed development do not require radon protection measures.

## 2.14 Part 2A Determination

GroundSure does not record any locations within the site as being determined as contaminated land.

## 2.15 Existing Reports – Canning Road Council Offices

Waveney District Council have indicated that ground conditions information for the Council Offices site on Canning Road is available on the East Suffolk Council planning website (**www.eastsuffolk.gov.uk**). Four reports have been identified under three different planning permissions (DC/13/0743/RG3; DC/13/3017/DRC; DC/15/1654/DRC), all relating to the construction of the Council Offices:-

- Environmental Review and Desk Study Report, reference 13578DS prepared by RSA Geotechnics Ltd dated June 2013;

- Interpretative Report, Ground Investigation Report Number 13578GI prepared by RSA Geotechnical Ltd dated July 2013;

- Phase III Remediation Method Statement, reference NG13/015/RMC prepared by JPC Environmental Services dated October 2013.

- Phase IV Environmental Remediation and Validation Report, reference NG13/015/RMC/v1.1, prepared by JPC Environmental Services dated April 2015.

These four report are briefly summarised below. It is understood from Waveney District Council that the small site adjacent to the Council offices (currently occupied by the Register Office, car park and vacant land) was historically part of the same industrial site on which the Council offices were constructed. However, the remedial works undertaken during construction of the Council offices were not undertaken on the Register Office site. As such, the ground conditions are likely to be similar to the Council offices site prior to remediation being carried out. Any ground investigation or construction works carried out on the Council offices site must take into account the remedial measures in place to ensure their continuing integrity.

### *2.15.1 Environmental Review and Desk Study Report, reference 13578DS prepared by RSA Geotechnics Ltd dated June 2013.*

**Terms of Reference**

The Introduction section indicates that RAS Geotechnics Ltd (RSA) were employed by JPC Environmental Services Ltd to prepare a desk study for a proposed office redevelopment.

**Site History**

The site is reported to have been undeveloped in the 1880's but by 1905 houses are present in the north, sand pits in the south and west and an unlabelled building in the east. By the 1950's the sand pits were marked as refuse heaps and the building in the east had been demolished. Through the late 1900's, the refuse heap was no longer marked and various buildings were constructed including a depot by 1992 and part of the site was occupied by a coach company.

**Previous Investigations**

Two previous phases of ground investigations are noted by RSA – one in 2006 by WES and a second in 2007 by White Young Green Environmental Ltd (WYG).

The WES investigation was undertaken while part of the site was an operational coach company. RSA summarised the findings and indicate the scope of works comprised six window samples, two dynamic probes and two gas monitoring wells. Above ground and below ground storage tanks are reported as well as a pump island and wash down areas.

Made ground was recorded to at least 1.8m depth and underlain by natural sand deposits. Chemical testing was undertaken but none of the results exceeded the commercial / industrial screening values used at the time.

The later WYG investigation comprised eleven cable percussion boreholes, eight window samples and eight machine excavated trial pits. Made ground to at least 4m depth was reported. Chemical testing reported elevated benzo(a)pyrene, lead, benzo(b)fluoranthene, total petroleum hydrocarbons, copper and zinc. Asbestos was reported in samples from outside of the RSA study area. Elevated ground gas to Characteristic Situation 2 was also reported.

**Conclusions and recommendations**

RSA Geotechnics Ltd conclude that potential contaminants are likely to be present and elevated concentrations were identified by previous investigations.

A targeted ground investigation was recommended to assess previously identified contamination sources.

### *2.15.2 Interpretative Report, Ground Investigation Report Number 13578GI prepared by RSA Geotechnical Ltd dated July 2013.*

**Terms of Reference**

The Introduction Section indicates that RSA were employed by JPC Environmental Services Ltd to undertake a ground investigation at the site following completion of the above desk study report.

**Ground Investigation Scope**

The scope of works comprised fifteen window samples, twelve dynamic probes, three cable percussion boreholes and three gas / groundwater monitoring wells.

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### Ground Conditions

RSA report that made ground up to 4.3m thick was recorded as brown to dark brown slightly silty medium to coarse sand and sandy clay with some gravel sized concrete and yellow and red brick fragments and occasional gravel sized fragments of clinker, slag, metal, roots and rootlets. Suspected cement bound asbestos fragments were recorded in one location. Natural soils were recorded as stiff brown silty clay and loose to medium dense light orange brown to grey brown slightly silty fine to coarse sand.

Groundwater was observed between 2.3m and 3.9m below ground level.

### Risk Assessment

RSA identified the following determinands that could pose a potential risk to human health and will require remedial measures to mitigate;-

- A low risk from a hotspot of lead,
- A low risk from polyaromatic hydrocarbons, particularly benzo(a)pyrene,
- A low risk from total petroleum hydrocarbons,
- A moderate risk of asbestos containing materials.

Some exceedences of groundwater screening values were recorded but RSA conclude that a negligible risk to controlled waters exists.

A negligible risk from ground gas was also identified.

### Remediation Strategy

The following remediation strategy was proposed by RSA Geotechnical Ltd:-

- Clean cover system comprising a minimum of 300mm thickness in all landscaping areas,
- Removal of all underground fuel storage tanks and validation of the excavations. Placement of clean inert fill in tank excavations,
- Removal of asbestos containing materials (ACM's) as and when encountered.

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### *2.15.3 Phase III Remediation Method Statement, reference NG13/015/RMC prepared by JPC Environmental Services dated October 2013.*

**Terms of Reference**

This report was prepared by JPC Environmental Services Ltd (JPC) for Concertus Ltd on behalf of Suffolk County Council and Waveney District Council.

**Background Information**

This section summarises the previous reports and is therefore not summarised again here.

**Remedial Options Appraisal**

This Section details the options for treatment of each of the identified risks and Mouchel have summarised the main points only.

- Source Removal/treatment in the area of the former tank farm and pump island - extraction of all buried structures that may be contaminated with oil. Affected soils will be screened and aerated with further treatment as required. Post-treatment materials to be removed from site or considered for re-use. Asbestos may also be present within these materials and contaminated material to be removed by hand.

- Cover system - A simple plan of encapsulating the onsite contamination below the proposed building and hard standing car park footprint. Areas beyond the footprint will require a 600mm soft landscaping cap over a geotextile layer.

- Services - Upgrades to pipes may be required dependent upon TPH concentrations around the proposed development. Protecta-line barrier pipe is suggested.

- Ground Gas – No gas protection measures deemed necessary following a study over a six week period.

- Imported topsoil – Minimising the risk to end users requires a quality topsoil material. This should be obtained from a reputable vendor accompanied by relevant documentation. Supplied material should be in accordance with BS3882:2007 with appropriate testing prior to use.

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- Waste disposal - The intrusive investigation suggests that the made ground should be classed as non-hazardous. Isolated pockets of material containing elevated levels of hydrocarbons or asbestos containing materials (ACM) will cause waste to be classified as hazardous. Volumes can be minimised using an appropriate discovery strategy, separating potentially contaminated materials for treatment.

### *2.15.4 Phase IV Environmental Remediation and Validation Report, reference NG13/015/RMC/v1.1, prepared by JPC Environmental Services dated April 2015.*

**Terms of Reference**

JPC were contracted by Kier Construction Ltd (the Principal Contractor) to document and validate the remedial works and the final site condition.

**Brief / Background and Methodology**

This Section details the background and methodologies that have already been summarised by Mouchel above and have therefore not been summarised again here.

**Unforeseen Items / Incidents of Contamination**

A pocket of amosite material was identified and comprised rope, gaskets, pipe lagging and 'flock'. 'Dig and dump' was determined as the most appropriate method of dealing with this contamination. Galvanised tanks containing asbestos were encountered and removed accordingly under a similar strategy.

**Material Treated / Reused / Removed from Site**

Approximately 3,478 tonnes of asbestos impacted waste was reported as being removed from site.

1,100m$^3$ of soil was removed from site to construct the piling mat and approximately 220m$^3$ of surplus soil was also removed from site.

5,000m$^3$ of made ground was excavated, screened and re-processed for use as 6F1 and 6F2 capping material.

1,000m$^3$ of natural sand was excavated and re-used to backfill excavations and used as oversite for the car park.

1,156 tonnes of topsoil was imported for the landscaping areas.

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**Final Site Conditions**

JPC make the following conclusions:-

Remediation was completed to the pre-agreed standard. The discovery and disposal of unforeseen asbestos was dealt with appropriately. For future deep excavations in areas where no remediation took place, contaminant risks are considered to be HIGH. No significant contaminant concentrations were present in the imported topsoil resulting in negligible risks to future site users under currently proposed land uses.

## 2.16 Existing Reports – Other Sites

A further four planning applications have been identified by Suffolk County Council as being of potential interest to the site area. Information is available on the Waveney District Council planning portal and is summarised below.

### *2.16.1 Application 08/046*

Application for landscaping and remodelling of land adjacent to Riverside Road. The site area covers the vacant land to the west of Riverside Road and to the north of Waveney Drive up to Lake Lothing, including the land currently occupied by the Waveney District Council Offices. No documents or reports specifically relating to contaminated land or ground conditions are available on the Waveney District Council planning portal but contaminated land is mentioned in two pieces of correspondence but no detail is discussed. The application is recorded as 'withdrawn'.

### *2.16.2 Application 11/1224*

Application for construction of a non-food retail warehouse development and associated car parking and access arrangements on the former coal depot site on Denmark Road to the north of Lake Lothing. A desk study was prepared by LK Consult Ltd and is summarised below. No other documents related to contaminated land were available on the planning portal. The application is recorded as 'refused'.

**LK Consult Ltd Desk Study – reference CL-602-1375-01 dated November 2011.**

LK Consult Ltd were commissioned by CA Planning on behalf of Lausanne Investments Ltd to prepare a Preliminary Risk Assessment to support a future planning application.

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The site history Section indicates the site was occupied by a number of historical uses including; hotel, orchard, un-named building, railway sidings and cutting, depot, garage (later labelled as a works, then as a tank) and a depot.

LK Consult Ltd conclude that potential contaminants may be present from the historical site uses and could include heavy metals, polyaromatic hydrocarbons, glycols, asbestos and petroleum hydrocarbons. Hazardous and ground gases are also identified as potentially present. Recommendations are made for an intrusive ground investigation which should include soil sampling for both chemical and geotechnical testing.

Mouchel are not aware if a ground investigation was undertaken.

### *2.16.3 Application 12/1391*

Application by Northumbrian Water for development of commercial offices and car parking. The site area is to the west of Riverside Road and is currently occupied by the development relevant to this planning application.

Four reports have been identified under the planning application and relate to investigation of the site and discharge of the planning conditions:-

- Factual Report, reference C12677 prepared by Ground Engineering dated May 2012;
- Geotechnical and Geoenvironmental Report reference 41519561Geo prepared by MWH Ltd dated July 2012;
- Letter report, reference GTS-13-339_01 prepared by Ground Technology Services dated 4th December 2013.
- Letter report, reference GTS-13-339_02 prepared by Ground Technology Services dated 24th January 2014.

These four report are briefly summarised below. It is considered unlikely that any works associated with the proposed third crossing will significantly interact with land within the Northumbrian Water site boundary. However, given the proximity it is considered prudent to review the available information.

**Factual Report, reference C12677 prepared by Ground Engineering dated May 2012.**

Ground Engineering undertook the ground investigation for MWH Ltd. The site works consisted of three cable percussion boreholes (BH1-BH3) drilled to between 6m and 12m depth and fifteen machine excavated trial pits (TP1 – TP15) excavated to between 1.5m and 3.5m depth. Sampling included soil and water samples and in-situ testing included falling head permeability tests and landfill gas monitoring.

**Geotechnical and Geoenvironmental Report reference 41519561Geo prepared by MWH Ltd dated July 2012.**

MWH prepared a desk study and ground investigation report for Northumbrian Water (trading as Essex and Suffolk Water). The site was historically occupied by the Ragland fish curing and canning works.

Made ground was recorded during the works between 0.1 and 4.2m thick and generally comprised sand and gravel containing brick, clinker, ash and occasionally asphalt. The underlying natural strata comprised alluvial clay and Happisburgh Sand.

A Tier 1 risk assessment was carried out for both human health and controlled waters and did not identify any exceedences. Gas monitoring did not identify any elevated methane or carbon dioxide concentrations.

For waste disposal purposes, no hazardous properties were identified and MWH report that excavated soils were likely to be classed as inert for disposal purposes.

**Letter report, reference GTS-13-339_01 prepared by Ground Technology Services dated 4th December 2013.**

Ground Technology Services (GTS) were instructed to observe and report on a remediation excavation. Hydrocarbon contamination was previously identified during the construction works and removed but Waveney District Council have subsequently instructed the Construction Contractor to undertake further remediation / excavation. GTS took validation samples from the excavations and tested for total petroleum hydrocarbons and 3 band total petroleum hydrocarbons. GTS report that the validation results indicate a slight residual amount of hydrocarbon contamination remains but conclude there is unlikely to be any risk to the identified receptors.

Photographs, chemical test results and waste transfer notes are appended to the letter report.

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**Letter report, reference GTS-13-339_02 prepared by Ground Technology Services dated 24th January 2014.**

GTS were instructed by R G Carter Ltd to undertake a risk assessment for an unquantified area of hydrocarbon contamination that may be present below the floor slab of the building. No additional testing was carried out other than that reported in the GTS letter report dated 4th December 2013.

GTS have undertaken their risk assessment using information presented within the MWH report reference 41519561 and conclude that the risks to all receptors is low or negligible.

### *2.16.4 Application 13/3482*

Application for the demolition of existing industrial units and development of mixed use infrastructure including residential, commercial, a marina, primary school and associated highways and open space.

An Environmental Statement was completed and the application approved but it is located approximately 750m to the west of the proposed third crossing site and is therefore considered to be too far away to be of relevance to this environmental desk study.

## 2.17 Buried Services

A review of buried services is beyond the scope of this report but it should be noted that a fibre optic cable is located close to the car park to the Council offices and runs towards the Register Office. Any intrusive works undertaken in this area must take precautions to avoid damaging this data cable.

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# 3 Preliminary Assessment

## 3.1 Ground Model

The site is generally level, although there is a small rise towards the north west corner of the site. Published geological maps indicate glaciofluvio sand underlies the site. Bedrock geology is also composed of sand.

Historical maps indicate the site was predominantly agricultural and marshland in the late 1800's prior to development which has comprised some residential properties, but is mostly industrial in nature (some of which could have resulted in potentially significant sources of contamination), including boatbuilding, railways, canning and processing, ice works, unlabelled factories and tanks and a gasworks.

## 3.2 Potential Contaminant Linkages

### *3.2.1 Potential Sources*

The table below summarises the potential sources of contamination.

**Table 4: Summary of Potential Sources of Contamination**

| Ref | Primary source | Expected distribution | Likely contaminants |
|---|---|---|---|
| S1 | Potentially contaminated made ground | Site wide but contamination is anticipated to be discontinuous pockets associated with the differing historic industrial uses. | Heavy metals, asbestos, hydrocarbons, polychlorinated biphenyls, organotins and organochloride pesticides. |
| S2 | Potentially contaminated silt | Within the waterbody or immediately adjacent to the waterbody. Potential for mobilisation during the construction works or scoured due to changes in water flow post construction. | Heavy metals, organotins, polychlorinated biphenyls, hydrocarbons, organochloride pesticides. |

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### 3.2.2 *Potential Receptors*

The table below details the potential receptors.

**Table 5: Potential receptors**

| Ref | Receptor | Description |
|---|---|---|
| R1 | Site users | Future site users, visitors and maintenance workers. |
| R2 | Adjacent site users | Residents of nearby properties |
| R3 | Controlled waters | Secondary (A) aquifers and surface watercourses |
| R4 | On site infrastructure | Buildings, foundations and buried services. |
| R5 | Marine Ecology | Vertibrates and invertebrates within Lake Lothing |

### 3.2.3 *Potential Pathways*

The table below details the potential pathways.

**Table 6: Potential pathways**

| Ref | Pathway | Description |
|---|---|---|
| P1 | Direct contact | Soil contaminants could come into direct contact with the site users. |
| P2 | Ingestion | Soil derived contaminants could be ingested. |
| P3 | Inhalation of fugitive dust | During dry dusty conditions, contaminated dust could be inhaled by site users and adjacent site users. |
| P4 | Leaching and vertical / lateral migration of contaminants | Contaminants could leach and migrate into the underlying aquifers and the surface watercourse including as a result of construction activities such as piling. |

## 3.3 Risk Evaluation

Each potential contaminant linkage is identified in Table 7 below . This assumes redevelopment with no remediation. An evaluation of the risk that each pollutant linkage poses to the project has been undertaken in general accordance with CIRIA guidance document C552, 2001. Risk classification matrices are presented in Appendix D.

The evaluation and the resultant actions identified are based on the available information presented within this report. Once the final design is known it may be necessary to review the risk evaluation.

During development, there is a potential for short term risk to construction workers and the general public. These should be assessed and mitigated by the construction Con tractor under the CDM 2015 Regulations.

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## Table 7: Potential Contaminant Linkages

| 1. Hazard Identification | 2. Hazard Assessment | | 3. Risk Estimation | | 4. Risk Evaluation | 5. Managing the Risk |
|---|---|---|---|---|---|---|
| **Contaminant Source** | **Receptor** | **Pathway** | **Consequence of risk being realised** | **Probability of risk being realised** | **Classification** | **Discussion / Action required** |
| S1 – Potentially contaminated made ground | R1 – Site Users | P1 – Direct Contact | Medium | Unlikely | Low | From the previous uses across the site, an environmental ground investigation is likely to be required. It may be possible to incorporate this into any geotechnical investigation to assess ground conditions for foundation design, which may reduce costs. |
| | | P2 – Ingestion | Medium | Unlikely | Low | |
| | | P3 – Inhalation of fugitive dust | Medium | Low | Moderate | |
| | | P5 – Migration and inhalation of ground / landfill gas | Minor | Unlikely | Very Low | |
| | R2 – Adjacent Site Users | | Minor | Unlikely | Very Low | |
| | | P3 – Inhalation of fugitive dust | Medium | Low | Moderate | |
| | R3 – Controlled Waters | P4 – Leaching and vertical / lateral migration of contaminants | Severe | Likely | High | |
| | R4 – Site Infrastructure | P1 – Direct Contact | Mild | Likely | Moderate / Low | |
| | R5 – Marine Ecology | | Severe | Likely | High | |
| | | P2 – Ingestion | Severe | Likely | High | |
| | | P4 – Leaching and vertical / lateral migration of contaminants | Severe | Likely | High | |
| S2 – Potentially contaminated silt | R3 – Controlled Waters | P4 – Leaching and vertical / lateral migration of contaminants | Severe | Likely | High | |
| | R4 – Site Infrastructure | P1 – Direct Contact | Mild | Low | Low | |
| | R5 – Marine Ecology | | Severe | Likely | High | |
| | | P2 – Ingestion | Severe | Likely | High | |
| | | P4 – Leaching and vertical / lateral migration of contaminants | Severe | Likely | High | |

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## 3.4 Potential Waste and Sustainability Considerations

The site is proposed to be redeveloped for a new bridge and associated highway. Detailed designs are not available at this stage, but surplus soils may be generated during the redevelopment works. It is possible that these would need to be disposed of off site to a suitably licensed facility if there cannot be certainty of re-use for them within the development under a Materials Management Plan.

## 3.5 Safety, Health and Environmental Considerations

With respect to any proposed ground investigation, the site should be classified in accordance with the SISG "Guideline Notes for the Safe Investigation by Drilling of Landfills and Contaminated Land''. This document makes recommendations for carrying out site investigation on landfills and potentially contaminated ground. Appendix IV of the guidance sets out a record of assessment for potentially contaminated sites, to be completed as part of the ground investigation contract.

Site personnel involved with any intrusive works, including site investigations or maintenance works should be appropriately qualified with experience of working on potentially contaminated sites. Those working in close proximity to fill materials should wear appropriate personal protective equipment. A reasonable standard of hygiene should be maintained.

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# 4 Conclusions

## 4.1 Key Findings

The desk study has indicated that the site was generally agricultural land with some marsh/mudflats and minor development until the later 1800's / early 1900's when industrial development started including a railway, boatbuilding, gasworks and factories.

The site is expected to be underlain by demolition and fill material which could be contaminated. Ground gas / landfill gas may be generated by the fill material and could migrate to impact adjacent site users and infrastructure.

From the information reviewed above, contaminated made ground is expected but is unlikely to be sufficiently contaminated or sufficiently widespread to pose a significant constraint for an infrastructure project such as this.

The potential for environmental liabilities is considered likely to be in the range **high to low** due to the potential for contaminated made ground and / or silts to be present on site derived from a variety of former industrial uses. The high risks are associated with the controlled waters and marine ecology receptors.

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# 5 Recommendations

## 5.1 Ground Investigation

A ground investigation is likely to be required to inform the Environmental Statement, the planning process and detailed design. It is possible that, to reduce costs, works could be incorporated into a geotechnical investigation for foundation design.

The ground investigation should include sampling and chemical testing of the major strata encountered including the silts within the Lake.

Any ground investigation works at or close to the Council offices site must take into account the likelihood that asbestos would be encountered as well as the remedial measures put in place to ensure their continued integrity

## 5.2 Urgent Actions

No urgent actions are considered necessary.

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# References

British Geological Survey, www.bgs.ac.uk.

Environment Agency;
https://www.gov.uk/government/organisations/environment-agency

BS5930, 2015. Code of Practice for Site Investigations, BSI.

BS10175, 2011. Code of Practice for the Investigation of Potentially Contaminated Sites, BSI.

C552, 2001. Contaminated Land Risk Assessment, A Guide to Good Practice, CIRIA/DETR.

Department for Environment, Food and Rural Affairs and the Environment Agency, 2004. Model procedures for the management of land contamination (CLR11).

Environment Agency, 2006: Underground, Under Threat, Groundwater Protection: Policy and Practice.

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# Appendix A – Photograph Log

*Photograph 1,*

*Photograph 2,*

*Photograph 3,*

*Photograph 4,*

*Photograph 5,*

*Photograph 6,*

*Photograph 7,*

*Photograph 8,*

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*Photograph 42,*

*Photograph 43,*

*Photograph 44,*

*Photograph 45,*

# Appendix B – Figures

CENTREMAPS

Open Space, Upper Interfields,
Worcester, WR14 1UT

| | |
|---|---|
| Groundsure Reference: | CMAPS-CM-535051-16287-070616EDR |
| Your Reference: | 16287 |
| Report Date | 7 Jun 2016 |
| Report Delivery Method: | Email - pdf |

## Groundsure Enviro Insight

Address: Denmark Road Lowestoft,

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviro Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 01886 832972 quoting the above CENTREMAPS reference number.

Yours faithfully,

CENTREMAPS

Enc.
Groundsure Enviroinsight

# Groundsure Enviro Insight

| | |
|---|---|
| **Address:** | **Denmark Road Lowestoft,** |
| **Date:** | **7 Jun 2016** |
| **Reference:** | **CMAPS-CM-535051-16287-070616EDR** |
| **Client:** | **CENTREMAPS** |

NW N NE

W E

SW S SE

Aerial Photograph Capture date: 10-Oct-2014
Grid Reference: 653884,292755
Site Size: 21.42ha

Report Reference: CMAPS-CM-535051-16287-070616EDR
Client Reference: 16287

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# Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

| Section 1: Historical Industrial Sites | On-site | 0-50 | 51-250 | 251-500 |
|---|---|---|---|---|
| 1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping | 94 | 51 | 108 | 85 |
| 1.2 Additional Information – Historical Tank Database | 39 | 26 | 43 | 51 |
| 1.3 Additional Information – Historical Energy Features Database | 25 | 5 | 43 | 67 |
| 1.4 Additional Information – Historical Petrol and Fuel Site Database | 0 | 0 | 0 | 0 |
| 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database | 20 | 4 | 28 | 0 |
| 1.6 Potentially Infilled Land | 19 | 15 | 58 | 35 |

| Section 2: Environmental Permits, Incidents and Registers | On-site | 0-50m | 51-250 | 251-500 |
|---|---|---|---|---|
| 2.1 Industrial Sites Holding Environmental Permits and/or Authorisations | | | | |
| 2.1.1 Records of historic IPC Authorisations | 0 | 0 | 3 | 4 |
| 2.1.2 Records of Part A(1) and IPPC Authorised Activities | 0 | 0 | 0 | 3 |
| 2.1.3 Records of Red List Discharge Consents | 0 | 0 | 0 | 0 |
| 2.1.4 Records of List 1 Dangerous Substances Inventory sites | 0 | 0 | 1 | 0 |
| 2.1.5 Records of List 2 Dangerous Substances Inventory sites | 1 | 0 | 1 | 6 |
| 2.1.6 Records of Part A(2) and Part B Activities and Enforcements | 0 | 5 | 9 | 1 |
| 2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations | 0 | 0 | 0 | 0 |
| 2.1.8 Records of Licensed Discharge Consents | 8 | 3 | 10 | 11 |
| 2.1.9 Records of Water Industry Referrals | 0 | 0 | 0 | 0 |
| 2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site | 0 | 0 | 2 | 0 |
| 2.2 Records of COMAH and NIHHS sites | 0 | 0 | 0 | 0 |
| 2.3 Environment Agency Recorded Pollution Incidents | | | | |
| 2.3.1 National Incidents Recording System, List 2 | 8 | 0 | 5 | 4 |
| 2.3.2 National Incidents Recording System, List 1 | 0 | 0 | 0 | 0 |
| 2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990 | 0 | 0 | 0 | 0 |

| Section 3: Landfill and Other Waste Sites | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-1500 |
|---|---|---|---|---|---|---|
| 3.1 Landfill Sites | | | | | | |
| 3.1.1 Environment Agency Registered Landfill Sites | 0 | 0 | 0 | 0 | 0 | Not searched |
| 3.1.2 Environment Agency Historic Landfill Sites | 1 | 0 | 0 | 1 | 11 | 6 |
| 3.1.3 BGS/DoE Landfill Site Survey | 0 | 0 | 0 | 0 | 1 | 0 |
| 3.1.4 Records of Landfills in Local Authority and Historical Mapping Records | 2 | 0 | 0 | 0 | 7 | 2 |
| 3.2 Landfill and Other Waste Sites Findings | | | | | | |
| 3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 3.2.2 Environment Agency Licensed Waste Sites | 0 | 0 | 0 | 1 | 3 | 1 |

| Section 4: Current Land Use | On-site | 0-50m | 51-250 | 251-500 |
|---|---|---|---|---|
| 4.1 Current Industrial Sites Data | 18 | 21 | 82 | Not searched |
| 4.2 Records of Petrol and Fuel Sites | 1 | 1 | 1 | 0 |
| 4.3 National Grid Underground Electricity Cables | 0 | 0 | 0 | 0 |
| 4.4 National Grid Gas Transmission Pipelines | 0 | 0 | 0 | 0 |

| Section 5: Geology | |
|---|---|
| 5.1 Are there any records of Artificial Ground and Made Ground present beneath the study site? | Yes |
| 5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site? | Yes |
| 5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section. | |

| Section 6: Hydrogeology and Hydrology | 0-500m |
|---|---|
| 6.1 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site? | Yes |
| 6.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site? | Yes |

| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|---|---|---|---|---|---|---|
| 6.3 Groundwater Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 1 | 3 |
| 6.4 Surface Water Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.5 Potable Water Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.6 Source Protection Zones (within 500m of the study site) | 0 | 0 | 0 | 1 | Not searched | Not searched |
| 6.7 Source Protection Zones within Confined Aquifer | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site) | 1 | 0 | 0 | 0 | Not searched | Not searched |

| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-1500 |
|---|---|---|---|---|---|---|

## Section 6: Hydrogeology and Hydrology

| | 0-500m | | | | | |
|---|---|---|---|---|---|---|
| 6.9 Is there any Environment Agency information on river quality within 1500m of the study site? | No | No | No | No | No | No |
| 6.10 Detailed River Network entries within 500m of the site | 2 | 1 | 4 | 4 | Not searched | Not searched |
| 6.11 Surface water features within 250m of the study site | Yes | No | Yes | Not searched | Not searched | Not searched |

## Section 7: Flooding

| | |
|---|---|
| 7.1 Are there any Enviroment Agency Zone 2 floodplains within 250m of the study site? | Yes |
| 7.2 Are there any Environment Agency Zone 3 floodplains within 250m of the study site | Yes |
| 7.3 What is the Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site? | High |
| 7.4 Are there any Flood Defences within 250m of the study site? | No |
| 7.5 Are there any areas benefiting from Flood Defences within 250m of the study site? | No |
| 7.6 Are there any areas used for Flood Storage within 250m of the study site? | No |
| 7.7 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site? | Limited potential |
| 7.8 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas? | Low |

## Section 8: Designated Environmentally Sensitive Sites

| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|---|---|---|---|---|---|---|
| 8.1 Records of Sites of Special Scientific Interest (SSSI) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.2 Records of National Nature Reserves (NNR) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.3 Records of Special Areas of Conservation (SAC) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.4 Records of Special Protection Areas (SPA) | 0 | 0 | 0 | 1 | 0 | 0 |
| 8.5 Records of Ramsar sites | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.6 Records of Ancient Woodlands | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.7 Records of Local Nature Reserves (LNR) | 0 | 0 | 1 | 0 | 0 | 0 |
| 8.8 Records of World Heritage Sites | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.9 Records of Environmentally Sensitive Areas | 0 | 0 | 0 | 0 | 0 | 1 |
| 8.10 Records of Areas of Outstanding Natural Beauty (AONB) | 0 | 0 | 0 | 0 | 0 | 0 |

## Section 8: Designated Environmentally Sensitive Sites

| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|---|---|---|---|---|---|---|
| 8.11 Records of National Parks | 0 | 0 | 0 | 0 | 0 | 1 |
| 8.12 Records of Nitrate Sensitive Areas | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.13 Records of Nitrate Vulnerable Zones | 1 | 1 | 0 | 0 | 0 | 0 |
| 8.14 Records of Green Belt land | 0 | 0 | 0 | 0 | 0 | 0 |

## Section 9: Natural Hazards

| | |
|---|---|
| 9.1 What is the maximum risk of natural ground subsidence? | Moderate |
| 9.1.1 What is the maximum Shrink-Swell hazard rating identified on the study site? | Low |
| 9.1.2 What is the maximum Landslides hazard rating identified on the study site? | Very Low |
| 9.1.3 What is the maximum Soluble Rocks hazard rating identified on the study site? | Negligible |
| 9.1.4 What is the maximum Compressible Ground hazard rating identified on the study site? | Moderate |
| 9.1.5 What is the maximum Collapsible Rocks hazard rating identified on the study site? | Very Low |
| 9.1.6 What is the maximum Running Sand hazard rating identified on the study site? | Moderate |
| 9.2 Radon | |
| 9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? | The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level. |
| 9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? | No radon protective measures are necessary. |

## Section 10: Mining

| | |
|---|---|
| 10.1 Are there any coal mining areas within 75m of the study site? | No |
| 10.2 Are there any Non-Coal Mining areas within 50m of the study site boundary? | No |
| 10.3 Are there any brine affected areas within 75m of the study site? | No |

# Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

## 1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

## 2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

## 3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

## 4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

## 5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

## 6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licenses, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

## 7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

## 8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

## 9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

## 10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

## 11. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

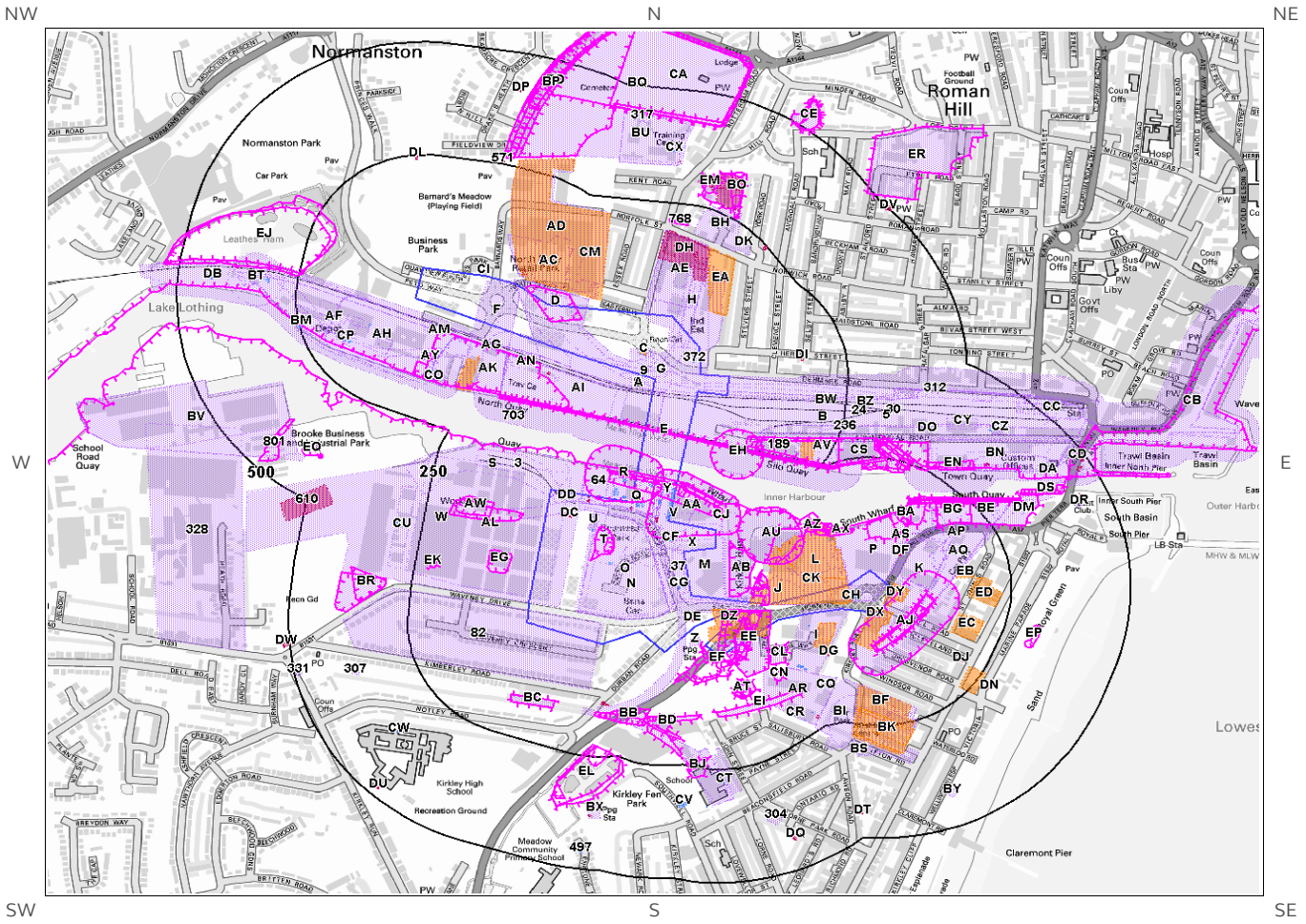
## Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier “A” on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as “Not Shown”.

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

# 1. Historical Land Use

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Site Outline

250
500
Search Buffers (m)

Historical 1:10,000 and 1:10,560 scale mapping

Industrial Land Use

Potentially Infilled Land

Historical 1:2,500, 1:1,250 and 1:500 scale mapping

Energy Features

Petrol Stations

Tanks

Garages

Report Reference: CMAPS-CM-535051-16287-070616EDR
Client Reference: 16287

# 1. Historical Industrial Sites

## 1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 338

| ID | Distance [m] | Direction | Use | Date |
|---|---|---|---|---|
| 1A | 0 | On Site | Railway Sidings | 1974 |
| 2S | 0 | On Site | Railway Sidings | 1974 |
| 3 | 0 | On Site | Railway Sidings | 1992 |
| 4B | 0 | On Site | Goods Yard | 1904 |
| 5 | 0 | On Site | Railway Sidings | 1883 |
| 6A | 0 | On Site | Railway Sidings | 1951 |
| 7D | 0 | On Site | Unspecified Pit | 1974 |
| 8 | 0 | On Site | Railway Sidings | 1982 |
| 9 | 0 | On Site | Railway Sidings | 1904 |
| 10B | 0 | On Site | Railway Sidings | 1992 |
| 11C | 0 | On Site | Unspecified Depot | 1974 |
| 12C | 0 | On Site | Unspecified Depot | 1982 |
| 13G | 0 | On Site | Railway Building | 1904 |
| 14E | 0 | On Site | Quay | 1946 |
| 15BW | 0 | On Site | Railway Sidings | 1946 |
| 16D | 0 | On Site | Unspecified Pit | 1982 |
| 17C | 0 | On Site | Unspecified Depot | 1992 |
| 18E | 0 | On Site | Railway Building | 1883 |
| 19H | 0 | On Site | Unspecified Yard | 1951 |
| 20F | 0 | On Site | Timber Yard | 1904 |
| 21Q | 0 | On Site | Unspecified Tank | 1938 |
| 22AI | 0 | On Site | Coal Yard | 1938 |
| 23F | 0 | On Site | Timber Yard | 1938 |
| 24 | 0 | On Site | Goods Yard | 1938 |
| 25G | 0 | On Site | Railway Building | 1938 |
| 26C | 0 | On Site | Railway Building | 1938 |
| 27BZ | 0 | On Site | Railway Sidings | 1938 |
| 28H | 0 | On Site | Tramway Sidings | 1938 |
| 29H | 0 | On Site | Unspecified Depot | 1992 |
| 30 | 0 | On Site | Railway Sidings | 1904 |
| 31R | 0 | On Site | Unspecified Wharves | 1904 |
| 32EE | 0 | On Site | Unspecified Pit | 1951 |
| 33I | 0 | On Site | Unspecified Works | 1982 |
| 34I | 0 | On Site | Unspecified Works | 1974 |

| | | | | |
|---|---|---|---|---|
| 35J | 0 | On Site | Unspecified Works | 1904 |
| 36J | 0 | On Site | Unspecified Works | 1946 |
| 37 | 0 | On Site | Railway Sidings | 1951 |
| 38N | 0 | On Site | Unspecified Works | 1951 |
| 39K | 0 | On Site | Sawmills | 1982 |
| 40K | 0 | On Site | Sawmills | 1974 |
| 41T | 0 | On Site | Refuse Heap | 1951 |
| 42L | 0 | On Site | Unspecified Works | 1974 |
| 43L | 0 | On Site | Unspecified Works | 1982 |
| 44M | 0 | On Site | Unspecified Works | 1951 |
| 45M | 0 | On Site | Unspecified Factory | 1982 |
| 46M | 0 | On Site | Unspecified Works | 1974 |
| 47U | 0 | On Site | Unspecified Depot | 1982 |
| 48N | 0 | On Site | Canning Factory | 1946 |
| 49P | 0 | On Site | Unspecified Factory | 1951 |
| 50O | 0 | On Site | Unspecified Factory | 1982 |
| 51O | 0 | On Site | Unspecified Works | 1974 |
| 52P | 0 | On Site | Unspecified Works | 1982 |
| 53 | 0 | On Site | Railway Sidings | 1946 |
| 54P | 0 | On Site | Unspecified Works | 1974 |
| 55Q | 0 | On Site | Unspecified Tank | 1946 |
| 56DD | 0 | On Site | Railway Sidings | 1951 |
| 57V | 0 | On Site | Boat Building Yard | 1904 |
| 58X | 0 | On Site | Canning Factory | 1946 |
| 59Q | 0 | On Site | Ice Works | 1904 |
| 60Q | 0 | On Site | Unspecified Works | 1951 |
| 61Q | 0 | On Site | Ice Works | 1946 |
| 62R | 0 | On Site | Unspecified Wharf | 1946 |
| 63Q | 0 | On Site | Unspecified Works | 1982 |
| 64 | 0 | On Site | Unspecified Works | 1951 |
| 65Q | 0 | On Site | Unspecified Works | 1974 |
| 66AL | 0 | On Site | Unspecified Works | 1974 |
| 67S | 0 | On Site | Railway Sidings | 1982 |
| 68W | 0 | On Site | Unspecified Works | 1982 |
| 69T | 0 | On Site | Unspecified Pit | 1904 |
| 70U | 0 | On Site | Nurseries | 1904 |
| 71V | 0 | On Site | Boat Building Yard | 1883 |
| 72DX | 0 | On Site | Windmill | 1883 |
| 73CH | 0 | On Site | Unspecified Tank | 1883 |
| 74L | 0 | On Site | Unspecified Works | 1992 |
| 75W | 0 | On Site | Unspecified Works | 1992 |
| 76Q | 0 | On Site | Unspecified Works | 1992 |
| 77U | 0 | On Site | Unspecified Depot | 1992 |
| 78O | 0 | On Site | Unspecified Factory | 1992 |
| 79P | 0 | On Site | Unspecified Commercial/Industrial | 1992 |

| | | | | |
|---|---|---|---|---|
| 80I | 0 | On Site | Unspecified Works | 1992 |
| 81Q | 0 | On Site | Ice Works | 1938 |
| 82 | 0 | On Site | Joinery Works | 1938 |
| 83N | 0 | On Site | Canning Factory | 1938 |
| 84X | 0 | On Site | Canning Factory | 1938 |
| 85J | 0 | On Site | Unspecified Works | 1938 |
| 86AS | 0 | On Site | Boat Building Yard | 1938 |
| 87U | 0 | On Site | Railway Sidings | 1938 |
| 88Y | 0 | On Site | Unspecified Wharf | 1938 |
| 89J | 0 | On Site | Unspecified Wharf | 1938 |
| 90Y | 0 | On Site | Unspecified Wharf | 1938 |
| 91J | 0 | On Site | Unspecified Wharf | 1938 |
| 92M | 0 | On Site | Unspecified Factory | 1992 |
| 93AA | 0 | On Site | Unspecified Wharf | 1992 |
| 94AJ | 0 | On Site | Cuttings | 1904 |
| 95Y | 5 | E | Unspecified Wharf | 1904 |
| 96AB | 8 | N | Unspecified Wharf | 1951 |
| 97Z | 8 | W | Pumping Station | 1982 |
| 98Z | 8 | W | Pumping Station | 1974 |
| 99Z | 8 | W | Pumping Station | 1992 |
| 100H | 11 | N | Unspecified Depots | 1974 |
| 101H | 11 | N | Unspecified Depots | 1982 |
| 102AA | 15 | E | Unspecified Wharf | 1974 |
| 103AA | 15 | E | Unspecified Wharf | 1982 |
| 104AB | 19 | N | Unspecified Wharf | 1946 |
| 105AC | 20 | N | Omnibus Depot and Coach Building Factory | 1938 |
| 106AC | 20 | N | Omnibus Depot and Coach Building Factory | 1946 |
| 107AF | 23 | S | Unspecified Depot | 1992 |
| 108L | 23 | N | Unspecified Works | 1951 |
| 109AD | 25 | NE | Unspecified Works | 1982 |
| 110AD | 25 | NE | Unspecified Works | 1974 |
| 111AE | 27 | N | Tramway Depot | 1946 |
| 112K | 27 | NE | Timber Yard | 1938 |
| 113K | 27 | NE | Timber Yard | 1946 |
| 114AE | 28 | N | Tramway Depot | 1938 |
| 115K | 30 | NE | Unspecified Depot | 1951 |
| 116AE | 31 | N | Tramway Depot | 1904 |
| 117AC | 34 | NE | Unspecified Factory | 1951 |
| 118L | 36 | N | Boat Building Yard | 1883 |
| 119L | 37 | N | Boat Building Yard | 1904 |
| 120L | 37 | N | Boat Building Yard | 1946 |
| 121AF | 37 | S | Unspecified Depot | 1938 |
| 122AF | 38 | S | Railway Sidings | 1946 |
| 123AG | 39 | S | Railway Building | 1951 |

| | | | | |
|---|---|---|---|---|
| 124AG | 39 | S | Railway Buildings | 1951 |
| 125AN | 41 | S | Railway Building | 1951 |
| 126AF | 42 | S | Railway Sidings | 1938 |
| 127AH | 43 | S | Unspecified Depot | 1974 |
| 128AH | 43 | S | Unspecified Depot | 1982 |
| 129AI | 43 | S | Coal Yard | 1946 |
| 130AK | 44 | S | Quay | 1974 |
| 131H | 45 | NE | Unspecified Depots | 1974 |
| 132H | 45 | NE | Unspecified Depots | 1982 |
| 133AJ | 45 | SE | Cuttings | 1883 |
| 134AJ | 46 | SE | Cuttings | 1946 |
| 135AK | 47 | S | Ship Building Yard | 1883 |
| 136AU | 47 | E | Unspecified Wharf | 1992 |
| 137AL | 47 | W | Sand Pit | 1946 |
| 138AJ | 48 | SE | Cuttings | 1974 |
| 139AJ | 48 | SE | Cuttings | 1982 |
| 140AJ | 48 | SE | Cuttings | 1992 |
| 141CL | 48 | SE | Refuse Heap | 1951 |
| 142AK | 48 | S | Ship Building Yard | 1938 |
| 143AK | 49 | S | Ship Building Yard | 1946 |
| 144AK | 49 | S | Ship Building Yard | 1904 |
| 145AH | 50 | S | Ship Building Yard | 1883 |
| 146AM | 51 | S | Railway Building | 1946 |
| 147AO | 51 | S | Railway Buildings | 1883 |
| 148AM | 53 | S | Railway Building | 1946 |
| 149EG | 54 | W | Unspecified Heap | 1951 |
| 150EH | 55 | E | Unspecified Wharf | 1883 |
| 151AN | 55 | S | Railway Building | 1951 |
| 152AI | 59 | S | Railway Building | 1951 |
| 153AQ | 63 | SE | Railway Sidings | 1883 |
| 154AJ | 64 | SE | Cuttings | 1974 |
| 155AJ | 64 | SE | Cuttings | 1982 |
| 156AJ | 64 | SE | Cuttings | 1992 |
| 157AO | 64 | S | Railway Building | 1951 |
| 158AP | 66 | SE | Railway Sidings | 1904 |
| 159AP | 66 | SE | Railway Sidings | 1946 |
| 160AT | 67 | SE | Unspecified Pit | 1904 |
| 161AO | 67 | SE | Railway Building | 1951 |
| 162AE | 67 | N | Unspecified Depots | 1982 |
| 163AE | 67 | N | Unspecified Depots | 1974 |
| 164AQ | 70 | SE | Railway Sidings | 1951 |
| 165AR | 71 | SE | Unspecified Works | 1982 |
| 166AR | 71 | SE | Unspecified Works | 1974 |
| 167AR | 71 | SE | Unspecified Works | 1992 |
| 168AP | 72 | E | Railway Sidings | 1938 |
| 169AQ | 72 | E | Goods Yard | 1938 |

| | | | | |
|---|---|---|---|---|
| 170AS | 72 | N | Unspecified Wharf | 1883 |
| 171AT | 75 | SE | Unspecified Pit | 1951 |
| 172AF | 83 | S | Railway Sidings | 1904 |
| 173AT | 86 | SE | Unspecified Pit | 1946 |
| 174AU | 89 | N | Unspecified Wharf | 1946 |
| 175AE | 92 | NE | Railway Building | 1946 |
| 176AX | 92 | NW | Unspecified Wharf | 1904 |
| 177CN | 94 | SE | Cemetery | 1904 |
| 178AV | 101 | SE | Unspecified Commercial/Industrial | 1982 |
| 179AV | 101 | SE | Quay | 1992 |
| 180AV | 101 | SE | Unspecified Commercial/Industrial | 1974 |
| 181AH | 103 | SW | Railway Building | 1951 |
| 182DO | 105 | SE | Goods Yard | 1946 |
| 183AY | 111 | S | Railway Building | 1951 |
| 184AW | 112 | W | Railway Sidings | 1951 |
| 185AW | 112 | W | Cuttings | 1951 |
| 186AH | 113 | SW | Unspecified Depot | 1946 |
| 187AX | 115 | NW | Unspecified Wharf | 1946 |
| 188DH | 117 | N | Electric Light Works | 1904 |
| 189 | 117 | SE | Oil Mill | 1883 |
| 190AV | 118 | SE | Unspecified Wharf | 1904 |
| 191AF | 118 | SW | Unspecified Depot | 1951 |
| 192AX | 118 | NW | Unspecified Wharf | 1982 |
| 193AX | 118 | NW | Unspecified Wharf | 1974 |
| 194EI | 120 | S | Cuttings | 1883 |
| 195AY | 121 | S | Railway Building | 1946 |
| 196BA | 125 | NE | Unspecified Wharf | 1946 |
| 197BB | 129 | S | Unspecified Ground Workings | 1974 |
| 198AY | 130 | S | Railway Building | 1951 |
| 199AZ | 131 | N | Unspecified Wharf | 1938 |
| 200AZ | 131 | N | Unspecified Wharf | 1938 |
| 201BA | 134 | NE | Unspecified Wharf | 1951 |
| 202AF | 134 | SW | Railway Building | 1951 |
| 203BD | 135 | S | Unspecified Pit | 1951 |
| 204BB | 144 | S | Unspecified Ground Workings | 1982 |
| 205BB | 144 | S | Unspecified Ground Workings | 1992 |
| 206AR | 149 | S | Unspecified Works | 1951 |
| 207BC | 149 | S | Cuttings | 1974 |
| 208BC | 149 | S | Cuttings | 1982 |
| 209BI | 152 | S | Unspecified Works | 1946 |
| 210AF | 156 | SW | Railway Building | 1951 |
| 211AF | 157 | W | Railway Building | 1982 |

| | | | | |
|---|---|---|---|---|
| 212BF | 161 | S | Unspecified Works | 1938 |
| 213BD | 162 | S | Unspecified Heap | 1974 |
| 214BD | 162 | S | Unspecified Heap | 1982 |
| 215BD | 162 | S | Unspecified Heap | 1992 |
| 216BG | 162 | NE | Quay | 1974 |
| 217BE | 162 | NE | Quay | 1982 |
| 218BE | 162 | NE | Quay | 1992 |
| 219BF | 164 | S | Unspecified Works | 1946 |
| 220BA | 169 | NE | Unspecified Wharf | 1938 |
| 221BA | 169 | NE | Unspecified Wharf | 1938 |
| 222BG | 171 | NE | Quay | 1883 |
| 223BG | 171 | NE | Quay | 1904 |
| 224BG | 171 | NE | Quay | 1946 |
| 225BJ | 178 | S | Railway Sidings | 1938 |
| 226BH | 185 | NE | Unspecified Commercial/Industrial | 1992 |
| 227BH | 185 | NE | Unspecified Works | 1974 |
| 228BH | 185 | NE | Unspecified Works | 1982 |
| 229BI | 187 | S | Windmill | 1883 |
| 230AF | 188 | W | Railway Building | 1982 |
| 231AF | 190 | W | Railway Buildings | 1974 |
| 232AF | 190 | W | Railway Buildings | 1982 |
| 233DK | 198 | NE | Unspecified Works | 1951 |
| 234BJ | 201 | S | Goods Yard | 1946 |
| 235BJ | 204 | S | Goods Yard | 1938 |
| 236 | 206 | E | Iron Foundry | 1883 |
| 237EK | 207 | W | Sand Pit | 1883 |
| 238BK | 210 | S | Unspecified Works | 1951 |
| 239BK | 217 | S | Unspecified Works | 1938 |
| 240BK | 217 | S | Unspecified Works | 1974 |
| 241BK | 217 | S | Unspecified Works | 1982 |
| 242AF | 219 | W | Railway Building | 1946 |
| 243BE | 220 | NE | Unspecified Works | 1974 |
| 244BL | 222 | N | Dry Dock | 1938 |
| 245BL | 222 | N | Dry Dock | 1938 |
| 246AV | 223 | SE | Sawmill | 1946 |
| 247AF | 228 | W | Railway Building | 1946 |
| 248CS | 237 | N | Sawmill | 1938 |
| 249BM | 238 | W | Railway Building | 1974 |
| 250BM | 238 | W | Railway Building | 1982 |
| 251BM | 239 | W | Railway Building | 1946 |
| 252BL | 242 | N | Dry Dock | 1946 |
| 253BL | 242 | N | Dry Dock | 1883 |
| 254BO | 255 | NE | Unspecified Pit | 1946 |
| 255BN | 255 | NE | Iron Works | 1946 |
| 256EN | 255 | NE | Unspecified Wharves | 1904 |

| | | | | |
|---|---|---|---|---|
| 257BN | 256 | NE | Unspecified Works | 1992 |
| 258BN | 256 | NE | Unspecified Works | 1982 |
| 259BN | 256 | NE | Unspecified Works | 1974 |
| 260BN | 258 | NE | Harbour Works | 1883 |
| 261BO | 263 | NE | Sand Pit | 1904 |
| 262BP | 264 | N | Cuttings | 1938 |
| 263BP | 268 | N | Cuttings | 1946 |
| 264BP | 268 | N | Cuttings | 1904 |
| 265BN | 269 | NE | Iron Works | 1938 |
| 266EO | 269 | N | Cuttings | 1951 |
| 267BQ | 272 | N | Cemetery | 1974 |
| 268BQ | 272 | N | Cemetery | 1982 |
| 269BQ | 272 | N | Cemetery | 1951 |
| 270BQ | 272 | N | Cemetery | 1992 |
| 271BE | 274 | NE | Unspecified Tank | 1974 |
| 272BE | 275 | NE | Unspecified Tank | 1982 |
| 273BE | 275 | NE | Unspecified Tank | 1992 |
| 274BT | 278 | W | Heliport | 1974 |
| 275CU | 279 | W | Electric Substation | 1974 |
| 276BN | 280 | NE | Unspecified Works | 1951 |
| 277EM | 282 | N | Gravel Pit | 1883 |
| 278BR | 304 | W | Unspecified Pit | 1974 |
| 279BR | 304 | W | Unspecified Pit | 1992 |
| 280BR | 304 | W | Unspecified Pit | 1982 |
| 281BS | 305 | S | Fire Station | 1982 |
| 282BS | 305 | S | Fire Station | 1974 |
| 283BS | 305 | S | Fire Station | 1992 |
| 284BU | 310 | NE | Isolation Hospital | 1951 |
| 285DM | 317 | NE | Mortuary | 1951 |
| 286BT | 328 | W | Railway Building | 1982 |
| 287BU | 328 | N | Infectious Diseases Sanatorium | 1904 |
| 288BU | 328 | N | Isolation Hospital | 1946 |
| 289BU | 328 | N | Isolation Hospital | 1938 |
| 290BV | 334 | SW | Unspecified Works | 1974 |
| 291BV | 334 | SW | Railway Sidings | 1992 |
| 292BV | 334 | SW | Unspecified Works | 1992 |
| 293BV | 334 | SW | Railway Sidings | 1974 |
| 294BV | 334 | SW | Railway Sidings | 1982 |
| 295BV | 334 | SW | Unspecified Works | 1982 |
| 296DS | 341 | NE | Quay | 1951 |
| 297BW | 348 | E | Railway Building | 1946 |
| 298BT | 349 | W | Railway Building | 1946 |
| 299BX | 349 | S | Pumping Station | 1974 |
| 300BX | 349 | S | Pumping Station | 1982 |
| 301BX | 349 | S | Pumping Station | 1992 |

| | | | | |
|---|---|---|---|---|
| 302CY | 353 | NE | Unspecified Depot | 1951 |
| 303BW | 355 | E | Unspecified Warehouse | 1974 |
| 304 | 356 | S | Net Works | 1883 |
| 305BW | 359 | E | Unspecified Warehouse | 1982 |
| 306BW | 359 | E | Unspecified Warehouse | 1992 |
| 307 | 368 | W | Railway Building | 1883 |
| 308BP | 383 | N | Cuttings | 1974 |
| 309BP | 383 | N | Cuttings | 1982 |
| 310BP | 383 | N | Cuttings | 1992 |
| 311CZ | 402 | NE | Railway Building | 1951 |
| 312 | 413 | N | Railway Building | 1946 |
| 313BY | 415 | S | Unspecified Tank | 1974 |
| 314BY | 415 | S | Unspecified Tank | 1982 |
| 315BY | 415 | S | Unspecified Tank | 1992 |
| 316CD | 419 | NE | Sewage Pumping Station | 1946 |
| 317 | 419 | N | Small Pox Hospital | 1883 |
| 318BQ | 421 | N | Cemetery | 1938 |
| 319DR | 427 | NE | Lifeboat Station | 1992 |
| 320BZ | 432 | NE | Railway Building | 1946 |
| 321CA | 432 | N | Cemetery | 1946 |
| 322CA | 432 | N | Cemetery | 1904 |
| 323BZ | 438 | NE | Engine Shed | 1883 |
| 324CB | 440 | NE | Dock | 1938 |
| 325CB | 440 | NE | Dock | 1938 |
| 326CC | 464 | NE | Railway Station | 1946 |
| 327CC | 464 | NE | Railway Station | 1904 |
| 328 | 465 | SW | Nurseries | 1904 |
| 329CC | 465 | NE | Railway Station | 1938 |
| 330CD | 471 | NE | Sewage Pumping Station | 1938 |
| 331 | 487 | W | Railway Building | 1883 |
| 332ER | 488 | NE | Brick Works | 1883 |
| 333CC | 491 | NE | Goods Shed | 1883 |
| 334CE | 493 | NE | Unspecified Pit | 1904 |
| 335CE | 494 | NE | Unspecified Pit | 1946 |
| 336CE | 496 | NE | Unspecified Pit | 1938 |
| 337CE | 496 | NE | Unspecified Pit | 1938 |
| 338CC | 498 | NE | Railway Station | 1883 |

## 1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary: 159

| ID | Distance (m) | Direction | Use | Date |
|---|---|---|---|---|
| 339T | 0 | On Site | Unspecified Tank | 1986 |
| 340T | 0 | On Site | Unspecified Tank | 1990 |
| 341O | 0 | On Site | Water Cooler Tank | 1949 |
| 342O | 0 | On Site | Water Cooler Tank | 1950 |
| 343Q | 0 | On Site | Unspecified Tank | 1986 |
| 344Q | 0 | On Site | Unspecified Tank | 1990 |
| 345Q | 0 | On Site | Unspecified Tank | 1983 |
| 346Q | 0 | On Site | Unspecified Tank | 1983 |
| 347Q | 0 | On Site | Unspecified Tank | 1927 |
| 348Q | 0 | On Site | Unspecified Tank | 1904 |
| 349Q | 0 | On Site | Water Cooler Tank | 1949 |
| 350Q | 0 | On Site | Water Cooler Tank | 1950 |
| 351C | 0 | On Site | Unspecified Tank | 1986 |
| 352C | 0 | On Site | Unspecified Tank | 1983 |
| 353C | 0 | On Site | Unspecified Tank | 1983 |
| 354C | 0 | On Site | Unspecified Tank | 1970 |
| 355Q | 0 | On Site | Unspecified Tank | 1904 |
| 356Y | 0 | On Site | Tanks | 1983 |
| 357Y | 0 | On Site | Tanks | 1983 |
| 358Y | 0 | On Site | Tanks | 1986 |
| 359Y | 0 | On Site | Tanks | 1950 |
| 360Y | 0 | On Site | Unspecified Tank | 1949 |
| 361V | 0 | On Site | Unspecified Tank | 1970 |
| 362V | 0 | On Site | Unspecified Tank | 1949 |
| 363V | 0 | On Site | Tanks | 1950 |
| 364V | 0 | On Site | Tanks | 1949 |
| 365V | 0 | On Site | Tanks | 1950 |
| 366T | 0 | On Site | Unspecified Tank | 1983 |
| 367T | 0 | On Site | Unspecified Tank | 1983 |
| 368CF | 0 | On Site | Unspecified Tank | 1949 |
| 369CF | 0 | On Site | Unspecified Tank | 1950 |
| 370CG | 0 | On Site | Oil Tank | 1950 |
| 371CG | 0 | On Site | Oil Tank | 1950 |
| 372 | 0 | On Site | Tanks | 1927 |
| 373CH | 0 | On Site | Gasometer | 1883 |
| 374CH | 0 | On Site | Tanks | 1950 |
| 375CH | 0 | On Site | Unspecified Tank | 1950 |
| 376CH | 0 | On Site | Unspecified Tank | 1950 |
| 377T | 0 | On Site | Unspecified Tank | 1993 |
| 378CI | 6 | N | Unspecified Tank | 1990 |
| 379CI | 6 | N | Unspecified Tank | 1987 |

| | | | | |
|---|---|---|---|---|
| 380Q | 7 | N | Unspecified Tank | 1993 |
| 381Q | 7 | N | Unspecified Tank | 1983 |
| 382Q | 7 | N | Unspecified Tank | 1990 |
| 383Q | 7 | N | Unspecified Tank | 1983 |
| 384Q | 7 | N | Unspecified Tank | 1986 |
| 385Q | 9 | N | Tanks | 1964 |
| 386Q | 9 | N | Tanks | 1970 |
| 387Q | 9 | N | Unspecified Tank | 1964 |
| 388R | 19 | W | Unspecified Tank | 1949 |
| 389R | 21 | W | Unspecified Tank | 1970 |
| 390Q | 22 | N | Tanks | 1970 |
| 391R | 22 | W | Unspecified Tank | 1950 |
| 392CJ | 25 | N | Unspecified Tank | 1976 |
| 393CJ | 26 | N | Unspecified Tank | 1990 |
| 394CK | 26 | N | Unspecified Tank | 1950 |
| 395CK | 26 | N | Unspecified Tank | 1976 |
| 396CK | 26 | N | Unspecified Tank | 1964 |
| 397CK | 26 | N | Unspecified Tank | 1976 |
| 398CK | 26 | N | Unspecified Tank | 1990 |
| 399CK | 26 | N | Unspecified Tank | 1950 |
| 400I | 27 | S | Unspecified Tank | 1950 |
| 401I | 28 | S | Unspecified Tank | 1950 |
| 402CJ | 30 | N | Tanks | 1990 |
| 403CJ | 36 | N | Unspecified Tank | 1990 |
| 404CK | 54 | N | Unspecified Tank | 1949 |
| 405CK | 56 | N | Unspecified Tank | 1950 |
| 406K | 59 | NE | Unspecified Tank | 1949 |
| 407K | 59 | NE | Unspecified Tank | 1966 |
| 408K | 59 | NE | Unspecified Tank | 1950 |
| 409AS | 93 | NE | Tanks | 1990 |
| 410AS | 93 | NE | Tanks | 1976 |
| 411AS | 93 | NE | Tanks | 1966 |
| 412AI | 96 | S | Unspecified Tank | 1986 |
| 413AI | 96 | S | Unspecified Tank | 1990 |
| 414AX | 100 | NW | Tanks | 1976 |
| 415AX | 101 | NW | Tanks | 1990 |
| 416AX | 102 | NW | Unspecified Tank | 1966 |
| 417AK | 104 | S | Unspecified Tank | 1990 |
| 418CL | 107 | SE | Unspecified Tank | 1990 |
| 419CL | 107 | SE | Unspecified Tank | 1976 |
| 420CL | 107 | SE | Unspecified Tank | 1976 |
| 421AI | 108 | S | Unspecified Tank | 1990 |
| 422AI | 108 | S | Unspecified Tank | 1986 |
| 423AH | 110 | SW | Unspecified Tank | 1984 |
| 424CM | 113 | N | Unspecified Tank | 1949 |
| 425CM | 113 | N | Unspecified Tank | 1949 |

| | | | | |
|---|---|---|---|---|
| 426CN | 117 | S | Unspecified Tank | 1976 |
| 427CN | 118 | S | Unspecified Tank | 1990 |
| 428CN | 118 | S | Unspecified Tank | 1976 |
| 429AY | 134 | S | Unspecified Tank | 1949 |
| 430AY | 134 | S | Unspecified Tank | 1950 |
| 431CO | 153 | S | Unspecified Tank | 1964 |
| 432CO | 153 | S | Unspecified Tank | 1965 |
| 433CP | 164 | SW | Tanks | 1963 |
| 434CP | 164 | SW | Tanks | 1949 |
| 435CQ | 165 | S | Unspecified Tank | 1990 |
| 436CQ | 165 | S | Unspecified Tank | 1976 |
| 437BF | 190 | S | Unspecified Tank | 1976 |
| 438CR | 194 | SE | Unspecified Tank | 1950 |
| 439CR | 195 | SE | Unspecified Tank | 1950 |
| 440CR | 208 | SE | Tanks | 1950 |
| 441CR | 209 | SE | Tanks | 1950 |
| 442CR | 215 | SE | Tanks | 1950 |
| 443CR | 216 | SE | Tanks | 1950 |
| 444CS | 234 | N | Unspecified Tank | 1976 |
| 445BM | 241 | W | Tanks | 1976 |
| 446BM | 242 | W | Tanks | 1984 |
| 447BK | 262 | S | Unspecified Tank | 1950 |
| 448BK | 263 | S | Unspecified Tank | 1950 |
| 449CS | 272 | N | Unspecified Tank | 1927 |
| 450BE | 274 | NE | Unspecified Tank | 1988 |
| 451BE | 274 | NE | Unspecified Tank | 1990 |
| 452BE | 274 | NE | Unspecified Tank | 1968 |
| 453BE | 274 | NE | Unspecified Tank | 1976 |
| 454CT | 275 | S | Unspecified Tank | 1990 |
| 455CT | 275 | S | Unspecified Tank | 1976 |
| 456CT | 275 | S | Unspecified Tank | 1976 |
| 457BS | 284 | S | Unspecified Tank | 1950 |
| 458BS | 284 | S | Unspecified Tank | 1950 |
| 459CU | 300 | W | Tanks | 1964 |
| 460CU | 301 | W | Tanks | 1965 |
| 461CU | 305 | W | Unspecified Tank | 1990 |
| 462BT | 309 | W | Tanks | 1976 |
| 463BT | 309 | W | Tanks | 1967 |
| 464BT | 309 | W | Tanks | 1984 |
| 465BT | 316 | W | Tanks | 1984 |
| 466CV | 328 | S | Unspecified Tank | 1950 |
| 467CV | 328 | S | Unspecified Tank | 1950 |
| 468BO | 332 | NE | Unspecified Tank | 1960 |
| 469BO | 332 | NE | Unspecified Tank | 1950 |
| 470BO | 332 | NE | Unspecified Tank | 1949 |
| 471BO | 332 | NE | Unspecified Tank | 1956 |

| | | | | |
|---|---|---|---|---|
| 472CV | 333 | S | Unspecified Tank | 1950 |
| 473CV | 333 | S | Unspecified Tank | 1950 |
| 474CV | 334 | S | Unspecified Tank | 1964 |
| 475BN | 334 | NE | Disused Gasometer | 1883 |
| 476CV | 334 | S | Unspecified Tank | 1927 |
| 477CW | 360 | SW | Unspecified Tank | 1976 |
| 478CW | 361 | SW | Unspecified Tank | 1993 |
| 479CW | 361 | SW | Unspecified Tank | 1987 |
| 480CW | 361 | SW | Unspecified Tank | 1990 |
| 481CX | 363 | N | Unspecified Tank | 1990 |
| 482CX | 363 | N | Unspecified Tank | 1987 |
| 483CX | 363 | N | Unspecified Tank | 1971 |
| 484CY | 397 | NE | Unspecified Tank | 1976 |
| 485CZ | 399 | NE | Unspecified Tank | 1950 |
| 486CZ | 400 | NE | Unspecified Tank | 1950 |
| 487CZ | 400 | NE | Unspecified Tank | 1968 |
| 488DA | 411 | NE | Unspecified Tank | 1988 |
| 489DA | 411 | NE | Unspecified Tank | 1990 |
| 490DA | 412 | NE | Unspecified Tank | 1976 |
| 491DA | 412 | NE | Unspecified Tank | 1993 |
| 492DB | 426 | W | Unspecified Tank | 1963 |
| 493DB | 426 | W | Unspecified Tank | 1958 |
| 494DB | 426 | W | Unspecified Tank | 1957 |
| 495DB | 435 | W | Unspecified Tank | 1949 |
| 496DB | 435 | W | Unspecified Tank | 1950 |
| 497 | 456 | S | Unspecified Tank | 1927 |

## 1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary: 140

| ID | Distance (m) | Direction | Use | Date |
|---|---|---|---|---|
| 498V | 0 | On Site | Electricity Substation | 1983 |
| 499V | 0 | On Site | Electricity Substation | 1986 |
| 500V | 0 | On Site | Electricity Substation | 1983 |
| 501DC | 0 | On Site | Electricity Substation | 1983 |
| 502DC | 0 | On Site | Electricity Substation | 1986 |
| 503DC | 0 | On Site | Electricity Substation | 1983 |
| 504DD | 0 | On Site | Electricity Substation | 1983 |
| 505DD | 0 | On Site | Electricity Substation | 1983 |
| 506DE | 0 | On Site | Electricity Substation | 1990 |

| | | | | |
|---|---|---|---|---|
| 507V | 0 | On Site | Electricity Substation | 1970 |
| 508V | 0 | On Site | Electricity Substation | 1990 |
| 509CH | 0 | On Site | Gasometer | 1883 |
| 510DE | 0 | On Site | Electricity Substation | 1993 |
| 511V | 0 | On Site | Electricity Substation | 1993 |
| 512Q | 0 | On Site | Electricity Substation | 1993 |
| 513DD | 0 | On Site | Electricity Substation | 1993 |
| 514DC | 0 | On Site | Electricity Substation | 1993 |
| 515DC | 0 | On Site | Electricity Substation | 1970 |
| 516DC | 0 | On Site | Electricity Substation | 1990 |
| 517DD | 0 | On Site | Electricity Substation | 1986 |
| 518DD | 0 | On Site | Electricity Substation | 1990 |
| 519DD | 0 | On Site | Electricity Substation | 1970 |
| 520DE | 0 | On Site | Electricity Substation | 1984 |
| 521DE | 0 | On Site | Electricity Substation | 1987 |
| 522DE | 0 | On Site | Electricity Substation | 1990 |
| 523AC | 24 | NE | Electricity Substation | 1987 |
| 524AC | 25 | NE | Electricity Substation | 1971 |
| 525AM | 45 | S | Electricity Substation | 1984 |
| 526AM | 45 | S | Electricity Substation | 1976 |
| 527AM | 45 | S | Electricity Substation | 1967 |
| 528AN | 55 | S | Electricity Substation | 1993 |
| 529AN | 55 | S | Electricity Substation | 1986 |
| 530AN | 55 | S | Electricity Substation | 1990 |
| 531DF | 65 | NE | Electricity Substation | 1990 |
| 532DF | 65 | NE | Electricity Substation | 1976 |
| 533DG | 92 | S | Electricity Substation | 1976 |
| 534DG | 92 | S | Electricity Substation | 1990 |
| 535AE | 93 | NE | Electricity Transmission Station | 1971 |
| 536DH | 116 | N | Electric Light Works | 1904 |
| 537AU | 120 | N | Electricity Substation | 1976 |
| 538AU | 121 | N | Electricity Substation | 1990 |
| 539BB | 128 | S | Electricity Substation | 1984 |
| 540BB | 128 | S | Electricity Substation | 1987 |
| 541BB | 128 | S | Electricity Substation | 1990 |
| 542BB | 128 | S | Electricity Substation | 1990 |
| 543BB | 128 | S | Electricity Substation | 1993 |
| 544BB | 128 | S | Electricity Substation | 1950 |
| 545BB | 128 | S | Electricity Substation | 1950 |
| 546DH | 132 | N | Electricity Depot | 1971 |
| 547DH | 132 | N | Electricity Substation | 1987 |
| 548DH | 132 | N | Electricity Substation | 1990 |
| 549DH | 139 | N | Electricity Substation | 1971 |
| 550DI | 154 | E | Electricity Substation | 1990 |
| 551DI | 155 | E | Electricity Substation | 1976 |

| | | | | |
|---|---|---|---|---|
| 552DH | 155 | N | Electricity Substation | 1987 |
| 553DH | 155 | N | Electricity Substation | 1990 |
| 554DH | 156 | N | Electricity Substation | 1971 |
| 555DJ | 193 | SE | Electricity Substation | 1990 |
| 556DJ | 193 | SE | Electricity Substation | 1990 |
| 557BF | 209 | S | Electricity Substation | 1976 |
| 558BI | 221 | SE | Electricity Substation | 1990 |
| 559BI | 221 | SE | Electricity Substation | 1976 |
| 560BI | 221 | SE | Electricity Substation | 1976 |
| 561CS | 233 | N | Electricity Substation | 1990 |
| 562DK | 239 | NE | Electricity Substation | 1990 |
| 563DK | 239 | NE | Electricity Substation | 1990 |
| 564DK | 239 | NE | Electricity Substation | 1989 |
| 565DK | 239 | NE | Electricity Substation | 1989 |
| 566DL | 240 | N | Electricity Substation | 1967 |
| 567DL | 240 | N | Electricity Substation | 1976 |
| 568DL | 240 | N | Electricity Substation | 1984 |
| 569DK | 241 | NE | Electricity Substation | 1970 |
| 570DK | 246 | NE | Electricity Substation | 1996 |
| 571 | 253 | N | Electricity Substation | 1971 |
| 572BE | 255 | NE | Electricity Substation | 1968 |
| 573BE | 255 | NE | Electricity Substation | 1976 |
| 574BE | 260 | NE | Electricity Substation | 1988 |
| 575BE | 260 | NE | Electricity Substation | 1990 |
| 576BO | 266 | N | Electricity Transmission Station | 1970 |
| 577BL | 266 | NE | Electricity Substation | 1976 |
| 578DM | 268 | NE | Electricity Substation | 1990 |
| 579DM | 268 | NE | Electricity Substation | 1993 |
| 580DN | 280 | SE | Electricity Substation | 1990 |
| 581DN | 280 | SE | Electricity Substation | 1990 |
| 582DO | 292 | N | Electricity Substation | 1990 |
| 583DO | 292 | N | Electricity Substation | 1976 |
| 584BO | 295 | N | Electricity Transmission Station | 1990 |
| 585BO | 295 | N | Electricity Transmission Station | 1990 |
| 586BO | 295 | N | Electricity Transmission Station | 1989 |
| 587BO | 295 | N | Electricity Transmission Station | 1989 |
| 588BO | 300 | N | Electricity Transmission Station | 1996 |
| 589DO | 306 | NE | Electricity Substation | 1976 |
| 590DO | 307 | N | Electricity Substation | 1990 |
| 591BN | 334 | NE | Disused Gasometer | 1883 |
| 592CX | 339 | N | Gas Governor | 1990 |
| 593BX | 378 | S | Electricity Substation | 1993 |

| | | | | |
|---|---|---|---|---|
| 594BX | 378 | S | Electricity Substation | 1989 |
| 595BX | 378 | S | Electricity Substation | 1986 |
| 596DP | 414 | N | Electricity Substation | 1974 |
| 597DP | 414 | N | Electricity Substation | 1969 |
| 598DP | 415 | N | Electricity Substation | 1990 |
| 599DP | 415 | N | Electricity Substation | 1990 |
| 600DP | 415 | N | Electricity Substation | 1990 |
| 601DP | 415 | N | Electricity Substation | 1990 |
| 602DQ | 423 | S | Electricity Substation | 1990 |
| 603DQ | 423 | S | Electricity Substation | 1993 |
| 604DQ | 425 | S | Electricity Substation | 1968 |
| 605DR | 429 | NE | Electricity Substation | 1988 |
| 606DR | 429 | NE | Electricity Substation | 1990 |
| 607DR | 430 | NE | Electricity Substation | 1993 |
| 608DR | 431 | NE | Electricity Substation | 1976 |
| 609DS | 435 | NE | Electricity Substation | 1950 |
| 610 | 443 | W | Disused Power Store | 1949 |
| 611DR | 443 | NE | Electricity Substation | 1950 |
| 612DT | 444 | S | Electricity Substation | 1993 |
| 613DT | 444 | S | Electricity Substation | 1990 |
| 614DR | 444 | NE | Electricity Substation | 1968 |
| 615CD | 467 | NE | Electricity Substation | 1950 |
| 616CD | 475 | NE | Electricity Substation | 1968 |
| 617CD | 475 | NE | Electricity Substation | 1950 |
| 618DU | 477 | SW | Electricity Substation | 1976 |
| 619DU | 477 | SW | Electricity Substation | 1993 |
| 620DU | 477 | SW | Electricity Substation | 1990 |
| 621DU | 477 | SW | Electricity Substation | 1987 |
| 622DU | 477 | SW | Electricity Substation | 1990 |
| 623CD | 486 | NE | Electricity Substation | 1988 |
| 624CD | 486 | NE | Electricity Substation | 1990 |
| 625CD | 487 | NE | Electricity Substation | 1993 |
| 626CD | 487 | NE | Electricity Substation | 1976 |
| 627DV | 495 | NE | Electricity Substation | 1990 |
| 628DV | 495 | NE | Electricity Substation | 1990 |
| 629DV | 495 | NE | Electricity Substation | 1989 |
| 630DV | 495 | NE | Electricity Substation | 1989 |
| 631DV | 496 | NE | Electricity Substation | 1970 |
| 632DV | 496 | NE | Electricity Substation | 1996 |
| 633DW | 497 | W | Electricity Substation | 1976 |
| 634DW | 497 | W | Electricity Substation | 1993 |
| 635DW | 497 | W | Electricity Substation | 1990 |
| 636DW | 497 | W | Electricity Substation | 1987 |
| 637DW | 497 | W | Electricity Substation | 1990 |

## 1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 0

Database searched and no data found.

## 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 52

| ID | Distance (m) | Direction | Use | Date |
|---|---|---|---|---|
| 638DZ | 0 | On Site | Garage | 1976 |
| 639CH | 0 | On Site | Garage | 1976 |
| 640CH | 0 | On Site | Garage | 1964 |
| 641CH | 0 | On Site | Garage | 1990 |
| 642DX | 0 | On Site | Garage | 1990 |
| 643AJ | 0 | On Site | Garage | 1964 |
| 644AJ | 0 | On Site | Garage | 1976 |
| 645DY | 0 | On Site | Garage | 1990 |
| 646DY | 0 | On Site | Garage | 1964 |
| 647DY | 0 | On Site | Garage | 1976 |
| 648L | 0 | On Site | Boat Repairing and Engineering Works | 1950 |
| 649J | 0 | On Site | Bodybuilding and Engineering Works | 1950 |
| 650DZ | 0 | On Site | Garage | 1964 |
| 651DZ | 0 | On Site | Garage | 1990 |
| 652DY | 0 | On Site | Garage | 1976 |
| 653DX | 0 | On Site | Garage | 1976 |
| 654CH | 0 | On Site | Garage | 1976 |
| 655DZ | 0 | On Site | Garage | 1976 |
| 656CH | 0 | On Site | Garage | 1950 |
| 657C | 0 | On Site | Garage | 1949 |
| 658L | 16 | NW | Boat Repairing and Engineering Works | 1949 |
| 659AD | 18 | N | Coach Building Works | 1971 |
| 660I | 24 | S | Coach Building Works | 1950 |
| 661I | 26 | S | Garage | 1976 |
| 662EA | 67 | NE | Garage | 1990 |
| 663EA | 67 | NE | Garage | 1990 |

| | | | | |
|---|---|---|---|---|
| 664EA | 67 | NE | Garage | 1989 |
| 665EA | 67 | NE | Garage | 1989 |
| 666EA | 67 | NE | Garage | 1996 |
| 667AK | 74 | S | Marine Engineering Works | 1964 |
| 668AK | 87 | S | Marine Engineering Works | 1965 |
| 669EB | 136 | E | Garage | 1976 |
| 670EB | 136 | E | Garage | 1968 |
| 671EB | 136 | E | Garage | 1988 |
| 672EC | 149 | SE | Garage | 1990 |
| 673EC | 149 | SE | Garage | 1990 |
| 674EC | 150 | SE | Garage | 1964 |
| 675ED | 159 | E | Garage | 1990 |
| 676ED | 159 | E | Garage | 1990 |
| 677BF | 163 | S | Motor Accessories Works | 1927 |
| 678ED | 165 | E | Garage | 1964 |
| 679EB | 170 | E | Garage | 1990 |
| 680EB | 170 | E | Garage | 1990 |
| 681EB | 171 | E | Garage | 1964 |
| 682AV | 186 | SE | Marine Engineering Works | 1966 |
| 683BK | 212 | S | Motor Body Building Works | 1950 |
| 684BK | 214 | S | Garage | 1990 |
| 685BK | 214 | S | Garage | 1976 |
| 686BK | 217 | S | Garage | 1976 |
| 687BK | 218 | S | Motor Body Building Works | 1927 |
| 688DN | 220 | SE | Garage | 1964 |
| 689BK | 234 | S | Motor Body Building Works | 1950 |

## 1.6 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 127

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

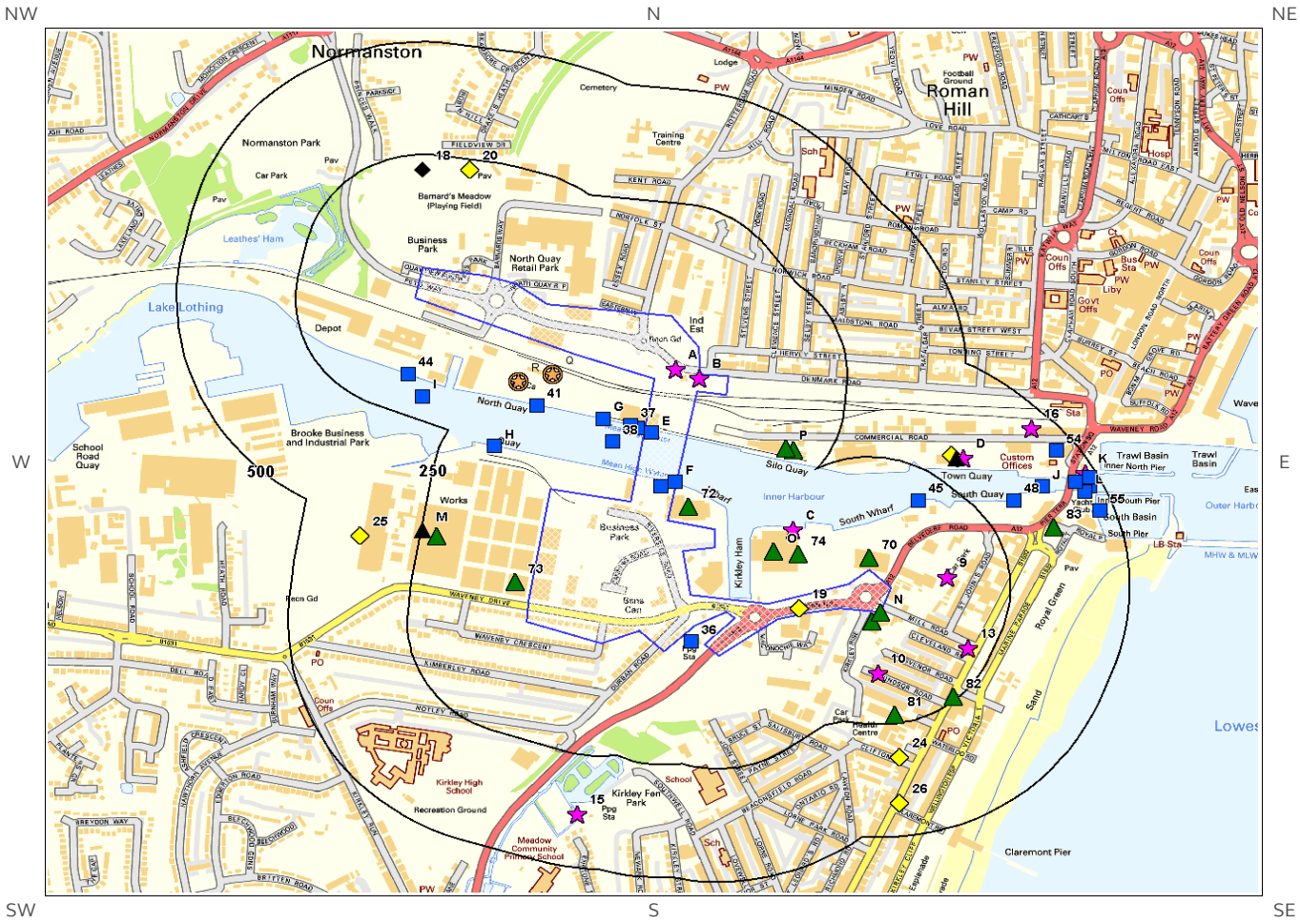
| ID | Distance(m) | Direction | Use | Date |
|---|---|---|---|---|
| 690T | 0 | On Site | Refuse Heap | 1951 |
| 691R | 0 | On Site | Unspecified Wharf | 1946 |
| 692E | 0 | On Site | Quay | 1946 |
| 693D | 0 | On Site | Unspecified Pit | 1974 |
| 694D | 0 | On Site | Unspecified Pit | 1982 |
| 695Y | 0 | On Site | Unspecified Wharf | 1938 |
| 696J | 0 | On Site | Unspecified Wharf | 1938 |
| 697EE | 0 | On Site | Pond | 1951 |
| 698EE | 0 | On Site | Unspecified Pit | 1951 |
| 699EE | 0 | On Site | Pond | 1938 |

| | | | | |
|---|---|---|---|---|
| 700EE | 0 | On Site | Ponds | 1946 |
| 701EF | 0 | On Site | Pond | 1904 |
| 702T | 0 | On Site | Unspecified Pit | 1904 |
| 703 | 0 | On Site | Lake | 1951 |
| 704Y | 0 | On Site | Unspecified Wharf | 1938 |
| 705J | 0 | On Site | Unspecified Wharf | 1938 |
| 706V | 0 | On Site | Unspecified Wharf | 1992 |
| 707R | 0 | On Site | Unspecified Wharves | 1904 |
| 708AJ | 0 | On Site | Cuttings | 1904 |
| 709Y | 5 | E | Unspecified Wharf | 1904 |
| 710AB | 8 | N | Unspecified Wharf | 1951 |
| 711EF | 11 | SW | Pond | 1951 |
| 712AA | 15 | E | Unspecified Wharf | 1982 |
| 713AA | 15 | E | Unspecified Wharf | 1974 |
| 714AB | 19 | N | Unspecified Wharf | 1946 |
| 715AK | 44 | S | Quay | 1974 |
| 716AJ | 45 | SE | Cuttings | 1883 |
| 717AJ | 46 | SE | Cuttings | 1946 |
| 718AU | 47 | E | Unspecified Wharf | 1992 |
| 719AL | 47 | W | Sand Pit | 1946 |
| 720AJ | 48 | SE | Cuttings | 1974 |
| 721AJ | 48 | SE | Cuttings | 1982 |
| 722AJ | 48 | SE | Cuttings | 1992 |
| 723CL | 48 | SE | Refuse Heap | 1951 |
| 724EG | 54 | W | Unspecified Heap | 1951 |
| 725EH | 55 | E | Unspecified Wharf | 1883 |
| 726AJ | 64 | SE | Cuttings | 1974 |
| 727AJ | 64 | SE | Cuttings | 1982 |
| 728AJ | 64 | SE | Cuttings | 1992 |
| 729AT | 67 | SE | Unspecified Pit | 1904 |
| 730AS | 72 | N | Unspecified Wharf | 1883 |
| 731AT | 75 | SE | Unspecified Pit | 1951 |
| 732AT | 86 | SE | Unspecified Pit | 1946 |
| 733AU | 89 | N | Unspecified Wharf | 1946 |
| 734AX | 92 | NW | Unspecified Wharf | 1904 |
| 735CN | 94 | SE | Cemetery | 1904 |
| 736AV | 101 | SE | Quay | 1992 |
| 737AW | 112 | W | Cuttings | 1951 |
| 738AX | 115 | NW | Unspecified Wharf | 1946 |
| 739AV | 118 | SE | Unspecified Wharf | 1904 |
| 740AX | 118 | NW | Unspecified Wharf | 1982 |
| 741AX | 118 | NW | Unspecified Wharf | 1974 |
| 742EI | 120 | S | Cuttings | 1883 |
| 743BA | 125 | NE | Unspecified Wharf | 1946 |
| 744BB | 129 | S | Unspecified Ground Workings | 1974 |

| | | | | |
|---|---|---|---|---|
| 745AZ | 131 | N | Unspecified Wharf | 1938 |
| 746AZ | 131 | N | Unspecified Wharf | 1938 |
| 747BA | 134 | NE | Unspecified Wharf | 1951 |
| 748BD | 135 | S | Unspecified Pit | 1951 |
| 749BB | 144 | S | Unspecified Ground Workings | 1992 |
| 750BB | 144 | S | Unspecified Ground Workings | 1982 |
| 751BC | 149 | S | Cuttings | 1974 |
| 752BC | 149 | S | Cuttings | 1982 |
| 753BD | 162 | S | Unspecified Heap | 1982 |
| 754BD | 162 | S | Unspecified Heap | 1974 |
| 755BD | 162 | S | Unspecified Heap | 1992 |
| 756BG | 162 | NE | Quay | 1974 |
| 757BE | 162 | NE | Quay | 1992 |
| 758BE | 162 | NE | Quay | 1982 |
| 759BA | 169 | NE | Unspecified Wharf | 1938 |
| 760BA | 169 | NE | Unspecified Wharf | 1938 |
| 761BG | 171 | NE | Quay | 1946 |
| 762BG | 171 | NE | Quay | 1883 |
| 763BG | 171 | NE | Quay | 1904 |
| 764EJ | 195 | W | Water Body | 1951 |
| 765EJ | 195 | W | Water Body | 1982 |
| 766EJ | 195 | W | Water Body | 1974 |
| 767EJ | 195 | W | Water Body | 1992 |
| 768 | 202 | N | Pond | 1883 |
| 769EJ | 205 | W | Water Body | 1883 |
| 770EJ | 205 | W | Water Body | 1904 |
| 771EJ | 205 | W | Water Body | 1946 |
| 772EK | 207 | W | Sand Pit | 1883 |
| 773BL | 222 | N | Dry Dock | 1938 |
| 774BL | 222 | N | Dry Dock | 1938 |
| 775EL | 223 | S | Ponds | 1951 |
| 776BJ | 225 | S | Ponds | 1883 |
| 777EL | 233 | S | Water Body | 1974 |
| 778EL | 233 | S | Water Body | 1992 |
| 779EL | 233 | S | Water Body | 1982 |
| 780BL | 242 | N | Dry Dock | 1946 |
| 781BL | 242 | N | Dry Dock | 1883 |
| 782EM | 255 | NE | Unspecified Pit | 1946 |
| 783EN | 255 | NE | Unspecified Wharves | 1904 |
| 784EM | 263 | NE | Sand Pit | 1904 |
| 785BP | 264 | N | Cuttings | 1938 |
| 786BP | 268 | N | Cuttings | 1904 |
| 787BP | 268 | N | Cuttings | 1946 |
| 788EO | 269 | N | Cuttings | 1951 |

| | | | | |
|---|---|---|---|---|
| 789BQ | 272 | N | Cemetery | 1951 |
| 790BQ | 272 | N | Cemetery | 1982 |
| 791BQ | 272 | N | Cemetery | 1974 |
| 792BQ | 272 | N | Cemetery | 1992 |
| 793EM | 282 | N | Gravel Pit | 1883 |
| 794EP | 302 | SE | Pond | 1974 |
| 795EP | 302 | SE | Pond | 1982 |
| 796EP | 302 | SE | Pond | 1992 |
| 797BR | 304 | W | Unspecified Pit | 1982 |
| 798BR | 304 | W | Unspecified Pit | 1992 |
| 799BR | 304 | W | Unspecified Pit | 1974 |
| 800DS | 341 | NE | Quay | 1951 |
| 801 | 370 | SW | Ponds | 1951 |
| 802BP | 383 | N | Cuttings | 1974 |
| 803BP | 383 | N | Cuttings | 1982 |
| 804BP | 383 | N | Cuttings | 1992 |
| 805EQ | 386 | SW | Pond | 1904 |
| 806EQ | 386 | SW | Pond | 1883 |
| 807BQ | 421 | N | Cemetery | 1938 |
| 808CA | 432 | N | Cemetery | 1946 |
| 809CA | 432 | N | Cemetery | 1904 |
| 810CB | 440 | NE | Dock | 1938 |
| 811CB | 440 | NE | Dock | 1938 |
| 812ER | 488 | NE | Brick Works | 1883 |
| 813CE | 493 | NE | Unspecified Pit | 1904 |
| 814CE | 494 | NE | Unspecified Pit | 1946 |
| 815CE | 496 | NE | Unspecified Pit | 1938 |
| 816CE | 496 | NE | Unspecified Pit | 1938 |

# 2. Environmental Permits, Incidents and Registers Map

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- Site Outline
- Search Buffers (m) — 250 — 500
- Recorded Pollution Incident
- Dangerous Substances (List 1)
- Dangerous Substances (List 2)
- Water Industry Referrals
- Licenced Discharge Consents
- Red List Discharge Consents
- RAS 3 & 4 Authorisations
- Part A(1) Authorised Processes and Historic IPC Authorisations
- Part A(2) and Part B Authorised Processes
- COMAH / NIHHS Sites
- Sites Determined as Contaminated Land
- Hazardous Substance Consents and Enforcements

# 2. Environmental Permits, Incidents and Registers

## 2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency and Local Authorities reveal the following information:

### 2.1.1 Records of historic IPC Authorisations within 500m of the study site:

7

The following IPC Authorisations are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 89M | 248 | W | 653400 292600 | Operator: Jeld-wen UK Ltd<br>Address: Waveney Drive, Lowestoft, Suffolk, NR33 0TS<br>Process: Timber Processes | Permit Number: AU8750<br>Original Permit Number: IPCAPP<br>Date Approved: 7-12-1998<br>Effective Date: 1-1-1999<br>Status: Superseded By Variation |
| 90M | 248 | W | 653400 292600 | Operator: Jeld-wen UK Ltd<br>Address: Waveney Drive, Lowestoft, Suffolk, NR33 0TS<br>Process: Timber Processes | Permit Number: BK1813<br>Original Permit Number: IPCMINVAR<br>Date Approved: 12-1-2001<br>Effective Date: 17-1-2001<br>Status: Superseded By Variation |
| 91M | 248 | W | 653400 292600 | Operator: Jeld-wen UK Ltd<br>Address: Waveney Drive, Lowestoft, Suffolk, NR33 0TS<br>Process: Timber Processes | Permit Number: BY8365<br>Original Permit Number: IPCMINVAR<br>Date Approved: 13-1-2005<br>Effective Date: 14-1-2005<br>Status: Referred To La |
| 92D | 304 | NE | 654520 292760 | Operator: Varco Ltd<br>Address: Brandt Enviromental Division, Town Quay, Commercial Road, Lowestoft, Suffolk, NR32 2TE<br>Process: Recovery Processes | Permit Number: AZ8153<br>Original Permit Number: IPCMINVAR<br>Date Approved: 2-10-1997<br>Effective Date: 2-10-1997<br>Status: Superseded By Variation |
| 93D | 304 | NE | 654520 292760 | Operator: Varco Ltd<br>Address: Brandt Enviromental Division, Town Quay, Commercial Road, Lowestoft, Suffolk, NR32 2TE<br>Process: Recovery Processes | Permit Number: BE1429<br>Original Permit Number: IPCMINVAR<br>Date Approved: 24-11-1998<br>Effective Date: 30-11-1998<br>Status: Superseded By Variation |
| 94D | 304 | NE | 654520 292760 | Operator: Varco Ltd<br>Address: Brandt Enviromental Division, Town Quay, Commercial Road, Lowestoft, Suffolk, NR32 2TE<br>Process: Recovery Processes | Permit Number: AV1424<br>Original Permit Number: IPCAPP<br>Date Approved: 2-7-1996<br>Effective Date: 5-7-1996<br>Status: Superseded By Variation |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 95D | 304 | NE | 654520 292760 | Operator: Varco Ltd<br>Address: Brandt Enviromental Division, Town Quay, Commercial Road, Lowestoft, Suffolk, NR32 2TE<br>Process: Recovery Processes | Permit Number: BT6322<br>Original Permit Number: IPCMINVAR<br>Date Approved: 16-12-2002<br>Effective Date: 20-12-2002<br>Status: Revoked - Now Ippc |

### 2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

3

The following Part A(1) and IPPC Authorised Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 86D | 304 | NE | 654520 292760 | Operator: National Oilwell Varco Uk Ltd<br>Installation Name: Brandt Environmental Division<br>Process: RECOVERY OF WASTE; BY DISTILLATION OF OIL/ORGANIC SOLVENT | Permit Number: EP3834SX<br>Original Permit Number: EP3834SX<br>EPR Reference: -<br>Issue Date: 31/3/2006<br>Effective Date: 31/3/2006<br>Last date noted as effective: 2016-01-01<br>Status: Superceded |
| 87D | 304 | NE | 654520 292760 | Operator: National Oilwell Varco Uk Ltd<br>Installation Name: Brandt Environmental Division<br>Process: RECOVERY OF WASTE; BY DISTILLATION OF OIL/ORGANIC SOLVENT | Permit Number: TP3036LS<br>Original Permit Number: EP3834SX<br>EPR Reference: -<br>Issue Date: 4/8/2006<br>Effective Date: 7/8/2006<br>Last date noted as effective: 2016-01-01<br>Status: Superceded |
| 88D | 304 | NE | 654520 292760 | Operator: National Oilwell Varco Uk Ltd<br>Installation Name: Brandt Environmental Division<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT | Permit Number: EP3237NR<br>Original Permit Number: EP3834SX<br>EPR Reference: -<br>Issue Date: 4/12/2013<br>Effective Date: 4/12/2013<br>Last date noted as effective: 2016-01-01<br>Status: Effective |

### 2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

### 2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

1

The following List 1 Dangerous Substance Inventory Site records are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 18 | 215 | N | 653400 293400 | Name: M.p. (eastern) Limited<br>Status: Active<br>Receiving Water: Na | Authorised Substances: Mercury (other) |

### 2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

8

The following List 2 Dangerous Substance Inventory Site records are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 19 | 0 | On Site | 654190 292430 | Name: M R King & Sons<br>Status: Not Active<br>Receiving Water: Na | Authorised Substances: pH |
| 20 | 226 | N | 653500 293400 | Name: Ev Head<br>Status: Not Active<br>Receiving Water: Na | Authorised Substances: pH |
| 21D | 307 | NE | 654510 292770 | Name: Brandt Environmental Division<br>Status: Not Active<br>Receiving Water: Na | Authorised Substances: pH |
| 22D | 307 | NE | 654510 292770 | Name: Brandt Environmental Division<br>Status: Not Active<br>Receiving Water: Na | Authorised Substances: pH |
| 23D | 307 | NE | 654510 292770 | Name: Brandt Environmental Division<br>Status: Active<br>Receiving Water: Na | Authorised Substances: pH, Zinc |
| 24 | 326 | S | 654400 292100 | Name: Supersine Ltd<br>Status: Not Active<br>Receiving Water: Na | Authorised Substances: pH |
| 25 | 374 | W | 653270 292590 | Name: Jeld-wen Uk Ltd<br>Status: Not Active<br>Receiving Water: Na | Authorised Substances: pH |
| 26 | 426 | S | 654400 292000 | Name: John Al Jory<br>Status: Not Active<br>Receiving Water: Na | Authorised Substances: pH |

## 2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

15

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 69N | 5 | S | 654361 292419 | Address: Malthurst Ltd, Mill Road Service Station, Mill Road, Lowestoft, Suffolk, NR33 0PP<br>Process: Unloading of Petrol into Storage at Service Stations<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 70 | 24 | N | 654336 292540 | Address: Redland, Flixton Park, Bungay, Suffolk, NR35 1NN<br>Process: cement/lime/mortar process<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 71N | 27 | S | 654343 292399 | Address: Mil Road Service Station, Mill Road, Lowestoft, NR33 0PP<br>Process: Petrol Vapour Recovery, Petrol Filling Stn<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 72 | 34 | N | 653958 292652 | Address: Redland Ltd, Riverside Road, Lowerstoft, NR33 0TU<br>Process: No Details<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 73 | 35 | W | 653595 292485 | Address: Sanyo Industries, Waveney Drive, Lowestoft, NR33 0TR<br>Process: coating & enamelling process<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 74 | 87 | N | 654189 292547 | Address: Asda, Asda Stores Limited, Belvedere Road, Lowestoft, Suffolk, NR33 0PX<br>Process: Unloading of Petrol into Storage at Service Stations<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 75O | 106 | N | 654136 292553 | Address: Tarmac Topmix, Ellough Industrial Estate, Ellough, Beccles, Suffolk, NR34 7TD<br>Process: cement/lime/mortar process<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 76O | 106 | N | 654136 292553 | Address: Readicrete, Horn Hill, Lowestoft, NR33 0PX<br>Process: cement/lime/mortar process<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 77O | 106 | N | 654136 292553 | Address: Readicrete, Horn Hill, Lowestoft, NR33 0PX<br>Process: cement/lime/mortar process<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 78P | 174 | SE | 654162 292781 | Address: Plasmor Ltd, Silo Storage Unit, Commercial Road, North Quay, Lowestoft, Suffolk, NR32 2TR<br>Process: cement/lime/mortar process<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 79P | 188 | SE | 654178 292777 | Address: Dudman (Lowestoft) Ltd, The Dudman Group of Companies, Commercial Road, Lowestoft, Suffolk, NR32 2TE<br>Process: Bulk cement<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 80M | 217 | W | 653429 292586 | Address: Jeld-Wen, Waveney Drive, Lowestoft, Suffolk, NR33 0TS<br>Process: Timber impregnation<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 81 | 234 | S | 654391 292192 | Address: Aura Graphics Limited (Formally Supersine Duramark), Freemantle Road, Lowestoft, Suffolk, NR33 0EA<br>Process: Screen Printing; Coating & SED<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 82 | 246 | SE | 654514 292231 | Address: Fashion Clean, 140 London Road South, Lowestoft, Suffolk, NR33 0AZ<br>Process: Dry Cleaning<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 83 | 363 | E | 654723 292606 | Address: Gooch Motors Accident Repair Centre, Belvedere Rd, Lowestoft, NR33 0PP<br>Process: No Details<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |

### 2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

## 2.1.8 Records of Licensed Discharge Consents within 500m of the study site:



The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 27E | 0 | On Site | 653880 292820 | Address: ST PETERS ST & ROTTERDAM RD CSO, LOWESTOFT, SUFFOLK<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: ASETS16977<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 24/03/2005<br>Effective Date: 24-Mar-2005<br>Revocation Date: - |
| 28E | 0 | On Site | 653880 292820 | Address: ST PETERS ST & ROTTERDAM RD CSO, LOWESTOFT, SUFFOLK<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: ASETS16977<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 24/03/2005<br>Effective Date: 24-Mar-2005<br>Revocation Date: - |
| 29E | 0 | On Site | 653880 292820 | Address: ST PETERS ST & ROTTERDAM RD CSO, LOWESTOFT, SUFFOLK<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: ASETS16977<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 24/03/2005<br>Effective Date: 24-Mar-2005<br>Revocation Date: - |
| 30E | 0 | On Site | 653880 292820 | Address: ST PETERS ST & ROTTERDAM RD CSO, LOWESTOFT, SUFFOLK<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: ASETS16977<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 24/03/2005<br>Effective Date: 24-Mar-2005<br>Revocation Date: - |
| 31E | 0 | On Site | 653880 292820 | Address: ST PETERS ST & ROTTERDAM RD CSO, LOWESTOFT, SUFFOLK<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: ASETS16977<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 24/03/2005<br>Effective Date: 24-Mar-2005<br>Revocation Date: - |
| 32E | 0 | On Site | 653880 292820 | Address: ST PETERS ST & ROTTERDAM RD CSO, LOWESTOFT, SUFFOLK<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: ASETS16977<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 24/03/2005<br>Effective Date: 24-Mar-2005<br>Revocation Date: - |
| 33F | 0 | On Site | 653930 292710 | Address: CANNING FACTORY L/TOFT, LOWESTOFT, NR33<br>Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY<br>Permit Number: PRENF02101<br>Permit Version: 1 | Receiving Water:<br>Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: 19/01/1990<br>Effective Date: 19-Jan-1990<br>Revocation Date: 26/06/2000 |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 34F | 0 | On Site | 653900 292700 | Address: RIVERSIDE BUSINESS PARK, RIVERSIDE ROAD, LOWESTOFT, SUFFOLK, NR33 0TU<br>Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY<br>Permit Number: PR4TS605<br>Permit Version: 1 | Receiving Water:<br>Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 24/09/1986<br>Effective Date: 24-Sep-1986<br>Revocation Date: - |
| 35E | 18 | W | 653850 292830 | Address: NORWICH ROAD/DENMARK ROAD, LOWESTOFT<br>Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER<br>Permit Number: AW4TS1413<br>Permit Version: 1 | Receiving Water:<br>Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 14/10/1987<br>Effective Date: 14-Oct-1987<br>Revocation Date: - |
| 36 | 21 | SE | 653964 292357 | Address: ROTTERDAM & GORLESTON RDS CSOS, LOWESTOFT, SUFFOLK<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: AW4NF328X<br>Permit Version: 1 | Receiving Water:<br>Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 23/10/1962<br>Effective Date: 23-Oct-1962<br>Revocation Date: - |
| 37 | 31 | W | 653837 292836 | Address: ROTTERDAM & GORLESTON RDS CSOS, LOWESTOFT, SUFFOLK<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: AW4NF328X<br>Permit Version: 1 | Receiving Water:<br>Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 23/10/1962<br>Effective Date: 23-Oct-1962<br>Revocation Date: - |
| 38 | 61 | W | 653800 292800 | Address: BEECHAM FOODS LTD, LOWESTOFT<br>Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY<br>Permit Number: PR4TS665X<br>Permit Version: 1 | Receiving Water:<br>Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 11/07/1969<br>Effective Date: 11-Jul-1969<br>Revocation Date: 24/02/1992 |
| 39G | 90 | W | 653780 292850 | Address: NORWICH ROAD CSO'S (#1 & #2), LOWESTOFT, SUFFOLK<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: ASETS16992<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 24/03/2005<br>Effective Date: 24-Mar-2005<br>Revocation Date: - |
| 40G | 90 | W | 653780 292850 | Address: NORWICH ROAD CSO'S (#1 & #2), LOWESTOFT, SUFFOLK<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: ASETS16992<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 24/03/2005<br>Effective Date: 24-Mar-2005<br>Revocation Date: - |
| 41 | 134 | S | 653640 292880 | Address: BRITISH PARTS BUILDING, INDUSTRIAL ESTATE, NORTH QUAY ROAD, LOWESTOFT, SUFFOLK<br>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: PR4TS1013X<br>Permit Version: 1 | Receiving Water:<br>Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 23/01/1984<br>Effective Date: 23-Jan-1984<br>Revocation Date: - |
| 42H | 152 | NW | 653550 292790 | Address: JELD WEN UK LTD, WAVENEY DRIVE, LOWESTOFT, SUFFOLK, NR33 0TS<br>Effluent Type: TRADE DISCHARGES - SITE DRAINAGE<br>Permit Number: PRENF19983<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 21/06/2006<br>Effective Date: 21-Jun-2006<br>Revocation Date: 08/11/2009 |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 43H | 152 | NW | 653550 292790 | Address: JELD WEN UK LTD, WAVENEY DRIVE, LOWESTOFT, SUFFOLK, NR33 0TS<br>Effluent Type: TRADE DISCHARGES - SITE DRAINAGE<br>Permit Number: PRENF19983<br>Permit Version: 2 | Receiving Water:<br>Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 09/11/2009<br>Effective Date: 09-Nov-2009<br>Revocation Date: 01/07/2010 |
| 44 | 163 | S | 653370 292950 | Address: SHELL UK LTD, LOTHING DEPOT, P.O. BOX 4, COMMERCIAL ROAD, NORTH QUAY, LOWESTOFT, SUFFOLK, NR32 2TH<br>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: NPSWQD000453<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 27/03/2008<br>Effective Date: 27-Mar-2008<br>Revocation Date: - |
| 45 | 185 | NE | 654440 292670 | Address: BELVEDERE ROAD OVERFLOW, LOWESTOFT, SUFFOLK, NR33 0PU<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: ASETS16995<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 24/03/2005<br>Effective Date: 24-Mar-2005<br>Revocation Date: - |
| 46I | 199 | S | 653400 292900 | Address: SHELL UK LTD, LOTHING DEPOT, P.O. BOX 4, COMMERCIAL ROAD, NORTH QUAY, LOWESTOFT, SUFFOLK, NR32 2TH<br>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: PR4TS564X<br>Permit Version: 1 | Receiving Water:<br>Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 10/06/1966<br>Effective Date: 10-Jun-1966<br>Revocation Date: 01/07/1993 |
| 47I | 199 | S | 653400 292900 | Address: SHELL UK LTD, LOTHING DEPOT, P.O. BOX 4, COMMERCIAL ROAD, NORTH QUAY, LOWESTOFT, SUFFOLK, NR32 2TH<br>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: PR4TS873X<br>Permit Version: 1 | Receiving Water:<br>Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 30/09/1980<br>Effective Date: 30-Sep-1980<br>Revocation Date: 30/06/2004 |
| 48 | 321 | NE | 654640 292670 | Address: ST JOHN'S ROAD CSO, ST JOHN'S ROAD, LOWESTOFT, SUFFOLK<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: ASETS16950<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 25/01/2005<br>Effective Date: 25-Jan-2005<br>Revocation Date: - |
| 49J | 387 | NE | 654700 292700 | Address: BRIDGE, LOWESTOFT, NR32 1BG<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: ASETS2159<br>Permit Version: 1 | Receiving Water:<br>Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: 02/01/1990<br>Effective Date: 02-Jan-1990<br>Revocation Date: 02/09/2010 |
| 50J | 387 | NE | 654700 292700 | Address: BRIDGE, LOWESTOFT, NR32 1BG<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: ASETS2159<br>Permit Version: 2 | Receiving Water:<br>Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: 03/09/2010<br>Effective Date: 03-Sep-2010<br>Revocation Date: - |
| 51K | 451 | NE | 654770 292710 | Address: WINNIPEG ROAD/ST PETERS STREET, LOWESTOFT<br>Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER<br>Permit Number: AW4TS1414<br>Permit Version: 1 | Receiving Water:<br>Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 14/10/1987<br>Effective Date: 14-Oct-1987<br>Revocation Date: - |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 52L | 458 | NE | 654790 292690 | Address: ROYAL NORFOLK & SUFFOLK YACHT CLUB, LOWESTOFT, SUFFOLK, NR33 0AQ<br>Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY<br>Permit Number: AW4TS12090<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 08/03/2002<br>Effective Date: 08-Mar-2002<br>Revocation Date: - |
| 53L | 458 | NE | 654790 292690 | Address: ROYAL NORFOLK & SUFFOLK YACHT CLUB, LOWESTOFT, SUFFOLK, NR33 0AQ<br>Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES<br>Permit Number: AW4TS12090<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 08/03/2002<br>Effective Date: 08-Mar-2002<br>Revocation Date: - |
| 54 | 460 | NE | 654730 292780 | Address: CLAPHAM ROAD SOUTH/BEVAN STREET EAS, LOWESTOFT<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: AW4TS1415<br>Permit Version: 1 | Receiving Water:<br>Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 14/10/1987<br>Effective Date: 14-Oct-1987<br>Revocation Date: 22/01/1992 |
| 55 | 469 | E | 654821 292647 | Address: ROYAL NORFOLK & SUFFOLK YACHT CLUB, ROYAL PLAIN, LOWESTOFT, SUFFOLK, NR33 0AQ<br>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: PR4TS1515<br>Permit Version: 1 | Receiving Water:<br>Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 15/09/1987<br>Effective Date: 15-Sep-1987<br>Revocation Date: - |
| 56K | 472 | NE | 654800 292700 | Address: ROYAL NORFOLK & SUFFOLK YACHT CLUB, LOWESTOFT, SUFFOLK, NR33 0AQ<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: AW4TS1411<br>Permit Version: 1 | Receiving Water:<br>Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 14/10/1987<br>Effective Date: 14-Oct-1987<br>Revocation Date: 07/03/2002 |
| 57K | 482 | NE | 654800 292720 | Address: STATION SQUARE#2 & COMERCIAL RD CSO, LOWESTOFT, SUFFOLK<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: ASETS16994<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 24/03/2005<br>Effective Date: 24-Mar-2005<br>Revocation Date: - |
| 58K | 482 | NE | 654800 292720 | Address: STATION SQUARE#2 & COMERCIAL RD CSO, LOWESTOFT, SUFFOLK<br>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: ASETS16994<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 24/03/2005<br>Effective Date: 24-Mar-2005<br>Revocation Date: - |

### 2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

---

### 2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

2

The following records are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | Application Reference Number | NGR | Application Status | Application Date | Address | Details | Details of Enforcement Action |
|---|---|---|---|---|---|---|---|---|---|
| 96Q | 58 | S | DC/06/0225/HAZ | 653673 292949 | Refused | 16/01/2006 | North Quay Cargo Terminal, Commercial Road, Lowestoft, NR32 2TE | Storage of Ammonium Nitrate - Up to 4,999 tonnes | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| 97R | 98 | S | DC/00/0241/HAZ | 653601 292933 | Refused | 01/09/2000 | Land At North Quay, Lowestoft Retail Park, Peto Way, Lowestoft, NR32 2ED | Storage of ammonium nitrate | Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |

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## 2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site: 0

Database searched and no data found.

---

## 2.3 Environment Agency Recorded Pollution Incidents

### 2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

17

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 1A | 0 | On Site | 653930 292960 | Incident Date: 10-Mar-2003<br>Incident Identification: 142495<br>Pollutant: Inert Materials and Wastes:Specific Waste Materials:Specific Waste Materials:Specific Waste Materials<br>Pollutant Description: Construction and Demolition Materials and Wastes:Tyres:Vehicles and Vehicle Parts:Other Specific Waste Material | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| 2B | 0 | On Site | 653980 292940 | Incident Date: 10-Mar-2003<br>Incident Identification: 142496<br>Pollutant: Specific Waste Materials:Specific Waste Materials<br>Pollutant Description: Tyres:Vehicles and Vehicle Parts | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| 3A | 0 | On Site | 653930 292960 | Incident Date: 10-Mar-2003<br>Incident Identification: 142495<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Tyres | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| 4B | 0 | On Site | 653980 292940 | Incident Date: 10-Mar-2003<br>Incident Identification: 142496<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Vehicles and Vehicle Parts | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| 5A | 0 | On Site | 653930 292960 | Incident Date: 10-Mar-2003<br>Incident Identification: 142495<br>Pollutant: Inert Materials and Wastes<br>Pollutant Description: Construction and Demolition Materials and Wastes | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| 6B | 0 | On Site | 653980 292940 | Incident Date: 10-Mar-2003<br>Incident Identification: 142496<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Tyres | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| 7A | 0 | On Site | 653930 292960 | Incident Date: 10-Mar-2003<br>Incident Identification: 142495<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Vehicles and Vehicle Parts | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| 8A | 0 | On Site | 653930 292960 | Incident Date: 10-Mar-2003<br>Incident Identification: 142495<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Other Specific Waste Material | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| 9 | 118 | E | 654500 292500 | Incident Date: 17-Jun-2001<br>Incident Identification: 9748<br>Pollutant: Sewage Materials<br>Pollutant Description: Final Effluent | Water Impact: Category 3 (Minor)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 10 | 136 | S | 654354 292288 | Incident Date: 02-Nov-2002<br>Incident Identification: 118326<br>Pollutant: Sewage Materials<br>Pollutant Description: Other Sewage Material | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| 11C | 146 | N | 654176 292605 | Incident Date: 19-Nov-2002<br>Incident Identification: 121794<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor) |
| 12C | 146 | N | 654176 292605 | Incident Date: 19-Nov-2002<br>Incident Identification: 121794<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor) |
| 13 | 199 | SE | 654543 292343 | Incident Date: 06-Mar-2002<br>Incident Identification: 62261<br>Pollutant: Contaminated Water<br>Pollutant Description: Firefighting Run-Off | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| 14D | 315 | NE | 654534 292763 | Incident Date: 18-Sep-2002<br>Incident Identification: 108770<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Chemical Odour | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor) |
| 15 | 382 | S | 653724 291976 | Incident Date: 28-Jul-2003<br>Incident Identification: 177218<br>Pollutant: Sewage Materials<br>Pollutant Description: Crude Sewage | Water Impact: Category 3 (Minor)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| 16 | 457 | NE | 654677 292828 | Incident Date: 16-Jun-2003<br>Incident Identification: 166091<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Dust | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor) |
| 17K | 478 | NE | 654790 292730 | Incident Date: 12-Nov-2001<br>Incident Identification: 42458<br>Pollutant: Sewage Materials<br>Pollutant Description: Crude Sewage | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |

### 2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

Database searched and no data found.

## 2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

| | |
|---|---|
| How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site? | 0 |

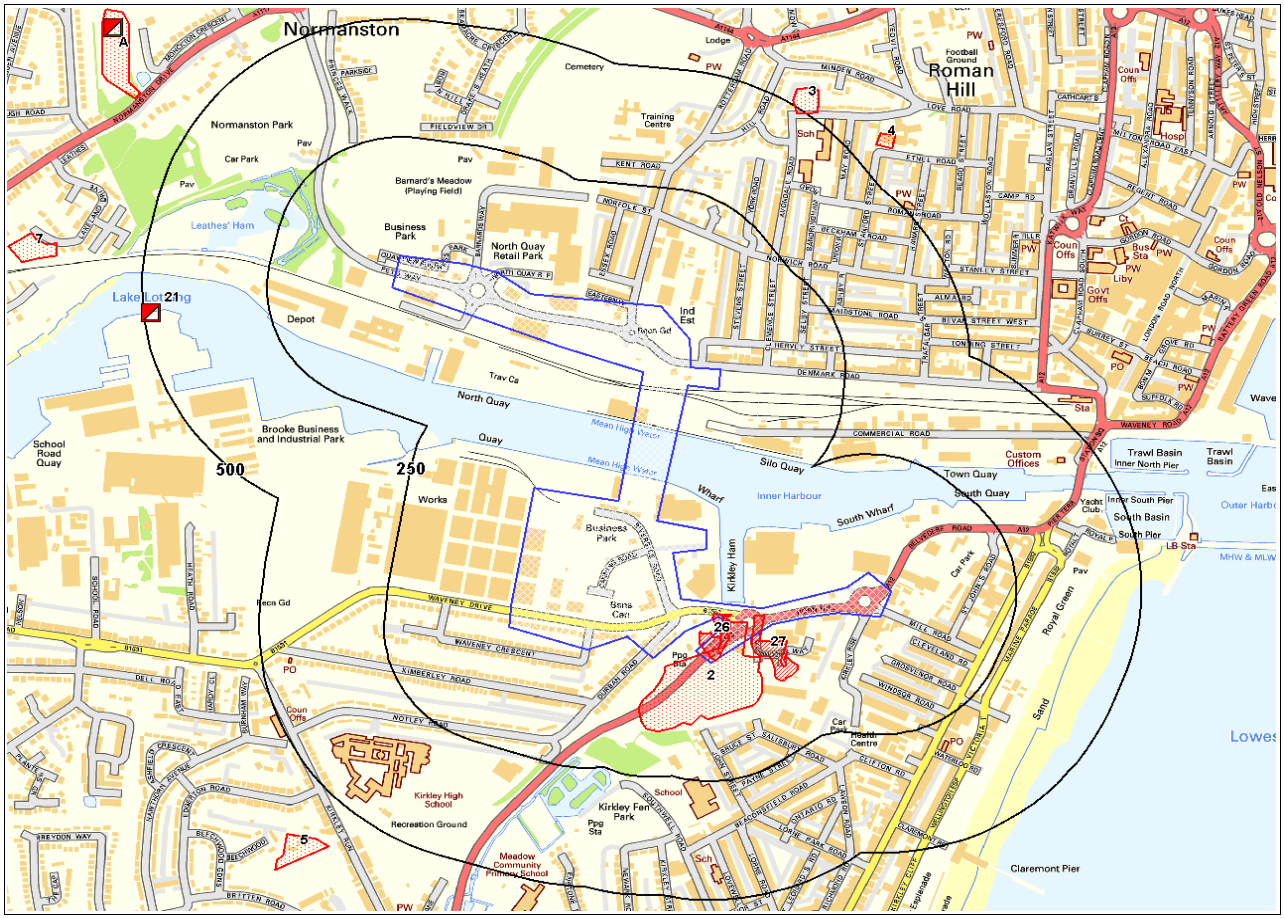
Database searched and no data found.

# 3. Landfill and Other Waste Sites Map

NW N NE

W E

SW S SE

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Site Outline

250
500
Search Buffers (m)

E.A. Active Landfill

E.A. Historic Landfill

BGS / DoE Survey Landfill

Historic and Planned Waste Sites

E.A. Licensed Waste Site

Local Authority/Historical Mapping Landfill Records

# 3. Landfill and Other Waste Sites

## 3.1 Landfill Sites

### 3.1.1 Records from Environment Agency landfill data within 1000m of the study site:

0

Database searched and no data found.

---

### 3.1.2 Records of Environment Agency historic landfill sites within 1500m of the study site:

19

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 2 | 0 | On Site | 654000 292200 | Site Address: South Inner Harbour, Lowestoft, Suffolk<br>Waste Licence: -<br>Site Reference: WAV35, OFSW36<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| 3 | 488 | NE | 654200 293500 | Site Address: Love Road, Lowestoft, Suffolk<br>Waste Licence: -<br>Site Reference: OFSW11, WAV10, 3500/5163<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| 4 | 548 | NE | 654300 293400 | Site Address: Roman Hill, Lowestoft<br>Waste Licence: -<br>Site Reference: OFSW12, WAV11, 3500/5162<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| 5 | 586 | SW | 653100 291900 | Site Address: Kirkley Run/Britten Road, Lowestoft<br>Waste Licence: -<br>Site Reference: OFSW15, WAV14, 3500/5159<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: 01-May-1955<br>Last Recorded: 31-Oct-1956 |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 6A | 623 | NW | 652800 293600 | Site Address: Normanston Drive, Lowestoft, Suffolk<br>Waste Licence: -<br>Site Reference: WAV19, OFSW20<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| 7 | 674 | W | 652600 293100 | Site Address: Roman Hill, Lowestoft, Suffolk<br>Waste Licence: -<br>Site Reference: OFSW13, WAV12, 3500/5161<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| Not shown | 749 | N | 653200 293900 | Site Address: Fir Lane, Lowestoft, Suffolk<br>Waste Licence: -<br>Site Reference: OFSW8, WAV7, 3500/5166<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| Not shown | 801 | NW | 653000 293900 | Site Address: Slaters Pond, Normanston Drive<br>Waste Licence: -<br>Site Reference: OFSW07, WAV5, 3500/5168<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| Not shown | 814 | N | 653200 293900 | Site Address: Fir Lane, Lowestoft, Suffolk<br>Waste Licence: -<br>Site Reference: OFSW8, WAV6, 3500/5167<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| Not shown | 857 | N | 653600 294000 | Site Address: June Avenue, Lowestoft, Suffolk<br>Waste Licence: -<br>Site Reference: WAV36, OFSW37<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| Not shown | 863 | N | 654100 293900 | Site Address: Marham Road Pit, Marham Road, Lowestoft, Suffolk<br>Waste Licence: -<br>Site Reference: OFSW10, WAV9, 3500/5164<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| Not shown | 870 | N | 653300 294000 | Site Address: Elizabeth Close, Lowestoft, Suffolk<br>Waste Licence: -<br>Site Reference: OFSW9, WAV8, 3500/5165<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| Not shown | 898 | NW | 652900 293900 | Site Address: Kesgrave Drive, Oulton Broad<br>Waste Licence: -<br>Site Reference: OFSW6, WAV4, 3500/5169<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| Not shown | 1182 | N | 653900 294300 | Site Address: Haven Avenue, Lowestoft, Suffolk<br>Waste Licence: -<br>Site Reference: WAV3, OFSW5, 3500/5170<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| Not shown | 1252 | SW | 652700 291400 | Site Address: Oak Wood Road, Lowestoft, Suffolk<br>Waste Licence: -<br>Site Reference: WAV32, OFSW33<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| Not shown | 1345 | SW | 652300 291800 | Site Address: Colville Road/Boon Drive, Lowestoft, Suffolk<br>Waste Licence: -<br>Site Reference: OFSW14, WAV13, 3500/5160<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: 01-May-1964<br>Last Recorded: 31-Oct-1964 |
| Not shown | 1347 | S | 653100 291100 | Site Address: Martin's Pit, Blackheath Road, Lowestoft<br>Waste Licence: -<br>Site Reference: 907/17/01, WAV42, FSW1<br>Waste Type: Inert, Industrial<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: Mr Martin<br>Licence Holder: Mr Martin<br>First Recorded: 01-Jul-1948<br>Last Recorded: - |
| Not shown | 1357 | NE | 655400 293300 | Site Address: Hamilton Road, Lowestoft, Suffolk<br>Waste Licence: -<br>Site Reference: WAV56, FSW16, 907/02/17<br>Waste Type: Household<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: Suffolk County Council<br>Licence Holder: -<br>First Recorded: 31-Dec-1977<br>Last Recorded: 31-Dec-1989 |
| Not shown | 1458 | SW | 652200 291700 | Site Address: Whitton Close, Lowestoft, Suffolk<br>Waste Licence: -<br>Site Reference: WAV33, OFSW34<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |

### 3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

1

The following landfill records are represented as points on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| Not shown | 962 | N | 654200.0 294000.0 | Address: Marham Road Pit, Marham Rd, Lowestoft<br>BGS Number: 2004.0 | Risk: Risk to minor aquifer<br>Waste Type: N/A |

### 3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

11

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Site Address | Source | Data Type |
|---|---|---|---|---|---|---|
| 26 | 0 | On Site | 654032 292379 | Refuse Tip | 1963 mapping | Polygon |
| 27 | 0 | On Site | 654150 292357 | Refuse Tip | 1963 mapping | Polygon |
| Not shown | 831 | NW | 652938 293954 | Refuse Tip | 1968 mapping | Polygon |
| Not shown | 845 | NW | 652983 293934 | Refuse Tip | 1963 mapping | Polygon |
| Not shown | 846 | NW | 652983 293935 | Refuse Tip | 1962 mapping | Polygon |
| Not shown | 849 | NW | 653002 293957 | Refuse Tip | 1971 mapping | Polygon |
| Not shown | 909 | NW | 652954 294037 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 909 | NW | 652953 294038 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 909 | NW | 652894 294055 | Refuse Tip | 1968 mapping | Polygon |
| Not shown | 1307 | NE | 655455 293270 | Refuse Tip | 1984 mapping | Polygon |
| Not shown | 1423 | SW | 653056 291044 | Refuse Tip | 1971 mapping | Polygon |

## 3.2 Other Waste Sites

### 3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

0

Database searched and no data found.

---

### 3.2.2 Records of Environment Agency licensed waste sites within 1500m of the study site:

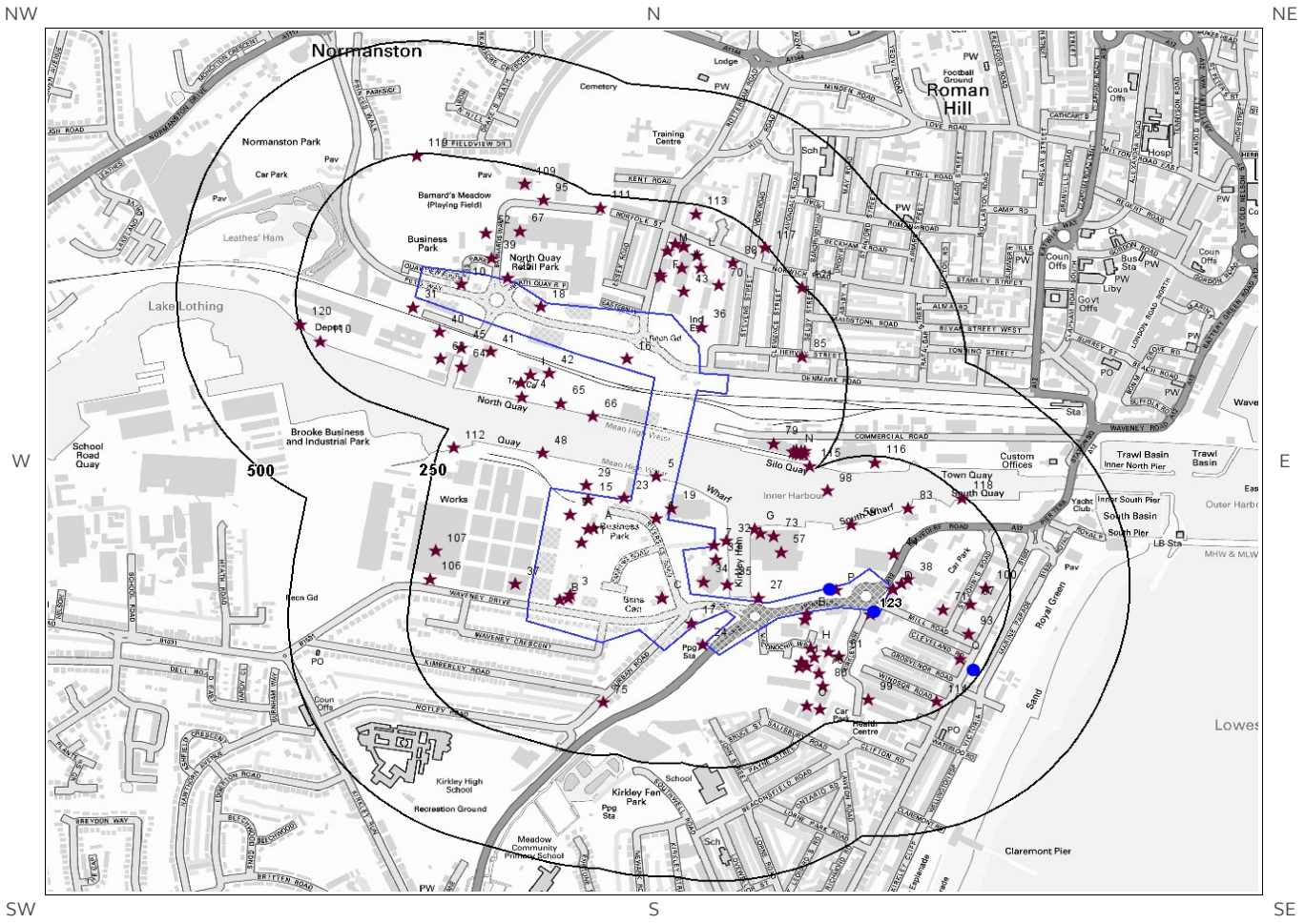
5

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 21 | 486 | W | 652902 293066 | Site Address: Brooke Marina, Heath Road, Lowestoft, Suffolk, NR33 9LZ<br>Type: Metal Recycling Site (Vehicle Dismantler)<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: MIT037<br>EPR reference: EA/EPR/BB3601TF/V002<br>Operator: Mitchell Demolition Limited And East Point Metal Trading Limited<br>Waste Management licence No: 401425<br>Annual Tonnage: 24999.999 | Issue Date: 29/10/2014<br>Effective Date: -<br>Modified: 16/03/2015<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: East Point Metal Trading Limited / Mitchell Demolition Limited<br>Correspondence Address: -, - |
| 22A | 751 | NW | 652826 293667 | Site Address: Neeves Pit, Normanstone Drive, Oulton Broad, Lowestoft, Suffolk, NR32 3DA<br>Type: Transfer Station taking Non-Biodegradable Wastes<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: WAV001<br>EPR reference: EA/EPR/AP3495NY/A001<br>Operator: Waveney District Council<br>Waste Management licence No: 70782<br>Annual Tonnage: 5000.0 | Issue Date: 12/09/1990<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued<br>Site Name: Oulton<br>Correspondence Address: -, - |
| Not shown | 871 | W | 652533 292939 | Site Address: Unit 6, Harbour Road Ind Est, Oulton Broad, Suffolk, NR32 3LZ<br>Type: Household, Commercial & Industrial Waste T Stn<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: WAT001<br>EPR reference: -<br>Operator: P W Waters Ltd<br>Waste Management licence No: 70784<br>Annual Tonnage: 4999.0 | Issue Date: 03/10/1991<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued<br>Site Name: Oulton Broad<br>Correspondence Address: -, Unit 6, Harbour Road Ind Est, Oulton Broad, Suffolk, NR32 3LZ |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| Not shown | 940 | W | 652467 292915 | Site Address: Unit 6, Harbour Road Ind Est, Oulton Broad, Suffolk, NR32 3LZ<br>Type: Household, Commercial & Industrial Waste T Stn<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: WAT001<br>EPR reference: EA/EPR/BP3695LP/V001<br>Operator: P W Waters Ltd<br>Waste Management licence No: 70784<br>Annual Tonnage: 4999.0 | Issue Date: 03/10/1991<br>Effective Date: -<br>Modified: 31/07/2008<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: Oulton Broad<br>Correspondence Address: -, - |
| Not shown | 1471 | NE | 655477 293462 | Site Address: Wildes Street, Lowestoft, Suffolk, NR32 1XH<br>Type: Household, Commercial & Industrial Waste T Stn<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: SUF009<br>EPR reference: EA/EPR/AP3795NL/S002<br>Operator: Viridor Waste Suffolk Ltd<br>Waste Management licence No: 70787<br>Annual Tonnage: 7500.0 | Issue Date: 25/05/1994<br>Effective Date: -<br>Modified: -<br>Surrendered Date: 17/11/2006<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Surrendered<br>Site Name: Lowestoft C A Site<br>Correspondence Address: -, - |

# 4. Current Land Use Map

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Site Outline

250
500
Search Buffers (m)

Current Industrial Sites

Petrol & Fuel Sites

Electricity Transmission Cables

Gas Transmission Pipelines

# 4. Current Land Uses

## 4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: 121

The following records are represented as points on the Current Land Uses map.

| ID | Distance (m) | Direction | Company | NGR | Address | Activity | Category |
|---|---|---|---|---|---|---|---|
| 1B | 0 | On Site | Chimney | 653687 292448 | NR33 | Chimneys | Industrial Features |
| 2P | 0 | On Site | M R King & Sons Lowestoft Ltd | 654266 292469 | Horn Hill, Lowestoft, NR33 0PX | New Vehicles | Motoring |
| 3 | 0 | On Site | Depot | 653709 292461 | NR33 | Container and Storage | Transport, Storage and Delivery |
| 4A | 0 | On Site | Chimney | 653760 292607 | NR33 | Chimneys | Industrial Features |
| 5 | 0 | On Site | Wharf | 653890 292722 | NR33 | Moorings and Unloading Facilities | Water |
| 6 | 0 | On Site | Electricity Sub Station | 653891 292629 | NR33 | Electrical Features | Infrastructure and Facilities |
| 7 | 0 | On Site | Electricity Sub Station | 654011 292569 | NR33 | Electrical Features | Infrastructure and Facilities |
| 8A | 0 | On Site | Tank | 653748 292606 | NR33 | Tanks (Generic) | Industrial Features |
| 9 | 0 | On Site | Electricity Sub Station | 653710 292637 | NR33 | Electrical Features | Infrastructure and Facilities |
| 10 | 0 | On Site | Pipeshield | 653482 293146 | 4 Quay View Business Park, Barnards Way, Lowestoft, NR32 2HD | Special Purpose Machinery and Equipment | Industrial Products |
| 11 | 0 | On Site | Depot | 653734 292575 | NR33 | Container and Storage | Transport, Storage and Delivery |
| 12C | 0 | On Site | Packrobat | 653903 292453 | Riverside Business Centre 1, Riverside Road, Lowestoft, NR33 0TQ | Packaging | Industrial Products |
| 13B | 0 | On Site | Arrow Group | 653706 292452 | Compass House, Waveney Drive, Lowestoft, NR33 0TP | Office and Shop Equipment | Industrial Products |
| 14C | 0 | On Site | Lings Honda Mitsubishi Motorlings Used Cars | 653903 292453 | Riverside Business Centre 1, Riverside Road, Lowestoft, NR33 0TQ | Secondhand Vehicles | Motoring |
| 15 | 0 | On Site | Electricity Sub Station | 653748 292671 | NR33 | Electrical Features | Infrastructure and Facilities |
| 16 | 0 | On Site | Depot | 653828 292982 | NR32 | Container and Storage | Transport, Storage and Delivery |
| 17 | 0 | On Site | Electricity Sub Station | 653963 292398 | NR33 | Electrical Features | Infrastructure and Facilities |

| ID | Distance (m) | Direction | Company | NGR | Address | Activity | Category |
|---|---|---|---|---|---|---|---|
| 18 | 0 | On Site | Electricity Sub Station | 653649 293097 | NR32 | Electrical Features | Infrastructure and Facilities |
| 19 | 1 | E | Nexen Lift Trucks Ltd | 653923 292652 | Riverside Road, Lowestoft, NR33 0TU | Lifting and Handling Equipment | Industrial Products |
| 20E | 4 | S | Precision Pipework Ltd | 654206 292417 | Horn Hill, Lowestoft, NR33 0PX | Industrial Repairs and Servicing | Repair and Servicing |
| 21D | 5 | SE | Gooch Car Centre Ltd | 654387 292472 | Mill Road, Lowestoft, NR33 0PP | Secondhand Vehicles | Motoring |
| 22D | 5 | SE | Gooch Accident Repair Centre Ltd | 654387 292472 | Mill Road, Lowestoft, NR33 0PP | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 23 | 5 | N | Tank | 653822 292675 | NR33 | Tanks (Generic) | Industrial Features |
| 24 | 6 | SW | Pumping Station | 653988 292349 | NR33 | Water Pumping Stations | Industrial Features |
| 25 | 7 | N | Gas Governor Station | 653579 293161 | NR32 | Gas Features | Infrastructure and Facilities |
| 26 | 9 | S | MRH Mill Road | 654338 292417 | Mill Road, Lowestoft, Suffolk, NR33 0PP | Petrol and Fuel Stations | Road and Rail |
| 27 | 9 | N | Asda Lowestoft Automat | 654104 292453 | Horn Hill, Lowestoft, Suffolk, NR33 0PX | Petrol and Fuel Stations | Road and Rail |
| 28E | 14 | S | Works | 654201 292406 | NR33 | Unspecified Works Or Factories | Industrial Features |
| 29 | 18 | N | Hoppers | 653743 292702 | NR33 | Hoppers and Silos | Farming |
| 30D | 21 | E | Works | 654404 292484 | NR33 | Unspecified Works Or Factories | Industrial Features |
| 31 | 22 | S | Electricity Sub Station | 653381 293096 | NR32 | Electrical Features | Infrastructure and Facilities |
| 32 | 22 | E | Wharf | 654037 292579 | NR33 | Moorings and Unloading Facilities | Water |
| 33 | 29 | S | Riverside Business Park | 654016 292538 | NR33 | Business Parks and Industrial Estates | Industrial Features |
| 34 | 32 | E | Lings Mitsubishi | 653990 292488 | Riverside Road, Lowestoft, NR33 0TQ | New Vehicles | Motoring |
| 35 | 32 | N | Wharf | 654040 292483 | NR33 | Moorings and Unloading Facilities | Water |
| 36 | 32 | NE | Depot | 653985 293053 | NR32 | Container and Storage | Transport, Storage and Delivery |
| 37 | 35 | W | Works | 653595 292484 | NR33 | Unspecified Works Or Factories | Industrial Features |
| 38 | 39 | NE | Works | 654419 292494 | NR33 | Unspecified Works Or Factories | Industrial Features |
| 39 | 41 | N | Electricity Sub Station | 653546 293206 | NR32 | Electrical Features | Infrastructure and Facilities |
| 40 | 54 | S | Electricity Sub Station | 653435 293042 | NR32 | Electrical Features | Infrastructure and Facilities |
| 41 | 57 | S | Works | 653544 292998 | NR32 | Unspecified Works Or Factories | Industrial Features |
| 42 | 57 | S | Electricity Sub Station | 653666 292952 | NR32 | Electrical Features | Infrastructure and Facilities |

| ID | Distance (m) | Direction | Company | NGR | Address | Activity | Category |
|---|---|---|---|---|---|---|---|
| 43 | 58 | NE | Depot | 653948 293131 | NR32 | Container and Storage | Transport, Storage and Delivery |
| 44 | 58 | NE | Electricity Sub Station | 654388 292550 | NR33 | Electrical Features | Infrastructure and Facilities |
| 45 | 70 | S | Slipway | 653482 293007 | NR32 | Moorings and Unloading Facilities | Water |
| 46I | 75 | S | Depot | 653627 292948 | NR32 | Container and Storage | Transport, Storage and Delivery |
| 47H | 79 | S | A R Motorcycles | 654214 292342 | Unit 2, Horn Hill, Lowestoft, NR33 0PX | New Vehicles | Motoring |
| 48 | 80 | N | Quay | 653652 292774 | NR33 | Moorings and Unloading Facilities | Water |
| 49G | 82 | E | Electricity Sub Station | 654096 292606 | NR33 | Electrical Features | Infrastructure and Facilities |
| 50F | 82 | N | Eastpoint | 653899 293163 | Rotterdam Road, Lowestoft, NR32 2EX | Educational Equipment and Supplies | Industrial Products |
| 51F | 89 | N | Works | 653898 293170 | NR32 | Unspecified Works Or Factories | Industrial Features |
| 52 | 93 | N | Apex Scaffolding Anglia Ltd | 653533 293260 | Barnards Way, Lowestoft, NR32 2HF | Construction and Tool Hire | Hire Services |
| 53G | 94 | E | Slipway | 654108 292595 | NR33 | Moorings and Unloading Facilities | Water |
| 54H | 94 | S | Electricity Sub Station | 654252 292333 | NR33 | Electrical Features | Infrastructure and Facilities |
| 55I | 99 | S | Travelling Crane | 653606 292930 | NR32 | Travelling Cranes and Gantries | Industrial Features |
| 56H | 100 | S | Works | 654221 292322 | NR33 | Unspecified Works Or Factories | Industrial Features |
| 57 | 103 | N | Asda Petrol | 654152 292554 | Horn Hill, Lowestoft, NR33 0PX | Petrol and Fuel Stations | Road and Rail |
| 58J | 105 | S | Works | 654195 292311 | NR33 | Unspecified Works Or Factories | Industrial Features |
| 59 | 106 | N | South Wharf | 654300 292615 | NR33 | Moorings and Unloading Facilities | Water |
| 60J | 107 | S | Tank | 654197 292310 | NR33 | Tanks (Generic) | Industrial Features |
| 61 | 107 | S | Works | 654273 292323 | NR33 | Unspecified Works Or Factories | Industrial Features |
| 62K | 108 | N | Waveney District Council M O T Testing Centre | 653944 293184 | Rotterdam Road, Lowestoft, NR32 2EF | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 63 | 109 | S | Depot | 653438 292982 | NR32 | Container and Storage | Transport, Storage and Delivery |
| 64 | 109 | S | Tank | 653482 292965 | NR32 | Tanks (Generic) | Industrial Features |
| 65 | 113 | S | Crane | 653689 292884 | NR32 | Travelling Cranes and Gantries | Industrial Features |
| 66 | 114 | W | North Quay | 653757 292855 | NR32 | Moorings and Unloading Facilities | Water |
| 67 | 114 | N | Halfords | 653604 293264 | 2 North Quay Retail Park, Peto Way, Lowestoft, NR32 2ED | Vehicle Parts and Accessories | Motoring |

| ID | Distance (m) | Direction | Company | NGR | Address | Activity | Category |
|---|---|---|---|---|---|---|---|
| 68J | 115 | SE | Hopper | 654190 292300 | NR33 | Hoppers and Silos | Farming |
| 69J | 117 | S | Tank | 654206 292302 | NR33 | Tanks (Generic) | Industrial Features |
| 70 | 118 | NE | Norwich Road Industrial Estate | 654021 293145 | NR32 | Business Parks and Industrial Estates | Industrial Features |
| 71 | 118 | SE | Works | 654491 292428 | NR33 | Unspecified Works Or Factories | Industrial Features |
| 72K | 120 | NE | Autolec Lowestoft | 653982 293183 | 97, Norwich Road Industrial Estate, Lowestoft, NR32 2BN | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 73 | 122 | E | Slipway | 654136 292590 | NR33 | Moorings and Unloading Facilities | Water |
| 74 | 128 | S | Travelling Crane | 653608 292898 | NR32 | Travelling Cranes and Gantries | Industrial Features |
| 75 | 132 | S | Electricity Sub Station | 653780 292222 | NR33 | Electrical Features | Infrastructure and Facilities |
| 76 | 137 | S | Works | 654232 292287 | NR33 | Unspecified Works Or Factories | Industrial Features |
| 77M | 142 | N | Anglia Diesel Injection Service Ltd | 653914 293221 | Montana Place, Rotterdam Road, Lowestoft, NR32 2EX | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 78L | 144 | N | Electricity Sub Station | 653976 293212 | NR32 | Electrical Features | Infrastructure and Facilities |
| 79 | 146 | SE | Grain Silo | 654136 292795 | NR32 | Hoppers and Silos | Farming |
| 80L | 156 | N | D K Fibreglass Works | 653948 293231 | Montana Place, Rotterdam Road, Lowestoft, NR32 2EX | Glass Fibre Services | Industrial Products |
| 81L | 156 | N | A1 Ironworks Ltd | 653948 293231 | Unit 2 Montana Place, Rotterdam Road, Lowestoft, NR32 2EX | Metalworkers Including Blacksmiths | Construction Services |
| 82L | 156 | N | T & R Motorcycles | 653948 293231 | Norwich Road Industrial Estate, Lowestoft, NR32 2BN | New Vehicles | Motoring |
| 83 | 158 | NE | Wharf | 654419 292652 | NR33 | Moorings and Unloading Facilities | Water |
| 84M | 159 | N | Electricity Sub Station | 653931 293237 | NR32 | Electrical Features | Infrastructure and Facilities |
| 85 | 161 | E | Electricity Sub Station | 654197 292987 | NR32 | Electrical Features | Infrastructure and Facilities |
| 86 | 166 | S | Tank | 654239 292259 | NR33 | Tanks (Generic) | Industrial Features |
| 87 | 169 | E | Works | 654549 292439 | NR33 | Unspecified Works Or Factories | Industrial Features |
| 88 | 173 | NE | Norwich Road Garage | 654051 293194 | 91, Norwich Road Industrial Estate, Lowestoft, NR32 2BN | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 89N | 188 | SE | A C N Offshore | 654178 292777 | North Quay, Commercial Road, Lowestoft, NR32 2TE | Special Purpose Machinery and Equipment | Industrial Products |
| 90N | 188 | SE | O G N Group | 654178 292777 | North Quay, Commercial Road, Lowestoft, NR32 2TE | Structural Engineers | Engineering Services |

| ID | Distance (m) | Direction | Company | NGR | Address | Activity | Category |
|---|---|---|---|---|---|---|---|
| 91N | 188 | SE | Dudman Lowestoft | 654178 292777 | North Quay, Commercial Road, Lowestoft, NR32 2TE | Container and Storage | Transport, Storage and Delivery |
| 92N | 188 | SE | Associated British Ports | 654178 292777 | North Quay, Commercial Road, Lowestoft, NR32 2TE | Moorings and Unloading Facilities | Water |
| 93 | 189 | SE | Dingles Motor Group Ltd | 654545 292374 | London Road South, Lowestoft, NR33 0AS | New Vehicles | Motoring |
| 94N | 191 | SE | Silo | 654185 292781 | NR32 | Hoppers and Silos | Farming |
| 95 | 194 | N | Electricity Sub Station | 653655 293334 | NR32 | Electrical Features | Infrastructure and Facilities |
| 96O | 194 | SE | Works | 654206 292215 | NR33 | Unspecified Works Or Factories | Industrial Features |
| 97N | 196 | SE | Silo | 654184 292772 | NR32 | Hoppers and Silos | Farming |
| 98 | 196 | NW | Inner Harbour | 654249 292691 | NR32 | Moorings and Unloading Facilities | Water |
| 99 | 197 | S | Works | 654335 292229 | NR33 | Unspecified Works Or Factories | Industrial Features |
| 100 | 197 | E | Works | 654581 292475 | NR33 | Unspecified Works Or Factories | Industrial Features |
| 101Q | 198 | SE | Electricity Sub Station | 654528 292318 | NR33 | Electrical Features | Infrastructure and Facilities |
| 102N | 199 | SE | Silo | 654194 292779 | NR32 | Hoppers and Silos | Farming |
| 103N | 202 | SE | Silo | 654191 292771 | NR32 | Hoppers and Silos | Farming |
| 104N | 205 | SE | Silo | 654201 292778 | NR32 | Hoppers and Silos | Farming |
| 105N | 210 | SE | Silo | 654200 292770 | NR32 | Hoppers and Silos | Farming |
| 106 | 212 | W | Works | 653417 292495 | NR33 | Unspecified Works Or Factories | Industrial Features |
| 107 | 213 | W | Works | 653427 292558 | NR33 | Unspecified Works Or Factories | Industrial Features |
| 108O | 216 | S | Electricity Sub Station | 654234 292206 | NR33 | Electrical Features | Infrastructure and Facilities |
| 109 | 216 | N | EU Linco | 653614 293369 | Unit 5 Leyland Court, Barnard's Way, Lowestoft, NR32 2EP | Vehicle Parts and Accessories | Motoring |
| 110 | 222 | SW | North Quay | 653186 293020 | NR32 | Moorings and Unloading Facilities | Water |
| 111 | 223 | N | Electricity Sub Station | 653773 293317 | NR32 | Electrical Features | Infrastructure and Facilities |
| 112 | 223 | NW | Quay | 653465 292786 | NR33 | Moorings and Unloading Facilities | Water |
| 113 | 230 | N | Central Motors | 653973 293302 | Volta Terrace, Norwich Road, Lowestoft, NR32 2HN | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 114 | 231 | SE | East Coast Second Hand | 654477 292224 | 147, London Road South, Lowestoft, NR33 0DP | Clearance and Salvage Dealers | Recycling Services |
| 115 | 235 | SE | Silo Quay | 654212 292745 | NR32 | Moorings and Unloading Facilities | Water |

| ID | Distance (m) | Direction | Company | NGR | Address | Activity | Category |
|---|---|---|---|---|---|---|---|
| 116 | 237 | N | Electricity Sub Station | 654348 292753 | NR32 | Electrical Features | Infrastructure and Facilities |
| 117 | 245 | NE | Electricity Sub Station | 654118 293228 | NR32 | Electrical Features | Infrastructure and Facilities |
| 118 | 246 | NE | Admiralty Wharf | 654532 292674 | NR33 | Moorings and Unloading Facilities | Water |
| 119 | 247 | N | Electricity Sub Station | 653388 293432 | NR32 | Electrical Features | Infrastructure and Facilities |
| 120 | 248 | W | Tank | 653144 293059 | NR32 | Tanks (Generic) | Industrial Features |
| 121 | 248 | NE | Inkies | 654196 293139 | 26, Selby Street, Lowestoft, NR32 2BG | Plate Makers, Print Finishers and Type Setters | IT, Advertising, Marketing and Media Services |

## 4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 3

The following petrol or fuel site records provided by Catalist are represented as points on the Current Land Use map:

| ID | Distance (m) | Direction | NGR | Company | Address | LPG | Status |
|---|---|---|---|---|---|---|---|
| 122P | 0 | On Site | 654254 292470 | Asda | Asda Lowestoft Automat, Horn Hill, Horn Hill, Belvedere Road, Lowestoft, Suffolk, NR33 0PX | No | Open |
| 123 | 4 | S | 654347 292421 | BP | Mrh Mill Road, Mill Road, Mill Road, Lowestoft, Suffolk, NR33 0PP | No | Closed |
| 124Q | 235 | SE | 654556 292292 | Obsolete | Marine Service Station, Marine Parade, Marine Parade, London Road South, Lowestoft, Suffolk, NR33 0QN | Not Applicable | Obsolete |

## 4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site: 0

Database searched and no data found.

## 4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

# 5. Geology

## 5.1 Artificial Ground and Made Ground

The database has been searched on site, including a 50m buffer.

| Lex Code | Description | Rock Type |
|---|---|---|
| MGR-MGRD | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| MGR-MGRD | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| MGR-MGRD | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| WGR-OPEN | WORKED GROUND (UNDIVIDED) | VOID |

## 5.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

| Lex Code | Description | Rock Type |
|---|---|---|
| HPGL | HAPPISBURGH GLACIGENIC FORMATION | SAND [UNLITHIFIED DEPOSITS CODING SCHEME] |
| HPGL | HAPPISBURGH GLACIGENIC FORMATION | SAND [UNLITHIFIED DEPOSITS CODING SCHEME] |
| ALV | ALLUVIUM | CLAY, SILT, SAND AND GRAVEL [UNLITHIFIED DEPOSITS CODING SCHEME] |
| TRD | TIDAL RIVER OR CREEK DEPOSITS | CLAY AND SILT [UNLITHIFIED DEPOSITS CODING SCHEME] |
| ALV | ALLUVIUM | CLAY, SILT, SAND AND GRAVEL [UNLITHIFIED DEPOSITS CODING SCHEME] |
| HPGL | HAPPISBURGH GLACIGENIC FORMATION | SAND [UNLITHIFIED DEPOSITS CODING SCHEME] |

## 5.3 Bedrock and Solid Geology

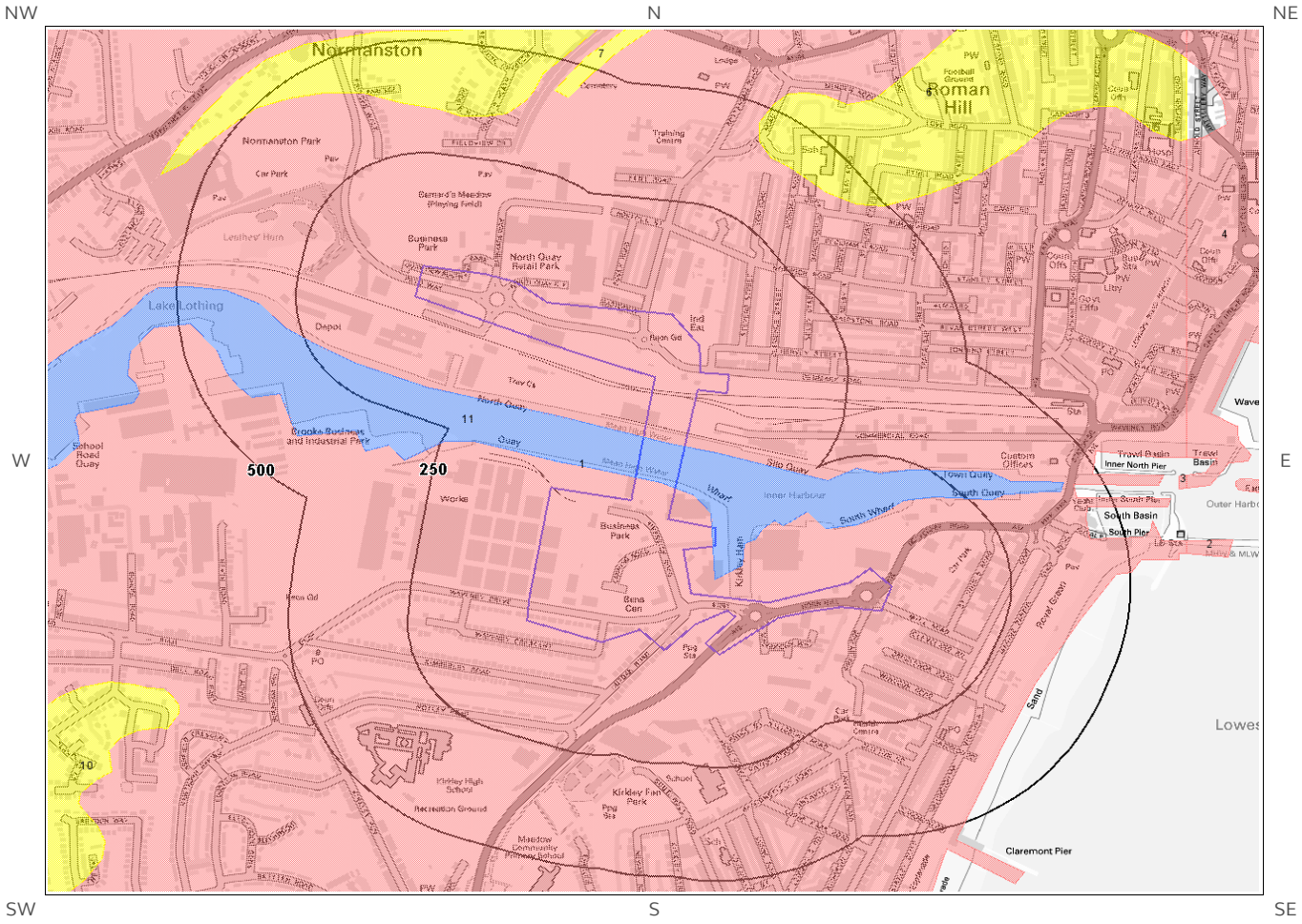
The database has been searched on site, including a 50m buffer.

| Lex Code | Description | Rock Type |
|---|---|---|
| CRAG-SANDU | CRAG GROUP | SAND |

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

# 6 Hydrogeology and Hydrology

## 6a. Aquifer Within Superficial Geology

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Site Outline

250
500
Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

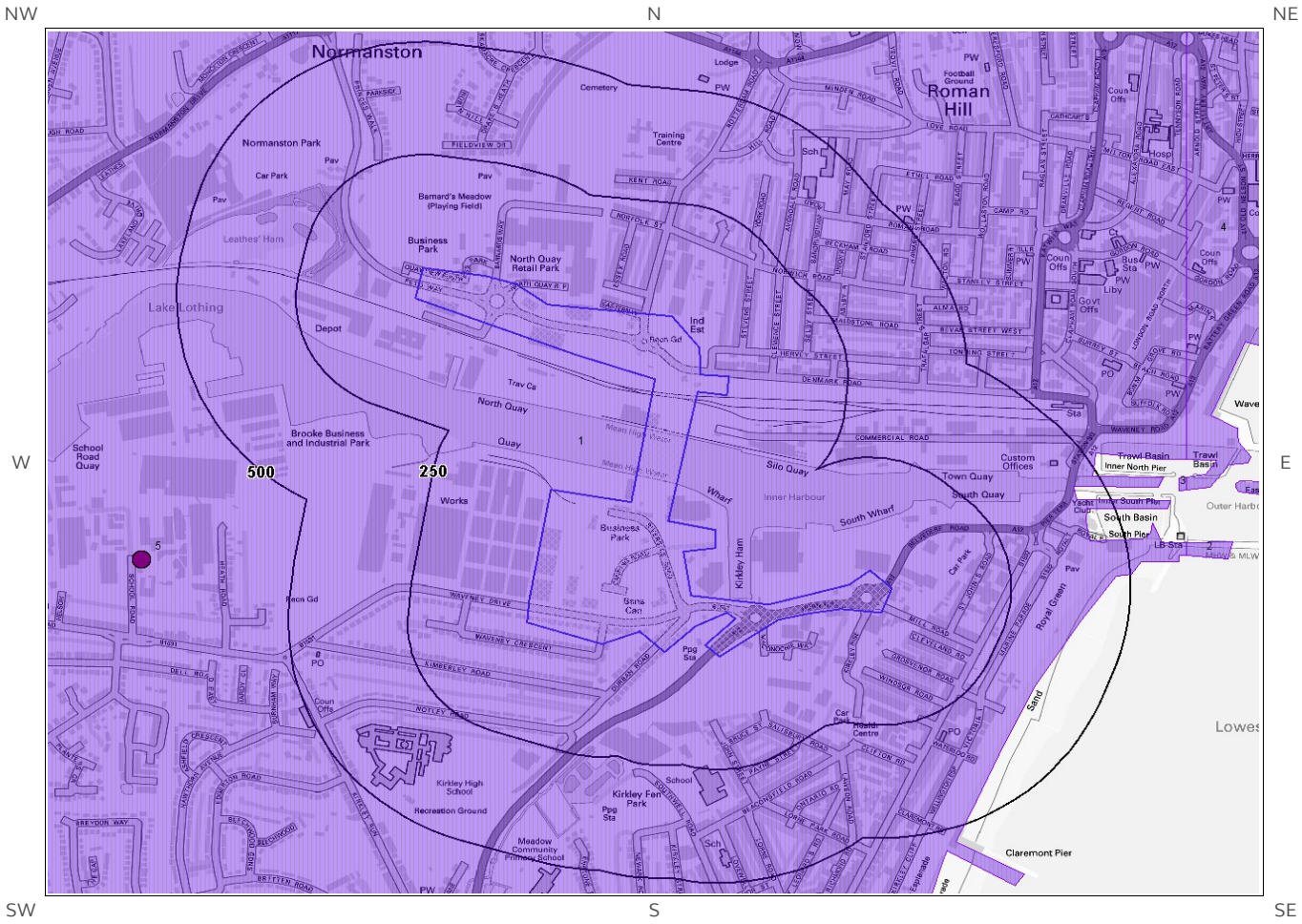
Secondary (B) Aquifer - Lower Permeability Layers

Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

# 6b. Aquifer Within Bedrock Geology and Abstraction Licenses

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Site Outline

250
500
Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

Secondary (B) Aquifer - Lower Permeability Layers

Groundwater Abstraction Licence

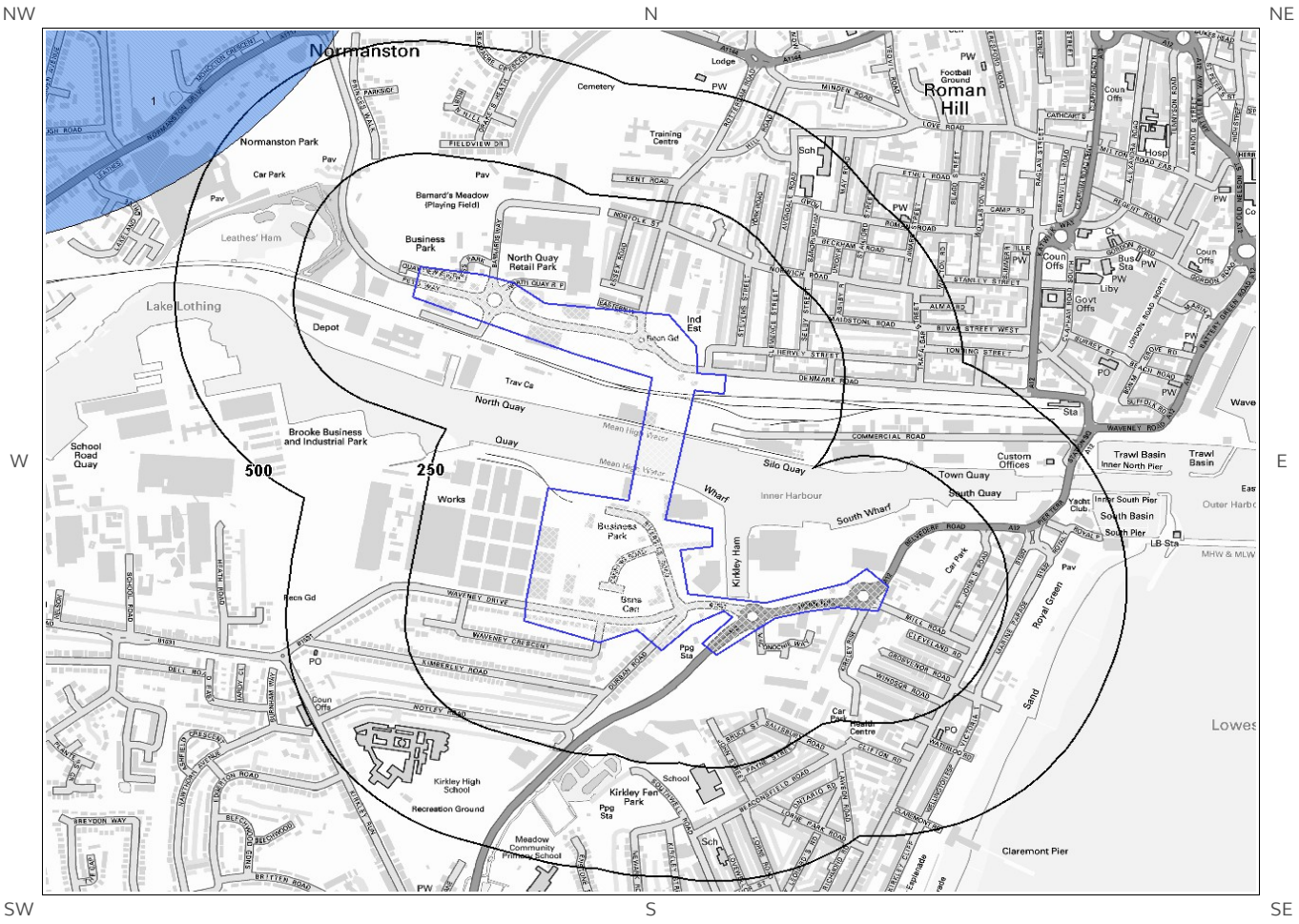
Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

Surface Water Abstraction Licence

# 6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses

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Site Outline

250
500
Search Buffers (m)

Source Protection Zone 1 - Inner Catchment

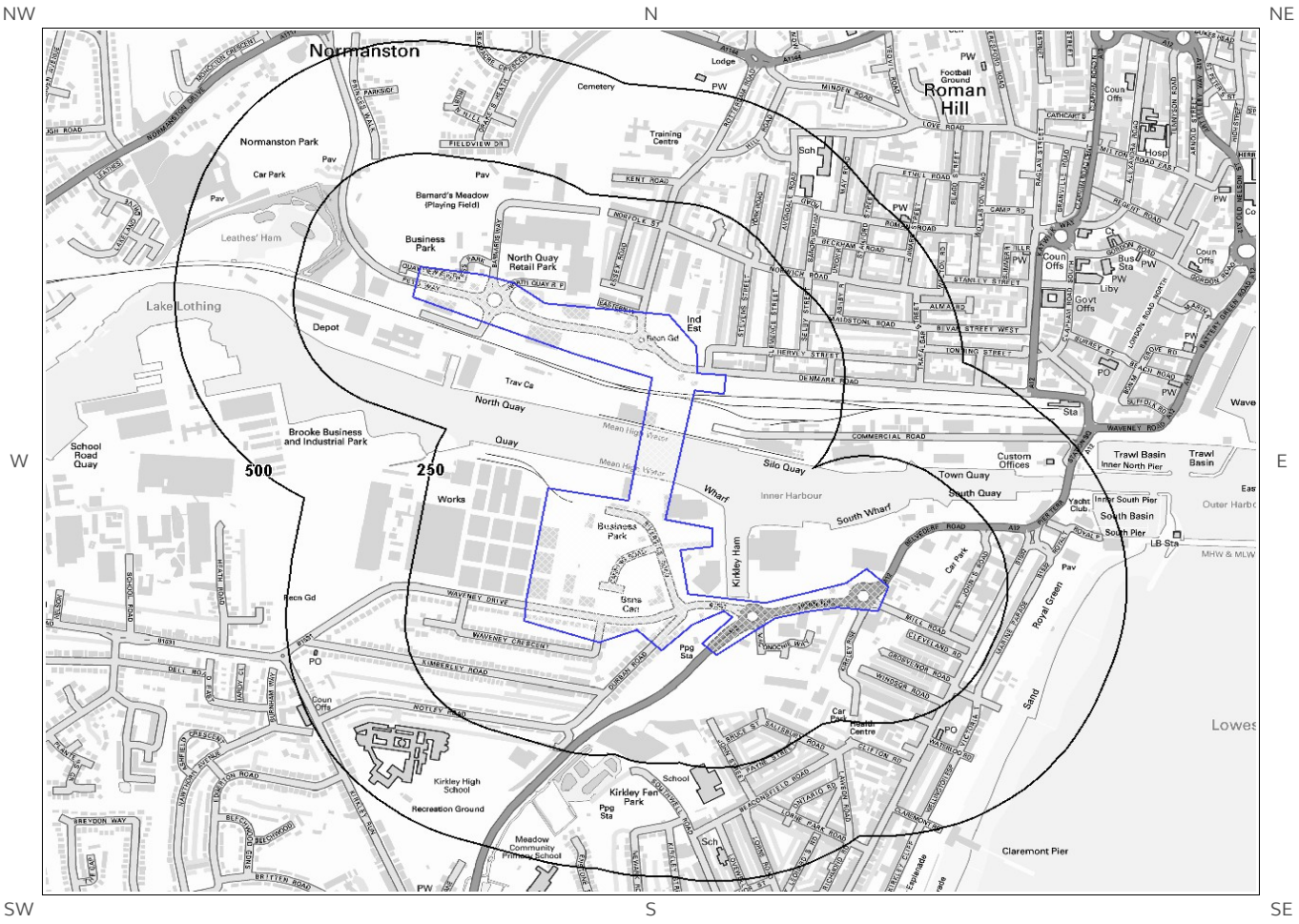
Source Protection Zone 2 - Outer Catchment

Source Protection Zone 3 - Total Catchment

Source Protection Zone 4 - Zone of Special Interest

Potable Water Abstraction Licence

# 6d. Hydrogeology – Source Protection Zones within confined aquifer

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Source Protection Zone 1 - Inner Catchment

Source Protection Zone 2C - Outer Catchment within Confined Aquifer

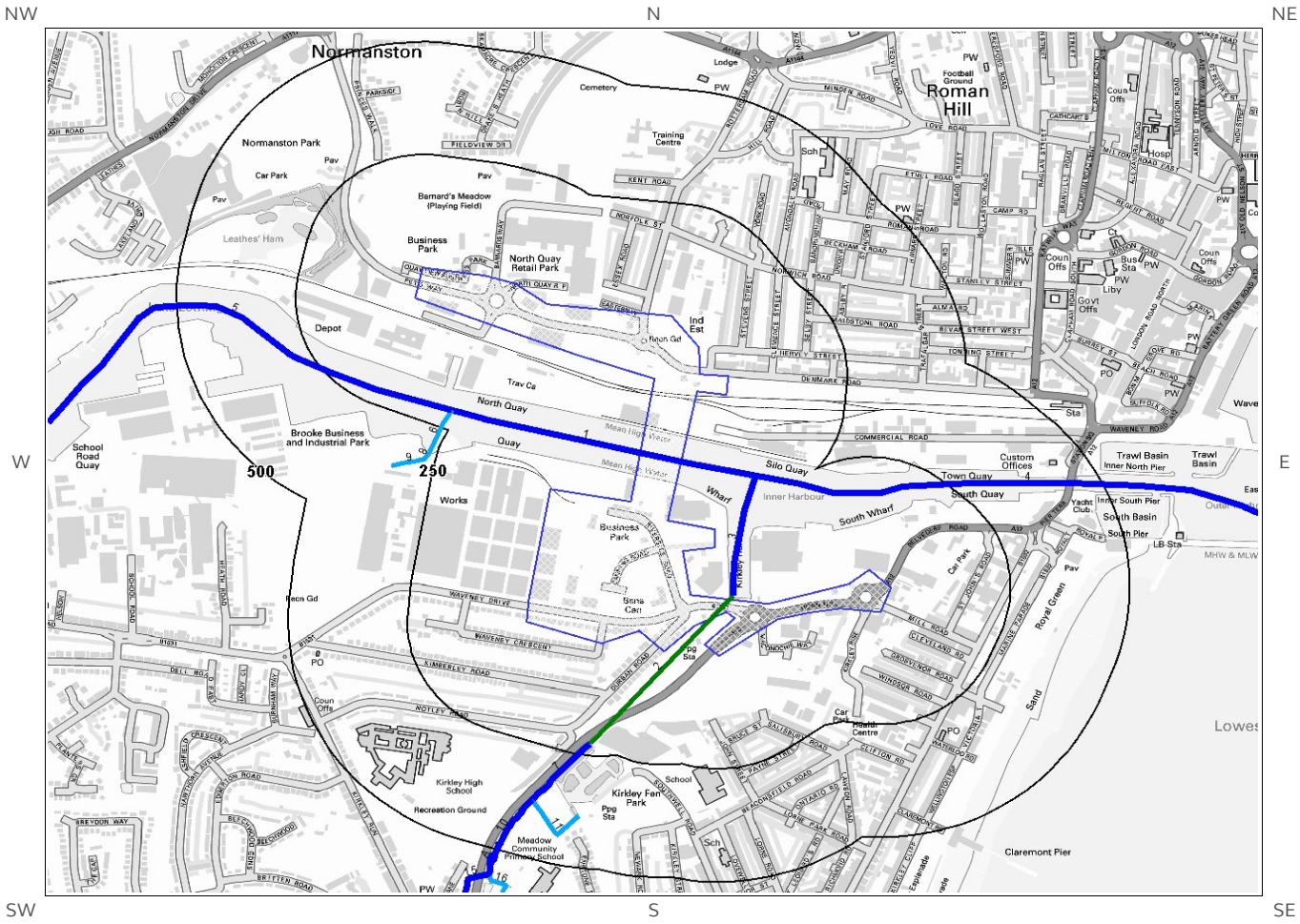
Source Protection Zone 3C - Total Catchment within Confined Aquifer

Potable Water Abstraction Licence

Site Outline

250
500
Search Buffers (m)

# 6e. Hydrology – Detailed River Network and River Quality

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Site Outline

250
500
Search Buffers (m)

Primary River
Secondary River
Tertiary River
Lake/Reservoir
Underground River (inferred)
General Quality Assessment: Biology
General Quality Assessment: Chemistry

Canal
Canal Tunnel
Culvert
Multiple Channel Culvert
Underground River (Potential Sewer)
Underground River (local knowledge)

# 6.Hydrogeology and Hydrology

## 6.1 Aquifer within Superficial Deposits

Are there records of strata classification within the superficial geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

| ID | Distance (m) | Direction | Designation | Description |
|---|---|---|---|---|
| 1 | 0 | On Site | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 11 | 0 | On Site | Unproductive | These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow |
| 6 | 340 | N | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 7 | 423 | N | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |

## 6.2 Aquifer within Bedrock Deposits

Are there records of strata classification within the bedrock geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

| ID | Distance (m) | Direction | Designation | Description |
|---|---|---|---|---|
| 1 | 0 | On Site | Principal | Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers |

## 6.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 2000m of the study site? Yes

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 5 | 815 | SW | 652810<br>292540 | Status: Historical<br>Licence No: 7/34/19/*G/0064<br>Details: General Use Relating To Secondary Category (Medium Loss)<br>Direct Source: Ground Water Source Of Supply Point: Well At School Rd Wks,lowest't<br>Data Type: Point<br>Name: SANYO INDUSTRIES (UK) LTD | Annual Volume ($m^3$): 35000<br>Max Daily Volume ($m^3$): 214<br>Original Application No: -<br>Original Start Date: 1/3/1967<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 1/6/1982<br>Version End Date: |
| Not shown | 1307 | NE | 655230<br>293490 | Status: Historical<br>Licence No: 7/34/19/*G/0124<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: Ground Water Source Of Supply Point: Well At Whapload Rd,lowestoft<br>Data Type: Point<br>Name: LOWESTOFT COLD STORE LTD | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date: 1/4/1984<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 1/4/1984<br>Version End Date: |
| Not shown | 1483 | NW | 652350<br>294230 | Status: Active<br>Licence No: 7/34/19/*G/0100<br>Details: Process Water<br>Direct Source: Ground Water Source Of Supply Point: Bore At Gorleston Rd,lowestoft<br>Data Type: Point<br>Name: NORBERT DENTRESSANGLE LOGISTICS UK LTD | Annual Volume ($m^3$): 227300<br>Max Daily Volume ($m^3$): 2500<br>Original Application No: NPS/WR/016033<br>Original Start Date: 20/5/1969<br>Expiry Date: -<br>Issue No: 104<br>Version Start Date: 22/10/2014<br>Version End Date: |
| Not shown | 1511 | NW | 652350<br>294270 | Status: Historical<br>Licence No: 7/34/19/*G/0100<br>Details: Process water<br>Direct Source: Ground Water Source Of Supply Point: Bore At Gorleston Rd,lowestoft<br>Data Type: Point<br>Name: CHRISTIAN SALVESEN | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: ES2176<br>Original Start Date: 1/5/1969<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 27/10/1999<br>Version End Date: |

## 6.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

## 6.5 Potable Water Abstraction Licences

Are there any Potable Water Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

## 6.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site? Yes

The following Source Protection Zones records are represented on the SPZ and Potable Water Abstraction Map (6c):

| ID | Distance (m) | Direction | Zone | Description |
|---|---|---|---|---|
| 1 | 467 | NW | 3 | Total catchment |

## 6.7 Source Protection Zones within Confined Aquifer

Are there any Source Protection Zones within the Confined Aquifer within 500m of the study site? No

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

## 6.8 Groundwater Vulnerability and Soil Leaching Potential

Is there any Environment Agency information on groundwater vulnerability and soil leaching potential within 500m of the study site? Yes

| Distance (m) | Direction | Classification | Soil Vulnerability Category | Description |
|---|---|---|---|---|
| 0 | On Site | Major Aquifer/High Leaching Potential | HU | Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information. |

## 6.9 River Quality

Is there any Environment Agency information on river quality within 1500m of the study site? No

### 6.9.1 Biological Quality:

Database searched and no data found.

Database searched and no data found.

## 6.10 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site? Yes

The following Detailed River Network records are represented on the Hydrology Map (6e):

| ID | Distance (m) | Direction | Details | |
|---|---|---|---|---|
| 1 | 0 | On Site | River Name: -<br>Welsh River Name: -<br>Alternative Name: - | River Type: Primary River<br>Main River Status: Currently Undefined |
| 2 | 0 | On Site | River Name: -<br>Welsh River Name: -<br>Alternative Name: - | River Type: Culvert<br>Main River Status: Currently Undefined |
| 3 | 8 | N | River Name: -<br>Welsh River Name: -<br>Alternative Name: - | River Type: Primary River<br>Main River Status: Currently Undefined |
| 4 | 146 | NE | River Name: -<br>Welsh River Name: -<br>Alternative Name: - | River Type: Primary River<br>Main River Status: Currently Undefined |
| 5 | 206 | S | River Name: -<br>Welsh River Name: -<br>Alternative Name: - | River Type: Primary River<br>Main River Status: Currently Undefined |
| 6 | 206 | S | River Name: -<br>Welsh River Name: -<br>Alternative Name: - | River Type: Secondary River<br>Main River Status: Currently Undefined |
| 7 | 224 | S | River Name: -<br>Welsh River Name: -<br>Alternative Name: - | River Type: Primary River<br>Main River Status: Currently Undefined |
| 8 | 267 | W | River Name: -<br>Welsh River Name: -<br>Alternative Name: - | River Type: Secondary River<br>Main River Status: Currently Undefined |
| 9 | 268 | W | River Name: Drain<br>Welsh River Name: -<br>Alternative Name: - | River Type: Secondary River<br>Main River Status: Currently Undefined |
| 10 | 373 | S | River Name: -<br>Welsh River Name: -<br>Alternative Name: - | River Type: Primary River<br>Main River Status: Currently Undefined |
| 11 | 373 | S | River Name: Drain<br>Welsh River Name: -<br>Alternative Name: - | River Type: Secondary River<br>Main River Status: Currently Undefined |

## 6.11 Surface Water Features

Are there any surface water features within 250m of the study site? Yes

The following surface water records are not represented on mapping:

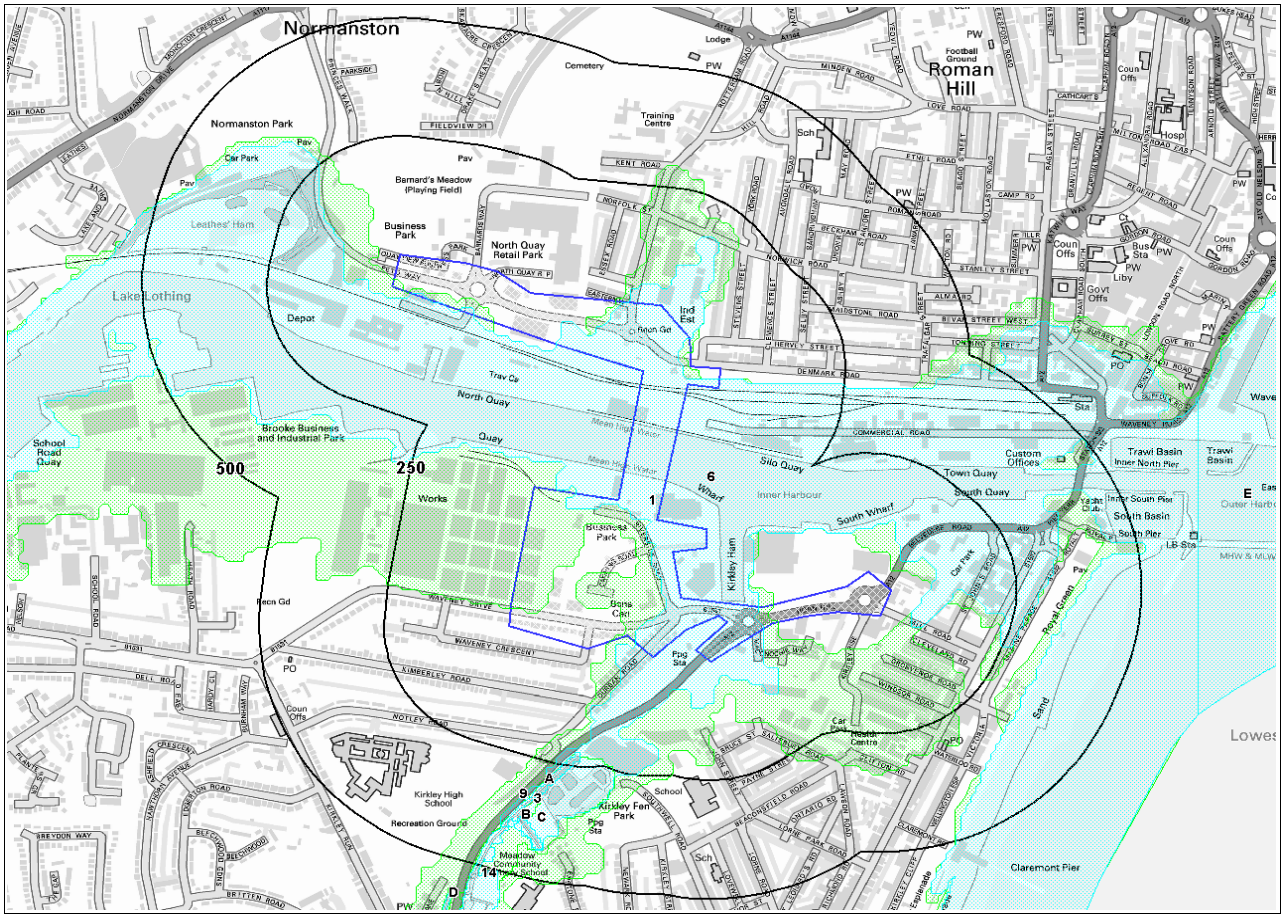
| Distance (m) | Direction |
|---|---|
| 0 | On Site |
| 176 | W |
| 192 | W |
| 195 | W |
| 199 | NW |
| 224 | S |
| 235 | W |

# 7a. Environment Agency Flood Map for Planning (from rivers and the sea)

NW N NE

W E

SW S SE

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Site Outline

100 / 250 Search Buffers (m)

Zone 2 Floodplain

Zone 3 Floodplain

Flood Defences

Area used for Flood Storage

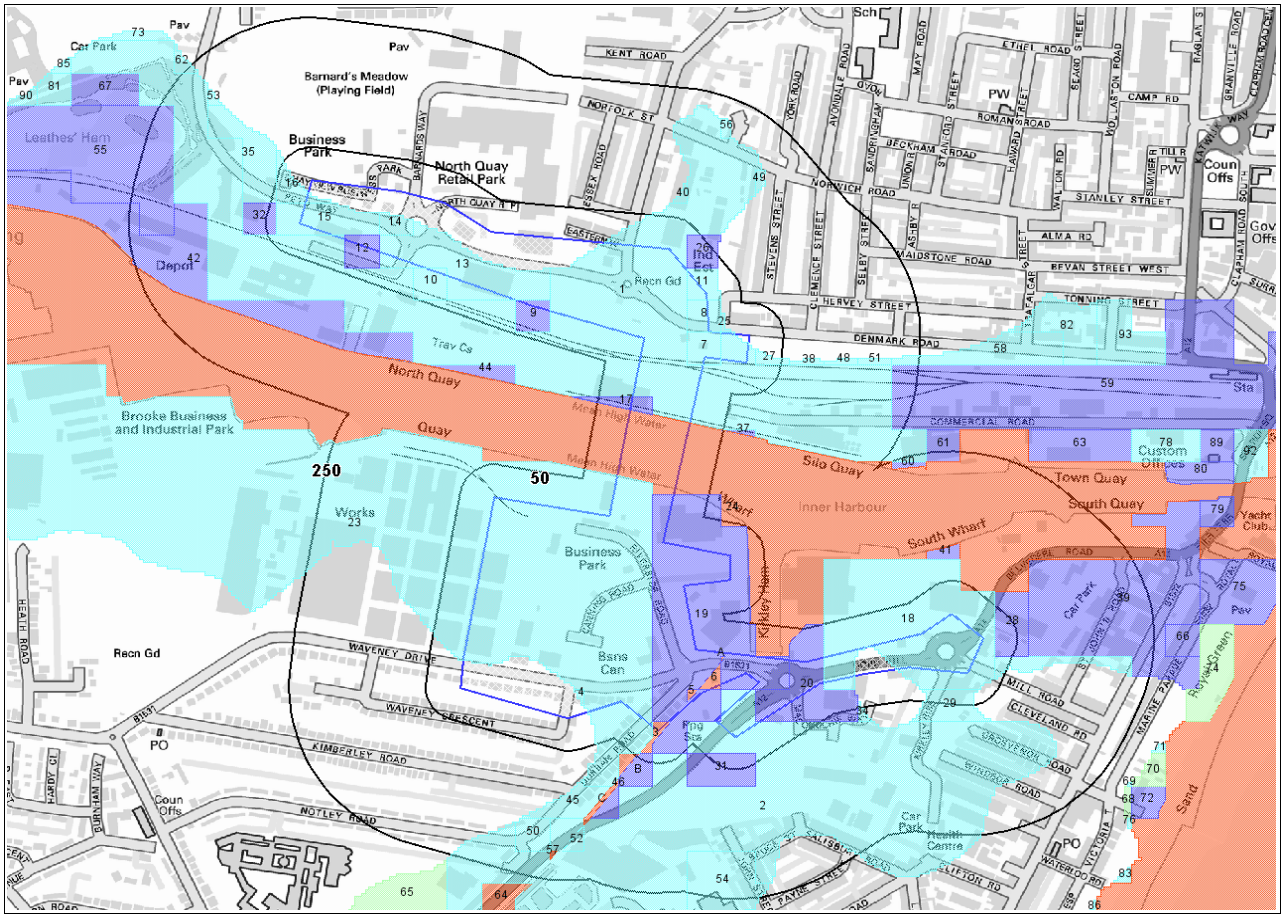
Area Benefiting from Flood Defences

# 7b. Environment Agency Risk of Flooding from Rivers and the Sea (RoFRaS) Map

NW N NE

W E

SW S SE

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Site Outline

100 250 Search Buffers (m)

RoFRaS Rating

- Very Low
- Low
- Medium
- High

# 7 Flooding

## 7.1 River and Coastal Zone 2 Flooding

Is the site within 250m of an Environment Agency Zone 2 floodplain? Yes

Environment Agency Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

| ID | Distance (m) | Direction | Update | Type |
|---|---|---|---|---|
| 1 | 0 | On Site | 08-Feb-2016 | Zone 2 - (Fluvial /Tidal Models) |
| 2C | 219 | S | 08-Feb-2016 | Zone 2 - (Fluvial /Tidal Models) |

## 7.2 River and Coastal Zone 3 Flooding

Is the site within 250m of an Environment Agency Zone 3 floodplain? Yes

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

| ID | Distance (m) | Direction | Update | Type |
|---|---|---|---|---|
| 1 | 0 | On Site | 23-Feb-2016 | Zone 3 - (Fluvial Models) |
| 2C | 219 | S | 23-Feb-2016 | Zone 3 - (Fluvial Models) |

## 7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

What is the highest risk of flooding onsite? High

The Environment Agency RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a High (1 in 30 or greater) chance of flooding in any given year.

Any relevant data within 250m is represented on the RoFRaS Flood map. Data to 50m is reported in the table below.

| ID | Distance (m) | Direction | RoFRas flood Risk |
|---|---|---|---|
| 1 | 0.0 | On Site | Low |
| 2 | 0.0 | On Site | Low |
| 3 | 0.0 | On Site | High |
| 4 | 0.0 | On Site | Low |
| 5 | 0.0 | On Site | High |
| 6 | 0.0 | On Site | High |
| 7 | 0.0 | On Site | Low |
| 8 | 0.0 | On Site | Low |
| 9 | 0.0 | On Site | Medium |
| 10 | 0.0 | On Site | Low |
| 11 | 0.0 | On Site | Low |
| 12 | 0.0 | On Site | Medium |
| 13 | 0.0 | On Site | Low |
| 14 | 0.0 | On Site | Low |
| 15 | 0.0 | On Site | Low |
| 16 | 0.0 | On Site | Low |
| 17 | 0.0 | On Site | Medium |
| 18 | 0.0 | On Site | Low |
| 19 | 0.0 | On Site | Medium |
| 20 | 0.0 | On Site | Medium |
| 21A | 0.0 | On Site | High |
| 22A | 0.0 | On Site | High |
| 23 | 0.0 | On Site | Low |
| 24 | 0.0 | On Site | High |
| 25 | 1.0 | N | Low |
| 26 | 3.0 | NE | Medium |
| 27 | 10.0 | E | Low |
| 28 | 16.0 | E | Medium |
| 29 | 24.0 | S | Low |
| 30 | 25.0 | SE | Low |
| 31 | 26.0 | S | Medium |
| 32 | 35.0 | W | Medium |
| 33B | 36.0 | S | Medium |

| | | | |
|---|---|---|---|
| 34 | 39.0 | S | Low |
| 35 | 42.0 | W | Low |
| 36B | 45.0 | SW | High |
| 37 | 46.0 | E | Medium |

## 7.4 Flood Defences

Are there any Flood Defences within 250m of the study site? No

Database searched and no data found.

## 7.5 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site? No

## 7.6 Areas benefiting from Flood Storage

Are there any areas used for Flood Storage within 250m of the study site? No

## 7.7 Groundwater Flooding Susceptibility Areas

### 7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes

Does this relate to Clearwater Flooding or Superficial Deposits Flooding? Clearwater Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

### 7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?

Limited potential

Where limited potential for groundwater flooding to occur is indicated, this means that although given the geological conditions there may be a groundwater flooding hazard, unless other relevant information, e.g. records of previous flooding, suggests groundwater flooding has occurred before in this area, you need take no further action in relation to groundwater flooding hazard.

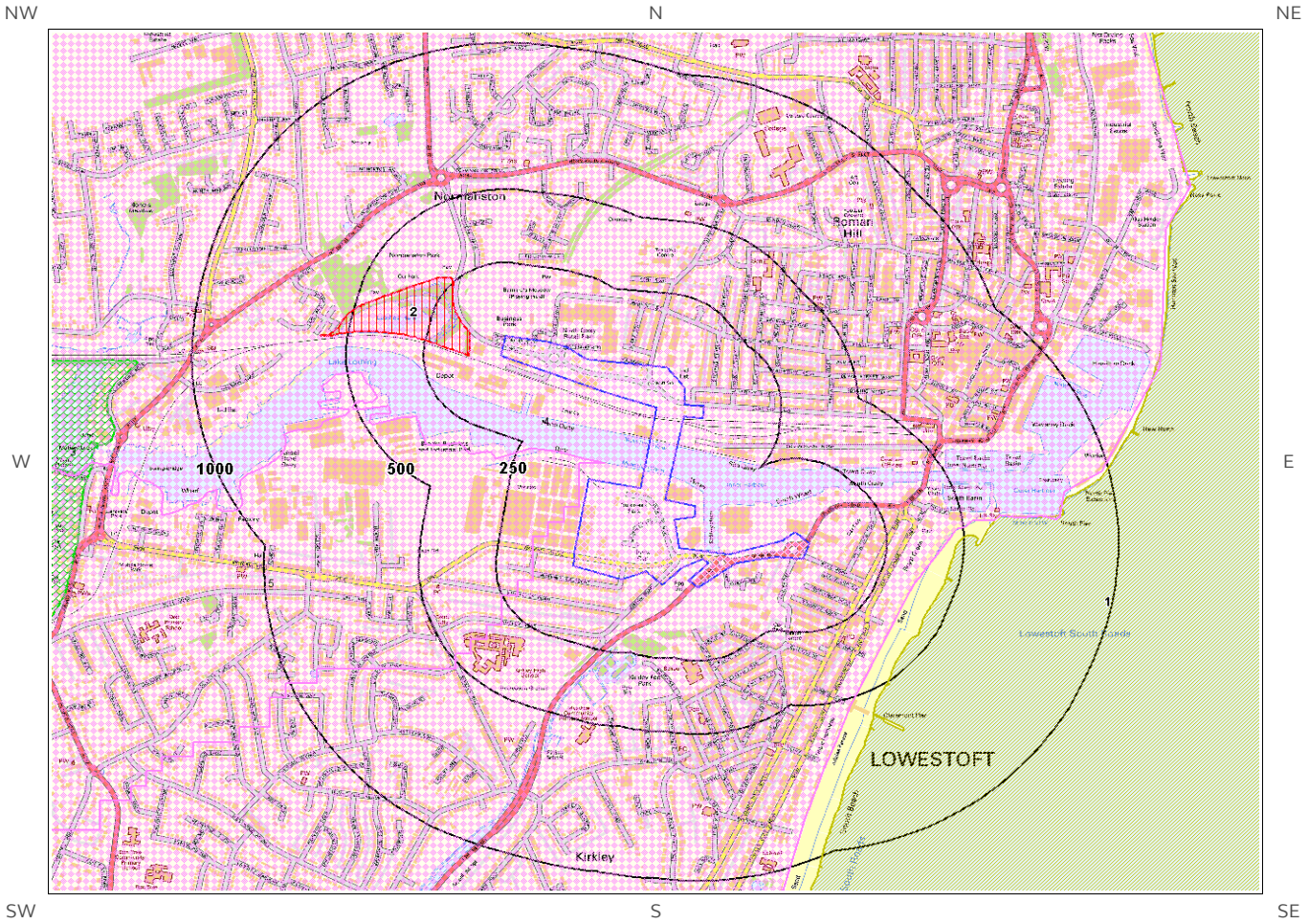
## 7.8 Groundwater Flooding Confidence Areas

What is the British Geological Survey confidence rating in this result? Low

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

# 8. Designated Environmentally Sensitive Sites Map

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Site Outline

100
250
Search Buffers (m)

AONB
National Park
SSSI
Special Protection Areas
Nitrate Vulnerable Zones

Green Belt
Environmentally Sensitive Areas
Special Areas of Conservation
World Heritage Sites
Nitrate Sensitive Areas

Ancient Woodland
National Nature Reserve
Local Nature Reserves
Ramsar Sites

# 8. Designated Environmentally Sensitive Sites

Presence of Designated Environmentally Sensitive Sites within 2000m of the study site? Yes

## 8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

0

Database searched and no data found.

## 8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

## 8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

## 8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

1

The following Special Protection Area (SPA) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | SPA Name | Data Source |
|---|---|---|---|---|
| 1 | 441 | SE | Outer Thames Estuary | Natural England |

## 8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

## 8.6 Records of Ancient Woodland within 2000m of the study site:

0

Database searched and no data found.

## 8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

1

The following Local Nature Reserve (LNR) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | LNR Name | Data Source |
|---|---|---|---|---|
| 2 | 103 | W | Leathes Ham | Natural England |

## 8.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

## 8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

1

The following Environmentally Sensitive Area records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | ESA Name | Data Source |
|---|---|---|---|---|
| Not shown | 1954 | SW | Broads | Natural England |

## 8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

0

Database searched and no data found.

## 8.11 Records of National Parks (NP) within 2000m of the study site:

1

The following National Park records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | NP Name | Data Source |
|---|---|---|---|---|
| 3 | 1176 | W | The Broads | Natural England |

## 8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

## 8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

2

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | NVZ Name | Data Source |
|---|---|---|---|---|
| 4 | 0 | On Site | Existing | DEFRA |
| 5 | 12 | W | Existing | DEFRA |

## 8.14 Records of Green Belt land within 2000m of the study site:

0

Database searched and no data found.

# 9. Natural Hazards Findings

## 9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a Groundsure Geo Insight, available from our website. The following information has been found:

### 9.1.1 Shrink Swell

What is the maximum Shrink-Swell*[*] hazard rating identified on the study site? Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present. |

### 9.1.2 Landslides

What is the maximum Landslide* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |

### 9.1.3 Soluble Rocks

What is the maximum Soluble Rocks* hazard rating identified on the study site? Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks. |

* This indicates an automatically generated 50m buffer and site.

### 9.1.4 Compressible Ground

What is the maximum Compressible Ground* hazard rating identified on the study site? Moderate

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build Ö consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property ×°ossible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly. |

### 9.1.5 Collapsible Rocks

What is the maximum Collapsible Rocks* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |

### 9.1.6 Running Sand

What is the maximum Running Sand*[*] hazard rating identified on the study site? Moderate

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Significant potential for running sand problems with relatively small changes in ground conditions. Avoid large amounts of water entering the ground (for example through pipe leakage or soak-aways). Do not dig (deep) holes into saturated ground near the property without technical advice. For new build Ö consider the consequences of soil and groundwater conditions during and after construction. For existing property Ö possible increase in insurance risk from running sand, for example, due to water leakage, high rainfall events or flooding. |

## 9.2 Radon

### 9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

* This indicates an automatically generated 50m buffer and site.

### 9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing
ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

# 10. Mining

## 10.1 Coal Mining

Are there any coal mining areas within 75m of the study site? No

Database searched and no data found.

## 10.2 Non-Coal Mining

Are there any Non-Coal Mining areas within 50m of the study site boundary? No

Database searched and no data found.

## 10.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site? No
Guidance: No Guidance Required.

# Contact Details

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Acknowledgements: Site of Special Scientific Interest, National Nature Reserve, Ramsar Site, Special Protection Area, Special Area of Conservation data is provided by, and used with the permission of, Natural England who retain the Copyright and Intellectual Property Rights for the data.
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## Standard Terms and Conditions

### 1 Definitions

I**n these terms and conditions unless the context otherwise requires:**

**"Beneficiary" means the person or entity for whose benefit the Client has obtained the Services.**

**"Client"** means the party or parties entering into a Contract with Groundsure.

**"Commercial"** means any building or property which is not Residential.

**"Confidential Information"** means the contents of this Contract and all information received from the Client as a result of, or in connection with, this Contract other than

(i) information which the Client can prove was rightfully in its possession prior to disclosure by Groundsure and

(ii) any information which is in the public domain (other than by virtue of a breach of this Contract).

**"Support Services"** means Support Services provided by Groundsure including, without limitation, interpreting third party and in-house environmental data, providing environmental support advice, undertaking environmental audits and assessments, Site investigation, Site monitoring and related items.

**"Contract"** means the contract between Groundsure and the Client for the provision of the Services, and which shall incorporate these terms and conditions, the Order, and the relevant User Guide.

**"Third Party Data Provider"** means any third party providing Third Party Content to Groundsure.

**"Data Reports"** means reports comprising factual data with no accompanying interpretation.

**"Fees"** has the meaning set out in clause 5.1.

**"Groundsure"** means Groundsure Limited, a company registered in England and Wales under number 03421028.

**"Groundsure Materials"** means all materials prepared by Groundsure and provided as part of the Services, including but not limited to Third Party Content, Data Reports, Mapping, and Risk Screening Reports.

**"Intellectual Property"** means any patent, copyright, design rights, trade or service mark, moral rights, data protection rights, know-how or trade mark in each case whether registered or not and including applications for the same or any other rights of a similar nature anywhere in the world.

**"Mapping"** means a map, map data or a combination of historical maps of various ages, time periods and scales.

**"Order"** means an electronic, written or other order form submitted by the Client requesting Services from Groundsure in respect of a specified Site.

**"Ordnance Survey"** means the Secretary of State for Business, Innovation and Skills, acting through Ordnance Survey, Adanac Drive, Southampton, SO16 0AS, UK.

**"Order Website"** means the online platform through which Orders may be placed by the Client and accepted by Groundsure.

**"Report"** means a Risk Screening Report or Data Report for Commercial or Residential property.

**"Residential"** means any building or property used as or intended to be used as a single dwelling.

**"Risk Screening Report"** means a risk screening report comprising factual data with an accompanying interpretation by Groundsure.

**"Services"** means any Report, Mapping and/or Support Services which Groundsure has agreed to provide by accepting an Order pursuant to clause 2.6.

**"Site"** means the area of land in respect of which the Client has requested Groundsure to provide the Services.

**"Third Party Content"** means data, database information or other information which is provided to Groundsure by a Third Party Data Provider.

"User Guide" means the user guide, as amended from time to time, available upon request from Groundsure and on the website (www.Groundsure.com) and forming part of this Contract.

### 2 Scope of Services, terms and conditions, requests for insurance and quotations

2.1 Groundsure agrees to provide the Services in accordance with the Contract.

2.2 Groundsure shall exercise reasonable skill and care in the provision of the Services.

2.3 Subject to clause 7.3 the Client acknowledges that it has not relied on any statement or representation made by or on behalf of Groundsure which is not set out and expressly agreed in writing in the Contract and all such statements and representations are hereby excluded to the fullest extent permitted by law.

2.4 The Client acknowledges that terms and conditions appearing on a Client's order form, printed stationery or other communication, or any terms or conditions implied by custom, practice or course of dealing shall be of no effect, and that this Contract shall prevail over all others in relation to the Order.

2.5 If the Client or Beneficiary requests insurance in conjunction with or as a result of the Services, Groundsure shall use reasonable endeavours to recommend such insurance, but makes no warranty that such insurance shall be available from insurers or that it will be offered on reasonable terms. Any insurance purchased by the Client or Beneficiary shall be subject solely to the terms of the policy issued by insurers and Groundsure will have no liability therefor. In addition you acknowledge and agree that Groundsure does not act as an agent or broker for any insurance providers. The Client should take (and ensure that the Beneficiary takes) independent advice to ensure that the insurance policy requested or offered is suitable for its requirements.

2.6 Groundsure's quotations or proposals are valid for a period of 30 days only unless an alternative period of time is explicitly stipulated by Groundsure. Groundsure reserves the right to withdraw any quotation or proposal at any time before an Order is accepted by Groundsure. Groundsure's acceptance of an Order shall be binding only when made in writing and signed by Groundsure's authorised representative or when accepted through the Order Website.

### 3 The Client's obligations

3.1The Client shall comply with the terms of this Contract and

(i) procure that the Beneficiary or any third party relying on the Services complies with and acts as if it is bound by the Contract and

(ii) be liable to Groundsure for the acts and omissions of the Beneficiary or any third party relying on the Services as if such acts and omissions were those of the Client.

3.2 The Client shall be solely responsible for ensuring that the Services are appropriate and suitable for its and/or the Beneficiary's needs.

3.3 The Client shall supply to Groundsure as soon as practicable and without charge all requisite information (and the Client warrants that such information is accurate, complete and appropriate), including without limitation any environmental information relating to the Site and shall give such assistance as Groundsure shall reasonably require in the provision of the Services including, without limitation, access to the Site, facilities and equipment.

3.4 Where the Client's approval or decision is required to enable Groundsure to carry out work in order to provide the Services, such approval or decision shall be given or procured in reasonable time and so as not to delay or disrupt the performance of the Services.

3.5 Save as expressly permitted by this Contract the Client shall not, and shall procure that the Beneficiary shall not, re-sell, alter, add to, or amend the Groundsure Materials, or use the Groundsure Materials in a manner for which they were not intended. The Client may make the Groundsure Materials available to a third party who is considering acquiring some or all of, or providing funding in relation to, the Site, but such third party cannot rely on the same unless expressly permitted under clause 4.

3.6 The Client is responsible for maintaining the confidentiality of its user name and password if using the Order Website and the Client acknowledges that Groundsure accepts no liability of any kind for any loss or damage suffered by the Client as a consequence of using the Order Website.

### 4 Reliance

4.1The Client acknowledges that the Services provided by Groundsure consist of the presentation and analysis of Third Party Content and other content and that information obtained from a Third Party Data Provider cannot be guaranteed or warranted by Groundsure to be reliable.

4.2 In respect of Data Reports, Mapping and Risk Screening Reports, the following classes of person and no other are entitled to rely on their contents;

(i) the Beneficiary,

(ii) the Beneficiary's professional advisers, (iii) any person providing funding to the Beneficiary in relation to the Site (whether directly or as part of a lending syndicate),

(iv) the first purchaser or first tenant of the Site, and

(v) the professional advisers and lenders of the first purchaser or tenant of the Site.

4.3 In respect of Support Services, only the Client, Beneficiary and parties expressly named in a Report and no other parties are entitled to rely on its contents.

4.4 Save as set out in clauses 4.2 and 4.3 and unless otherwise expressly agreed in writing, no other person or entity of any kind is entitled to rely on any Services or Report issued or provided by Groundsure. Any party considering such Reports and Services does so at their own risk.

### 5 Fees and Disbursements

5.1Groundsure shall charge and the Client shall pay fees at the rate and

frequency specified in the written proposal, Order Website or Order acknowledgement form, plus (in the case of Support Services) all proper disbursements incurred by Groundsure. The Client shall in addition pay all value added tax or other tax payable on such fees and disbursements in relation to the provision of the Services (together "Fees").

5.2 The Client shall pay all outstanding Fees to Groundsure in full without deduction, counterclaim or set off within 30 days of the date of Groundsure's invoice or such other period as may be agreed in writing between Groundsure and the Client ("Payment Date"). Interest on late payments will accrue on a daily basis from the Payment Date until the date of payment (whether before or after judgment) at the rate of 8% per annum.

5.3 The Client shall be deemed to have agreed the amount of any invoice unless an objection is made in writing within 28 days of the date of the invoice. As soon as reasonably practicable after being notified of an objection, without prejudice to clause 5.2 a member of Groundsure's management team will contact the Client and the parties shall then use all reasonable endeavours to resolve the dispute within 15 days.

## 6 Intellectual Property and Confidentiality

6.1 Subject to

(i) full payment of all relevant Fees and

(ii) compliance with this Contract, the Client is granted (and is permitted to sub-licence to the Beneficiary) a royalty-free, worldwide, non-assignable and (save to the extent set out in this Contract) non-transferable licence to make use of the Groundsure Materials.

6.2 All Intellectual Property in the Groundsure Materials are and shall remain owned by Groundsure or Groundsure's licensors (including without limitation the Third Party Data Providers) the Client acknowledges, and shall procure acknowledgement by the Beneficiary of, such ownership. Nothing in this Contract purports to transfer or assign any rights to the Client or the Beneficiary in respect of such Intellectual Property.

6.3 Third Party Data Providers may enforce any breach of clauses 6.1 and 6.2 against the Client or Beneficiary.

6.4 The Client shall, and shall procure that any recipients of the Groundsure Materials shall:

(i) not remove, suppress or modify any trade mark, copyright or other proprietary marking belonging to Groundsure or any third party from the Services;

(ii) use the information obtained as part of the Services in respect of the subject Site only, and shall not store or reuse any information obtained as part of the Services provided in respect of adjacent or nearby sites;

(iii) not create any product or report which is derived directly or indirectly from the Services (save that those acting in a professional capacity to the Beneficiary may provide advice based upon the Services);

(iv) not combine the Services with or incorporate such Services into any other information data or service;

(v) not reformat or otherwise change (whether by modification, addition or enhancement), the Services (save that those acting for the Beneficiary in a professional capacity shall not be in breach of this clause 6.4(v) where such reformatting is in the normal course of providing advice based upon the Services);

(vi) where a Report and/or Mapping contains material belonging to Ordnance Survey, acknowledge and agree that such content is protected by Crown Copyright and shall not use such content for any purpose outside of receiving the Services; and

(vii) not copy in whole or in part by any means any map prints or run-on copies containing content belonging to Ordnance Survey (other than that contained within Ordnance Survey's OS Street Map) without first being in possession of a valid Paper Map Copying Licence from Ordnance Survey,

6.5 Notwithstanding clause 6.4, the Client may make reasonable use of the Groundsure Materials in order to advise the Beneficiary in a professional capacity. However, Groundsure shall have no liability in respect of any advice, opinion or report given or provided to Beneficiaries by the Client.

6.6 The Client shall procure that any person to whom the Services are made available shall notify Groundsure of any request or requirement to disclose, publish or disseminate any information contained in the Services in accordance with the Freedom of Information Act 2000, the Environmental Information Regulations 2004 or any associated legislation or regulations in force from time to time.

## 7.Liability: Particular Attention Should Be Paid To This Clause

7.1 This Clause 7 sets out the entire liability of Groundsure, including any liability for the acts or omissions of its employees, agents, consultants, subcontractors and Third Party Content, in respect of:

(i) any breach of contract, including any deliberate breach of the Contract by Groundsure or its employees, agents or subcontractors;

(ii) any use made of the Reports, Services, Materials or any part of them; and

(iii) any representation, statement or tortious act or omission (including negligence) arising under or in connection with the Contract.

7.2 All warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.

7.3 Nothing in the Contract limits or excludes the liability of the Supplier for death or personal injury resulting from negligence, or for any damage or liability incurred by the Client or Beneficiary as a result of fraud or fraudulent misrepresentation.

7.4 Groundsure shall not be liable for

(i) loss of profits;

(ii) loss of business;

(iii) depletion of goodwill and/or similar losses;

(iv) loss of anticipated savings;

(v) loss of goods;

(vi) loss of contract;

(vii) loss of use;

(viii) loss or corruption of data or information;

(ix) business interruption;

(x) any kind of special, indirect, consequential or pure economic loss, costs, damages, charges or expenses;

(xi) loss or damage that arise as a result of the use of all or part of the Groundsure Materials in breach of the Contract;

(xii) loss or damage arising as a result of any error, omission or inaccuracy in any part of the Groundsure Materials where such error, omission or inaccuracy is caused by any Third Party Content or any reasonable interpretation of Third Party Content;

(xiii) loss or damage to a computer, software, modem, telephone or other property; and

(xiv) loss or damage caused by a delay or loss of use of Groundsure's internet ordering service.

7.5 Groundsure's total liability in relation to or under the Contract shall be limited to £10 million for any claim or claims.

7.6 Groundsure shall procure that the Beneficiary shall be bound by limitations and exclusions of liability in favour of Groundsure which accord with those detailed in clauses 7.4 and 7.5 (subject to clause 7.3) in respect of all claims which the Beneficiary may bring against Groundsure in relation to the Services or other matters arising pursuant to the Contract.

## 8 Groundsure's right to suspend or terminate

8.1 If Groundsure reasonably believes that the Client or Beneficiary has not provided the information or assistance required to enable the proper provision of the Services, Groundsure shall be entitled to suspend all further performance of the Services until such time as any such deficiency has been made good.

8.2 Groundsure shall be entitled to terminate the Contract immediately on written notice in the event that:

(i) the Client fails to pay any sum due to Groundsure within 30 days of the Payment Date; or

(ii) the Client (being an individual) has a bankruptcy order made against him or (being a company) shall enter into liquidation whether compulsory or voluntary or have an administration order made against it or if a receiver shall be appointed over the whole or any part of its property assets or undertaking or if the Client is struck off the Register of Companies or dissolved; or

(iii) the Client being a company is unable to pay its debts within the meaning of Section 123 of the Insolvency Act 1986 or being an individual appears unable to pay his debts within the meaning of Section 268 of the Insolvency Act 1986 or if the Client shall enter into a composition or arrangement with the Client's creditors or shall suffer distress or execution to be levied on his goods; or

(iv) the Client or the Beneficiary breaches any term of the Contract (including, but not limited to, the obligations in clause 4) which is incapable of remedy or if remediable, is not remedied within five days of notice of the breach.

## 9. Client's Right to Terminate and Suspend

9.1 Subject to clause 10.1, the Client may at any time upon written notice terminate or suspend the provision of all or any of the Services.

9.2 In any event, where the Client is a consumer (and not a business) he/she hereby expressly acknowledges and agrees that:

(i) the supply of Services under this Contract (and therefore the performance of this Contract) commences immediately upon Groundsure's acceptance of the Order; and

(ii) the Reports and/or Mapping provided under this Contract are

(a) supplied to the Client's specification(s) and in any event

(b) by their nature cannot be returned.

## 10 Consequences of Withdrawal, Termination or Suspension

10.1 Upon termination of the Contract:

(i) Groundsure shall take steps to bring to an end the Services in an orderly manner, vacate any Site with all reasonable speed and shall deliver to the Client and/or Beneficiary any property of the Client and/or Beneficiary in Groundsure's possession or control; and

(ii) the Client shall pay to Groundsure all and any Fees payable in respect of the performance of the Services up to the date of termination or suspension. In respect of any Support Services provided, the Client shall also pay Groundsure any additional costs incurred in relation to the termination or suspension of the Contract.

## 11 Anti-Bribery

11.1 The Client warrants that it shall:

(i) comply with all applicable laws, statutes and regulations relating to anti-bribery and anti-corruption including but not limited to the Bribery Act 2010;

(ii) comply with such of Groundsure's anti-bribery and anti-corruption policies as are notified to the Client from time to time; and

(iii) promptly report to Groundsure any request or demand for any undue financial or other advantage of any kind received by or on behalf of the Client in connection with the performance of this Contract.

11.2 Breach of this Clause 11 shall be deemed a material breach of this Contract.

## 12 General

12.1 The Mapping contained in the Services is protected by Crown copyright and must not be used for any purpose other than as part of the Services or as specifically provided in the Contract.

12.2 The Client shall be permitted to make one copy only of each Report or Mapping Order. Thereafter the Client shall be entitled to make unlimited copies of the Report or Mapping Order only in accordance with an Ordnance Survey paper map copy license available through Groundsure.

12.3 Groundsure reserves the right to amend or vary this Contract. No amendment or variation to this Contract shall be valid unless signed by an authorised representative of Groundsure.

12.4 No failure on the part of Groundsure to exercise, and no delay in exercising, any right, power or provision under this Contract shall operate as a waiver thereof.

12.5 Save as expressly provided in this Contract, no person other than the persons set out therein shall have any right under the Contract (Rights of Third Parties) Act 1999 to enforce any terms of the Contract.

12.6 The Secretary of State for Business, Innovation and Skills ("BIS") or BIS' successor body, as the case may be, acting through Ordnance Survey may enforce a breach of clause 6.4(vi) and clause 6.4(vii) of these terms and conditions against the Client in accordance with the provisions of the Contracts (Rights of Third Parties) Act 1999.

12.7 Groundsure shall not be liable to the Client if the provision of the Services is delayed or prevented by one or more of the following circumstances:

(i) the Client or Beneficiary's failure to provide facilities, access or information;

(ii) fire, storm, flood, tempest or epidemic;

(iii) Acts of God or the public enemy;

(iv) riot, civil commotion or war;

(v) strikes, labour disputes or industrial action;

(vi) acts or regulations of any governmental or other agency;

(vii) suspension or delay of services at public registries by Third Party Data Providers;

(viii) changes in law; or

(ix) any other reason beyond Groundsure's reasonable control.

In the event that Groundsure is prevented from performing the Services (or any part thereof) in accordance with this clause 12.6 for a period of not less than 30 days then Groundsure shall be entitled to terminate this Contract immediately on written notice to the Client.

12.8 Any notice provided shall be in writing and shall be deemed to be properly given if delivered by hand or sent by first class post, facsimile or by email to the address, facsimile number or email address of the relevant party as may have been notified by each party to the other for such purpose or in the absence of such notification the last known address.

12.9 Such notice shall be deemed to have been received on the day of delivery if delivered by hand, facsimile or email (save to the extent such day is not a working day where it shall be deemed to have been delivered on the next working day) and on the second working day after the day of posting if sent by first class post.

12.10 The Contract constitutes the entire agreement between the parties and shall supersede all previous arrangements between the parties relating to the subject matter hereof.

12.11 Each of the provisions of the Contract is severable and distinct from the others and if one or more provisions is or should become invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions shall not in any way be tainted or impaired.

12.12 This Contract shall be governed by and construed in accordance with English law and any proceedings arising out of or connected with this Contract shall be subject to the exclusive jurisdiction of the English courts.

12.13 Groundsure is an executive member of the Council of Property Search Organisation (CoPSO) and has signed up to the Search Code administered by the Property Codes Compliance Board (PCCB). All Risk Screening Reports shall be supplied in accordance with the provisions of the Search Code.

12.14 If the Client or Beneficiary has a complaint about the Services, written notice should be given to the Compliance Officer at Groundsure who will respond in a timely manner. In the event you are not satisfied with Groundsure's complaints handling process or you are unable to resolve the complaint, at your discretion you may refer the complaint to The Property Ombudsman Scheme at the following URL/email: website www.tpos.co.uk or email: admin@tpos.co.uk

12.15 The Client agrees that it shall, and shall procure that each Beneficiary shall, treat in confidence all Confidential Information and shall not, and shall procure that each Beneficiary shall not (i) disclose any Confidential Information to any third party other than in accordance with the terms of this Contract; and (ii) use Confidential Information for a purpose other than the exercise of its rights and obligations under this Contract. Subject to clause 6.6, nothing shall prevent the Client or any Beneficiary from disclosing Confidential Information to the extent required by law. **© Groundsure Limited June 2013**

CENTREMAPS

Open Space, Upper Interfields,
Worcester, WR14 1UT

Report Reference: CMAPS-CM-535051-16287-070616GEO

Your Reference: 16287

Report Date 7 Jun 2016

Report Delivery Method: Email - pdf

## Groundsure Geo Insight

Address: Denmark Road Lowestoft,

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Geo Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 01886 832972 quoting the above CENTREMAPS reference number.

Yours faithfully,

CENTREMAPS

Enc.
Groundsure Geoinsight

# Groundsure Geo Insight

| | |
|---|---|
| **Address:** | **Denmark Road Lowestoft,** |
| **Date:** | **7 Jun 2016** |
| **Reference:** | **CMAPS-CM-535051-16287-070616GEO** |
| **Client:** | **CENTREMAPS** |

NW N NE

W E

SW S SE

| | |
|---|---|
| Aerial Photograph Capture date: | 10-Oct-2014 |
| Grid Reference: | 653884,292755 |
| Site Size: | 21.42ha |

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# Overview of Findings

The Groundsure Geo Insight provides high quality geo-environmental information that allows geo-environmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Shallow Mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and Groundsure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

| Section 1:Geology | | |
|---|---|---|
| 1.1 Artificial Ground | 1.1.1 Is there any Artificial Ground/ Made Ground present beneath the study site? | Yes |
| | 1.1.2 Are there any records relating to permeability of artificial ground within the study site* boundary? | Yes |
| 1.2 Superficial Geology and Landslips | 1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site? | Yes |
| | 1.2.2 Are there any records relating to permeability of superficial geology within the study site boundary? | Yes |
| | 1.2.3 Are there any records of landslip within 500m of the study site boundary? | No |
| | 1.2.4 Are there any records relating to permeability of landslips within the study site boundary? | No |
| 1.3 Bedrock, Solid Geology & Faults | 1.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section. | |
| | 1.3.2 Are there any records relating to permeability of bedrock within the study site boundary? | Yes |
| | 1.3.3 Are there any records of faults within 500m of the study site boundary? | No |
| 1.4 Radon data | 1.4.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? | The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level |
| | 1.4.2 Is the property in an area where Radon Protection Measures are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? | No radon protective measures are necessary |

| Section 2:Ground Workings | On-site | 0-50m | 51-250 | 251-500 | 501-1000 |
|---|---|---|---|---|---|
| 2.1 Historical Surface Ground Working Features from Small Scale Mapping | 11 | 14 | 50 | Not Searched | Not Searched |
| 2.2 Historical Underground Workings from Small Scale Mapping | 0 | 0 | 0 | 0 | 0 |
| 2.3 Current Ground Workings | 0 | 1 | 1 | 1 | 13 |

| Section 3: Mining, Extraction & Natural Cavities | On-site | 0-50m | 51-250 | 251-500 | 501-1000 |
|---|---|---|---|---|---|
| 3.1 Historical Mining | 0 | 0 | 0 | 0 | 0 |
| 3.2 Coal Mining | 0 | 0 | 0 | 0 | 0 |
| 3.3 Johnson Poole and Bloomer Mining Area | 0 | 0 | 0 | 0 | 0 |
| 3.4 Non-Coal Mining | 0 | 0 | 0 | 0 | 0 |
| 3.5 Non-Coal Mining Cavities | 0 | 0 | 0 | 0 | 0 |
| 3.6 Natural Cavities | 0 | 0 | 0 | 0 | 0 |
| 3.7 Brine Extraction | 0 | 0 | 0 | 0 | 0 |
| 3.8 Gypsum Extraction | 0 | 0 | 0 | 0 | 0 |
| 3.9 Tin Mining | 0 | 0 | 0 | 0 | 0 |
| 3.10 Clay Mining | 0 | 0 | 0 | 0 | 0 |

| Section 4: Natural Ground Subsidence | On-site |
|---|---|
| 4.1 Shrink Swell Clay | Low |
| 4.2 Landslides | Very Low |
| 4.3 Ground Dissolution of Soluble Rocks | Negligible |
| 4.4 Compressible Deposits | Moderate |
| 4.5 Collapsible Deposits | Very Low |
| 4.6 Running Sand | Moderate |

| Section 5: Borehole Records | On-site | 0-50m | 51-250 |
|---|---|---|---|
| 5 BGS Recorded Boreholes | 54 | 20 | 31 |

| Section 6: Estimated Background Soil Chemistry | On-site | 0-50m | 51-250 |
|---|---|---|---|
| 6 Records of Background Soil Chemistry | 19 | 9 | 20 |

| Section 7: Railways and Tunnels | On-site | 0-50m | 51-250 | 251-500 |
|---|---|---|---|---|
| 7.1 Tunnels | 0 | 0 | 0 | Not Searched |
| 7.2 Historical Railway and Tunnel Features | 82 | 22 | 45 | Not Searched |
| 7.3 Historical Railways | 1 | 0 | 0 | Not Searched |
| 7.4 Active Railways | 4 | 3 | 0 | Not Searched |

| Section 7:Railways and Tunnels | On-site | 0-50m | 51-250 | 251-500 |
|---|---|---|---|---|
| 7.5 Railway Projects | 0 | 0 | 0 | 0 |

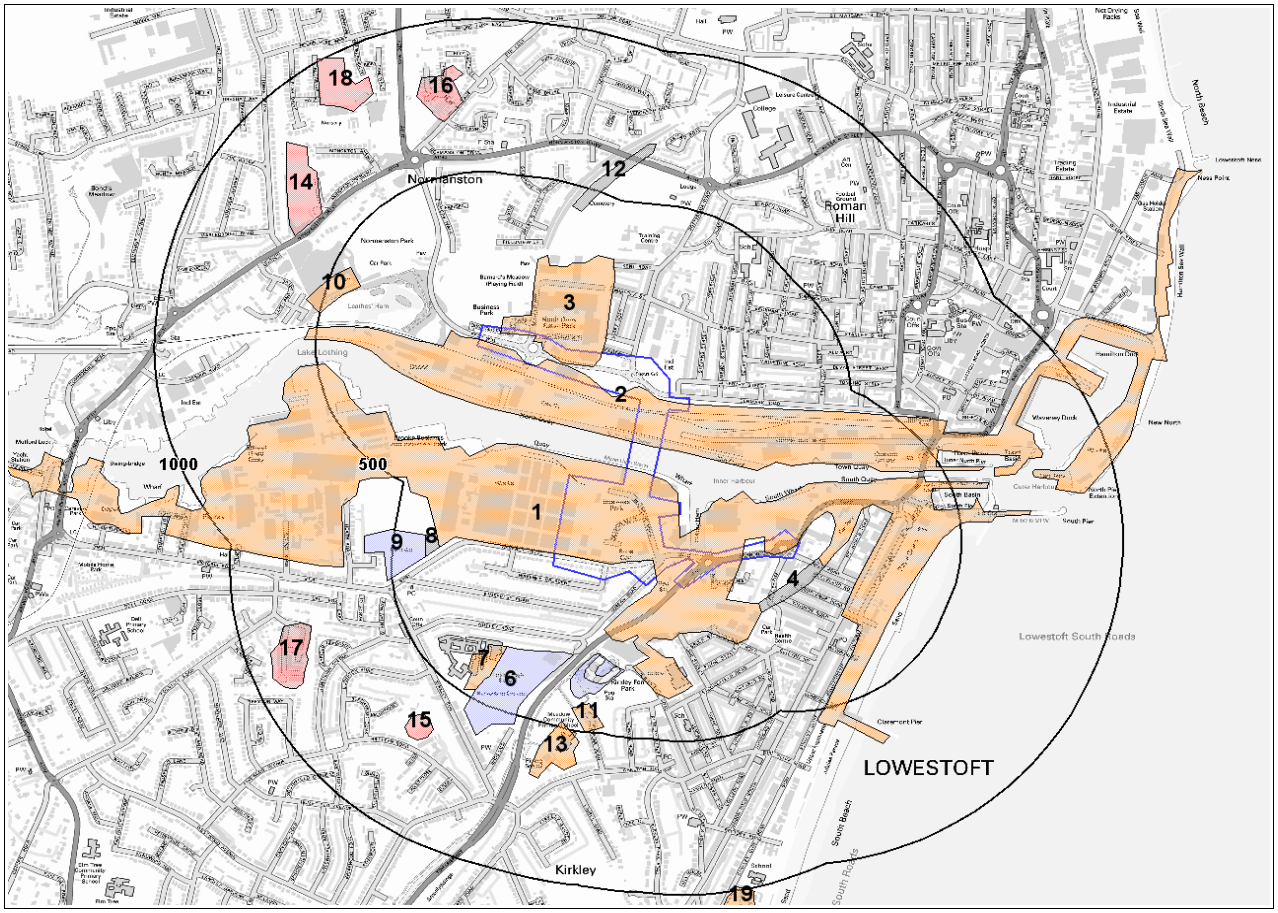
# 1 Geology

## 1.1 Artificial Ground Map

NW N NE

W E

SW S SE




**Artificial Ground Legend**

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Site Outline

500
1000
Search Buffers (m)

Made Ground (undivided)

Disturbed Ground (undivided)

Worked Ground (undivided)

Landscaped Ground (undivided)

Infilled Ground

Reclaimed Ground

# 1 Geology

# 1.1 Artificial Ground

## 1.1.1 Artificial/ Made Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No:176

Are there any records of Artificial/Made Ground within 500m of the study site boundary? Yes

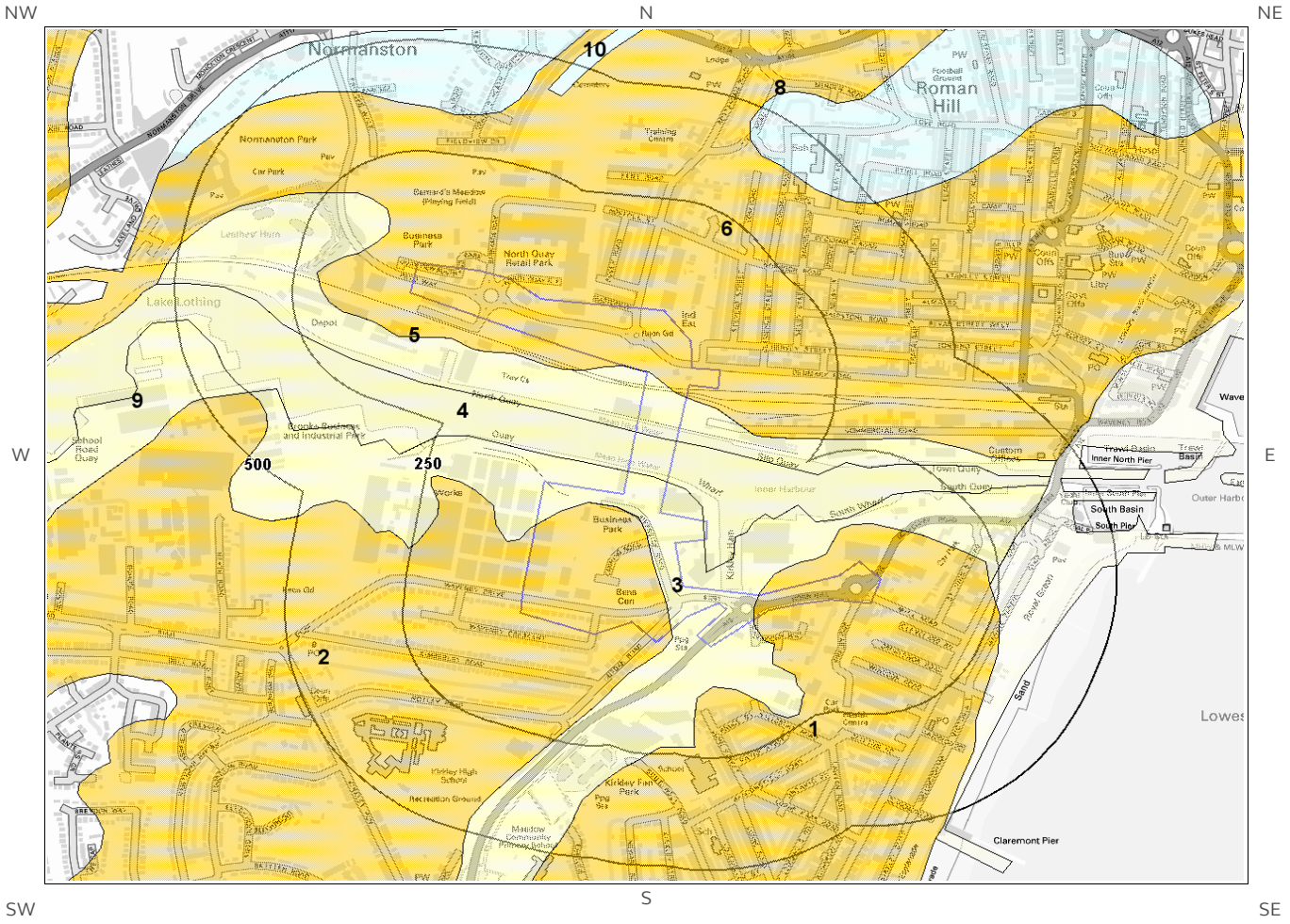
| ID | Distance (m) | Direction | LEX Code | Description | Rock Description |
|---|---|---|---|---|---|
| 1 | 0.0 | On Site | MGR-MGRD | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 2 | 0.0 | On Site | MGR-MGRD | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 3 | 0.0 | On Site | MGR-MGRD | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 4 | 48.0 | SE | WGR-OPEN | WORKED GROUND (UNDIVIDED) | VOID |
| 5 | 242.0 | S | LSGR-ARTGR | LANDSCAPED GROUND (UNDIVIDED) | ARTIFICIALLY MODIFIED GROUND |
| 6 | 261.0 | S | LSGR-ARTGR | LANDSCAPED GROUND (UNDIVIDED) | ARTIFICIALLY MODIFIED GROUND |
| 7 | 299.0 | SW | MGR-MGRD | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 8 | 358.0 | W | WGR-OPEN | WORKED GROUND (UNDIVIDED) | VOID |
| 9 | 397.0 | W | LSGR-ARTGR | LANDSCAPED GROUND (UNDIVIDED) | ARTIFICIALLY MODIFIED GROUND |
| 10 | 401.0 | W | MGR-MGRD | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 11 | 405.0 | S | MGR-MGRD | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 12 | 423.0 | N | WGR-OPEN | WORKED GROUND (UNDIVIDED) | VOID |
| 13 | 478.0 | S | MGR-MGRD | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |

## 1.1.2 Permeability of Artificial Ground

Are there any records relating to permeability of artificial ground within the study site boundary? Yes

| Distance (m) | Direction | Flow Type | Maximum Permeability | Minimum Permeability |
|---|---|---|---|---|
| 0.0 | On Site | Mixed | Very High | Low |
| 0.0 | On Site | Mixed | Very High | Low |
| 0.0 | On Site | Mixed | Very High | Low |

# 1.2 Superficial Deposits and Landslips Map




**Superficial Deposits and Landslips Legend**

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Site Outline

500
1000
Search Buffers (m)

# 1.2 Superficial Deposits and Landslips

## 1.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? Yes

| ID | Distance (m) | Direction | LEX Code | Description | Rock Description |
|---|---|---|---|---|---|
| 1 | 0.0 | On Site | HPGL | HAPPISBURGH GLACIGENIC FORMATION | SAND [UNLITHIFIED DEPOSITS CODING SCHEME] |
| 2 | 0.0 | On Site | HPGL | HAPPISBURGH GLACIGENIC FORMATION | SAND [UNLITHIFIED DEPOSITS CODING SCHEME] |
| 3 | 0.0 | On Site | ALV | ALLUVIUM | CLAY, SILT, SAND AND GRAVEL [UNLITHIFIED DEPOSITS CODING SCHEME] |
| 4 | 0.0 | On Site | TRD | TIDAL RIVER OR CREEK DEPOSITS | CLAY AND SILT [UNLITHIFIED DEPOSITS CODING SCHEME] |
| 5 | 0.0 | On Site | ALV | ALLUVIUM | CLAY, SILT, SAND AND GRAVEL [UNLITHIFIED DEPOSITS CODING SCHEME] |
| 6 | 0.0 | On Site | HPGL | HAPPISBURGH GLACIGENIC FORMATION | SAND [UNLITHIFIED DEPOSITS CODING SCHEME] |
| 7 | 230.0 | E | BSA | BLOWN SAND | SAND [UNLITHIFIED DEPOSITS CODING SCHEME] |
| 8 | 340.0 | N | LOFT | LOWESTOFT FORMATION | DIAMICTON |
| 9 | 409.0 | SW | ALV | ALLUVIUM | CLAY, SILT, SAND AND GRAVEL [UNLITHIFIED DEPOSITS CODING SCHEME] |
| 10 | 423.0 | N | LOFT | LOWESTOFT FORMATION | DIAMICTON |

## 1.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site boundary? Yes

| Distance (m) | Direction | Flow Type | Maximum Permeability | Minimum Permeability |
|---|---|---|---|---|
| 0.0 | On Site | Intergranular | High | Very Low |
| 0.0 | On Site | Intergranular | High | Very Low |
| 0.0 | On Site | Intergranular | High | High |
| 0.0 | On Site | Intergranular | High | High |
| 0.0 | On Site | Intergranular | High | High |

| Distance (m) | Direction | Flow Type | Maximum Permeability | Minimum Permeability |
|---|---|---|---|---|
| 0.0 | On Site | Intergranular | Low | Very Low |

## 1.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary? No

Database searched and no data found.

This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

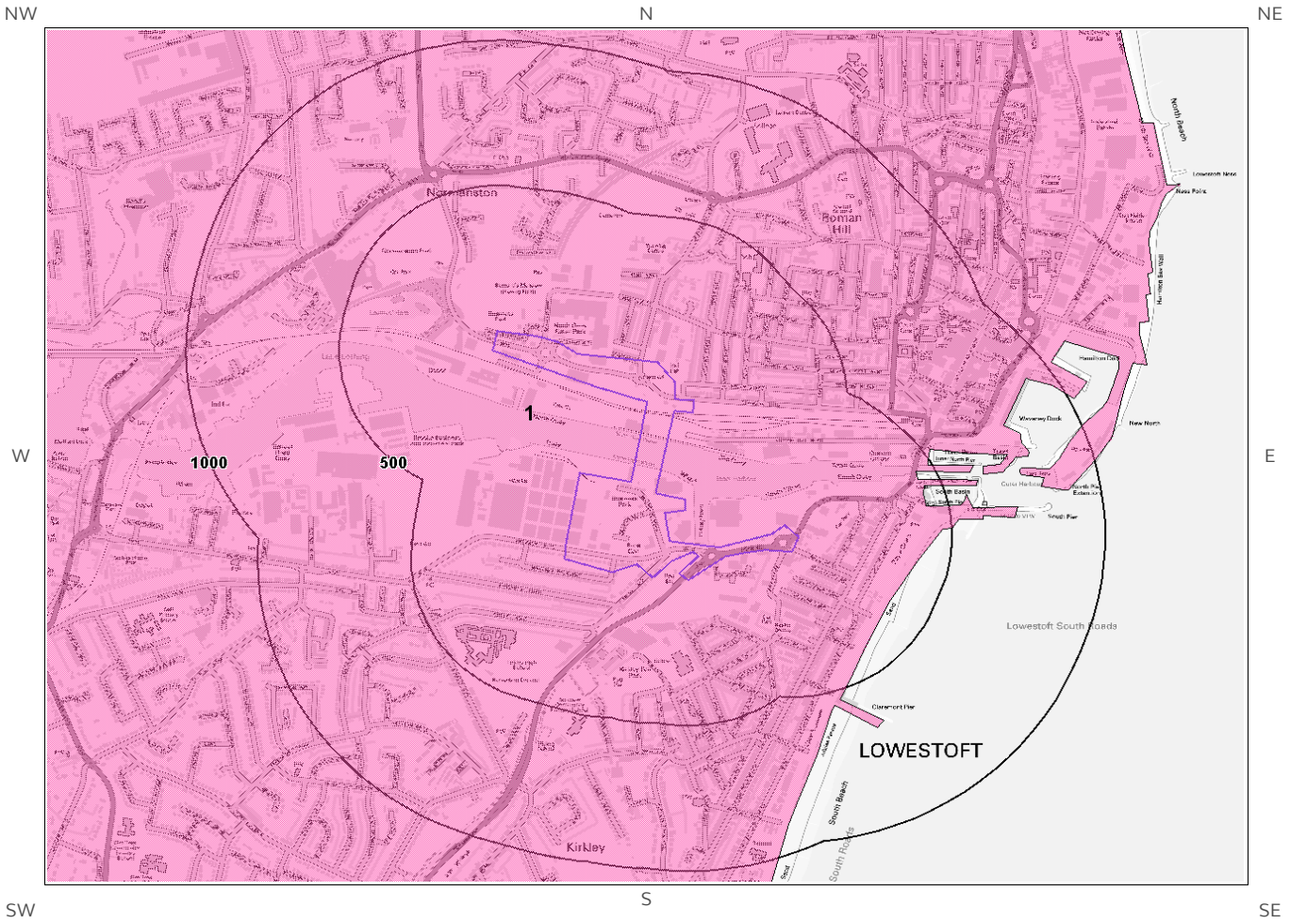
## 1.2.4 Landslip Permeability

Are there any records relating to permeability of landslips within the study site* boundary? No

Database searched and no data found.

* This includes an automatically generated 50m buffer zone around the site

# 1.3 Bedrock and Faults Map




**Bedrock and Faults Legend**

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Site Outline

500
1000
Search Buffers (m)

# 1.3 Bedrock, Solid Geology & Faults

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No:176

## 1.3.1 Bedrock/ Solid Geology

Records of Bedrock/ Solid Geology within 500m of the study site boundary:

| ID | Distance (m) | Direction | LEX Code | Description | Rock Age |
|---|---|---|---|---|---|
| 1 | 0.0 | On Site | CRAG-SANDU | Crag Group - Sand | No Details |

## 1.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site* boundary? Yes

| Distance (m) | Direction | Flow Type | Maximum Permeability | Minimum Permeability |
|---|---|---|---|---|
| 0.0 | On Site | Intergranular | High | High |

## 1.3.3 Faults

Are there any records of Faults within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as Faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

* This includes an automatically generated 50m buffer zone around the site

# 1.4 Radon Data

## 1.4.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level

---

## 1.4.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary

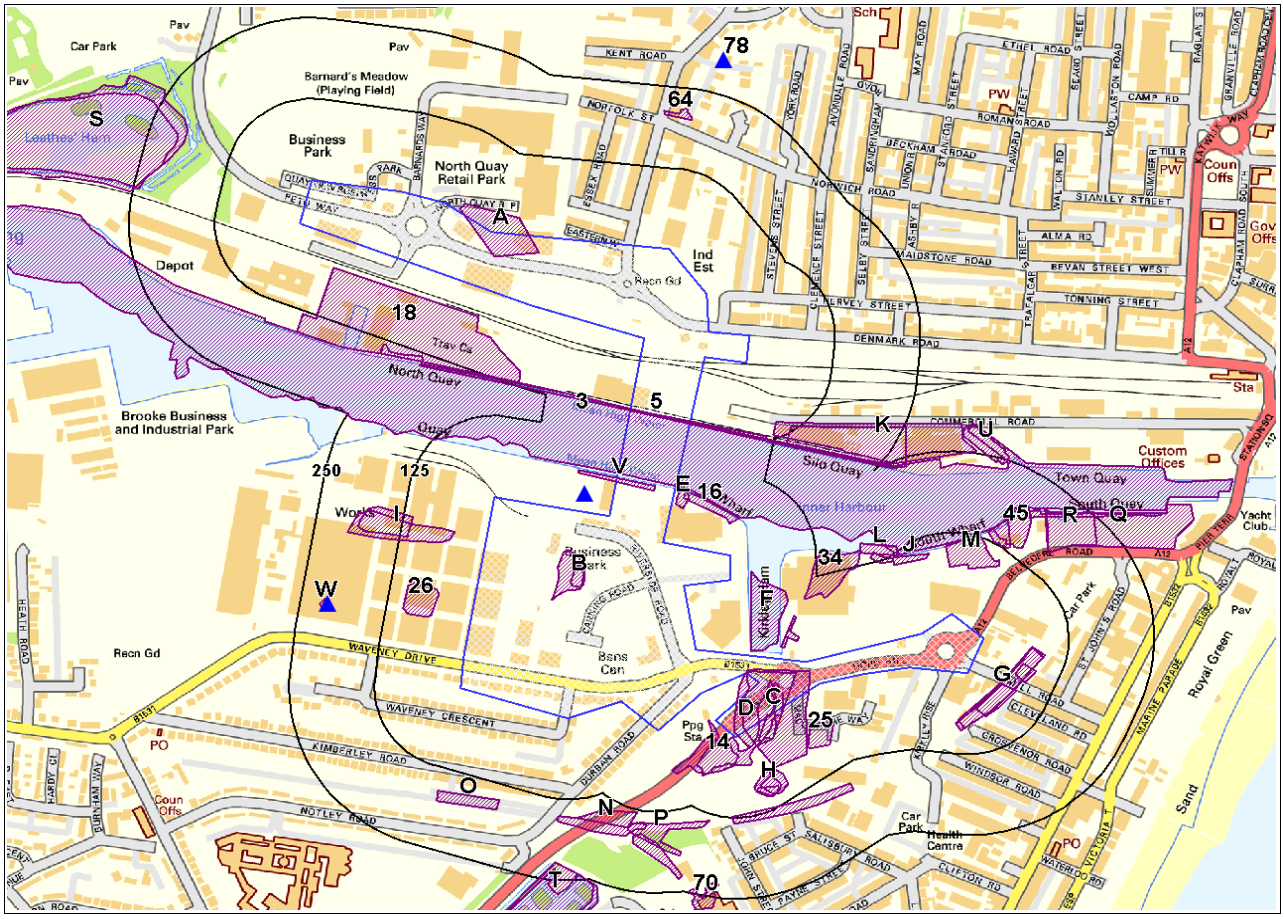
---

# 2 Ground Workings Map

NW N NE

W E

SW S SE




**Ground Workings Legend**

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Site Outline

125 250 Search Buffers (m)

Historic Surface Ground Workings

Historic Underground Workings

Current Ground Workings

# 2 Ground Workings

## 2.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on Groundsure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping.

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? Yes

The following Historical Surface Ground Working Features are provided by Groundsure:

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1C | 0.0 | On Site | 654082 292364 | Pond | 1951 |
| 2B | 0.0 | On Site | 653791 292572 | Unspecified Pit | 1904 |
| 3 | 0.0 | On Site | 653487 292878 | Lake | 1951 |
| 4V | 0.0 | On Site | 653848 292722 | Unspecified Wharf | 1946 |
| 5 | 0.0 | On Site | 653905 292821 | Quay | 1946 |
| 6A | 0.0 | On Site | 653676 293107 | Unspecified Pit | 1982 |
| 7A | 0.0 | On Site | 653676 293107 | Unspecified Pit | 1974 |
| 8B | 0.0 | On Site | 653777 292576 | Refuse Heap | 1951 |
| 9C | 0.0 | On Site | 654040 292354 | Unspecified Pit | 1951 |
| 10D | 0.0 | On Site | 653984 292348 | Ponds | 1946 |
| 11D | 0.0 | On Site | 653987 292310 | Pond | 1904 |
| 12E | 5.0 | E | 653944 292694 | Unspecified Wharf | 1904 |
| 13F | 8.0 | N | 654071 292520 | Unspecified Wharf | 1951 |
| 14 | 11.0 | SW | 653995 292296 | Pond | 1951 |
| 15E | 15.0 | E | 653987 292681 | Unspecified Wharf | 1982 |
| 16 | 15.0 | E | 653987 292681 | Unspecified Wharf | 1974 |
| 17F | 19.0 | N | 654102 292488 | Unspecified Wharf | 1946 |
| 18 | 44.0 | S | 653543 292960 | Quay | 1974 |
| 19G | 45.0 | SE | 654409 292402 | Cuttings | 1883 |
| 20G | 46.0 | SE | 654409 292400 | Cuttings | 1946 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 21I | 47.0 | W | 653533 292650 | Sand Pit | 1946 |
| 22G | 48.0 | SE | 654403 292381 | Cuttings | 1974 |
| 23G | 48.0 | SE | 654403 292381 | Cuttings | 1982 |
| 24G | 48.0 | SE | 654403 292381 | Cuttings | 1992 |
| 25 | 48.0 | SE | 654146 292330 | Refuse Heap | 1951 |
| 26 | 54.0 | W | 653561 292537 | Unspecified Heap | 1951 |
| 27G | 64.0 | SE | 654446 292424 | Cuttings | 1974 |
| 28G | 64.0 | SE | 654446 292424 | Cuttings | 1982 |
| 29G | 64.0 | SE | 654446 292424 | Cuttings | 1992 |
| 30H | 67.0 | SE | 654068 292255 | Unspecified Pit | 1904 |
| 31M | 72.0 | N | 654369 292611 | Unspecified Wharf | 1883 |
| 32H | 75.0 | SE | 654078 292256 | Unspecified Pit | 1951 |
| 33H | 86.0 | SE | 654069 292242 | Unspecified Pit | 1946 |
| 34 | 89.0 | N | 654162 292575 | Unspecified Wharf | 1946 |
| 35J | 92.0 | NW | 654278 292600 | Unspecified Wharf | 1904 |
| 36K | 101.0 | SE | 654226 292779 | Quay | 1992 |
| 37I | 112.0 | W | 653533 292658 | Cuttings | 1951 |
| 38J | 115.0 | NW | 654235 292602 | Unspecified Wharf | 1946 |
| 39K | 118.0 | SE | 654184 292773 | Unspecified Wharf | 1904 |
| 40L | 118.0 | NW | 654232 292614 | Unspecified Wharf | 1982 |
| 41L | 118.0 | NW | 654232 292614 | Unspecified Wharf | 1974 |
| 42H | 120.0 | S | 654105 292223 | Cuttings | 1883 |
| 43M | 125.0 | NE | 654408 292644 | Unspecified Wharf | 1946 |
| 44N | 129.0 | S | 653826 292188 | Unspecified Ground Workings | 1974 |
| 45 | 134.0 | NE | 654426 292648 | Unspecified Wharf | 1951 |
| 46P | 135.0 | S | 653899 292170 | Unspecified Pit | 1951 |
| 47N | 144.0 | S | 653826 292188 | Unspecified Ground Workings | 1992 |
| 48N | 144.0 | S | 653826 292188 | Unspecified Ground Workings | 1982 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 49O | 149.0 | S | 653631 292228 | Cuttings | 1974 |
| 50O | 149.0 | S | 653631 292228 | Cuttings | 1982 |
| 51P | 162.0 | S | 653907 292141 | Unspecified Heap | 1992 |
| 52P | 162.0 | S | 653907 292141 | Unspecified Heap | 1974 |
| 53P | 162.0 | S | 653907 292141 | Unspecified Heap | 1982 |
| 54Q | 162.0 | NE | 654584 292647 | Quay | 1992 |
| 55R | 162.0 | NE | 654512 292644 | Quay | 1974 |
| 56Q | 162.0 | NE | 654584 292647 | Quay | 1982 |
| 57R | 171.0 | NE | 654533 292669 | Quay | 1883 |
| 58R | 171.0 | NE | 654533 292669 | Quay | 1946 |
| 59R | 171.0 | NE | 654533 292669 | Quay | 1904 |
| 60S | 195.0 | W | 653038 293258 | Water Body | 1974 |
| 61S | 195.0 | W | 653038 293258 | Water Body | 1982 |
| 62S | 195.0 | W | 653038 293258 | Water Body | 1951 |
| 63S | 195.0 | W | 653038 293258 | Water Body | 1992 |
| 64 | 202.0 | N | 653937 293286 | Pond | 1883 |
| 65S | 205.0 | W | 653033 293243 | Water Body | 1904 |
| 66S | 205.0 | W | 653033 293243 | Water Body | 1883 |
| 67S | 205.0 | W | 653033 293243 | Water Body | 1946 |
| 68W | 207.0 | W | 653421 292531 | Sand Pit | 1883 |
| 69T | 223.0 | S | 653743 292064 | Ponds | 1951 |
| 70 | 225.0 | S | 653976 292080 | Ponds | 1883 |
| 71T | 233.0 | S | 653744 292058 | Water Body | 1982 |
| 72T | 233.0 | S | 653744 292058 | Water Body | 1974 |
| 73T | 233.0 | S | 653744 292058 | Water Body | 1992 |
| 74U | 242.0 | N | 654389 292776 | Dry Dock | 1883 |
| 75U | 242.0 | N | 654389 292776 | Dry Dock | 1946 |

## 2.2 Historical Underground Working Features derived from Historical Mapping

This data is derived from the Groundsure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary? No

Database searched and no data found.

---

## 2.3 Current Ground Workings

This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

Are there any BGS Current Ground Workings within 1000m of the study site boundary? Yes

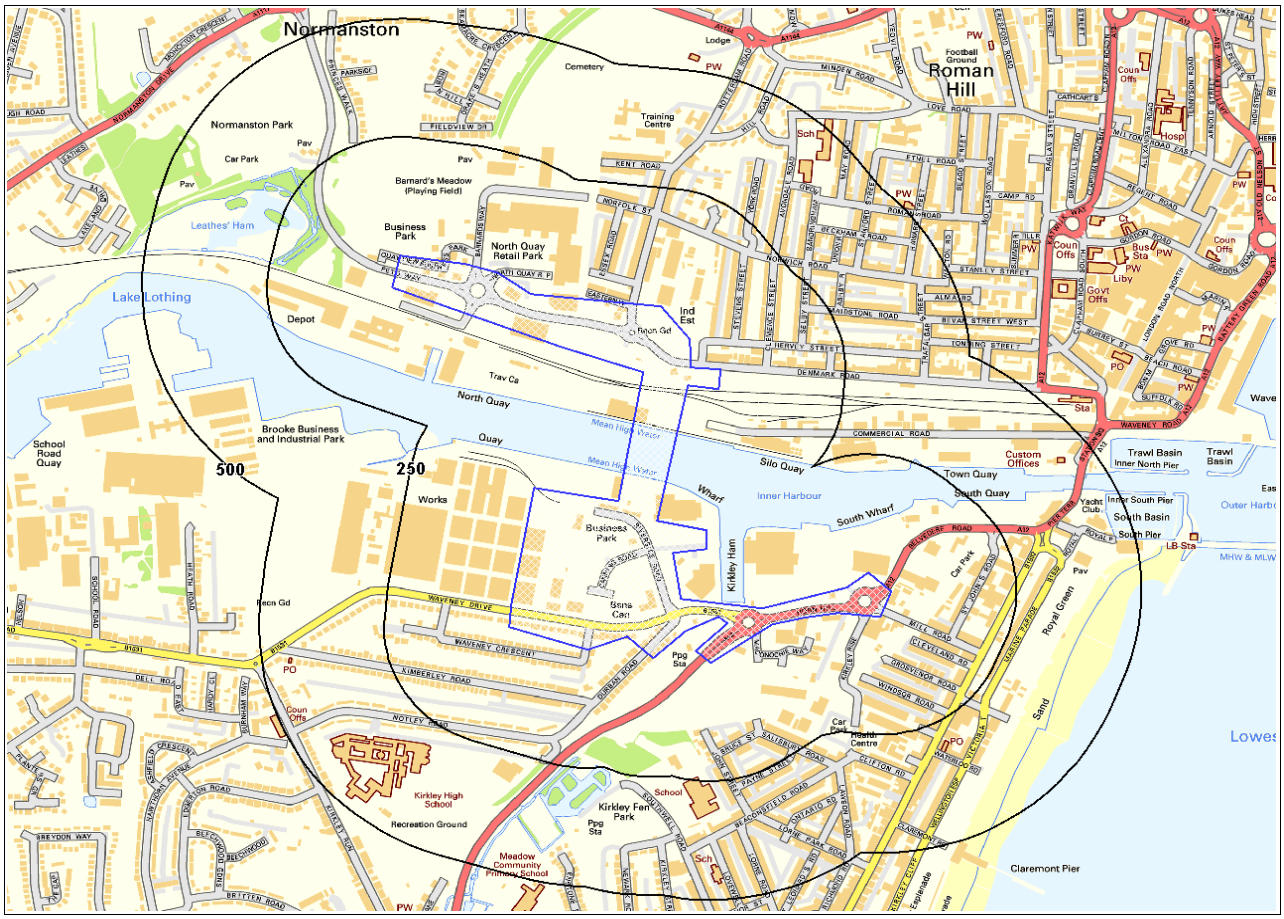
The following Current Ground Workings information is provided by British Geological Survey:

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|---|---|---|---|---|---|---|---|
| 76V | 26.0 | N | 653800 292700 | Marine Sand & Gravel | Inner Dock - Lowestoft | Sea, river or canal wharf where mineral commodities are unloaded and stored | Ceased |
| 77W | 210.0 | W | 653425 292530 | Sand | Colville House Sand Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 78 | 302.0 | N | 654004 293369 | Sand & Gravel | Pope's Farm Gravel Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 532.0 | NE | 654226 293516 | Sand & Gravel | Roman Hill Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 607.0 | SW | 653219 291944 | Sand | Mutfordbridge Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 653.0 | W | 652776 293370 | Sand & Gravel | Oulton Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 662.0 | W | 652730 293212 | Sand & Gravel | Oulton Gravel Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 671.0 | NW | 652830 293535 | Sand & Gravel | Oulton Sand Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 716.0 | NE | 654537 293463 | Clay & Shale | Roman Hill Brick Works | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 757.0 | N | 653218 293919 | Clay & Shale | Normanston Brick Works | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 776.0 | NE | 654494 293605 | Sand | Roman Hill Sand Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|---|---|---|---|---|---|---|---|
| Not shown | 813.0 | W | 652821 292246 | Clay & Shale | Carlton Brick Works | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 817.0 | N | 653207 293978 | Clay & Shale | Normanston Brick Works | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 880.0 | N | 653330 294062 | Clay & Shale | Normanston Brick Works | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 882.0 | NW | 653021 293980 | Clay & Shale | Normanston Brick Works | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 945.0 | SW | 652563 292651 | Sand & Gravel | Mutfordbridge Gravel Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |

# 3 Mining, Extraction & Natural Cavities Map

NW N NE




**Mining, Extraction and Natural Cavities Legend**

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Site Outline

250
500
Search Buffers (m)

Historical Mining

Non-Coal Mining Cavities

Natural Cavities

Non-Coal Mining

Highly likely

Likely

Unlikely

Highly unlikely

Rare

# 3 Mining, Extraction & Natural Cavities

## 3.1 Historical Mining

This dataset is derived from Groundsure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 3.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 3.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary? No

The following information provided by JPB is not represented on mapping: Database searched and no data found.

---

## 3.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 3.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled "Review of mining instability in Great Britain, 1990" PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? No

Database searched and no data found.

---

## 3.6 Natural Cavities

This dataset provides information based on Peter Brett Associates natural cavities database.

Are there any Natural Cavities within 1000m of the study site boundary? No

Database searched and no data found.

---

## 3.7 Brine Extraction

This data provides information from the Coal Authority issued on behalf of the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 3.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 3.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level.

Are there any Tin Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 3.10 Clay Mining

This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

Are there any Clay Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

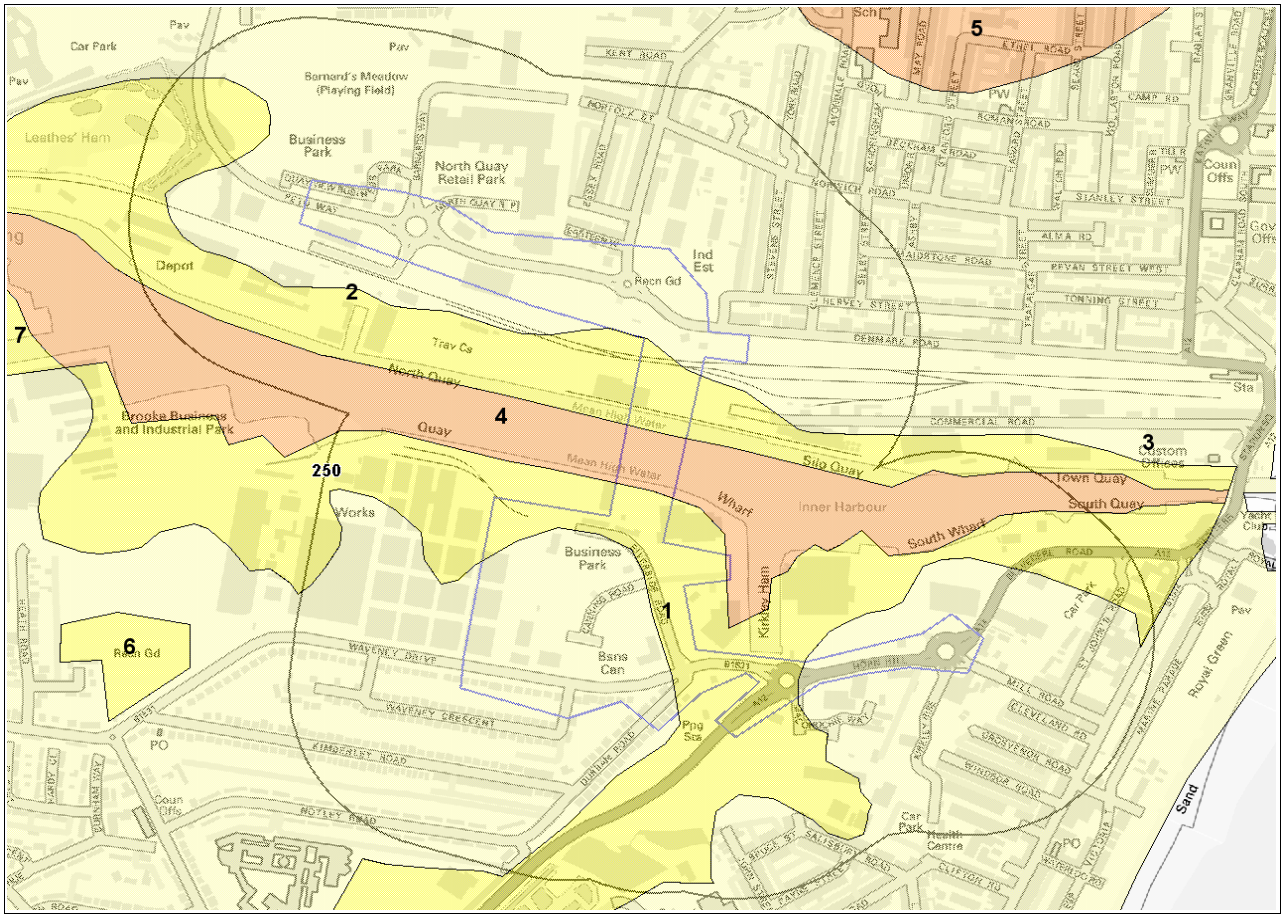
# 4 Natural Ground Subsidence

## 4.1 Shrink-Swell Clay Map

NW N NE

W E

SW S SE




**Shrink Swell Clay Legend**

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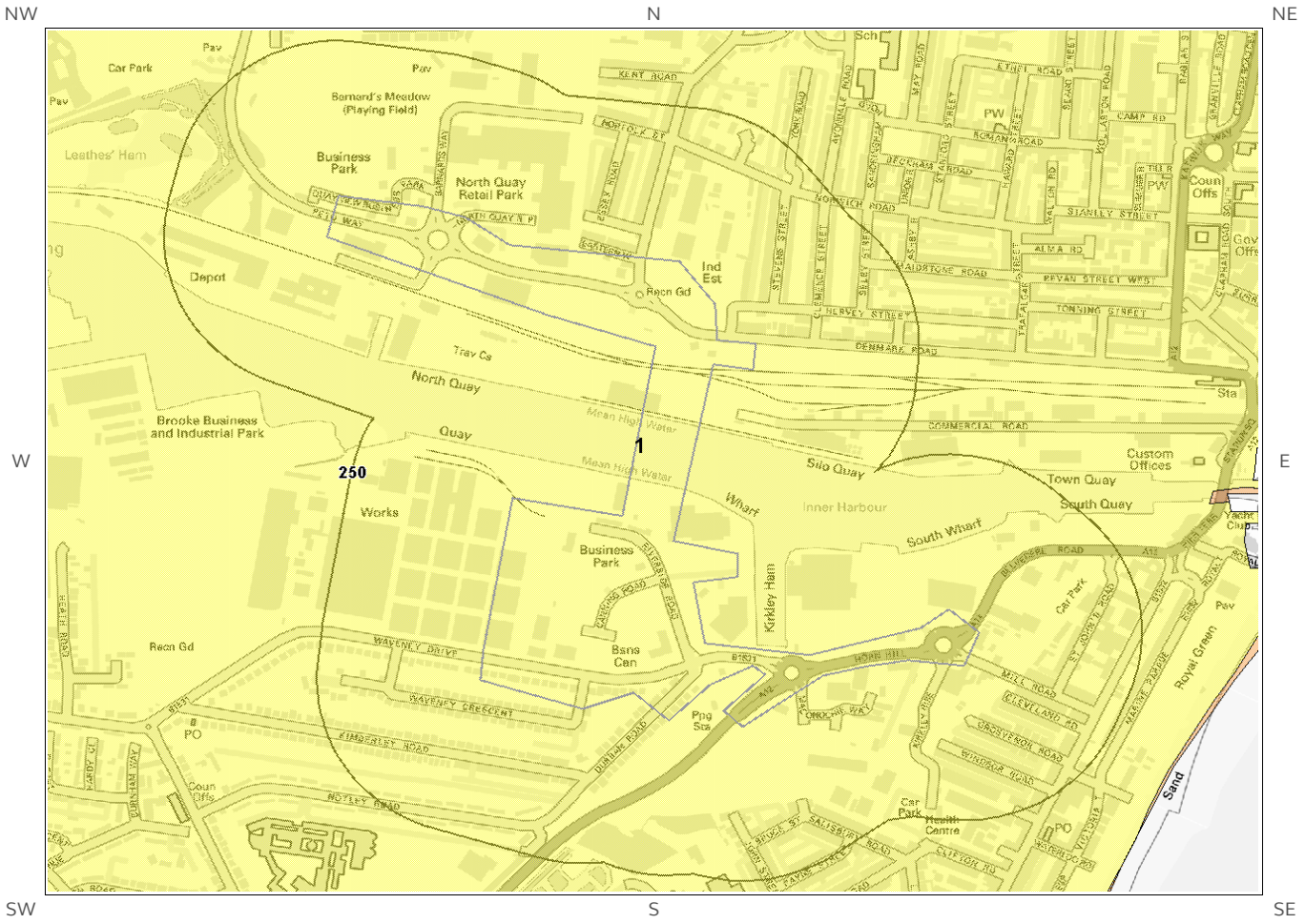
Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

# 4.2 Landslides Map




**Landslides Legend**

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Site Outline

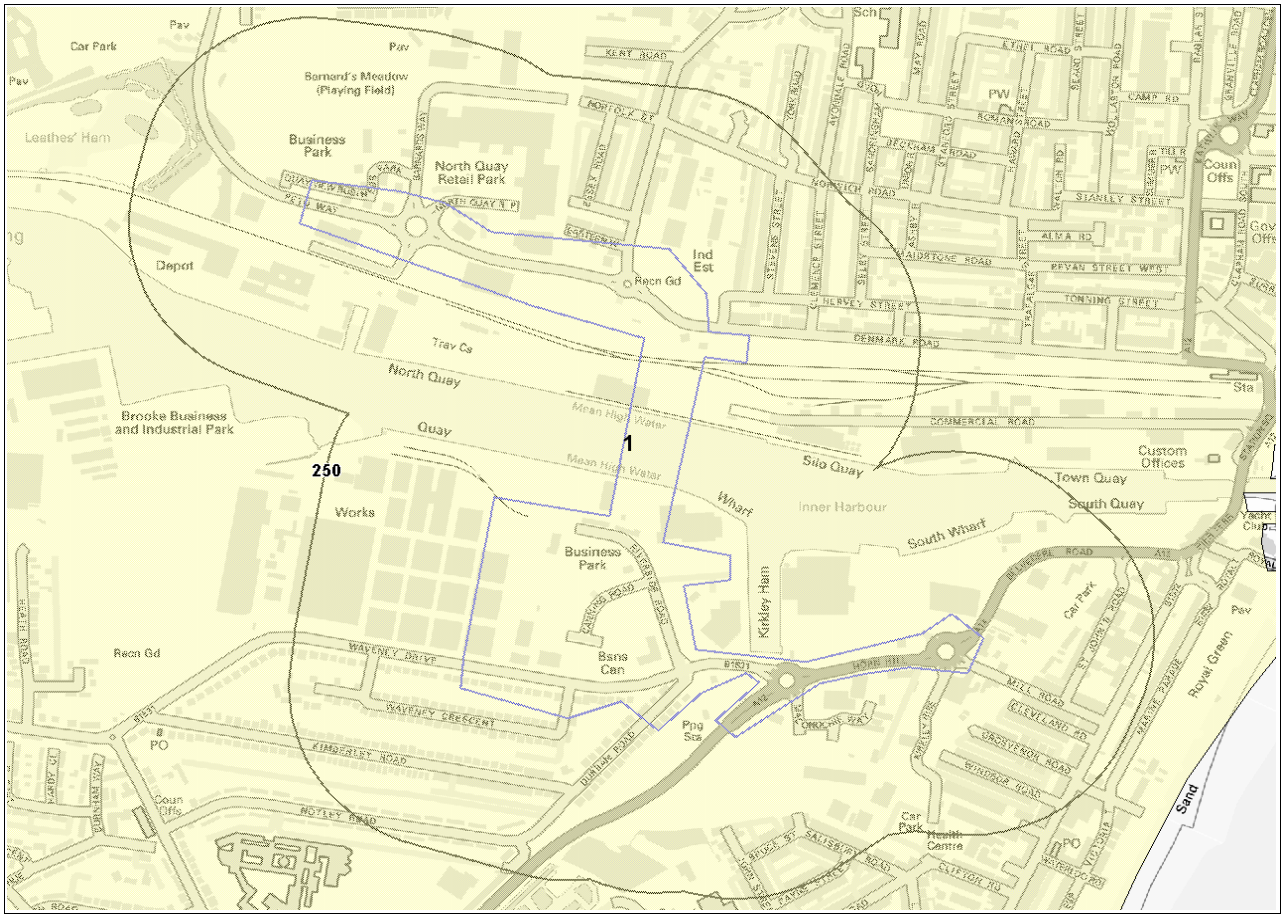
125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

# 4.3 Ground Dissolution Soluble Rocks Map

NW N NE




W E

SW S SE

**Ground Dissolution Soluble Rocks Legend**

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Site Outline

125
250
Search Buffers (m)

No Data / Null

Negligible

Very Low

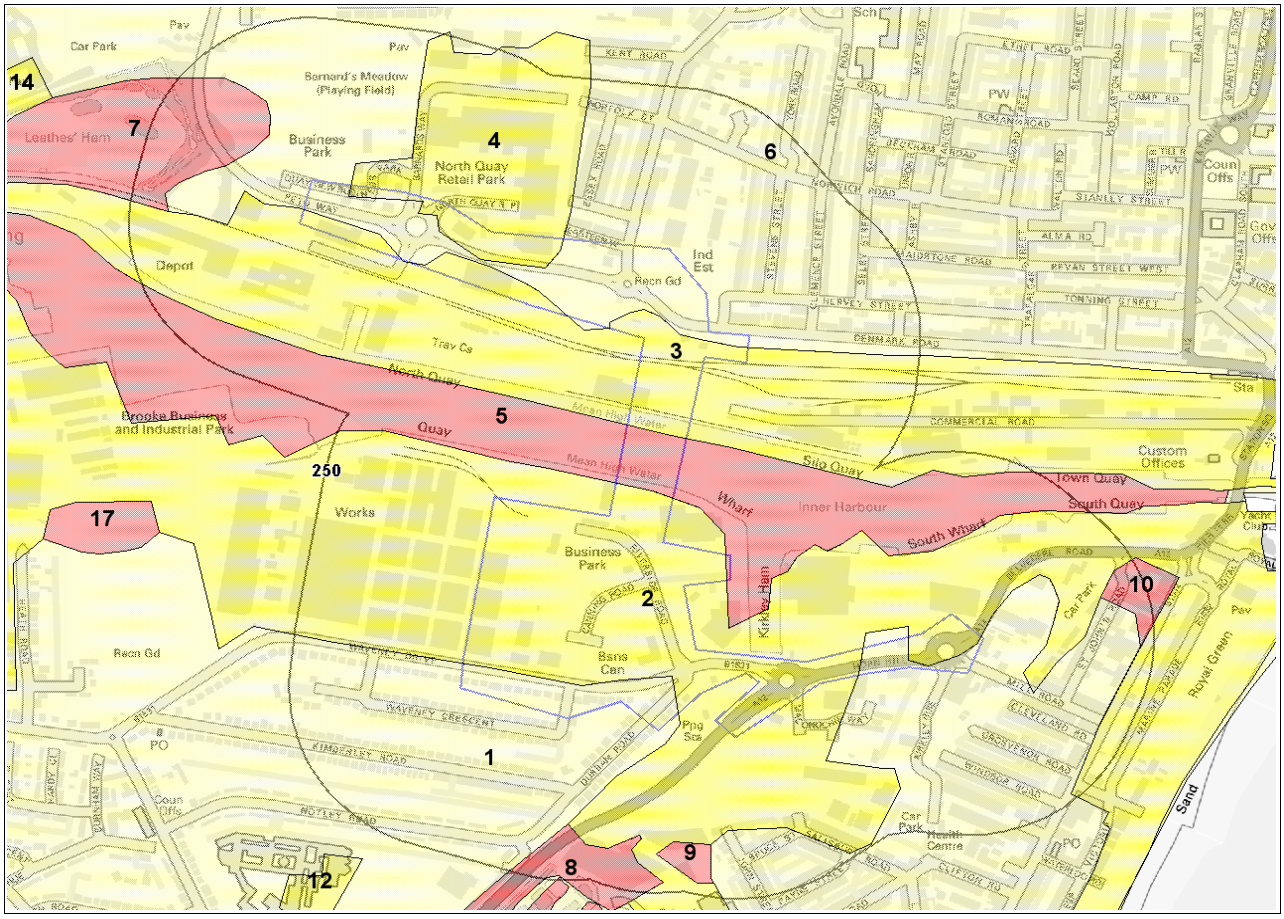
Low

Moderate

High

# 4.4 Compressible Deposits Map

NW N NE




W E

SW S SE

**Compressible Deposits Legend**

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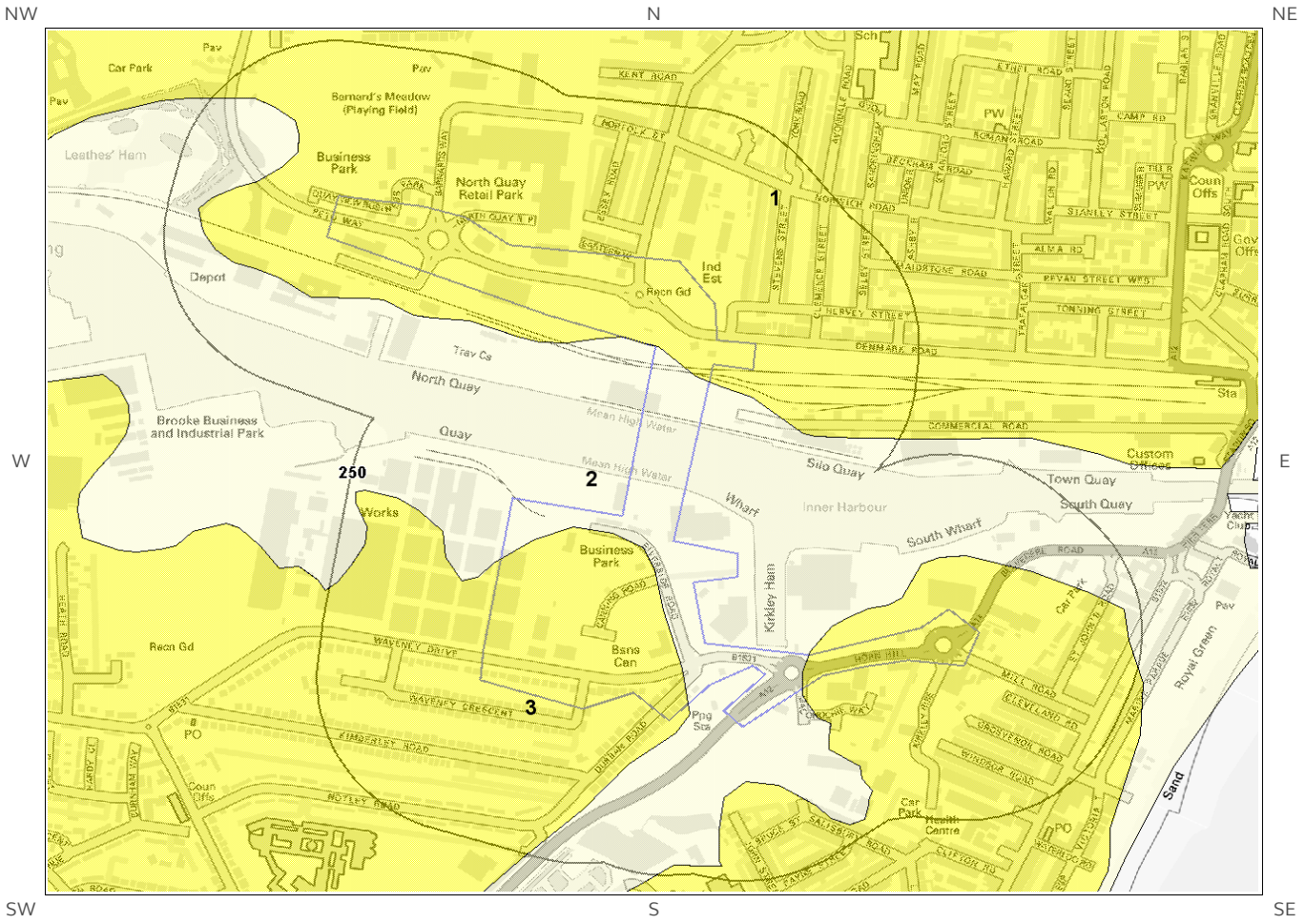
Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

# 4.5 Collapsible Deposits Map




**Collapsible Deposits Legend**

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Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

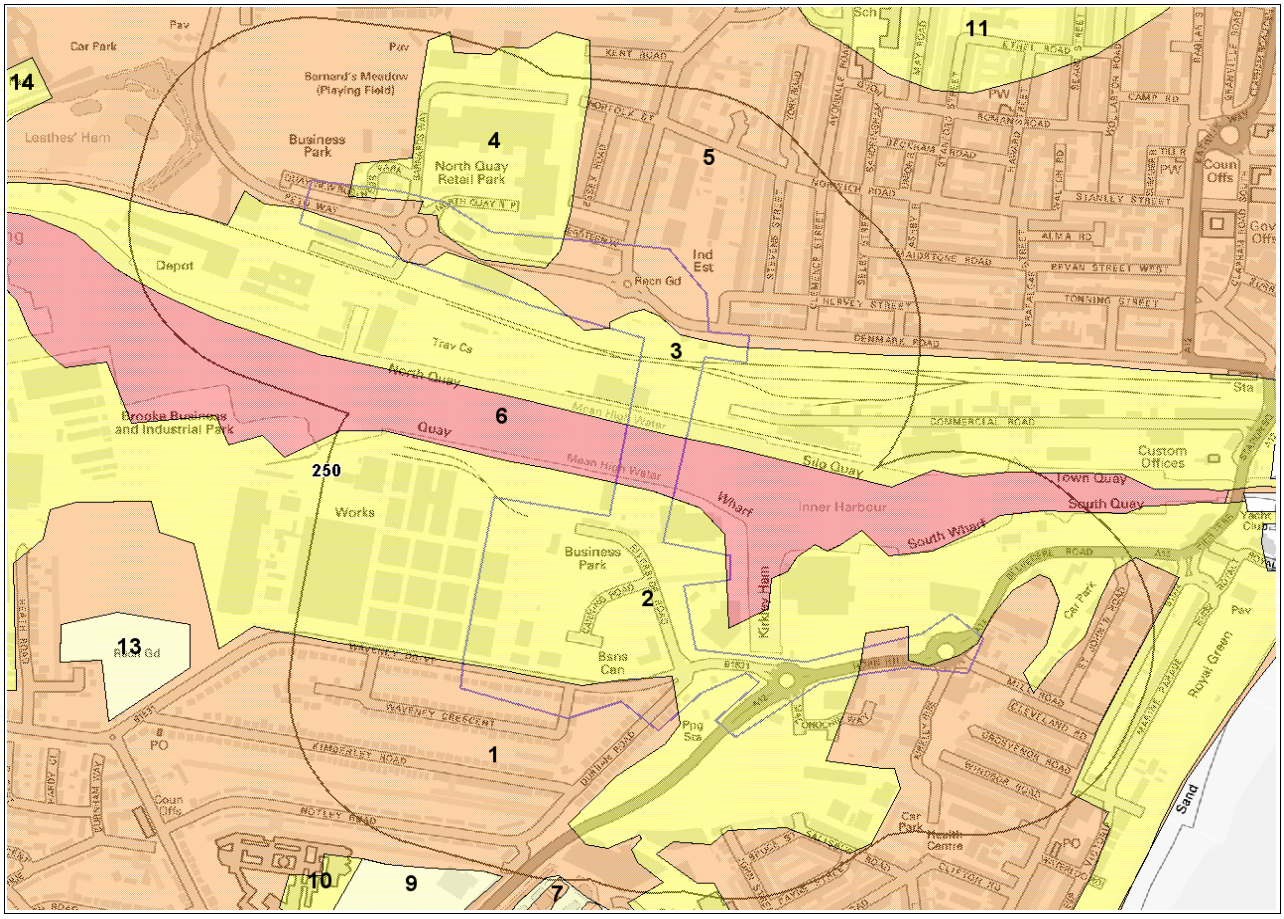
Low
Moderate
High

# 4.6 Running Sand Map

NW N NE

W E

SW S SE




**Running Sand Legend**

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Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

# 4 Natural Ground Subsidence

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

The following GeoSure data represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

What is the maximum hazard rating of natural subsidence within the study site*[*] boundary? Moderate

## 4.1 Shrink-Swell Clays

The following Shrink Swell information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1 | 0.0 | On Site | Very Low | Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays. |
| 2 | 0.0 | On Site | Very Low | Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays. |
| 3 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays. |
| 4 | 0.0 | On Site | Low | Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present. |

## 4.2 Landslides

The following Landslides information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1 | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |

* This includes an automatically generated 50m buffer zone around the site

## 4.3 Ground Dissolution of Soluble Rocks

The following Ground Dissolution information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1 | 0.0 | On Site | Negligible | Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks. |

## 4.4 Compressible Deposits

The following Compressible Deposits information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1 | 0.0 | On Site | Negligible | No indicators for compressible ground identified. No special actions required to avoid problems due to compressible ground. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible ground. |
| 2 | 0.0 | On Site | Very Low | Very low potential for compressible ground to be present. No special actions required to avoid problems due to compressible ground. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible ground. |
| 3 | 0.0 | On Site | Very Low | Very low potential for compressible ground to be present. No special actions required to avoid problems due to compressible ground. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible ground. |
| 4 | 0.0 | On Site | Very Low | Very low potential for compressible ground to be present. No special actions required to avoid problems due to compressible ground. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible ground. |
| 5 | 0.0 | On Site | Moderate | Significant potential for compressibility problems. Do not drain, load or de-water ground near the property without technical advice. For new build, consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property, possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly. |
| 6 | 0.0 | On Site | Negligible | No indicators for compressible ground identified. No special actions required to avoid problems due to compressible ground. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible ground. |

## 4.5 Collapsible Deposits

The following Collapsible Rocks information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1 | 0.0 | On Site | Very Low | Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |

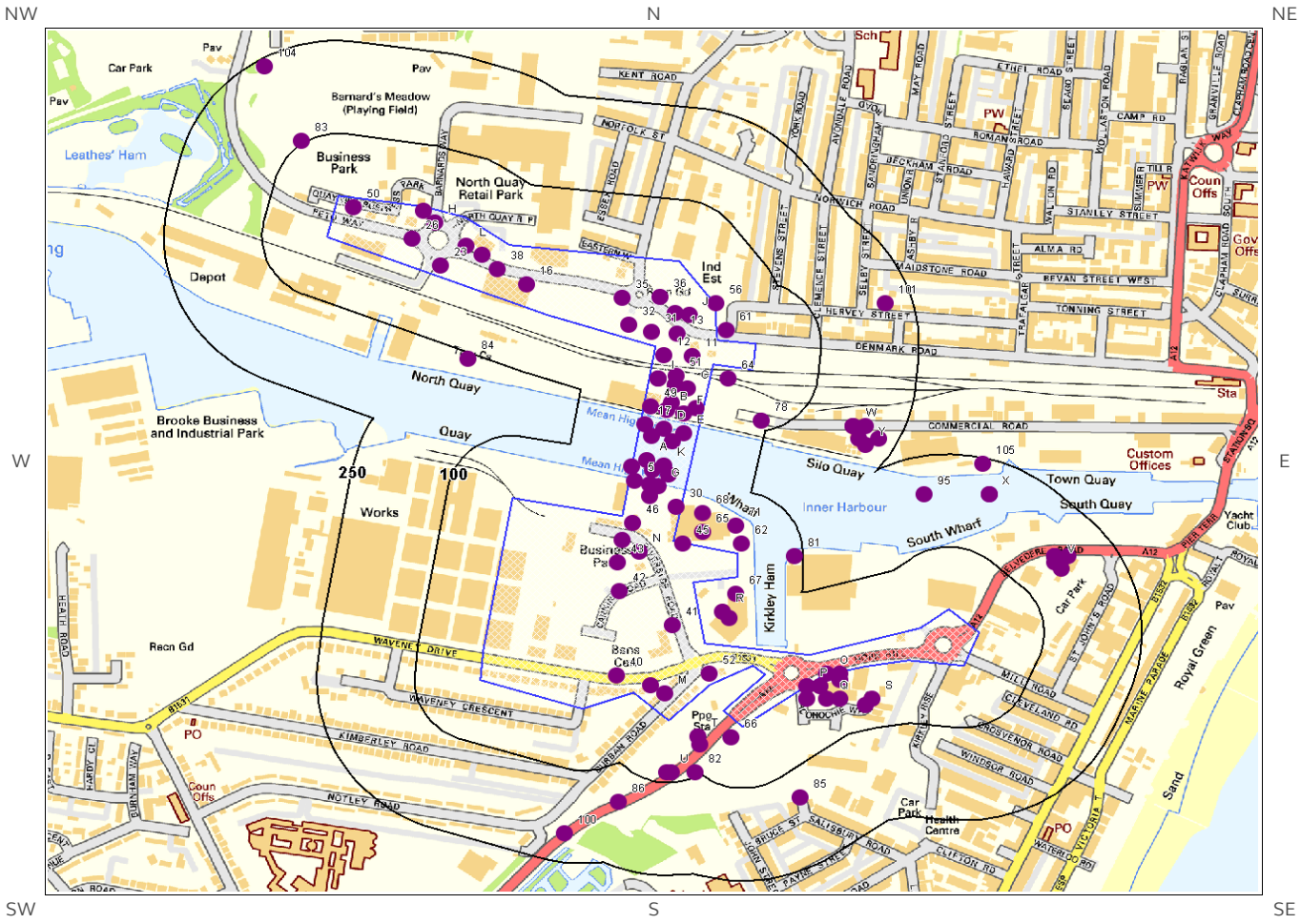
| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 2 | 0.0 | On Site | Negligible | No indicators for collapsible deposits identified. No actions required to avoid problems due to collapsible deposits. No special ground investigation required, or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |
| 3 | 0.0 | On Site | Very Low | Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |

## 4.6 Running Sands

The following Running Sands information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1 | 0.0 | On Site | Low | Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build, consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property, no significant increase in insurance risk due to running sand problems is likely. |
| 2 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 3 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 4 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |
| 5 | 0.0 | On Site | Low | Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build, consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property, no significant increase in insurance risk due to running sand problems is likely. |
| 6 | 0.0 | On Site | Moderate | Significant potential for running sand problems with relatively small changes in ground conditions. Avoid large amounts of water entering the ground (for example through pipe leakage or soak-aways). Do not dig (deep) holes into saturated ground near the property without technical advice. For new build, consider the consequences of soil and groundwater conditions during and after construction. For existing property, possible increase in insurance risk from running sand, for example, due to water leakage, high rainfall events or flooding. |

# 5 Borehole Records Map




**Borehole Records Legend**

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Site Outline

Borehole Locations

125
250
Search Buffers (m)

# 5 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary: 105

| ID | Distance (m) | Direction | NGR | BGS Reference | Drilled Length | Borehole Name |
|---|---|---|---|---|---|---|
| 1E | 0.0 | On Site | 653931 292799 | TM59SW113 | 25.0 | A12 LOWESTOFT RELIEF ROAD 49 |
| 2D | 0.0 | On Site | 653900 292806 | TM59SW115 | 35.0 | A12 RELIEF ROAD 51 |
| 3A | 0.0 | On Site | 653874 292755 | TM59SW110 | 29.6 | A12 RELIEF ROAD 46 |
| 4A | 0.0 | On Site | 653883 292739 | TM59SW108 | 40.7 | A12 RELIEF ROAD 44 |
| 5 | 0.0 | On Site | 653856 292722 | TM59SW104 | 30.0 | A12 RELIEF ROAD 40 |
| 6B | 0.0 | On Site | 653905 292837 | TM59SW118 | 30.0 | A12 RELIEF ROAD 54 |
| 7G | 0.0 | On Site | 653891 292714 | TM59SW106 | 30.0 | A12 RELIEF ROAD 42 |
| 8B | 0.0 | On Site | 653912 292848 | TM59SW120 | 2.3 | A12 RELIEF ROAD 56 |
| 9C | 0.0 | On Site | 653936 292871 | TM59SW125 | 30.0 | A12 RELIEF ROAD 59 |
| 10C | 0.0 | On Site | 653918 292877 | TM59SW124 | 30.0 | A12 RELIEF ROAD 58 |
| 11 | 0.0 | On Site | 653944 292924 | TM59SW129 | 25.0 | A12 RELIEF ROAD 63 |
| 12 | 0.0 | On Site | 653900 292926 | TM59SW127 | 25.0 | A12 RELIEF ROAD 61 |
| 13 | 0.0 | On Site | 653921 292960 | TM59SW131 | 25.0 | A12 RELIEF ROAD 65 |
| 14D | 0.0 | On Site | 653882 292795 | TM59SW112 | 40.0 | A12 RELIEF ROAD 48 |
| 15E | 0.0 | On Site | 653913 292786 | TM59SW116 | 30.6 | A12 LOWESTOFT RELIEF ROAD 52 |
| 16 | 0.0 | On Site | 653690 293040 | TM59SW137 | 5.0 | A12 RELIEF ROAD 71 |
| 17 | 0.0 | On Site | 653871 292814 | TM59SW114 | 26.9 | A12 LOWESTOFT RELIEF ROAD 50 |
| 18K | 0.0 | On Site | 653901 292747 | TM59SW111 | 25.1 | A12 RELIEF ROAD 47 |
| 19F | 0.0 | On Site | 653931 292831 | TM59SW119 | 30.0 | A12 RELIEF ROAD 55 |
| 20F | 0.0 | On Site | 653950 292840 | TM59SW232 | 23.47 | LOWESTOFT HARBOUR BH2 |
| 21G | 0.0 | On Site | 653878 292717 | TM59SW105 | 25.0 | A12 RELIEF ROAD 41 |
| 22L | 0.0 | On Site | 653597 293103 | TM59SW139 | 10.0 | A12 RELIEF ROAD 73 |

| ID | Distance (m) | Direction | NGR | BGS Reference | Drilled Length | Borehole Name |
|---|---|---|---|---|---|---|
| 23 | 0.0 | On Site | 653558 293071 | TM59SW141 | 5.0 | A12 RELIEF ROAD 75 |
| 24I | 0.0 | On Site | 653892 292887 | TM59SW123 | 30.0 | A12 RELIEF ROAD 57A |
| 25H | 0.0 | On Site | 653550 293140 | TM59SW21 | 9.14 | LOWESTOFT BC MAIN DRAINAGE NO 30 |
| 26 | 0.0 | On Site | 653514 293114 | TM59SW142 | 5.0 | A12 RELIEF ROAD 76 |
| 27H | 0.0 | On Site | 653532 293159 | TM59SW140 | 5.0 | A12 RELIEF ROAD 74 |
| 28I | 0.0 | On Site | 653892 292887 | TM59SW122 | 2.0 | A12 RELIEF ROAD 57 |
| 29G | 0.0 | On Site | 653879 292697 | TM59SW103 | 30.0 | A12 RELIEF ROAD 39 |
| 30 | 0.0 | On Site | 653920 292680 | TM59SW290 | 15.0 | GOODS WAREHOUSE BH2 |
| 31 | 0.0 | On Site | 653882 292963 | TM59SW133 | 25.0 | A12 RELIEF ROAD 67 |
| 32 | 0.0 | On Site | 653847 292974 | TM59SW134 | 15.0 | A12 RELIEF ROAD 68 |
| 33J | 0.0 | On Site | 653940 292990 | TM59SW386 | 16.0 | DENMARK ROAD 1 |
| 34J | 0.0 | On Site | 653918 292993 | TM59SW132 | 10.5 | A12 LOWESTOFT RELIEF ROAD 66 |
| 35 | 0.0 | On Site | 653836 293018 | TM59SW136 | 10.0 | A12 RELIEF ROAD 70 |
| 36 | 0.0 | On Site | 653894 293020 | TM59SW135 | 10.0 | A12 RELIEF ROAD 69 |
| 37K | 0.0 | On Site | 653908 292732 | TM59SW109 | 25.2 | A12 RELIEF ROAD 45 |
| 38 | 0.0 | On Site | 653645 293064 | TM59SW138 | 10.0 | A12 RELIEF ROAD 72 |
| 39L | 0.0 | On Site | 653622 293088 | TM59SW193 | 4.1 | A12 RELIEF ROAD 325 |
| 40 | 0.0 | On Site | 653828 292407 | TM59SW98 | 5.5 | A12 RELIEF ROAD 34 |
| 41 | 0.0 | On Site | 653913 292488 | TM59SW121 | 30.0 | A12 RELIEF ROAD 56A |
| 42 | 0.0 | On Site | 653832 292543 | TM59SW99 | 10.0 | A12 RELIEF ROAD 35 |
| 43 | 0.0 | On Site | 653830 292590 | TM59SW53 | 558.39 | LOWESTOFT EAST ANGLIAN ICE CO WORKS |
| 44N | 0.0 | On Site | 653862 292607 | TM59SW100 | 20.0 | A12 RELIEF ROAD 36 |
| 45 | 0.0 | On Site | 653930 292620 | TM59SW289 | 15.0 | GOODS WAREHOUSE BH1 |
| 46 | 0.0 | On Site | 653852 292654 | TM59SW102 | 20.0 | A12 RELIEF ROAD 38 |
| 47M | 0.0 | On Site | 653902 292378 | TM59SW96 | 10.0 | A12 RELIEF ROAD 32 |
| 48M | 0.0 | On Site | 653880 292391 | TM59SW97 | 5.0 | A12 RELIEF ROAD 33 |
| 49 | 0.0 | On Site | 653880 292843 | TM59SW117 | 30.0 | A12 RELIEF ROAD 53 |
| 50 | 0.0 | On Site | 653424 293165 | TM59SW143 | 5.5 | A12 RELIEF ROAD 77 |

| ID | Distance (m) | Direction | NGR | BGS Reference | Drilled Length | Borehole Name |
|---|---|---|---|---|---|---|
| 51 | 0.0 | On Site | 653920 292892 | TM59SW126 | 25.0 | A12 RELIEF ROAD 60 |
| 52 | 0.0 | On Site | 653970 292410 | TM59SW24 | 6.6 | LOWESTOFT BC MAIN DRAINAGE NO 34 |
| 53O | 0.0 | On Site | 654150 292410 | TM59SW677 | 2.0 | NEW PEUGEOT SHOWROOM AND VEHICLE WORKSHOP AT HORN HILL LOWESTOFT SUFFOLK TP2 |
| 54N | 0.0 | On Site | 653837 292626 | TM59SW101 | 20.0 | A12 RELIEF ROAD 37 |
| 55P | 1.0 | SE | 654120 292390 | TM59SW679 | 2.5 | NEW PEUGEOT SHOWROOM AND VEHICLE WORKSHOP AT HORN HILL LOWESTOFT SUFFOLK TP4 |
| 56 | 1.0 | NE | 653980 293010 | TM59SW387 | 9.0 | DENMARK ROAD 2 |
| 57A | 1.0 | W | 653851 292745 | TM59SW107 | 25.1 | A12 RELIEF ROAD 43 |
| 58O | 3.0 | S | 654170 292410 | TM59SW676 | 2.8 | NEW PEUGEOT SHOWROOM AND VEHICLE WORKSHOP AT HORN HILL LOWESTOFT SUFFOLK TP1 |
| 59P | 12.0 | SE | 654140 292390 | TM59SW678 | 3.0 | NEW PEUGEOT SHOWROOM AND VEHICLE WORKSHOP AT HORN HILL LOWESTOFT SUFFOLK TP3 |
| 60O | 13.0 | S | 654170 292400 | TM59SW674 | 5.5 | NEW PEUGEOT SHOWROOM AND VEHICLE WORKSHOP AT HORN HILL LOWESTOFT SUFFOLK 2 |
| 61 | 15.0 | E | 653996 292966 | TM59SW130 | 10.0 | A12 RELIEF ROAD 64 |
| 62 | 15.0 | NE | 654020 292620 | TM59SW293 | 15.0 | GOODS WAREHOUSE BH5 |
| 63P | 18.0 | SE | 654120 292370 | TM59SW680 | 2.0 | NEW PEUGEOT SHOWROOM AND VEHICLE WORKSHOP AT HORN HILL LOWESTOFT SUFFOLK TP5 |
| 64 | 20.0 | S | 653999 292888 | TM59SW128 | 25.0 | A12 RELIEF ROAD 62 |
| 65 | 23.0 | N | 653960 292640 | TM59SW294 | 18.0 | GOODS WAREHOUSE BH6 |
| 66 | 26.0 | SW | 654004 292307 | TM59SW95 | 5.0 | A12 RELIEF ROAD 31 |
| 67 | 26.0 | S | 654010 292540 | TM59SW480 | 9.0 | TIN WAREHOUSE BH1 |
| 68 | 34.0 | E | 653960 292670 | TM59SW291 | 15.0 | GOODS WAREHOUSE BH3 |
| 69Q | 34.0 | SE | 654150 292370 | TM59SW673 | 12.0 | NEW PEUGEOT SHOWROOM AND VEHICLE WORKSHOP AT HORN HILL LOWESTOFT SUFFOLK 1 |

| ID | Distance (m) | Direction | NGR | BGS Reference | Drilled Length | Borehole Name |
|---|---|---|---|---|---|---|
| 70R | 35.0 | E | 653990 292510 | TM59SW481 | 9.0 | TIN WAREHOUSE BH2 |
| 71 | 42.0 | N | 654010 292650 | TM59SW292 | 15.0 | GOODS WAREHOUSE BH4 |
| 72Q | 42.0 | S | 654170 292370 | TM59SW681 | 2.0 | NEW PEUGEOT SHOWROOM AND VEHICLE WORKSHOP AT HORN HILL LOWESTOFT SUFFOLK TP6 |
| 73R | 43.0 | E | 654000 292500 | TM59SW62 | 19.81 | HORN HILL |
| 74T | 50.0 | SE | 653952 292308 | TM59SW94 | 5.0 | A12 RELIEF ROAD 30 |
| 75S | 53.0 | S | 654220 292370 | TM59SW682 | 2.3 | NEW PEUGEOT SHOWROOM AND VEHICLE WORKSHOP AT HORN HILL LOWESTOFT SUFFOLK TP7 |
| 76S | 61.0 | S | 654210 292360 | TM59SW675 | 5.5 | NEW PEUGEOT SHOWROOM AND VEHICLE WORKSHOP AT HORN HILL LOWESTOFT SUFFOLK 3 |
| 77T | 61.0 | SE | 653956 292296 | TM59SW211 | 4.8 | A12 RELIEF ROAD 349 |
| 78 | 84.0 | S | 654050 292820 | TM59SW233 | 21.95 | LOWESTOFT HARBOUR BH3 |
| 79U | 84.0 | S | 653905 292251 | TM59SW209 | 2.0 | A12 RELIEF ROAD 348 |
| 80U | 84.0 | S | 653912 292251 | TM59SW210 | 3.0 | A12 RELIEF ROAD 348A |
| 81 | 86.0 | E | 654100 292600 | TM59SW525 | 15.0 | HORN HILL LOWESTOFT 1 |
| 82 | 93.0 | SE | 653948 292251 | TM59SW93 | 5.5 | A12 RELIEF ROAD 29 |
| 83 | 105.0 | NW | 653344 293272 | TM59SW144 | 5.0 | A12 RELIEF ROAD 78 |
| 84 | 110.0 | S | 653600 292920 | TM59SW231 | 28.35 | LOWESTOFT HARBOUR BH1 |
| 85 | 145.0 | SE | 654110 292210 | TM59SW25 | 6.55 | LOWESTOFT BC MAIN DRAINAGE NO 35 |
| 86 | 153.0 | SW | 653831 292203 | TM59SW92 | 10.0 | A12 RELIEF ROAD 28 |
| 87V | 162.0 | NE | 654500 292590 | TM59SW478 | 10.0 | BELVEDERE ROAD BH2 |
| 88V | 163.0 | NE | 654510 292580 | TM59SW479 | 10.0 | BELVEDERE ROAD BH3 |
| 89V | 169.0 | NE | 654500 292600 | TM59SW512 | 10.0 | BELVEDERE ROAD LOWESTOFT 1 |
| 90V | 169.0 | NE | 654500 292600 | TM59SW513 | 10.0 | BELVEDERE ROAD LOWESTOFT 2 |
| 91V | 169.0 | NE | 654500 292600 | TM59SW514 | 10.0 | BELVEDERE ROAD LOWESTOFT 3 |
| 92W | 178.0 | SE | 654190 292810 | TM59SW318 | 10.0 | BULK STORAGE FACILITIES 5 |
| 93W | 178.0 | SE | 654190 292810 | TM59SW315 | 23.0 | BULK STORAGE FACILITIES 2 |

| ID | Distance (m) | Direction | NGR | BGS Reference | Drilled Length | Borehole Name |
|---|---|---|---|---|---|---|
| 94V | 183.0 | NE | 654520 292600 | TM59SW477 | 10.0 | BELVEDERE ROAD BH1 |
| 95 | 188.0 | N | 654300 292700 | TM59SW522 | 30.0 | NORTH QUAY LOWESTOFT 1 |
| 96X | 194.0 | N | 654400 292700 | TM59SW491 | 20.0 | 50 COMMERCIAL RD LOWESTOFT 2 |
| 97X | 194.0 | N | 654400 292700 | TM59SW490 | 20.0 | 50 COMMERCIAL RD LOWESTOFT 1 |
| 98W | 196.0 | SE | 654210 292810 | TM59SW314 | 20.0 | BULK STORAGE FACILITIES 1 |
| 99W | 198.0 | SE | 654200 292790 | TM59SW316 | 22.0 | BULK STORAGE FACILITIES 3 |
| 100 | 204.0 | S | 653748 292152 | TM59SW91 | 5.0 | A12 RELIEF ROAD 27 |
| 101 | 208.0 | E | 654240 293010 | TM59SW558 | -1.0 | 58 HERVEY STREET P1 |
| 102Y | 211.0 | SE | 654210 292780 | TM59SW317 | 11.65 | BULK STORAGE FACILITIES 4 |
| 103Y | 223.0 | SE | 654230 292790 | TM59SW319 | 11.0 | BULK STORAGE FACILITIES 6 |
| 104 | 237.0 | NW | 653288 293393 | TM59SW145 | 5.0 | A12 RELIEF ROAD 79 |
| 105 | 240.0 | N | 654390 292750 | TM59SW521 | 15.0 | NORTH QUAY LOWESTOFT 1 |

The borehole records are available using the hyperlinks below: Please note that if the donor of the borehole record has requested the information be held as commercial-in-confidence, the additional data will be held separately by the BGS and a formal request must be made for its release.

#1E: scans.bgs.ac.uk/sobi_scans/boreholes/568919
#2D: scans.bgs.ac.uk/sobi_scans/boreholes/568921
#3A: scans.bgs.ac.uk/sobi_scans/boreholes/568916
#4A: scans.bgs.ac.uk/sobi_scans/boreholes/568914
#5: scans.bgs.ac.uk/sobi_scans/boreholes/568910
#6B: scans.bgs.ac.uk/sobi_scans/boreholes/568924
#7G: scans.bgs.ac.uk/sobi_scans/boreholes/568912
#8B: scans.bgs.ac.uk/sobi_scans/boreholes/568926
#9C: scans.bgs.ac.uk/sobi_scans/boreholes/568931
#10C: scans.bgs.ac.uk/sobi_scans/boreholes/568930
#11: scans.bgs.ac.uk/sobi_scans/boreholes/568935
#12: scans.bgs.ac.uk/sobi_scans/boreholes/568933
#13: scans.bgs.ac.uk/sobi_scans/boreholes/568937
#14D: scans.bgs.ac.uk/sobi_scans/boreholes/568918
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#21G: scans.bgs.ac.uk/sobi_scans/boreholes/568911
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#23: scans.bgs.ac.uk/sobi_scans/boreholes/568947
#24I: scans.bgs.ac.uk/sobi_scans/boreholes/568929
#25H: scans.bgs.ac.uk/sobi_scans/boreholes/568822

#26: scans.bgs.ac.uk/sobi_scans/boreholes/568948
#27H: scans.bgs.ac.uk/sobi_scans/boreholes/568946
#28I: scans.bgs.ac.uk/sobi_scans/boreholes/568928
#29G: scans.bgs.ac.uk/sobi_scans/boreholes/568909
#30: scans.bgs.ac.uk/sobi_scans/boreholes/569096
#31: scans.bgs.ac.uk/sobi_scans/boreholes/568939
#32: scans.bgs.ac.uk/sobi_scans/boreholes/568940
#33J: scans.bgs.ac.uk/sobi_scans/boreholes/569192
#34J: scans.bgs.ac.uk/sobi_scans/boreholes/568938
#35: scans.bgs.ac.uk/sobi_scans/boreholes/568942
#36: scans.bgs.ac.uk/sobi_scans/boreholes/568941
#37K: scans.bgs.ac.uk/sobi_scans/boreholes/568915
#38: scans.bgs.ac.uk/sobi_scans/boreholes/568944
#39L: scans.bgs.ac.uk/sobi_scans/boreholes/568999
#40: scans.bgs.ac.uk/sobi_scans/boreholes/568904
#41: scans.bgs.ac.uk/sobi_scans/boreholes/568927
#42: scans.bgs.ac.uk/sobi_scans/boreholes/568905
#43: scans.bgs.ac.uk/sobi_scans/boreholes/568859
#44N: scans.bgs.ac.uk/sobi_scans/boreholes/568906
#45: scans.bgs.ac.uk/sobi_scans/boreholes/569095
#46: scans.bgs.ac.uk/sobi_scans/boreholes/568908
#47M: scans.bgs.ac.uk/sobi_scans/boreholes/568902
#48M: scans.bgs.ac.uk/sobi_scans/boreholes/568903
#49: scans.bgs.ac.uk/sobi_scans/boreholes/568923
#50: scans.bgs.ac.uk/sobi_scans/boreholes/568949
#51: scans.bgs.ac.uk/sobi_scans/boreholes/568932
#52: scans.bgs.ac.uk/sobi_scans/boreholes/568825
#53O: scans.bgs.ac.uk/sobi_scans/boreholes/18766699
#54N: scans.bgs.ac.uk/sobi_scans/boreholes/568907
#55P: scans.bgs.ac.uk/sobi_scans/boreholes/18766701
#56: scans.bgs.ac.uk/sobi_scans/boreholes/569193
#57A: scans.bgs.ac.uk/sobi_scans/boreholes/568913
#58O: scans.bgs.ac.uk/sobi_scans/boreholes/18766698
#59P: scans.bgs.ac.uk/sobi_scans/boreholes/18766700
#60O: scans.bgs.ac.uk/sobi_scans/boreholes/18766694
#61: scans.bgs.ac.uk/sobi_scans/boreholes/568936
#62: scans.bgs.ac.uk/sobi_scans/boreholes/569099
#63P: scans.bgs.ac.uk/sobi_scans/boreholes/18766702
#64: scans.bgs.ac.uk/sobi_scans/boreholes/568934
#65: scans.bgs.ac.uk/sobi_scans/boreholes/569100
#66: scans.bgs.ac.uk/sobi_scans/boreholes/568901
#67: scans.bgs.ac.uk/sobi_scans/boreholes/569286
#68: scans.bgs.ac.uk/sobi_scans/boreholes/569097
#69Q: scans.bgs.ac.uk/sobi_scans/boreholes/18766693
#70R: scans.bgs.ac.uk/sobi_scans/boreholes/569287
#71: scans.bgs.ac.uk/sobi_scans/boreholes/569098
#72Q: scans.bgs.ac.uk/sobi_scans/boreholes/18766703
#73R: scans.bgs.ac.uk/sobi_scans/boreholes/568868
#74T: scans.bgs.ac.uk/sobi_scans/boreholes/568900
#75S: scans.bgs.ac.uk/sobi_scans/boreholes/18766704
#76S: scans.bgs.ac.uk/sobi_scans/boreholes/18766696
#77T: scans.bgs.ac.uk/sobi_scans/boreholes/569017
#78: scans.bgs.ac.uk/sobi_scans/boreholes/569039
#79U: scans.bgs.ac.uk/sobi_scans/boreholes/569015
#80U: scans.bgs.ac.uk/sobi_scans/boreholes/569016

#81: scans.bgs.ac.uk/sobi_scans/boreholes/569331
#82: scans.bgs.ac.uk/sobi_scans/boreholes/568899
#83: scans.bgs.ac.uk/sobi_scans/boreholes/568950
#84: scans.bgs.ac.uk/sobi_scans/boreholes/569037
#85: scans.bgs.ac.uk/sobi_scans/boreholes/568826
#86: scans.bgs.ac.uk/sobi_scans/boreholes/568898
#87V: scans.bgs.ac.uk/sobi_scans/boreholes/569284
#88V: scans.bgs.ac.uk/sobi_scans/boreholes/569285
#89V: scans.bgs.ac.uk/sobi_scans/boreholes/569318
#90V: scans.bgs.ac.uk/sobi_scans/boreholes/569319
#91V: scans.bgs.ac.uk/sobi_scans/boreholes/569320
#92W: scans.bgs.ac.uk/sobi_scans/boreholes/569124
#93W: scans.bgs.ac.uk/sobi_scans/boreholes/569121
#94V: scans.bgs.ac.uk/sobi_scans/boreholes/569283
#95: scans.bgs.ac.uk/sobi_scans/boreholes/569328
#96X: scans.bgs.ac.uk/sobi_scans/boreholes/569297
#97X: scans.bgs.ac.uk/sobi_scans/boreholes/569296
#98W: scans.bgs.ac.uk/sobi_scans/boreholes/569120
#99W: scans.bgs.ac.uk/sobi_scans/boreholes/569122
#100: scans.bgs.ac.uk/sobi_scans/boreholes/568897
#102Y: scans.bgs.ac.uk/sobi_scans/boreholes/569123
#103Y: scans.bgs.ac.uk/sobi_scans/boreholes/569125
#104: scans.bgs.ac.uk/sobi_scans/boreholes/568951
#105: scans.bgs.ac.uk/sobi_scans/boreholes/569327

# 6 Estimated Background Soil Chemistry

Records of background estimated soil chemistry within 250m of the study site boundary: 48

For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geo Insight User Guide, available on request.

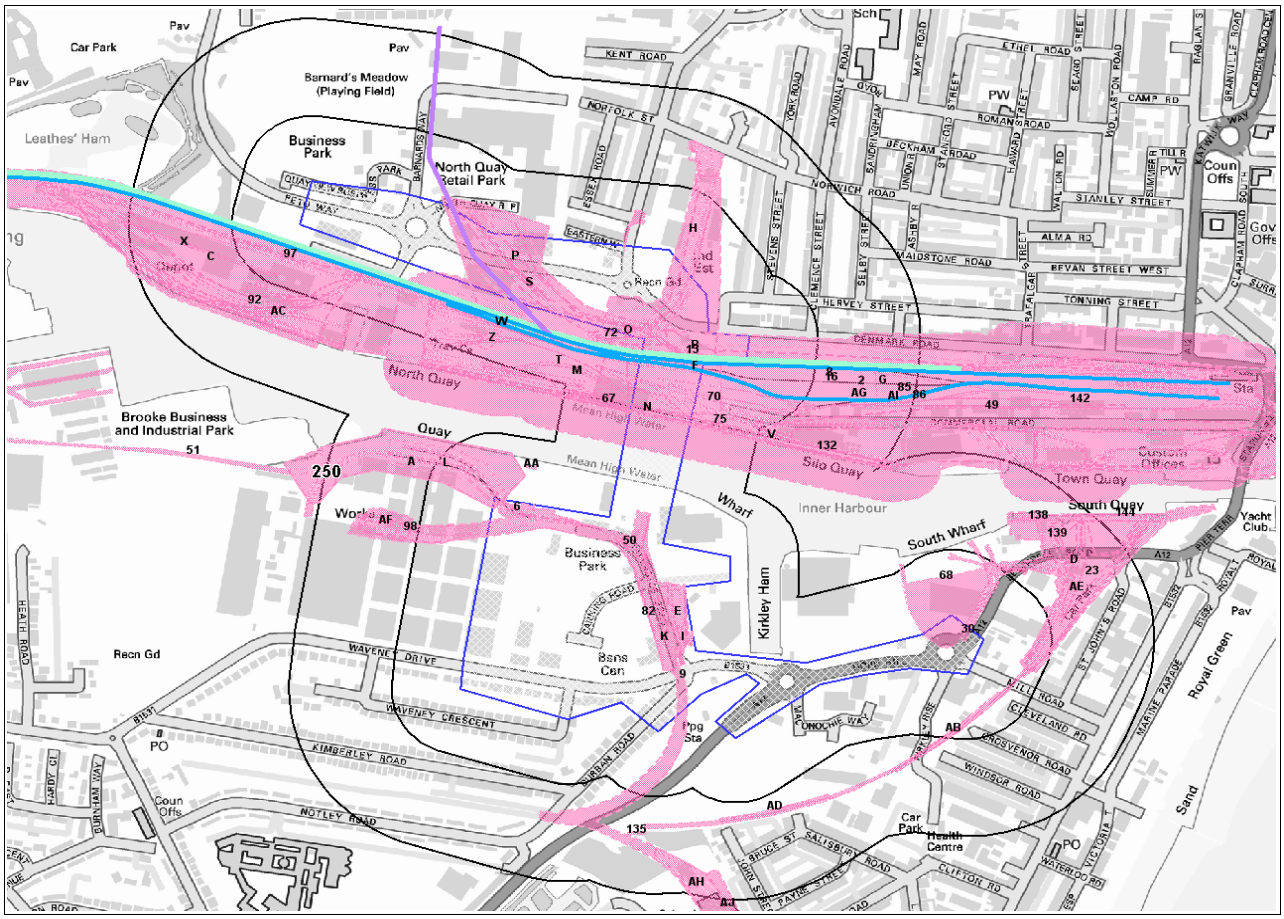
| Distance (m) | Direction | Sample Type | Arsenic (As) | Cadmium (Cd) | Chromium (Cr) | Nickel (Ni) | Lead (Pb) |
|---|---|---|---|---|---|---|---|
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 20.0 | E | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | <100 mg/kg |
| 20.0 | E | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | <100 mg/kg |
| 20.0 | E | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | <100 mg/kg |
| 20.0 | E | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | <100 mg/kg |
| 31.0 | E | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 31.0 | E | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 35.0 | N | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 38.0 | N | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 44.0 | N | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 65.0 | S | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 70.0 | S | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 70.0 | S | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 70.0 | S | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 70.0 | S | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 112.0 | S | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 112.0 | S | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 116.0 | E | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 118.0 | E | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 119.0 | W | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 131.0 | W | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |

| Distance (m) | Direction | Sample Type | Arsenic (As) | Cadmium (Cd) | Chromium (Cr) | Nickel (Ni) | Lead (Pb) |
|---|---|---|---|---|---|---|---|
| 144.0 | NE | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 165.0 | W | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 168.0 | S | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 220.0 | SW | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 220.0 | SW | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 225.0 | NE | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 226.0 | E | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | 100 - 200 mg/kg |
| 230.0 | E | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |
| 250.0 | E | RuralSoil | <15 mg/kg | <1.8 mg/kg | 20 - 40 mg/kg | <15 mg/kg | 100 - 200 mg/kg |

*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

# 7 Railways and Tunnels Map

NW N NE




W E

SW S SE

**Railways and Tunnels Legend**

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© OpenStreetMapContributors

- Site Outline
- 250 / 500 Search Buffers (m)
- Underground or Partially Underground Railway / Subway System
- Railway Tunnel (OS Mapping)
- Abandoned or Dismantled Railway (OpenStreetMap)
- Railway Track (OS Mapping)
- Railway Track (OpenStreetMap)
- High Speed 2
- Crossrail 1
- Railway and/or Tunnel Feature from Historical Mapping

# 7 Railways and Tunnels

## 7.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary? No

Have any underground railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

*Any records that have been identified are represented on the Railways and Tunnels Map.*

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This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary? No

Have any other railway tunnels been identified within 250m of the site boundary? No

Database searched and no data found.

*Any records that have been identified are represented on the Railways and Tunnels Map.*

---

## 7.2 Historical Railway and Tunnel Features

This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary? Yes

Have any historical railway or tunnel features been identified within 250m of the study site boundary? Yes

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 1L | 0 | On Site | 653600 292735 | Railway Sidings | 1992 |
| 2 | 0 | On Site | 654270 292862 | Railway Sidings | 1992 |
| 3E | 0 | On Site | 653935 292510 | Railway Sidings | 1951 |
| 4H | 0 | On Site | 653954 293102 | Tramway Sidings | 1938 |
| 5O | 0 | On Site | 653862 292950 | Railway Sidings | 1904 |
| 6 | 0 | On Site | 653701 292677 | Railway Sidings | 1951 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 7AI | 0 | On Site | 653713 292910 | Railway Sidings | 1883 |
| 8 | 0 | On Site | 654397 292910 | Railway Sidings | 1946 |
| 9 | 0 | On Site | 653939 292334 | Railway Sidings | 1946 |
| 10A | 0 | On Site | 653537 292741 | Railway Sidings | 1982 |
| 11A | 0 | On Site | 653537 292741 | Railway Sidings | 1974 |
| 12B | 0 | On Site | 653433 292936 | Railway Sidings | 1951 |
| 13 | 0 | On Site | 653433 292936 | Railway Sidings | 1982 |
| 14B | 0 | On Site | 653433 292936 | Railway Sidings | 1974 |
| 15AG | 0 | On Site | 654501 292867 | Railway Sidings | 1904 |
| 16 | 0 | On Site | 653663 292946 | Railway Sidings | 1938 |
| 17 | 0 | On Site | 653895 292552 | Railway Sidings | 1938 |
| 28E | 0 | On Site | 653942 292496 | Railway Sidings | 1950 |
| 29F | 0 | On Site | 653956 292893 | Railway Sidings | 1986 |
| 30 | 0 | On Site | 654361 292488 | Railway Sidings | 1950 |
| 31F | 0 | On Site | 653956 292893 | Railway Sidings | 1990 |
| 32J | 0 | On Site | 653894 292951 | Railway Sidings | 1950 |
| 33Q | 0 | On Site | 653853 292928 | Railway Sidings | 1990 |
| 34G | 0 | On Site | 654250 292871 | Railway Sidings | 1966 |
| 35G | 0 | On Site | 654250 292871 | Railway Sidings | 1949 |
| 36H | 0 | On Site | 653972 293098 | Railway Sidings | 1949 |
| 37H | 0 | On Site | 653971 293098 | Railway Sidings | 1958 |
| 38I | 0 | On Site | 653945 292470 | Railway Sidings | 1950 |
| 39I | 0 | On Site | 653938 292468 | Railway Sidings | 1964 |
| 40E | 0 | On Site | 653939 292527 | Railway Sidings | 1949 |
| 41F | 0 | On Site | 653956 292893 | Railway Sidings | 1983 |
| 42D | 0 | On Site | 654394 292550 | Railway Sidings | 1950 |
| 43F | 0 | On Site | 653956 292893 | Railway Sidings | 1983 |
| 44K | 0 | On Site | 653917 292476 | Railway Sidings | 1950 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 45J | 0 | On Site | 653894 292951 | Railway Sidings | 1949 |
| 46J | 0 | On Site | 653911 292941 | Railway Sidings | 1964 |
| 47H | 0 | On Site | 653971 293098 | Railway Sidings | 1949 |
| 48K | 0 | On Site | 653942 292468 | Railway Sidings | 1964 |
| 49 | 0 | On Site | 654500 292826 | Railway Sidings | 1950 |
| 50 | 0 | On Site | 653891 292567 | Railway Sidings | 1950 |
| 51 | 0 | On Site | 653400 292688 | Railway Sidings | 1964 |
| 52 | 0 | On Site | 653867 292621 | Railway Sidings | 1949 |
| 53R | 0 | On Site | 653662 292711 | Railway Sidings | 1970 |
| 54K | 0 | On Site | 653917 292476 | Railway Sidings | 1964 |
| 55L | 0 | On Site | 653651 292722 | Railway Sidings | 1990 |
| 56L | 0 | On Site | 653651 292722 | Railway Sidings | 1986 |
| 57L | 0 | On Site | 653651 292722 | Railway Sidings | 1983 |
| 58L | 0 | On Site | 653651 292722 | Railway Sidings | 1983 |
| 59M | 0 | On Site | 653784 292885 | Railway Sidings | 1950 |
| 60M | 0 | On Site | 653784 292885 | Railway Sidings | 1964 |
| 61N | 0 | On Site | 653892 292831 | Railway Sidings | 1983 |
| 62N | 0 | On Site | 653892 292831 | Railway Sidings | 1986 |
| 63N | 0 | On Site | 653892 292831 | Railway Sidings | 1990 |
| 64N | 0 | On Site | 653892 292831 | Railway Sidings | 1983 |
| 65M | 0 | On Site | 653784 292886 | Railway Sidings | 1964 |
| 66M | 0 | On Site | 653784 292886 | Railway Sidings | 1949 |
| 67 | 0 | On Site | 653856 292842 | Railway Sidings | 1970 |
| 68 | 0 | On Site | 654327 292547 | Railway Sidings | 1883 |
| 69O | 0 | On Site | 653871 292954 | Railway Sidings | 1964 |
| 70 | 0 | On Site | 653986 292847 | Railway Sidings | 1904 |
| 71 | 0 | On Site | 653713 293033 | Railway Sidings | 1927 |
| 72 | 0 | On Site | 653838 292946 | Railway Sidings | 1904 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 73O | 0 | On Site | 653886 292949 | Railway Sidings | 1904 |
| 74P | 0 | On Site | 653695 293069 | Railway Sidings | 1949 |
| 75 | 0 | On Site | 654001 292808 | Railway Sidings | 1904 |
| 76P | 0 | On Site | 653705 293069 | Railway Sidings | 1949 |
| 77P | 0 | On Site | 653704 293069 | Railway Sidings | 1958 |
| 78L | 0 | On Site | 653652 292721 | Railway Sidings | 1993 |
| 79Q | 0 | On Site | 653849 292929 | Railway Sidings | 1993 |
| 80N | 0 | On Site | 653886 292834 | Railway Sidings | 1993 |
| 81 | 0 | On Site | 653897 292556 | Railway Sidings | 1927 |
| 82 | 0 | On Site | 653895 292514 | Railway Sidings | 1927 |
| 83R | 0 | On Site | 653662 292711 | Railway Sidings | 1964 |
| 84 | 0 | On Site | 654443 292427 | Railway Sidings | 1927 |
| 85 | 0 | On Site | 653873 292956 | Railway Sidings | 1927 |
| 86 | 0 | On Site | 654596 292884 | Railway Sidings | 1883 |
| 87P | 0 | On Site | 653692 293069 | Railway Sidings | 1961 |
| 88P | 0 | On Site | 653702 293069 | Railway Sidings | 1963 |
| 89S | 0 | On Site | 653719 293025 | Railway Sidings | 1971 |
| 90S | 0 | On Site | 653717 293025 | Railway Sidings | 1987 |
| 91U | 0 | On Site | 653862 293104 | Tramway Sidings | 1904 |
| 92 | 0 | W | 653322 293004 | Railway Sidings | 1927 |
| 93T | 2 | W | 653746 292905 | Railway Sidings | 1882 |
| 94T | 2 | W | 653811 292912 | Railway Sidings | 1904 |
| 95 | 5 | NE | 654402 292561 | Railway Sidings | 1949 |
| 96 | 5 | NE | 654402 292561 | Railway Sidings | 1966 |
| 97 | 15 | S | n/a | Railway | 1886 |
| 98 | 22 | W | 653517 292650 | Railway Sidings | 1927 |
| 99U | 31 | N | 653877 293127 | Tramway Sidings | 1927 |
| 100V | 37 | E | 654067 292791 | Railway Sidings | 1966 |
| 101V | 37 | E | 654067 292791 | Railway Sidings | 1949 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 18C | 38 | S | 653239 293062 | Railway Sidings | 1946 |
| 102W | 38 | S | 653670 292964 | Railway Sidings | 1983 |
| 103W | 38 | S | 653670 292964 | Railway Sidings | 1990 |
| 104W | 38 | S | 653670 292964 | Railway Sidings | 1983 |
| 105W | 38 | S | 653670 292964 | Railway Sidings | 1986 |
| 106Y | 39 | E | 654049 292796 | Railway Sidings | 1990 |
| 107X | 39 | S | 653201 293094 | Railway Sidings | 1958 |
| 108C | 39 | S | 653205 293092 | Railway Sidings | 1949 |
| 109X | 39 | S | 653201 293094 | Railway Sidings | 1963 |
| 110Y | 39 | E | 654052 292795 | Railway Sidings | 1993 |
| 111W | 39 | S | 653675 292965 | Railway Sidings | 1970 |
| 112W | 39 | S | 653676 292965 | Railway Sidings | 1993 |
| 19C | 42 | S | 653241 293053 | Railway Sidings | 1938 |
| 113Z | 51 | S | 653650 292937 | Tramway Sidings | 1950 |
| 114Z | 52 | S | 653664 292937 | Tramway Sidings | 1949 |
| 115A A | 53 | N | 653723 292744 | Railway Sidings | 1990 |
| 116A A | 53 | N | 653723 292744 | Railway Sidings | 1986 |
| 117A A | 53 | N | 653723 292744 | Railway Sidings | 1983 |
| 118A B | 54 | SE | 654346 292338 | Railway Sidings | 1950 |
| 119A B | 54 | SE | 654347 292338 | Railway Sidings | 1964 |
| 120A B | 54 | SE | 654347 292338 | Railway Sidings | 1950 |
| 20AE | 63 | SE | 654535 292547 | Railway Sidings | 1883 |
| 21D | 66 | SE | 654519 292551 | Railway Sidings | 1946 |
| 22D | 66 | SE | 654519 292551 | Railway Sidings | 1904 |
| 23 | 70 | SE | 654531 292556 | Railway Sidings | 1951 |
| 24D | 72 | E | 654528 292549 | Railway Sidings | 1938 |
| 25C | 83 | S | 653179 293082 | Railway Sidings | 1904 |
| 121 | 85 | SW | 653127 293092 | Railway Sidings | 1967 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 122 | 97 | S | 653191 293072 | Railway Sidings | 1904 |
| 123A C | 97 | S | 653351 292966 | Railway Sidings | 1949 |
| 124A C | 97 | S | 653345 292965 | Railway Sidings | 1950 |
| 125A C | 97 | S | 653340 292964 | Railway Sidings | 1957 |
| 126A C | 99 | S | 653351 292962 | Railway Sidings | 1964 |
| 26AF | 112 | W | 653510 292658 | Railway Sidings | 1951 |
| 127A D | 119 | S | 654096 292218 | Railway Sidings | 1950 |
| 128A D | 120 | S | 654095 292218 | Railway Sidings | 1950 |
| 129A D | 120 | S | 654095 292218 | Railway Sidings | 1964 |
| 130A E | 120 | E | 654518 292559 | Railway Sidings | 1968 |
| 131D | 121 | E | 654518 292583 | Railway Sidings | 1950 |
| 132 | 134 | SE | 654154 292772 | Railway Sidings | 1993 |
| 133A C | 153 | S | 653338 292964 | Railway Sidings | 1965 |
| 134 | 153 | W | 653118 293100 | Railway Sidings | 1976 |
| 135 | 154 | S | 653877 292179 | Railway Sidings | 1927 |
| 136A F | 158 | W | 653489 292655 | Railway Sidings | 1949 |
| 137A G | 166 | E | n/a | Railway | 1905 |
| 138 | 170 | NE | 654464 292664 | Railway Sidings | 1949 |
| 27AH | 178 | S | 653970 292084 | Railway Sidings | 1938 |
| 139 | 182 | NE | 654491 292635 | Railway Sidings | 1949 |
| 140A H | 185 | S | 653969 292081 | Railway Sidings | 1927 |
| 141A G | 187 | E | n/a | Railway | 1886 |
| 142 | 187 | E | 654526 292910 | Railway Sidings | 1904 |
| 143 | 205 | W | 653409 292716 | Railway Sidings | 1965 |
| 144 | 214 | NE | 654505 292660 | Railway Sidings | 1950 |
| 145AI | 224 | E | 654367 292843 | Railway Sidings | 1993 |
| 146AI | 236 | E | 654374 292844 | Railway Sidings | 1990 |
| 147AJ | 237 | S | 654020 292055 | Railway Sidings | 1950 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| 148AJ | 240 | S | 654020 292053 | Railway Sidings | 1950 |
| 149AJ | 240 | S | 654020 292053 | Railway Sidings | 1964 |

*Any records that have been identified are represented on the Railways and Tunnels Map.*

## 7.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary? Yes

Have any historical railway lines been identified within 250m of the study site boundary? Yes

| Distance (m) | Direction | Status |
|---|---|---|
| 0 | On Site | Dismantled |

Note: multiple sections of the same track may be listed in the detail above

*Any records that have been identified are represented on the Railways and Tunnels Map.*

## 7.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary? Yes

Have any active railway lines been identified within 250m of the study site boundary? Yes

| Distance (m) | Direction | Name | Type |
|---|---|---|---|
| 0 | On Site | Not given | Rail |
| 0 | On Site | Not given | Rail |
| 0 | On Site | Not given | Multi Track |
| 0 | On Site | Not given | Multi Track |
| 23 | W | Not given | Multi Track |
| 23 | W | Not given | Multi Track |
| 34 | S | Not given | Multi Track |

Note: multiple sections of the same track may be listed in the detail above
*Any records that have been identified are represented on the Railways and Tunnels Map.*

## 7.5 Railway Projects

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail 1 .

| | |
|---|---|
| Is the study site within 5km of the route of the High Speed 2 rail project? | No |
| Is the study site within 500m of the route of the Crossrail 1 rail project? | No |

*Further information on proximity to these routes, the project construction status and associated works can be obtained through the purchase of a Groundsure HS2 and Crossrail 1 Report.*

---

The route data has been digitised from publicly available maps by Groundsure. The route as provided relates to the Crossrail 1 project only, and does not include any details of the Crossrail 2 project, as final details of the route for Crossrail 2 are still under consultation.

# Contact Details

**CENTREMAPS**

**Telephone: 01886 832972**
**Groundsure@centremaps.co.uk**
**Open Space, Upper Interfields, Malvern, Worcester, WR14 1UT**

**British Geological Survey Enquiries**

Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:**enquiries@bgs.ac.uk**
Web:**www.bgs.ac.uk**
BGS Geological Hazards Reports and general geological enquiries

**British Gypsum**

British Gypsum Ltd
East Leake
Loughborough
Leicestershire
LE12 6HX

**The Coal Authority**

200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
**www.coal.gov.uk**

**Public Health England**

Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
**https://www.gov.uk/government/organisations/public-health-england**
Email: **enquiries@phe.gov.uk**
Main switchboard: 020 7654 8000

**Johnson Poole & Bloomer Limited**

Harris and Pearson Building, Brettel Lane
Brierley Hill, West Midlands
DY5 3LH
Tel: +44 (0) 1384 262 000
Email:**enquiries.gs@jpb.co.uk**
Website: **www.jpb.co.uk**

**Ordnance Survey**

Adanac Drive, Southampton
SO16 0AS

Tel: 08456 050505
**Website: http://www.ordnancesurvey.co.uk/**

**Getmapping PLC**

Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444
Website:**http://www1.getmapping.com/**

# Contact Details

**Peter Brett Associates**

Caversham Bridge House
Waterman Place
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Berkshire RG1 8DN
Tel: +44 (0)118 950 0761 E-mail:**reading@pba.co.uk**
Website:**http://www.peterbrett.com/home**

Acknowledgements: Ordnance Survey © Crown Copyright and/or Database Right. All Rights Reserved. Licence Number [03421028]. This report has been prepared in accordance with the Groundsure Ltd standard Terms and Conditions of business for work of this nature.

## Standard Terms and Conditions

### 1 Definitions

I**n these terms and conditions unless the context otherwise requires:**
**"Beneficiary" means the person or entity for whose benefit the Client has obtained the Services.**
**"Client"** means the party or parties entering into a Contract with Groundsure.
**"Commercial"** means any building or property which is not Residential.
**"Confidential Information"** means the contents of this Contract and all information received from the Client as a result of, or in connection with, this Contract other than
(i) information which the Client can prove was rightfully in its possession prior to disclosure by Groundsure and
(ii) any information which is in the public domain (other than by virtue of a breach of this Contract).
**"Support Services"** means Support Services provided by Groundsure including, without limitation, interpreting third party and in-house environmental data, providing environmental support advice, undertaking environmental audits and assessments, Site investigation, Site monitoring and related items.
**"Contract"** means the contract between Groundsure and the Client for the provision of the Services, and which shall incorporate these terms and conditions, the Order, and the relevant User Guide.
**"Third Party Data Provider"** means any third party providing Third Party Content to Groundsure.
**"Data Reports"** means reports comprising factual data with no accompanying interpretation.
**"Fees"** has the meaning set out in clause 5.1.
**"Groundsure"** means Groundsure Limited, a company registered in England and Wales under number 03421028.
**"Groundsure Materials"** means all materials prepared by Groundsure and provided as part of the Services, including but not limited to Third Party Content, Data Reports, Mapping, and Risk Screening Reports.
**"Intellectual Property"** means any patent, copyright, design rights, trade or service mark, moral rights, data protection rights, know-how or trade mark in each case whether registered or not and including applications for the same or any other rights of a similar nature anywhere in the world.
**"Mapping"** means a map, map data or a combination of historical maps of various ages, time periods and scales.
**"Order"** means an electronic, written or other order form submitted by the Client requesting Services from Groundsure in respect of a specified Site.
**"Ordnance Survey"** means the Secretary of State for Business, Innovation and Skills, acting through Ordnance Survey, Adanac Drive, Southampton, SO16 0AS, UK.
**"Order Website"** means the online platform through which Orders may be placed by the Client and accepted by Groundsure.
**"Report"** means a Risk Screening Report or Data Report for Commercial or Residential property.
**"Residential"** means any building or property used as or intended to be used as a single dwelling.
**"Risk Screening Report"** means a risk screening report comprising factual data with an accompanying interpretation by Groundsure.
**"Services"** means any Report, Mapping and/or Support Services which Groundsure has agreed to provide by accepting an Order pursuant to clause 2.6.
**"Site"** means the area of land in respect of which the Client has requested Groundsure to provide the Services.
**"Third Party Content"** means data, database information or other information which is provided to Groundsure by a Third Party Data Provider.
"User Guide" means the user guide, as amended from time to time, available upon request from Groundsure and on the website (www.Groundsure.com) and forming part of this Contract.

### 2 Scope of Services, terms and conditions, requests for insurance and quotations

2.1 Groundsure agrees to provide the Services in accordance with the Contract.
2.2 Groundsure shall exercise reasonable skill and care in the provision of the Services.
2.3 Subject to clause 7.3 the Client acknowledges that it has not relied on any statement or representation made by or on behalf of Groundsure which is not set out and expressly agreed in writing in the Contract and all such statements and representations are hereby excluded to the fullest extent permitted by law.
2.4 The Client acknowledges that terms and conditions appearing on a Client's order form, printed stationery or other communication, or any terms or conditions implied by custom, practice or course of dealing shall be of no effect, and that this Contract shall prevail over all others in relation to the Order.
2.5 If the Client or Beneficiary requests insurance in conjunction with or as a result of the Services, Groundsure shall use reasonable endeavours to recommend such insurance, but makes no warranty that such insurance shall be available from insurers or that it will be offered on reasonable terms. Any insurance purchased by the Client or Beneficiary shall be subject solely to the terms of the policy issued by insurers and Groundsure will have no liability therefor. In addition you acknowledge and agree that Groundsure does not act as an agent or broker for any insurance providers. The Client should take (and ensure that the Beneficiary takes) independent advice to ensure that the insurance policy requested or offered is suitable for its requirements.
2.6 Groundsure's quotations or proposals are valid for a period of 30 days only unless an alternative period of time is explicitly stipulated by Groundsure. Groundsure reserves the right to withdraw any quotation or proposal at any time before an Order is accepted by Groundsure. Groundsure's acceptance of an Order shall be binding only when made in writing and signed by Groundsure's authorised representative or when accepted through the Order Website.

### 3 The Client's obligations

3.1The Client shall comply with the terms of this Contract and
(i) procure that the Beneficiary or any third party relying on the Services complies with and acts as if it is bound by the Contract and
(ii) be liable to Groundsure for the acts and omissions of the Beneficiary or any third party relying on the Services as if such acts and omissions were those of the Client.
3.2 The Client shall be solely responsible for ensuring that the Services are appropriate and suitable for its and/or the Beneficiary's needs.
3.3 The Client shall supply to Groundsure as soon as practicable and without charge all requisite information (and the Client warrants that such information is accurate, complete and appropriate), including without limitation any environmental information relating to the Site and shall give such assistance as Groundsure shall reasonably require in the provision of the Services including, without limitation, access to the Site, facilities and equipment.
3.4 Where the Client's approval or decision is required to enable Groundsure to carry out work in order to provide the Services, such approval or decision shall be given or procured in reasonable time and so as not to delay or disrupt the performance of the Services.
3.5 Save as expressly permitted by this Contract the Client shall not, and shall procure that the Beneficiary shall not, re-sell, alter, add to, or amend the Groundsure Materials, or use the Groundsure Materials in a manner for which they were not intended. The Client may make the Groundsure Materials available to a third party who is considering acquiring some or all of, or providing funding in relation to, the Site, but such third party cannot rely on the same unless expressly permitted under clause 4.
3.6 The Client is responsible for maintaining the confidentiality of its user name and password if using the Order Website and the Client acknowledges that Groundsure accepts no liability of any kind for any loss or damage suffered by the Client as a consequence of using the Order Website.

### 4 Reliance

4.1The Client acknowledges that the Services provided by Groundsure consist of the presentation and analysis of Third Party Content and other content and that information obtained from a Third Party Data Provider cannot be guaranteed or warranted by Groundsure to be reliable.
4.2 In respect of Data Reports, Mapping and Risk Screening Reports, the following classes of person and no other are entitled to rely on their contents;
(i) the Beneficiary,
(ii) the Beneficiary's professional advisers, (iii) any person providing funding to the Beneficiary in relation to the Site (whether directly or as part of a lending syndicate),
(iv) the first purchaser or first tenant of the Site, and
(v) the professional advisers and lenders of the first purchaser or tenant of the Site.
4.3 In respect of Support Services, only the Client, Beneficiary and parties expressly named in a Report and no other parties are entitled to rely on its contents.
4.4 Save as set out in clauses 4.2 and 4.3 and unless otherwise expressly agreed in writing, no other person or entity of any kind is entitled to rely on any Services or Report issued or provided by Groundsure. Any party considering such Reports and Services does so at their own risk.

### 5 Fees and Disbursements

5.1Groundsure shall charge and the Client shall pay fees at the rate and frequency specified in the written proposal, Order Website or Order acknowledgement form, plus (in the case of Support Services) all proper disbursements incurred by Groundsure. The Client shall in addition pay all value added tax or other tax payable on such fees and disbursements in relation to the provision of the Services (together "Fees").
5.2 The Client shall pay all outstanding Fees to Groundsure in full without deduction, counterclaim or set off within 30 days of the date of Groundsure's invoice or such other period as may be agreed in writing between Groundsure and the Client ("Payment Date"). Interest on late payments will accrue on a daily basis from the Payment Date until the date of payment (whether before or after judgment) at the rate of 8% per annum.
5.3 The Client shall be deemed to have agreed the amount of any invoice unless an objection is made in writing within 28 days of the date of the invoice. As soon as reasonably practicable after being notified of an objection, without prejudice to clause 5.2 a member of Groundsure's management team will contact the Client and the parties shall then use all reasonable endeavours to resolve the dispute within 15 days.

### 6 Intellectual Property and Confidentiality

6.1 Subject to
(i) full payment of all relevant Fees and
(ii) compliance with this Contract, the Client is granted (and is permitted to sub-licence to the Beneficiary) a royalty-free, worldwide, non-assignable and (save to the extent set out in this Contract) non-transferable licence to make use of the Groundsure Materials.
6.2 All Intellectual Property in the Groundsure Materials are and shall remain owned by Groundsure or Groundsure's licensors (including without limitation the Third Party Data Providers) the Client acknowledges, and shall procure

acknowledgement by the Beneficiary of, such ownership. Nothing in this Contract purports to transfer or assign any rights to the Client or the Beneficiary in respect of such Intellectual Property.
6.3 Third Party Data Providers may enforce any breach of clauses 6.1 and 6.2 against the Client or Beneficiary.
6.4 The Client shall, and shall procure that any recipients of the Groundsure Materials shall:

(i) not remove, suppress or modify any trade mark, copyright or other proprietary marking belonging to Groundsure or any third party from the Services;

(ii) use the information obtained as part of the Services in respect of the subject Site only, and shall not store or reuse any information obtained as part of the Services provided in respect of adjacent or nearby sites;

(iii) not create any product or report which is derived directly or indirectly from the Services (save that those acting in a professional capacity to the Beneficiary may provide advice based upon the Services);

(iv) not combine the Services with or incorporate such Services into any other information data or service;

(v) not reformat or otherwise change (whether by modification, addition or enhancement), the Services (save that those acting for the Beneficiary in a professional capacity shall not be in breach of this clause 6.4(v) where such reformatting is in the normal course of providing advice based upon the Services);

(vi) where a Report and/or Mapping contains material belonging to Ordnance Survey, acknowledge and agree that such content is protected by Crown Copyright and shall not use such content for any purpose outside of receiving the Services; and

(vii) not copy in whole or in part by any means any map prints or run-on copies containing content belonging to Ordnance Survey (other than that contained within Ordnance Survey's OS Street Map) without first being in possession of a valid Paper Map Copying Licence from Ordnance Survey,

6.5 Notwithstanding clause 6.4, the Client may make reasonable use of the Groundsure Materials in order to advise the Beneficiary in a professional capacity. However, Groundsure shall have no liability in respect of any advice, opinion or report given or provided to Beneficiaries by the Client.
6.6 The Client shall procure that any person to whom the Services are made available shall notify Groundsure of any request or requirement to disclose, publish or disseminate any information contained in the Services in accordance with the Freedom of Information Act 2000, the Environmental Information Regulations 2004 or any associated legislation or regulations in force from time to time.

**7.Liability: Particular Attention Should Be Paid To This Clause**

7.1 This Clause 7 sets out the entire liability of Groundsure, including any liability for the acts or omissions of its employees, agents, consultants, subcontractors and Third Party Content, in respect of:

(i) any breach of contract, including any deliberate breach of the Contract by Groundsure or its employees, agents or subcontractors;

(ii) any use made of the Reports, Services, Materials or any part of them; and

(iii) any representation, statement or tortious act or omission (including negligence) arising under or in connection with the Contract.

7.2 All warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.
7.3 Nothing in the Contract limits or excludes the liability of the Supplier for death or personal injury resulting from negligence, or for any damage or liability incurred by the Client or Beneficiary as a result of fraud or fraudulent misrepresentation.
7.4 Groundsure shall not be liable for

(i) loss of profits;
(ii) loss of business;
(iii) depletion of goodwill and/or similar losses;
(iv) loss of anticipated savings;
(v) loss of goods;
(vi) loss of contract;
(vii) loss of use;
(viii) loss or corruption of data or information;
(ix) business interruption;
(x) any kind of special, indirect, consequential or pure economic loss, costs, damages, charges or expenses;
(xi) loss or damage that arise as a result of the use of all or part of the Groundsure Materials in breach of the Contract;
(xii) loss or damage arising as a result of any error, omission or inaccuracy in any part of the Groundsure Materials where such error, omission or inaccuracy is caused by any Third Party Content or any reasonable interpretation of Third Party Content;
(xiii) loss or damage to a computer, software, modem, telephone or other property; and
(xiv) loss or damage caused by a delay or loss of use of Groundsure's internet ordering service.

7.5 Groundsure's total liability in relation to or under the Contract shall be limited to £10 million for any claim or claims.
7.6 Groundsure shall procure that the Beneficiary shall be bound by limitations and exclusions of liability in favour of Groundsure which accord with those detailed in clauses 7.4 and 7.5 (subject to clause 7.3) in respect of all claims which the Beneficiary may bring against Groundsure in relation to the Services or other matters arising pursuant to the Contract.

**8 Groundsure's right to suspend or terminate**

8.1 If Groundsure reasonably believes that the Client or Beneficiary has not provided the information or assistance required to enable the proper provision of the Services, Groundsure shall be entitled to suspend all further performance of the Services until such time as any such deficiency has been made good.
8.2 Groundsure shall be entitled to terminate the Contract immediately on written notice in the event that:

(i) the Client fails to pay any sum due to Groundsure within 30 days of the Payment Date; or

(ii) the Client (being an individual) has a bankruptcy order made against him or (being a company) shall enter into liquidation whether compulsory or voluntary or have an administration order made against it or if a receiver shall be appointed over the whole or any part of its property assets or undertaking or if the Client is struck off the Register of Companies or dissolved; or

(iii) the Client being a company is unable to pay its debts within the meaning of Section 123 of the Insolvency Act 1986 or being an individual appears unable to pay his debts within the meaning of Section 268 of the Insolvency Act 1986 or if the Client shall enter into a composition or arrangement with the Client's creditors or shall suffer distress or execution to be levied on his goods; or

(iv) the Client or the Beneficiary breaches any term of the Contract (including, but not limited to, the obligations in clause 4) which is incapable of remedy or if remediable, is not remedied within five days of notice of the breach.

**9. Client's Right to Terminate and Suspend**

9.1 Subject to clause 10.1, the Client may at any time upon written notice terminate or suspend the provision of all or any of the Services.
9.2 In any event, where the Client is a consumer (and not a business) he/she hereby expressly acknowledges and agrees that:

(i) the supply of Services under this Contract (and therefore the performance of this Contract) commences immediately upon Groundsure's acceptance of the Order; and

(ii) the Reports and/or Mapping provided under this Contract are

(a) supplied to the Client's specification(s) and in any event
(b) by their nature cannot be returned.

**10 Consequences of Withdrawal, Termination or Suspension**

10.1 Upon termination of the Contract:

(i) Groundsure shall take steps to bring to an end the Services in an orderly manner, vacate any Site with all reasonable speed and shall deliver to the Client and/or Beneficiary any property of the Client and/or Beneficiary in Groundsure's possession or control; and

(ii) the Client shall pay to Groundsure all and any Fees payable in respect of the performance of the Services up to the date of termination or suspension. In respect of any Support Services provided, the Client shall also pay Groundsure any additional costs incurred in relation to the termination or suspension of the Contract.

**11 Anti-Bribery**

11.1 The Client warrants that it shall:

(i) comply with all applicable laws, statutes and regulations relating to anti-bribery and anti-corruption including but not limited to the Bribery Act 2010;

(ii) comply with such of Groundsure's anti-bribery and anti-corruption policies as are notified to the Client from time to time; and

(iii) promptly report to Groundsure any request or demand for any undue financial or other advantage of any kind received by or on behalf of the Client in connection with the performance of this Contract.

11.2 Breach of this Clause 11 shall be deemed a material breach of this Contract.

**12 General**

12.1 The Mapping contained in the Services is protected by Crown copyright and must not be used for any purpose other than as part of the Services or as specifically provided in the Contract.
12.2 The Client shall be permitted to make one copy only of each Report or Mapping Order. Thereafter the Client shall be entitled to make unlimited copies of the Report or Mapping Order only in accordance with an Ordnance Survey paper map copy license available through Groundsure.
12.3 Groundsure reserves the right to amend or vary this Contract. No amendment or variation to this Contract shall be valid unless signed by an authorised representative of Groundsure.
12.4 No failure on the part of Groundsure to exercise, and no delay in exercising, any right, power or provision under this Contract shall operate as a waiver thereof.
12.5 Save as expressly provided in this Contract, no person other than the persons set out therein shall have any right under the Contract (Rights of Third Parties) Act 1999 to enforce any terms of the Contract.
12.6 The Secretary of State for Business, Innovation and Skills ("BIS") or BIS' successor body, as the case may be, acting through Ordnance Survey may enforce a breach of clause 6.4(vi) and clause 6.4(vii) of these terms and conditions against the Client in accordance with the provisions of the Contracts (Rights of Third Parties) Act 1999.
12.7 Groundsure shall not be liable to the Client if the provision of the Services is delayed or prevented by one or more of the following circumstances:

(i) the Client or Beneficiary's failure to provide facilities, access or information;
(ii) fire, storm, flood, tempest or epidemic;
(iii) Acts of God or the public enemy;
(iv) riot, civil commotion or war;
(v) strikes, labour disputes or industrial action;
(vi) acts or regulations of any governmental or other agency;
(vii) suspension or delay of services at public registries by Third Party Data Providers;
(viii) changes in law; or
(ix) any other reason beyond Groundsure's reasonable control.

In the event that Groundsure is prevented from performing the Services (or any part thereof) in accordance with this clause 12.6 for a period of not less than 30 days then Groundsure shall be entitled to terminate this Contract immediately on written notice to the Client.

12.8 Any notice provided shall be in writing and shall be deemed to be properly given if delivered by hand or sent by first class post, facsimile or by email to the address, facsimile number or email address of the relevant party as may have been notified by each party to the other for such purpose or in the absence of such notification the last known address.

12.9 Such notice shall be deemed to have been received on the day of delivery if delivered by hand, facsimile or email (save to the extent such day is not a working day where it shall be deemed to have been delivered on the next working day) and on the second working day after the day of posting if sent by first class post.

12.10 The Contract constitutes the entire agreement between the parties and shall supersede all previous arrangements between the parties relating to the subject matter hereof.

12.11 Each of the provisions of the Contract is severable and distinct from the others and if one or more provisions is or should become invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions shall not in any way be tainted or impaired.

12.12 This Contract shall be governed by and construed in accordance with English law and any proceedings arising out of or connected with this Contract shall be subject to the exclusive jurisdiction of the English courts.

12.13 Groundsure is an executive member of the Council of Property Search Organisation (CoPSO) and has signed up to the Search Code administered by the Property Codes Compliance Board (PCCB). All Risk Screening Reports shall be supplied in accordance with the provisions of the Search Code.

12.14 If the Client or Beneficiary has a complaint about the Services, written notice should be given to the Compliance Officer at Groundsure who will respond in a timely manner. In the event you are not satisfied with Groundsure's complaints handling process or you are unable to resolve the complaint, at your discretion you may refer the complaint to The Property Ombudsman Scheme at the following URL/email: website www.tpos.co.uk or email: admin@tpos.co.uk

12.15 The Client agrees that it shall, and shall procure that each Beneficiary shall, treat in confidence all Confidential Information and shall not, and shall procure that each Beneficiary shall not (i) disclose any Confidential Information to any third party other than in accordance with the terms of this Contract; and (ii) use Confidential Information for a purpose other than the exercise of its rights and obligations under this Contract. Subject to clause 6.6, nothing shall prevent the Client or any Beneficiary from disclosing Confidential Information to the extent
required by law

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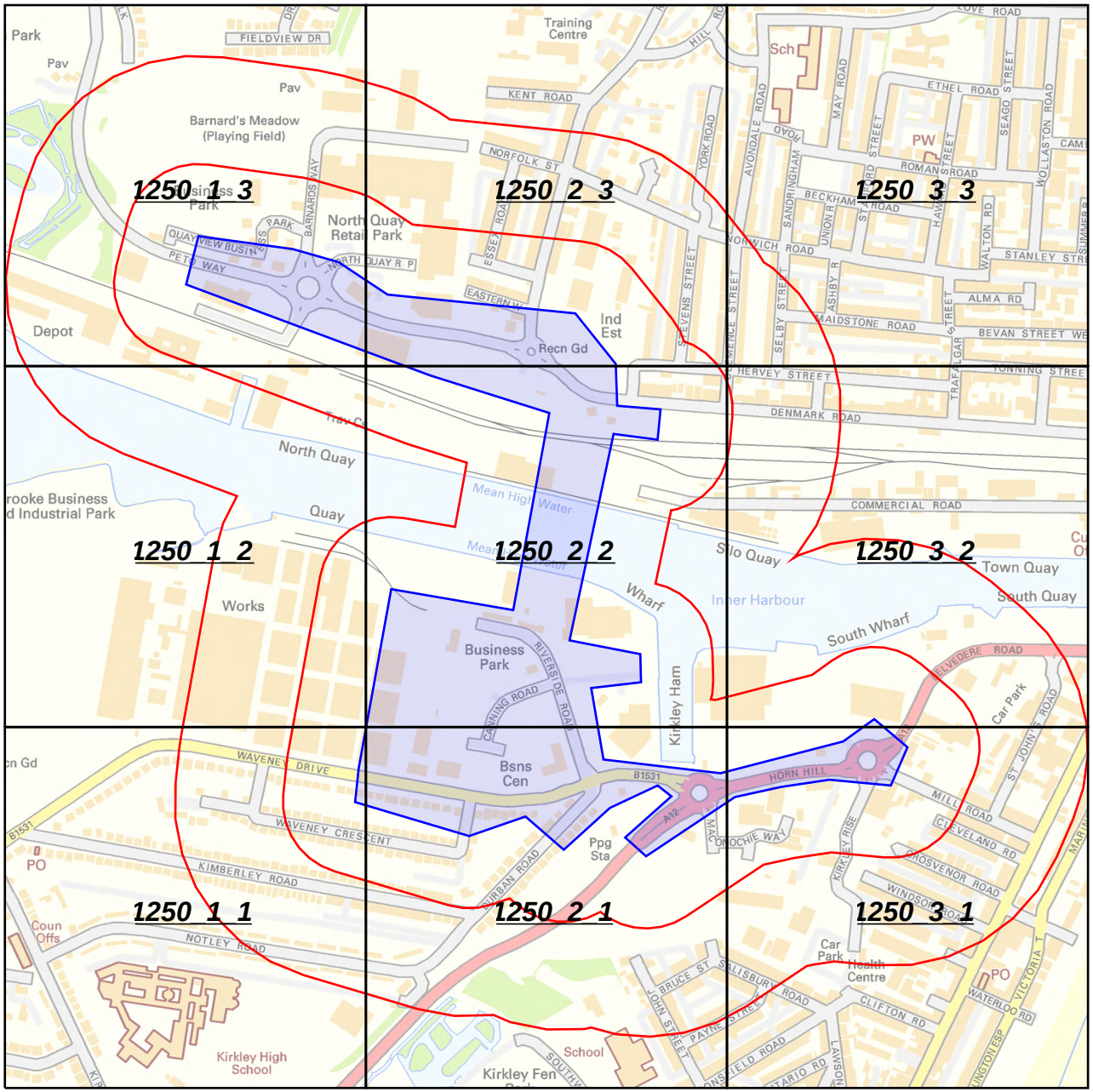


Groundsure INSIGHTS

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**1:1250 Scale Grid Index**

CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292255

**Map Name:** National Grid

**Map date:** **1949-1950**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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|---|---|
| Surveyed 1949<br>Revised 1949<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 | Surveyed 1949<br>Revised 1949<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 |
| Surveyed 1950<br>Revised 1950<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 | Surveyed 1950<br>Revised 1950<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 |

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www.centremapslive.com
groundsure@centremaps.com

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Production date: 08 June 2016

To view map legend click here *Legend*

CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292255

**Map Name:** National Grid

**Map date:** **1950-1953**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1950
Revised 1953
Edition N/A
Copyright N/A
Levelled 1947

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Production date: 08 June 2016

To view map legend click here *Legend*

CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292255

**Map Name:** National Grid

**Map date:** **1957-1960**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed 1949
Revised 1957
Edition N/A
Copyright N/A
Levelled 1947

Surveyed 1950
Revised 1959
Edition N/A
Copyright 1960
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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292255

**Map Name:** National Grid

**Map date:** **1964-1965**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed 1949
Revised 1965
Edition N/A
Copyright 1965
Levelled 1958

Surveyed 1949
Revised 1964
Edition N/A
Copyright 1964
Levelled 1958

Surveyed 1964
Revised 1964
Edition N/A
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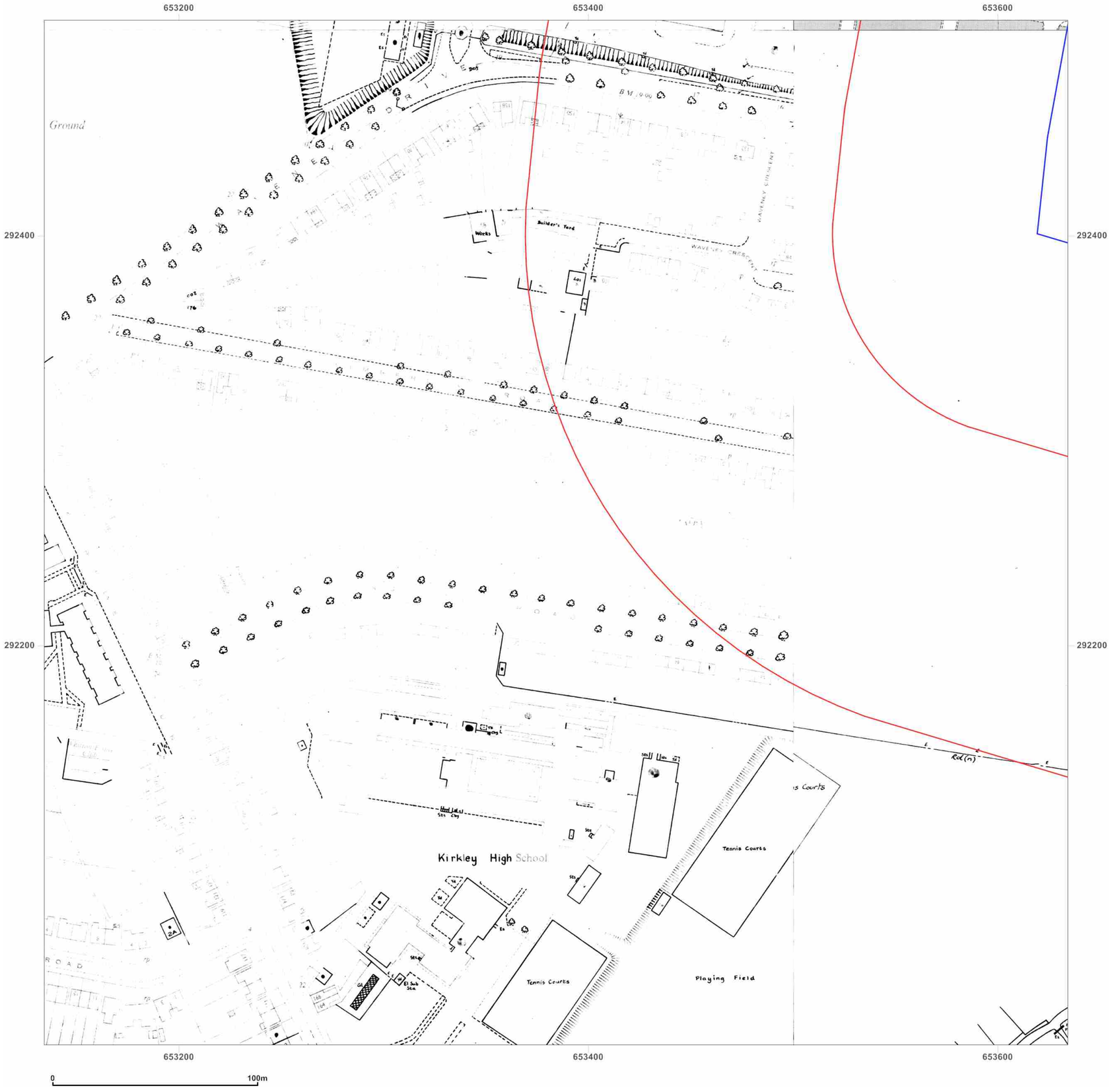


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FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292255

**Map Name:** National Grid
**Map date:** **1970-1974**
**Scale:** 1:1,250
**Printed at:** 1:2,000

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|---|---|
| Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1974<br>Levelled N/A | Surveyed 1949<br>Revised 1970<br>Edition N/A<br>Copyright 1970<br>Levelled 1958 |
| Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1974<br>Levelled N/A | Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1974<br>Levelled N/A |

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292255

**Map Name:** National Grid

**Map date:** **1974-1976**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1974
Levelled N/A

| | |
|---|---|
| Surveyed 1950<br>Revised 1975<br>Edition N/A<br>Copyright 1976<br>Levelled 1958 | Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1976<br>Levelled N/A |

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292255

**Map Name:** National Grid

**Map date:** **1980-1985**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1980
Levelled 1958

Surveyed 1978
Revised 1983
Edition N/A
Copyright 1983
Levelled 1978

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1985
Levelled 1958

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292255

**Map Name:** National Grid

**Map date:** **1983-1987**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed 1978
Revised 1983
Edition N/A
Copyright 1983
Levelled 1978

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Revised 1987
Edition N/A
Copyright 1987
Levelled 1958

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Revised 1987
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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292255

**Map Name:** National Grid

**Map date:** **1990-1993**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
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Surveyed 1958
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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292255

**Map Name:** National Grid

**Map date:** **1993**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Levelled N/A

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292755

**Map Name:** National Grid

**Map date:** **1949-1950**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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|---|---|
| Surveyed 1949<br>Revised 1950<br>Edition N/A<br>Copyright 1950<br>Levelled 1947 | Surveyed 1949<br>Revised 1949<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 |
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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292755

**Map Name:** National Grid

**Map date:** **1957-1961**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
W E
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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292755

**Map Name:** National Grid

**Map date:** **1964-1967**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed 1949
Revised 1966
Edition N/A
Copyright 1967
Levelled 1959

Surveyed 1949
Revised 1965
Edition N/A
Copyright 1965
Levelled 1958

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Revised 1964
Edition N/A
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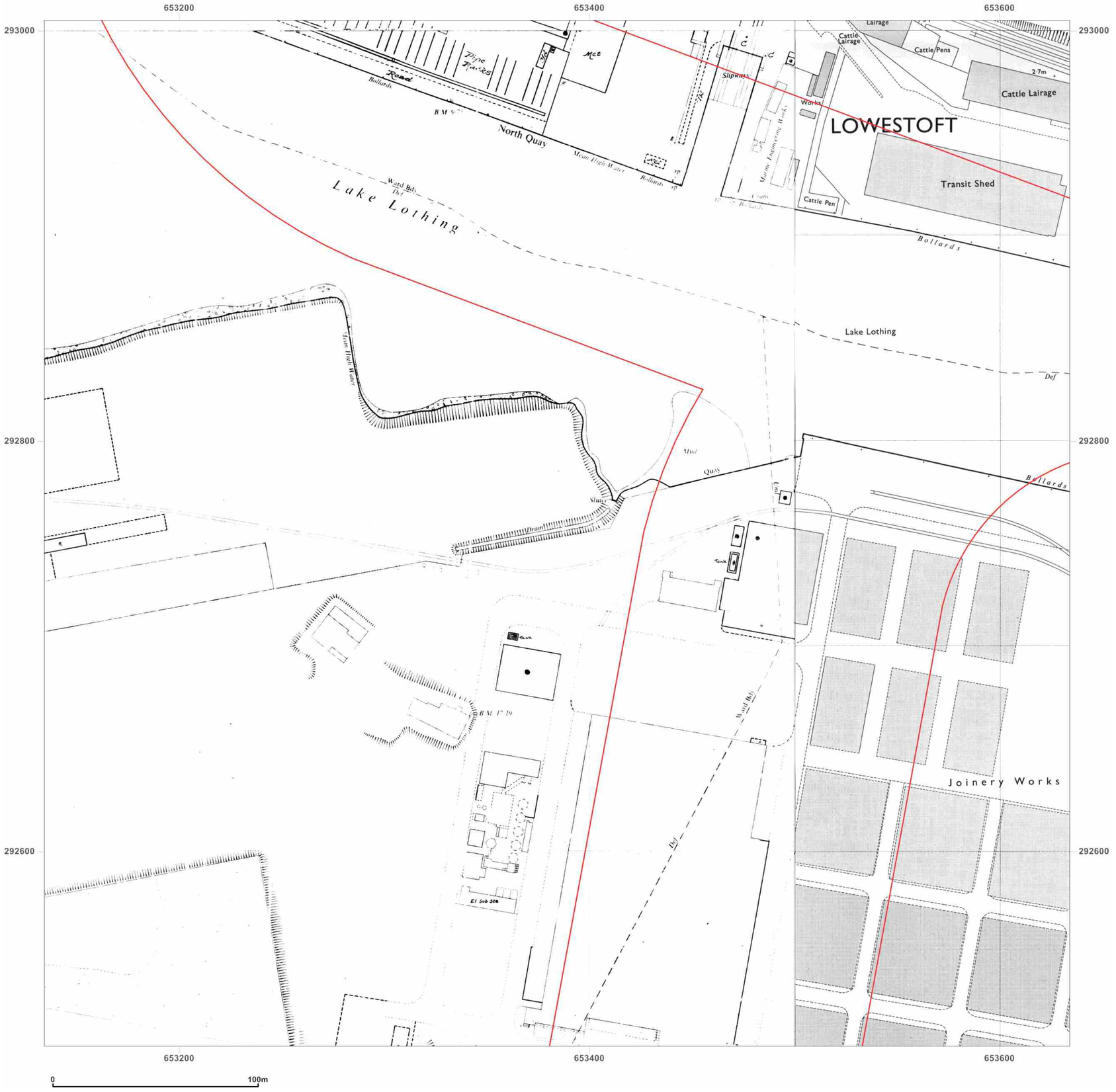


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292755

**Map Name:** National Grid

**Map date:** **1970-1974**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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|---|---|
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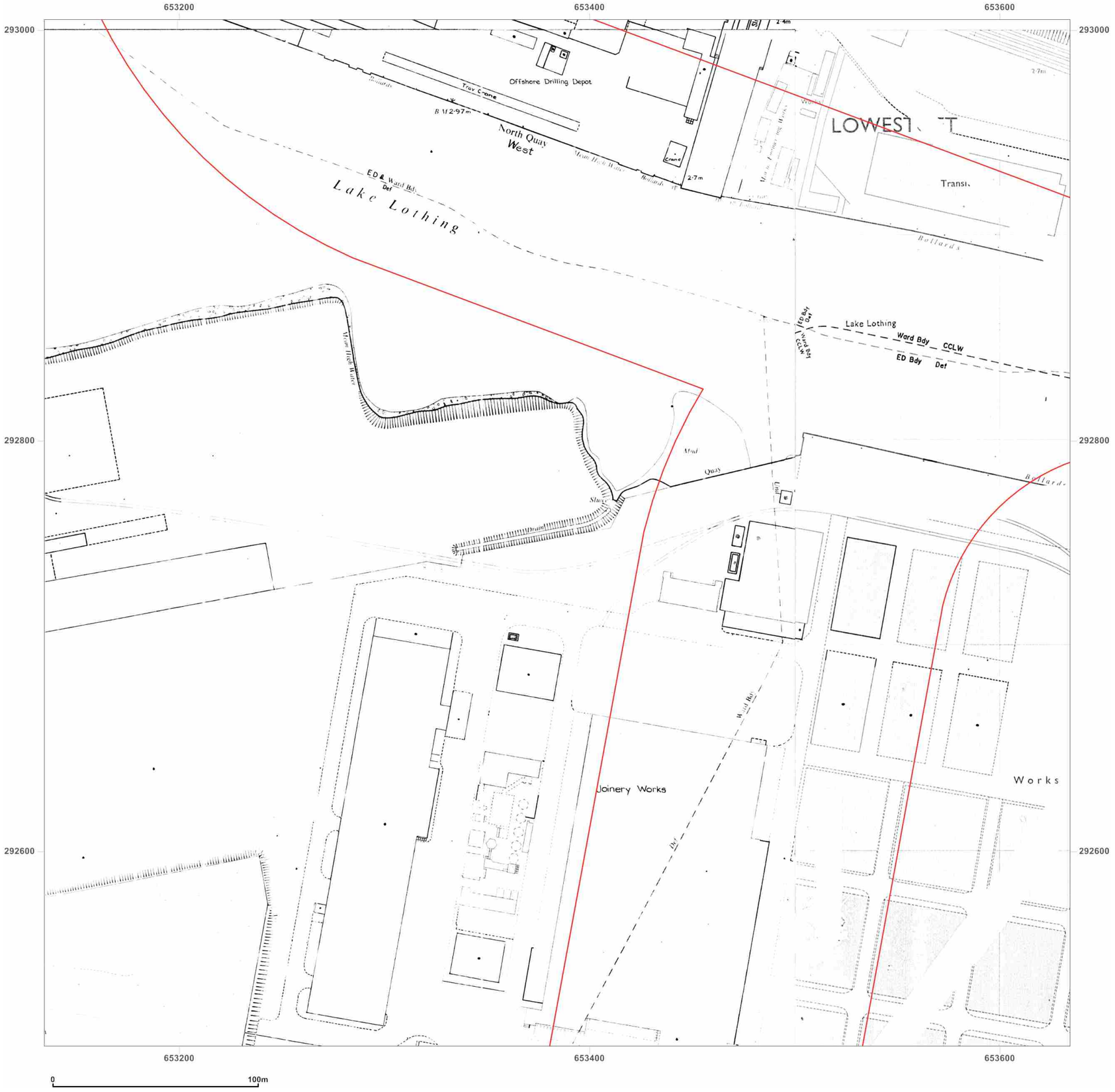


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292755

**Map Name:** National Grid

**Map date:** **1980-1984**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed 1959
Revised 1984
Edition N/A
Copyright 1984
Levelled 1959

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1980
Levelled 1958

Surveyed 1978
Revised 1983
Edition N/A
Copyright 1983
Levelled 1978

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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292755

**Map Name:** National Grid

**Map date:** **1986-1991**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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|---|---|
| Surveyed N/A<br>Revised 1991<br>Edition N/A<br>Copyright 1991<br>Levelled 1958 | Surveyed 1958<br>Revised 1987<br>Edition N/A<br>Copyright 1987<br>Levelled 1958 |
| Surveyed 1958<br>Revised 1990<br>Edition N/A<br>Copyright 1990<br>Levelled 1958 | Surveyed 1958<br>Revised 1986<br>Edition N/A<br>Copyright 1986<br>Levelled 1958 |

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292755

**Map Name:** National Grid

**Map date:** **1990-1993**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

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Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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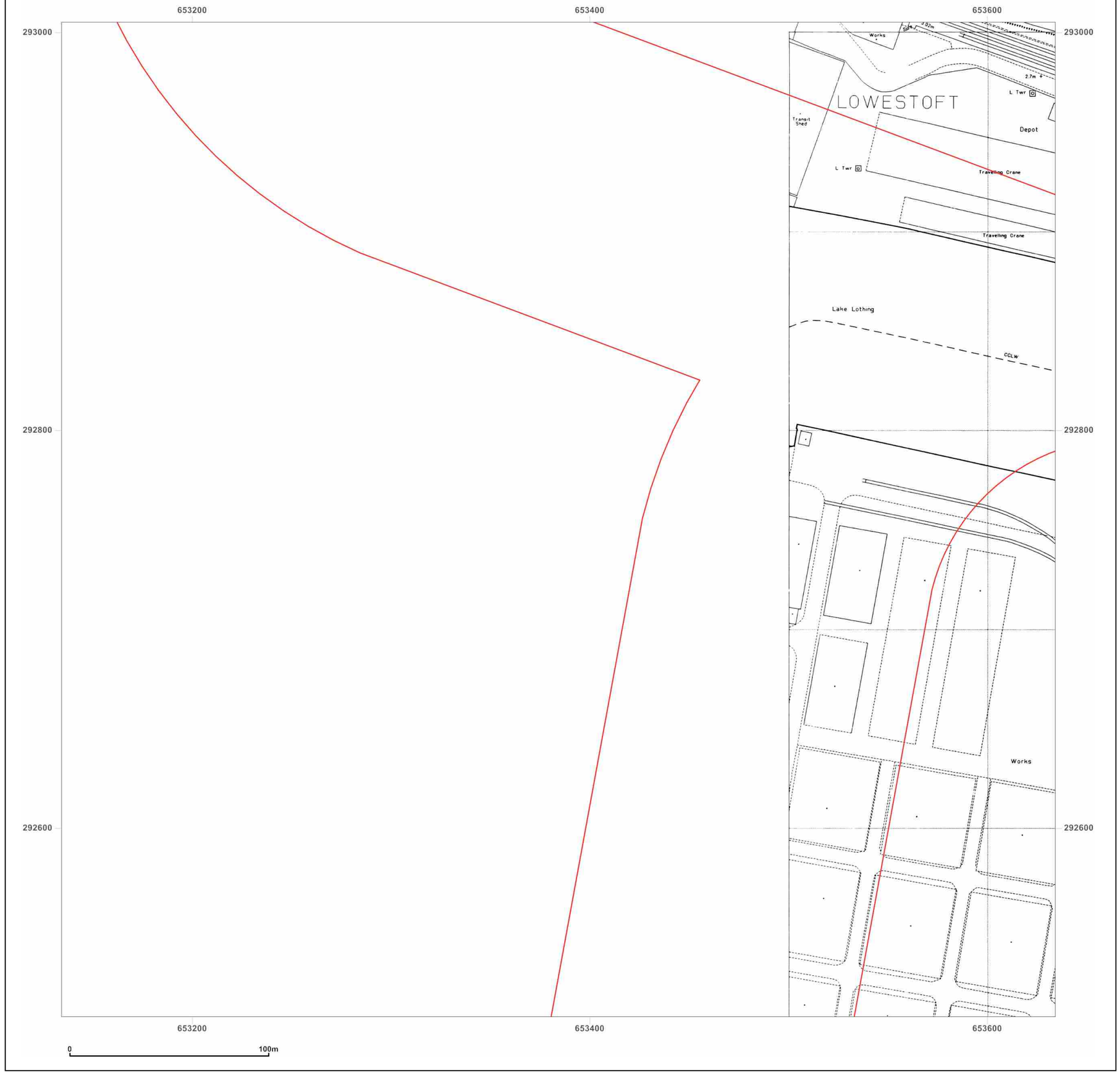


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 292755

**Map Name:** National Grid
**Map date:** **1993**
**Scale:** 1:1,250
**Printed at:** 1:2,000

N
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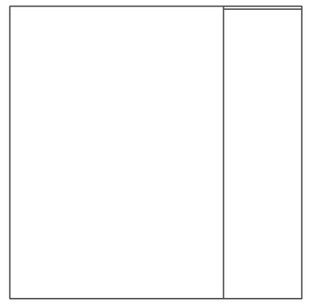
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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Edition N/A
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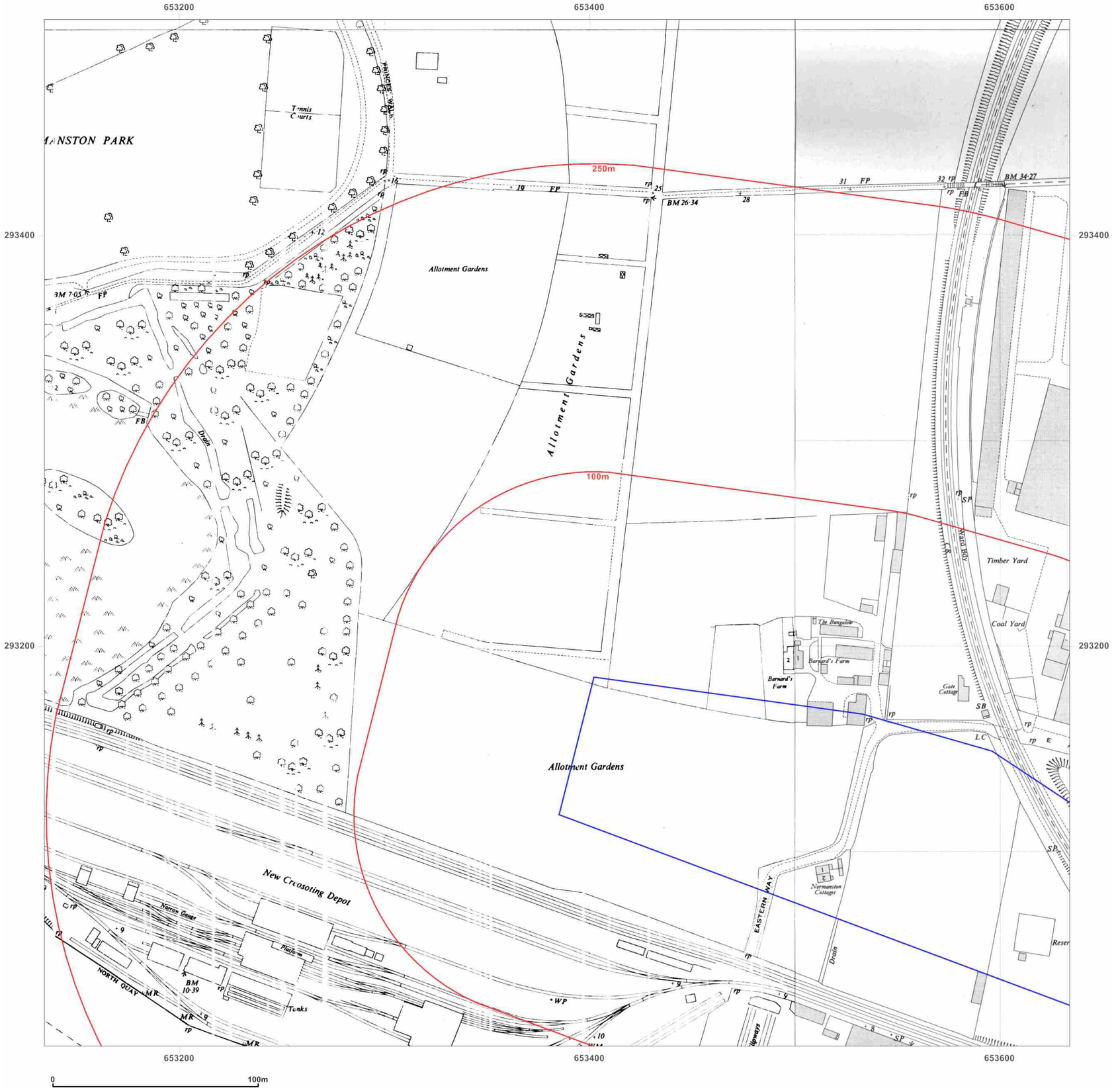


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 293255

**Map Name:** National Grid

**Map date:** **1949-1950**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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|---|---|
| Surveyed 1949<br>Revised 1949<br>Edition N/A<br>Copyright N/A<br>Levelled 1946 | Surveyed 1949<br>Revised 1949<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 |
| Surveyed 1949<br>Revised 1950<br>Edition N/A<br>Copyright 1950<br>Levelled 1947 | Surveyed 1949<br>Revised 1949<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 |

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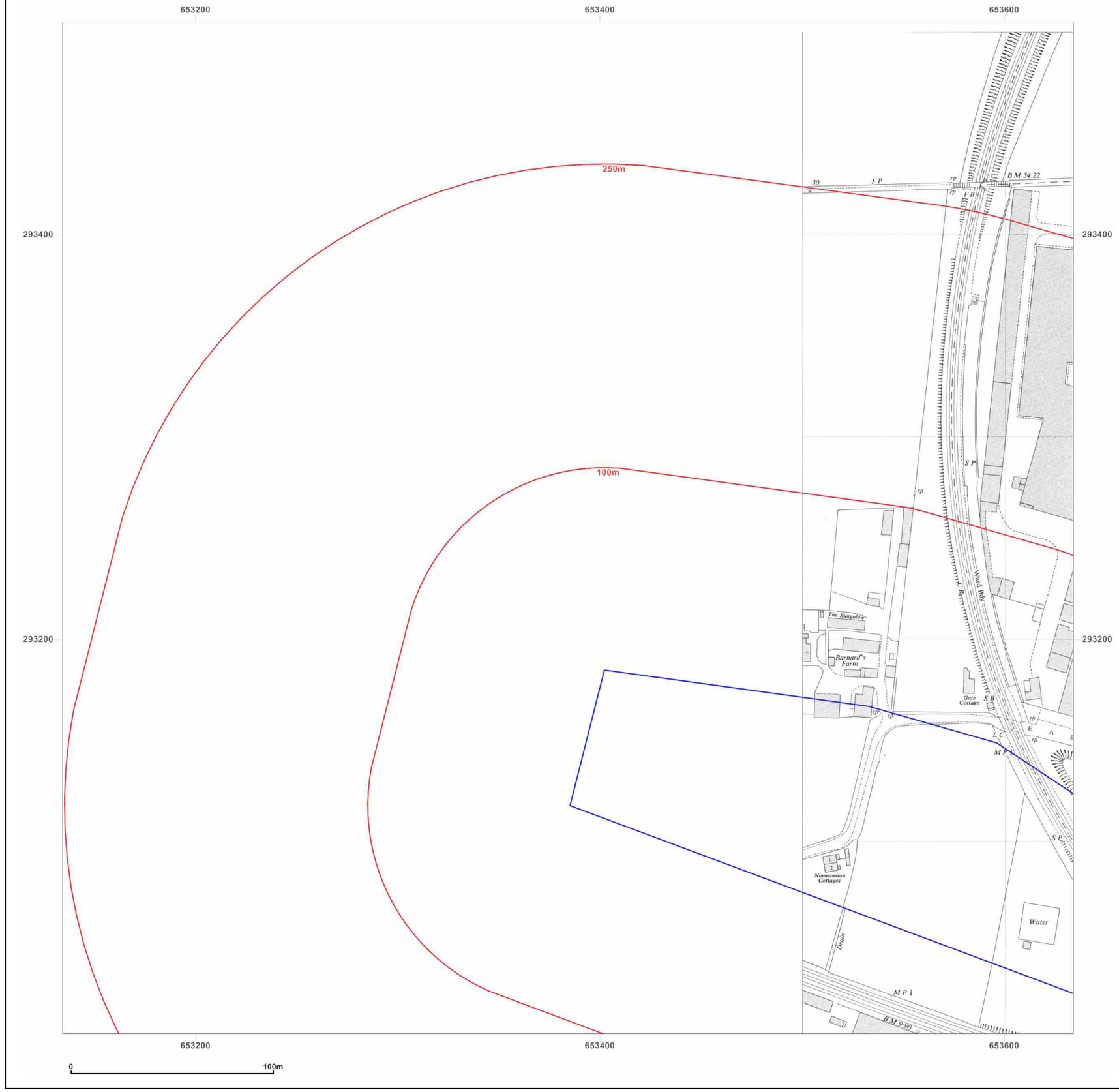


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 293255

**Map Name:** National Grid

**Map date:** **1961**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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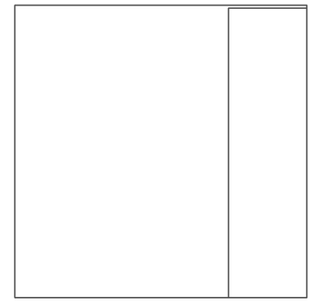

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 293255

**Map Name:** National Grid

**Map date:** **1967-1971**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed 1949
Revised 1971
Edition N/A
Copyright 1971
Levelled 1958

Surveyed 1949
Revised 1968
Edition N/A
Copyright 1969
Levelled 1958

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Revised 1966
Edition N/A
Copyright 1967
Levelled 1959

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653200
653400
653600
293400
293200
250m
100m
Fieldview Drive
Fieldview Drive
Tennis Courts
Playing Field
Pavilion
Disused Railway
Barnard's Farm
El Sub Sta
Bungalow
Pond
Pond
Pond

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Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 293255

**Map Name:** National Grid

**Map date:** **1974-1976**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 293255

**Map Name:** National Grid

**Map date:** **1984**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 293255

**Map Name:** National Grid

**Map date:** **1987-1991**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Revised 1989
Edition N/A
Copyright 1989
Levelled 1958

Surveyed 1990
Revised 1990
Edition N/A
Copyright 1990
Levelled N/A

Surveyed N/A
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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 293255

**Map Name:** National Grid
**Map date:** **1990-1993**
**Scale:** 1:1,250
**Printed at:** 1:2,000

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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653384, 293255

**Map Name:** National Grid

**Map date:** **1990-1993**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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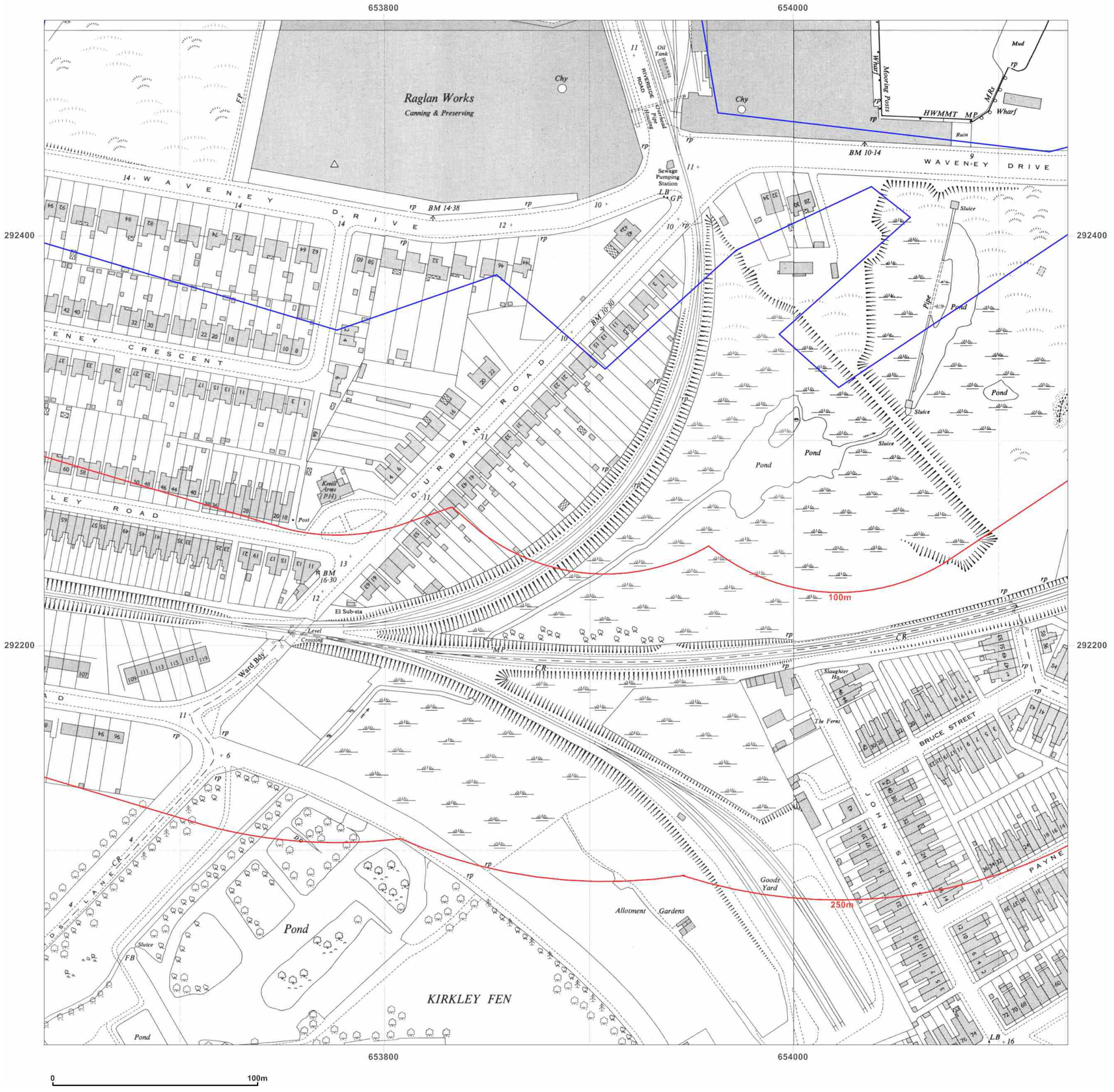


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292255

**Map Name:** National Grid

**Map date:** **1949-1950**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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| Surveyed 1950<br>Revised 1950<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 | Surveyed 1950<br>Revised 1950<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 |

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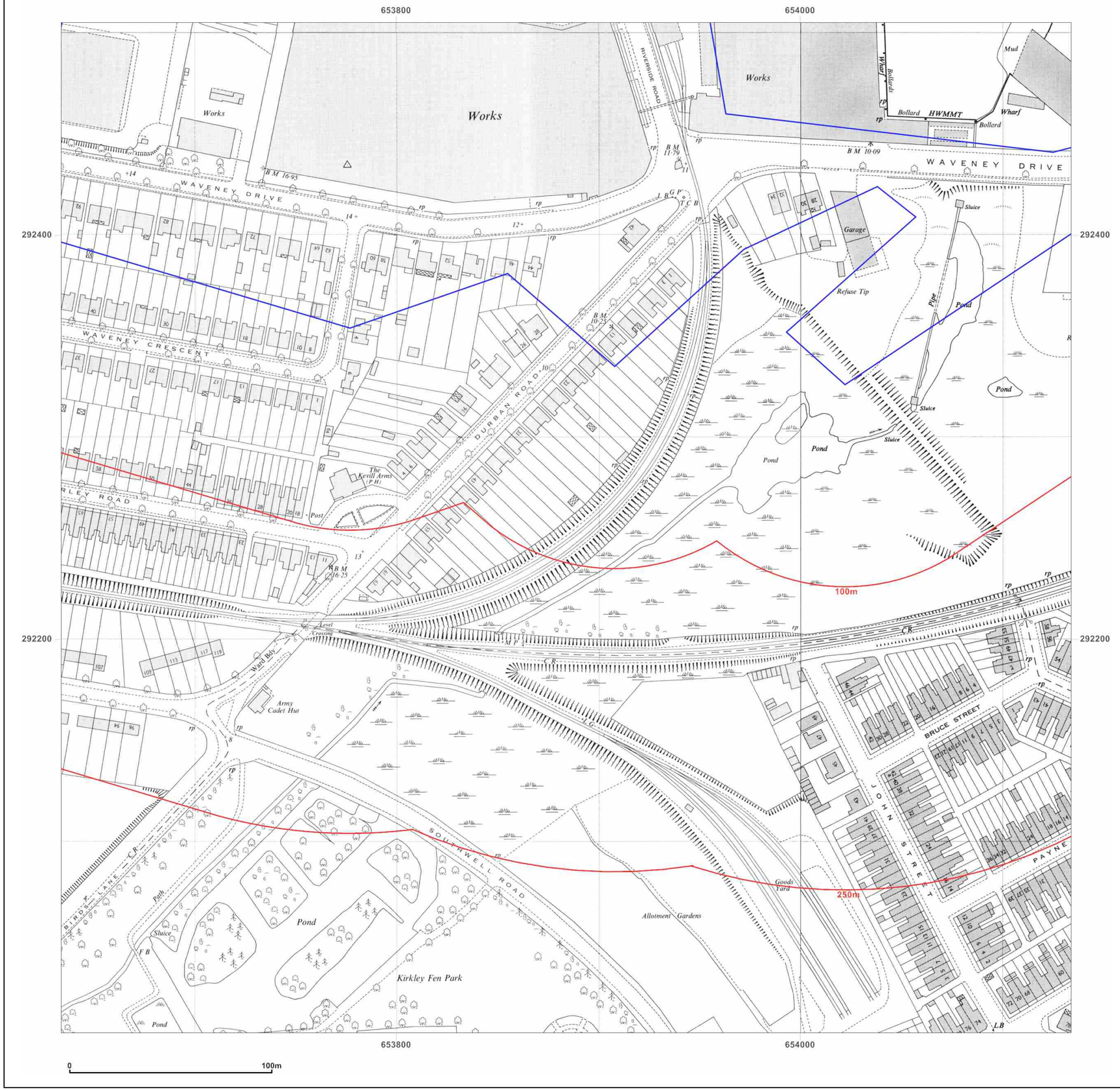


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292255

**Map Name:** National Grid

**Map date:** **1964-1966**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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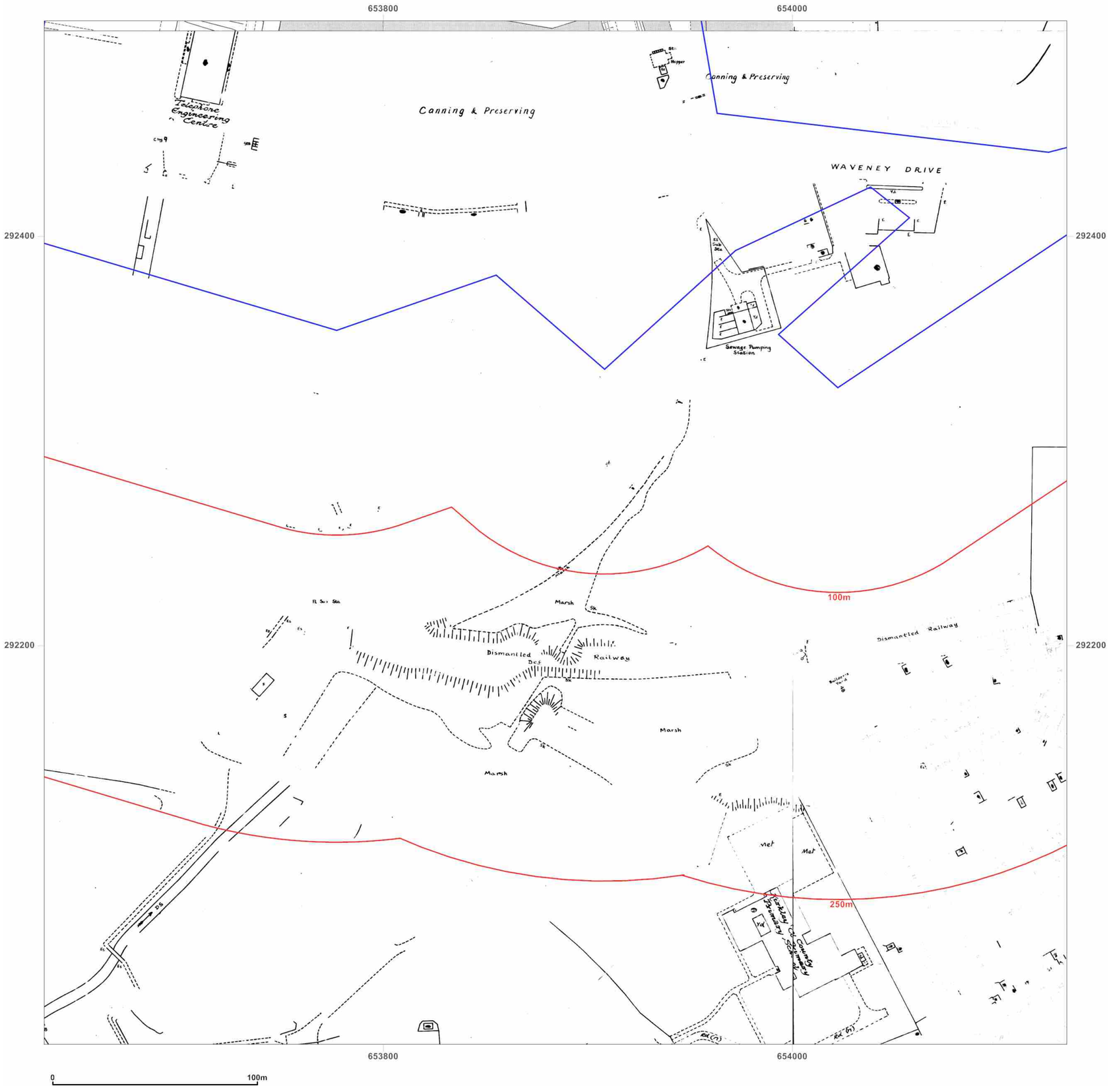


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292255

**Map Name:** National Grid

**Map date:** **1970-1974**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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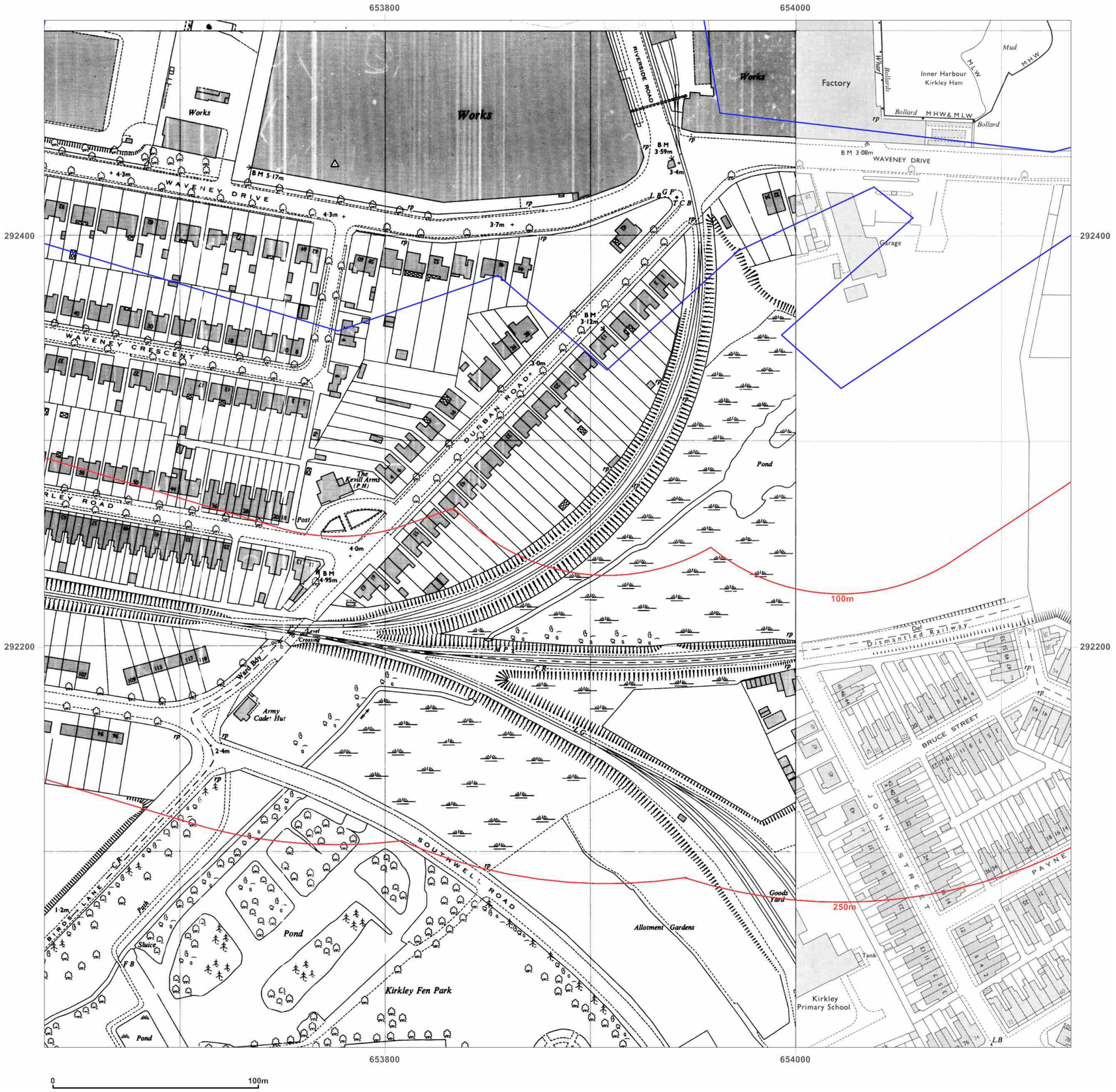


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292255

**Map Name:** National Grid
**Map date:** **1974-1976**
**Scale:** 1:1,250
**Printed at:** 1:2,000

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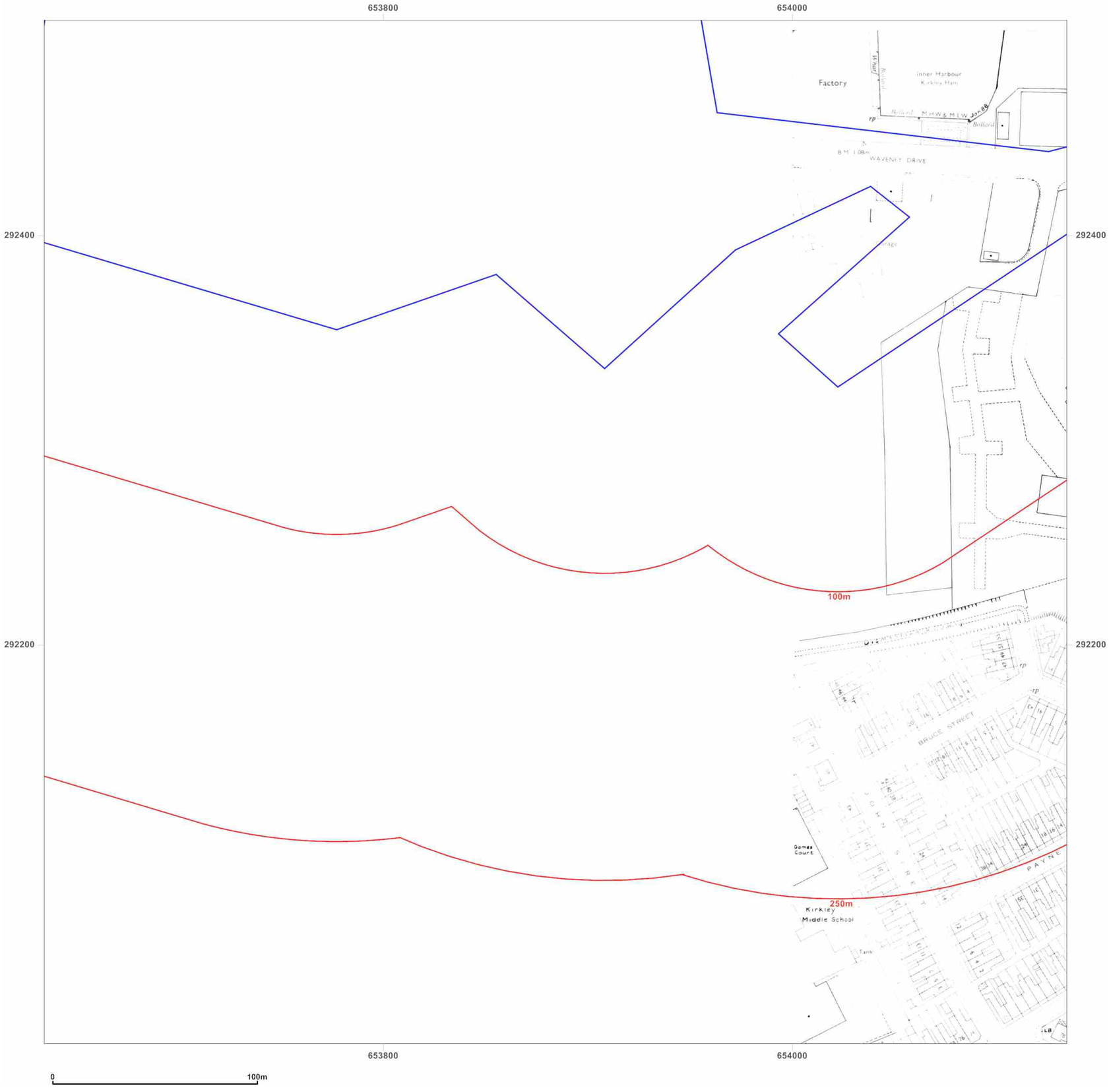


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292255

**Map Name:** National Grid

**Map date:** **1976**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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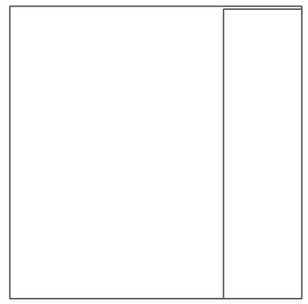

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292255

**Map Name:** National Grid

**Map date:** **1983-1984**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292255

**Map Name:** National Grid

**Map date:** **1983-1988**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292255

**Map Name:** National Grid

**Map date:** **1993**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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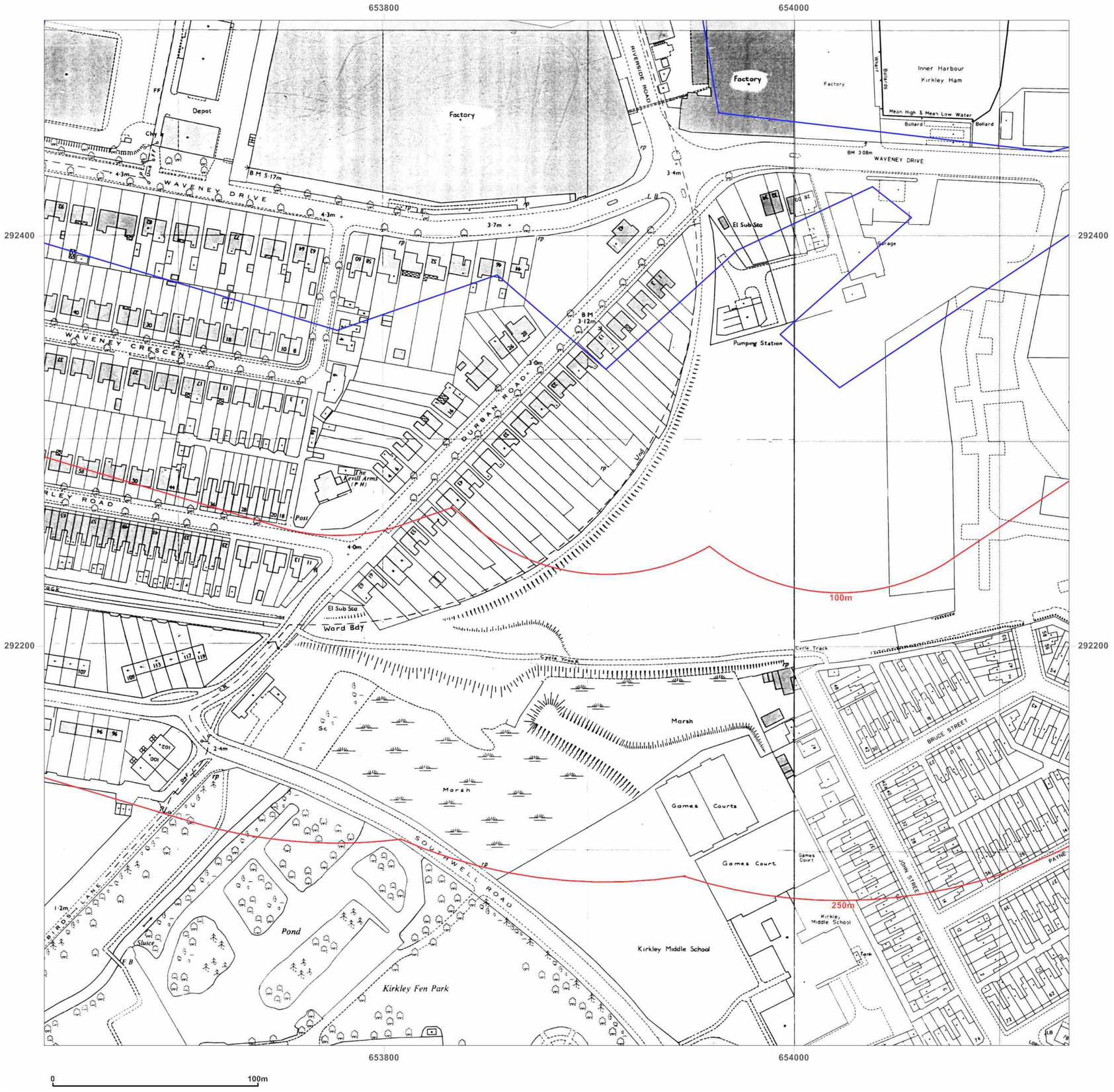


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292255

**Map Name:** National Grid

**Map date:** **1990-1993**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292755

**Map Name:** National Grid

**Map date:** **1949**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292755

**Map Name:** National Grid

**Map date:** **1964-1966**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292755

**Map Name:** National Grid

**Map date:** **1970-1974**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292755

**Map Name:** National Grid

**Map date:** **1974-1976**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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| Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1974<br>Levelled N/A | Surveyed 1975<br>Revised 1975<br>Edition N/A<br>Copyright 1976<br>Levelled 1958 |

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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292755

**Map Name:** National Grid
**Map date:** **1983-1987**
**Scale:** 1:1,250
**Printed at:** 1:2,000

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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292755

**Map Name:** National Grid

**Map date:** **1986-1990**

**Scale:** 1:1,250

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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292755

**Map Name:** National Grid

**Map date:** **1989-1993**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 292755

**Map Name:** National Grid

**Map date:** **1990-1993**

**Scale:** 1:1,250

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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 293255

**Map Name:** National Grid

**Map date:** **1949**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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Revised 1949
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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 293255

**Map Name:** National Grid

**Map date:** **1956-1961**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 293255

**Map Name:** National Grid

**Map date:** **1969-1971**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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|---|---|
| Surveyed 1949<br>Revised 1968<br>Edition N/A<br>Copyright 1969<br>Levelled 1958 | Surveyed 1949<br>Revised 1969<br>Edition N/A<br>Copyright 1970<br>Levelled 1958 |
| Surveyed 1949<br>Revised 1971<br>Edition N/A<br>Copyright 1971<br>Levelled 1958 | Surveyed 1949<br>Revised 1969<br>Edition N/A<br>Copyright 1970<br>Levelled 1958 |

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 293255

**Map Name:** National Grid

**Map date:** **1974-1976**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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|---|---|
| Surveyed 1949<br>Revised 1973<br>Edition N/A<br>Copyright 1974<br>Levelled 1958 | Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright N/A<br>Levelled N/A |
| Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1974<br>Levelled N/A | Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1976<br>Levelled N/A |

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 293255

**Map Name:** National Grid

**Map date:** **1986-1990**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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|---|---|
| Surveyed 1990<br>Revised 1990<br>Edition N/A<br>Copyright 1990<br>Levelled N/A | Surveyed 1958<br>Revised 1987<br>Edition N/A<br>Copyright 1987<br>Levelled 1958 |
| Surveyed 1958<br>Revised 1987<br>Edition N/A<br>Copyright 1987<br>Levelled 1958 | Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1986<br>Levelled 1958 |

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 293255

**Map Name:** National Grid

**Map date:** **1989-1990**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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|---|---|
| Surveyed 1990<br>Revised 1990<br>Edition N/A<br>Copyright 1990<br>Levelled N/A | Surveyed 1958<br>Revised 1989<br>Edition N/A<br>Copyright 1989<br>Levelled 1958 |
| Surveyed 1958<br>Revised 1990<br>Edition N/A<br>Copyright 1990<br>Levelled 1958 | Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1989<br>Levelled 1958 |

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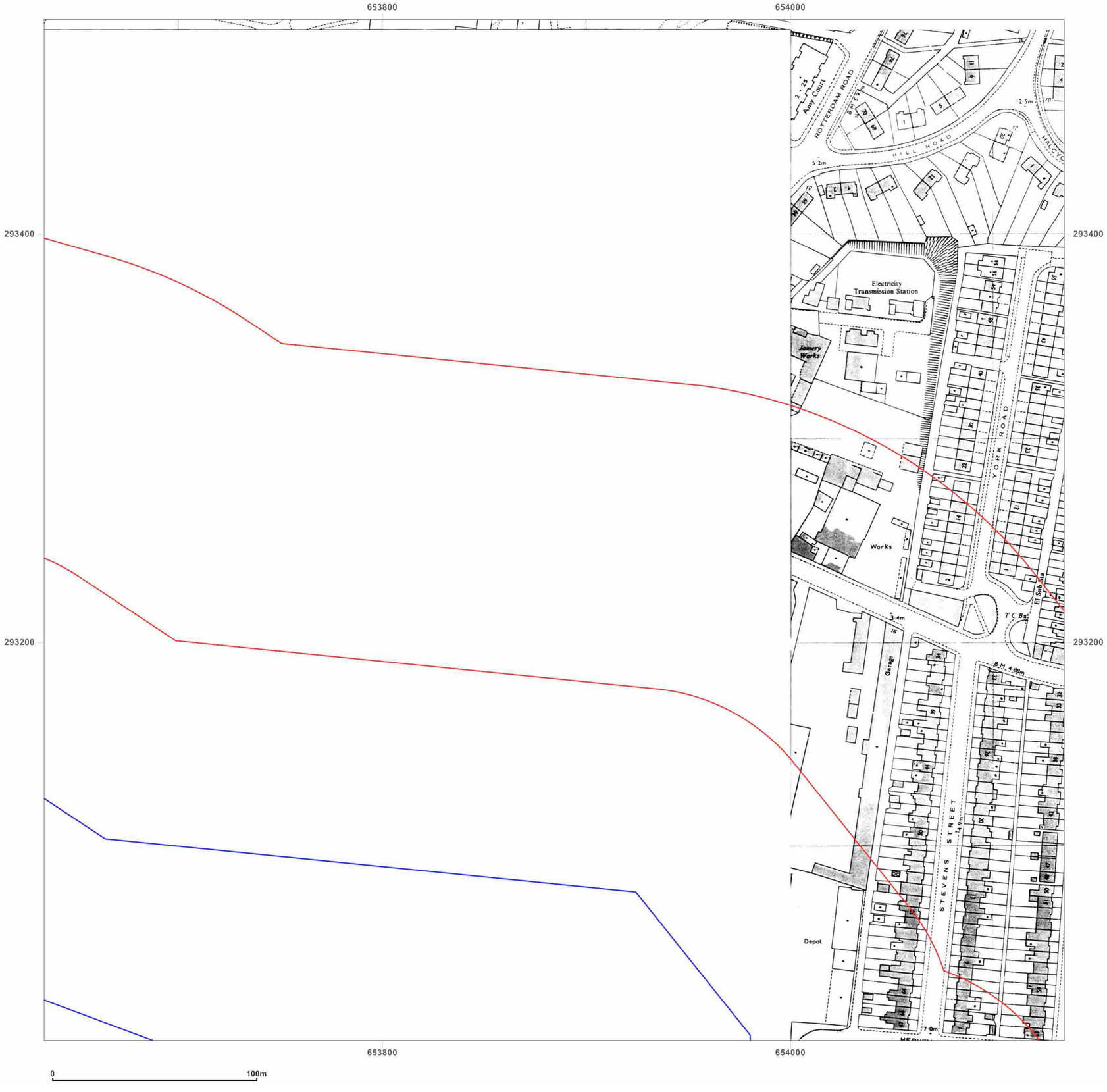


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 293255

**Map Name:** National Grid

**Map date:** **1990-1993**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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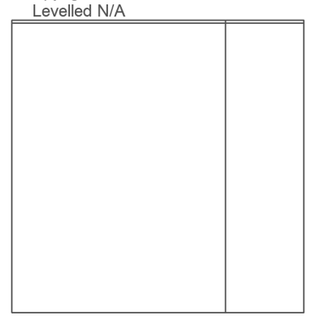
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



Surveyed 1958
Revised 1990
Edition N/A
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Levelled 1958

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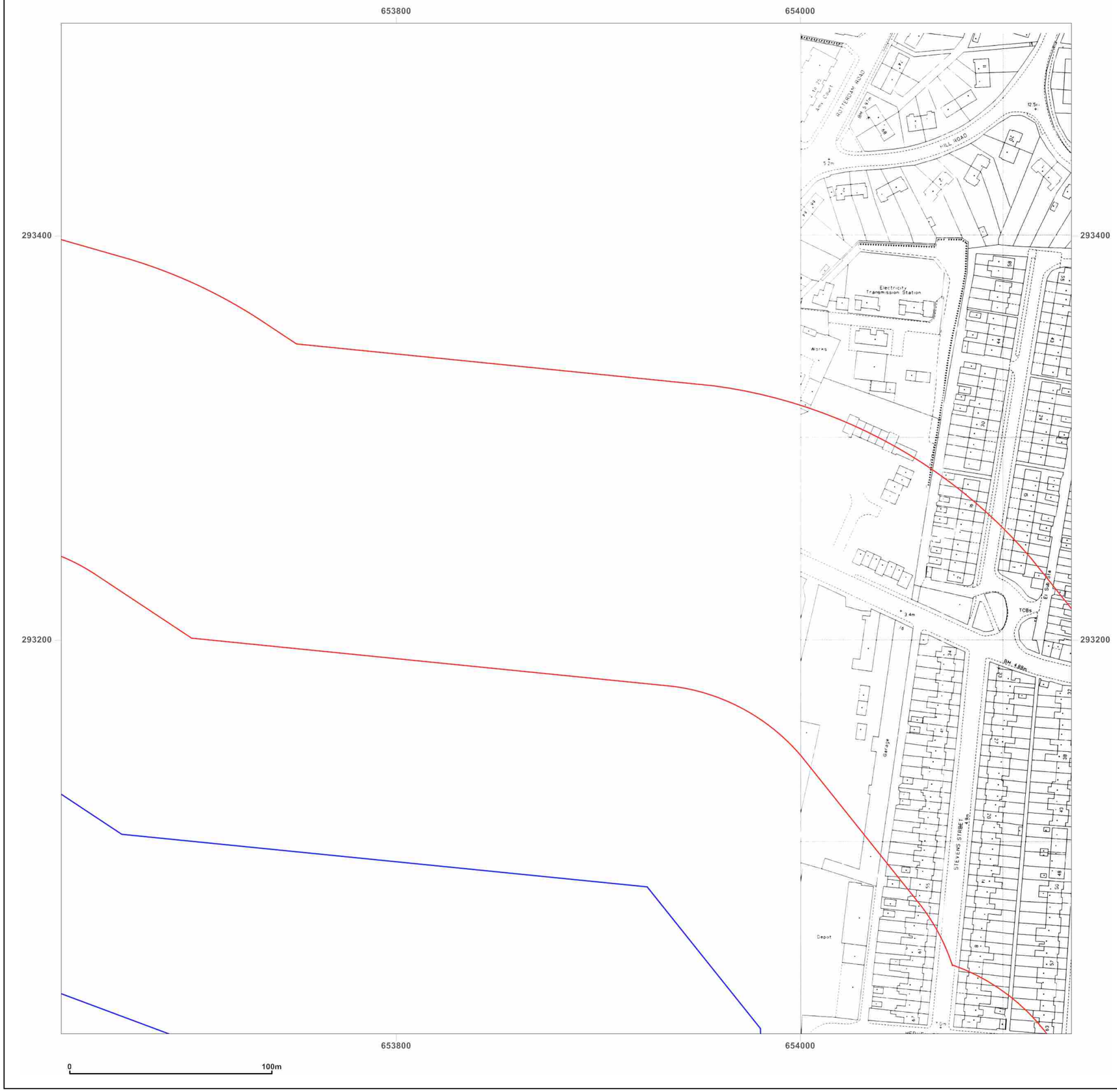


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FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 293255

**Map Name:** National Grid

**Map date:** **1993**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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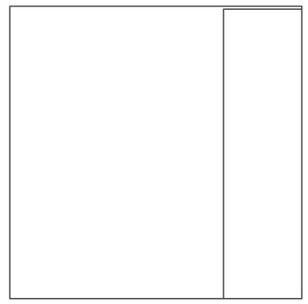

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 653884, 293255

**Map Name:** National Grid

**Map date:** **1989-1993**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1990
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1958
Revised 1989
Edition N/A
Copyright 1989
Levelled 1958

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292255

**Map Name:** County Series Town Plan

**Map date:** **1884-1885**

**Scale:** 1:500

**Printed at:** 1:1,000

N
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Surveyed 1884
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1885
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1884
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1885
Revised N/A
Edition N/A
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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292255

**Map Name:** National Grid

**Map date:** **1949-1950**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed 1949
Revised 1949
Edition N/A
Copyright N/A
Levelled 1947

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1947

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1947

Surveyed 1949
Revised 1949
Edition N/A
Copyright N/A
Levelled 1947

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292255

**Map Name:** National Grid

**Map date:** **1964-1968**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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| Surveyed 1949<br>Revised 1965<br>Edition N/A<br>Copyright 1966<br>Levelled 1958 | Surveyed 1950<br>Revised 1968<br>Edition N/A<br>Copyright N/A<br>Levelled N/A |
| Surveyed 1950<br>Revised 1963<br>Edition N/A<br>Copyright 1964<br>Levelled 1958 | Surveyed 1963<br>Revised 1963<br>Edition N/A<br>Copyright 1964<br>Levelled 1953 |

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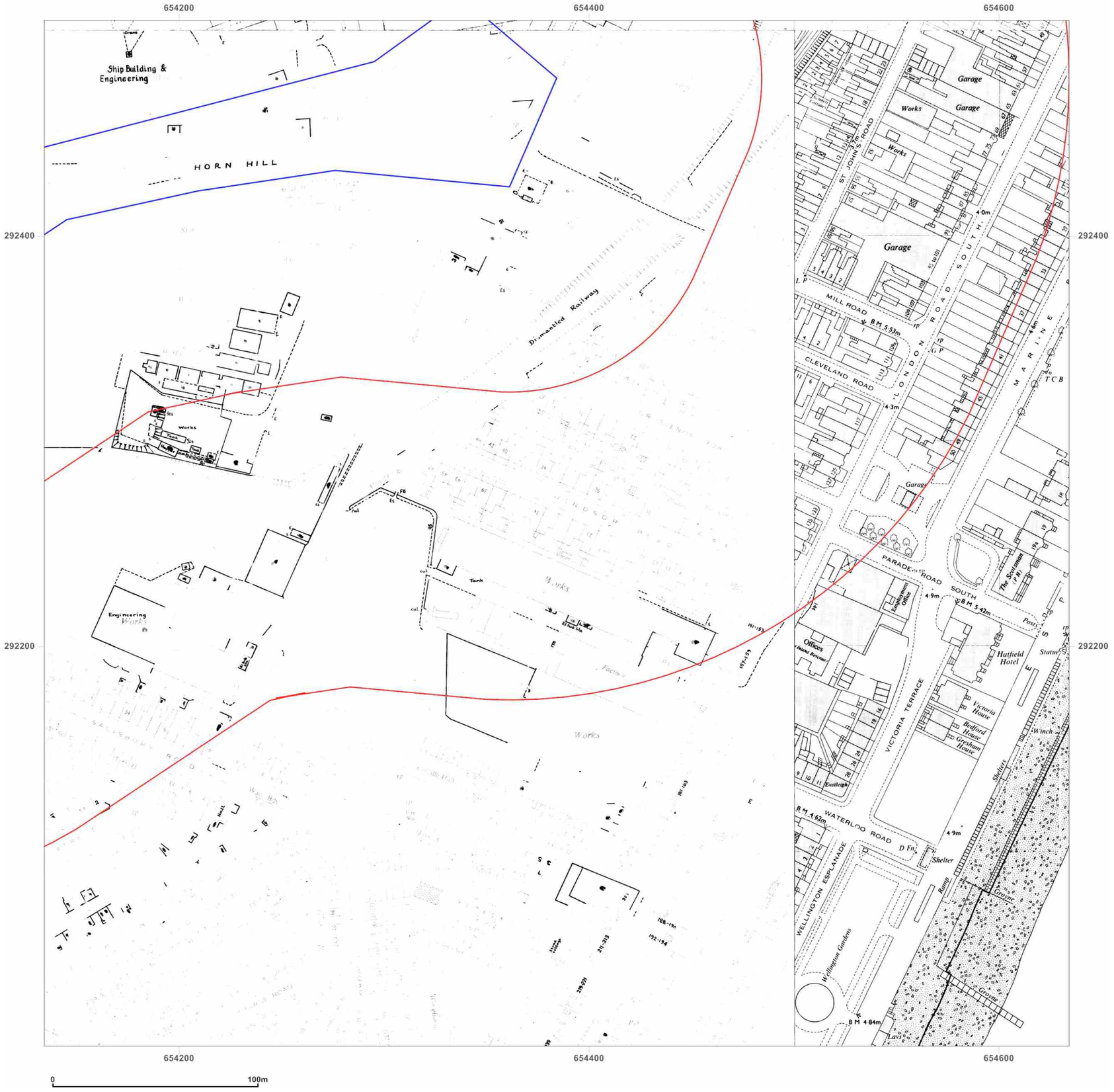


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292255

**Map Name:** National Grid
**Map date:** **1974-1975**
**Scale:** 1:1,250
**Printed at:** 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1974
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1974
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Surveyed N/A
Revised N/A
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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292255

**Map Name:** National Grid

**Map date:** **1976**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed 1975
Revised 1975
Edition N/A
Copyright 1976
Levelled 1958

Surveyed 1975
Revised 1975
Edition N/A
Copyright 1976
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Surveyed 1975
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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292255

**Map Name:** National Grid

**Map date:** **1986-1990**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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|---|---|
| Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1986<br>Levelled 1958 | Surveyed 1971<br>Revised 1988<br>Edition N/A<br>Copyright 1988<br>Levelled 1971 |
| Surveyed N/A<br>Revised 1988<br>Edition N/A<br>Copyright 1988<br>Levelled 1958 | Surveyed 1990<br>Revised 1990<br>Edition N/A<br>Copyright 1990<br>Levelled N/A |

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292255

**Map Name:** National Grid

**Map date:** **1990**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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|---|---|
| Surveyed 1958<br>Revised 1990<br>Edition N/A<br>Copyright 1990<br>Levelled 1958 | Surveyed 1971<br>Revised 1990<br>Edition N/A<br>Copyright 1990<br>Levelled 1971 |
| Surveyed 1958<br>Revised 1990<br>Edition N/A<br>Copyright 1990<br>Levelled 1958 | Surveyed 1990<br>Revised 1990<br>Edition N/A<br>Copyright 1990<br>Levelled N/A |

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292255

**Map Name:** National Grid

**Map date:** **1993**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292755

**Map Name:** County Series Town Plan

**Map date:** **1884-1885**

**Scale:** 1:500

**Printed at:** 1:1,000

N
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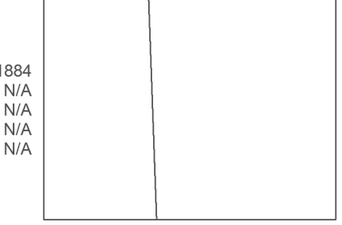
Surveyed 1884
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1885
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1884
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1885
Revised N/A
Edition N/A
Copyright N/A
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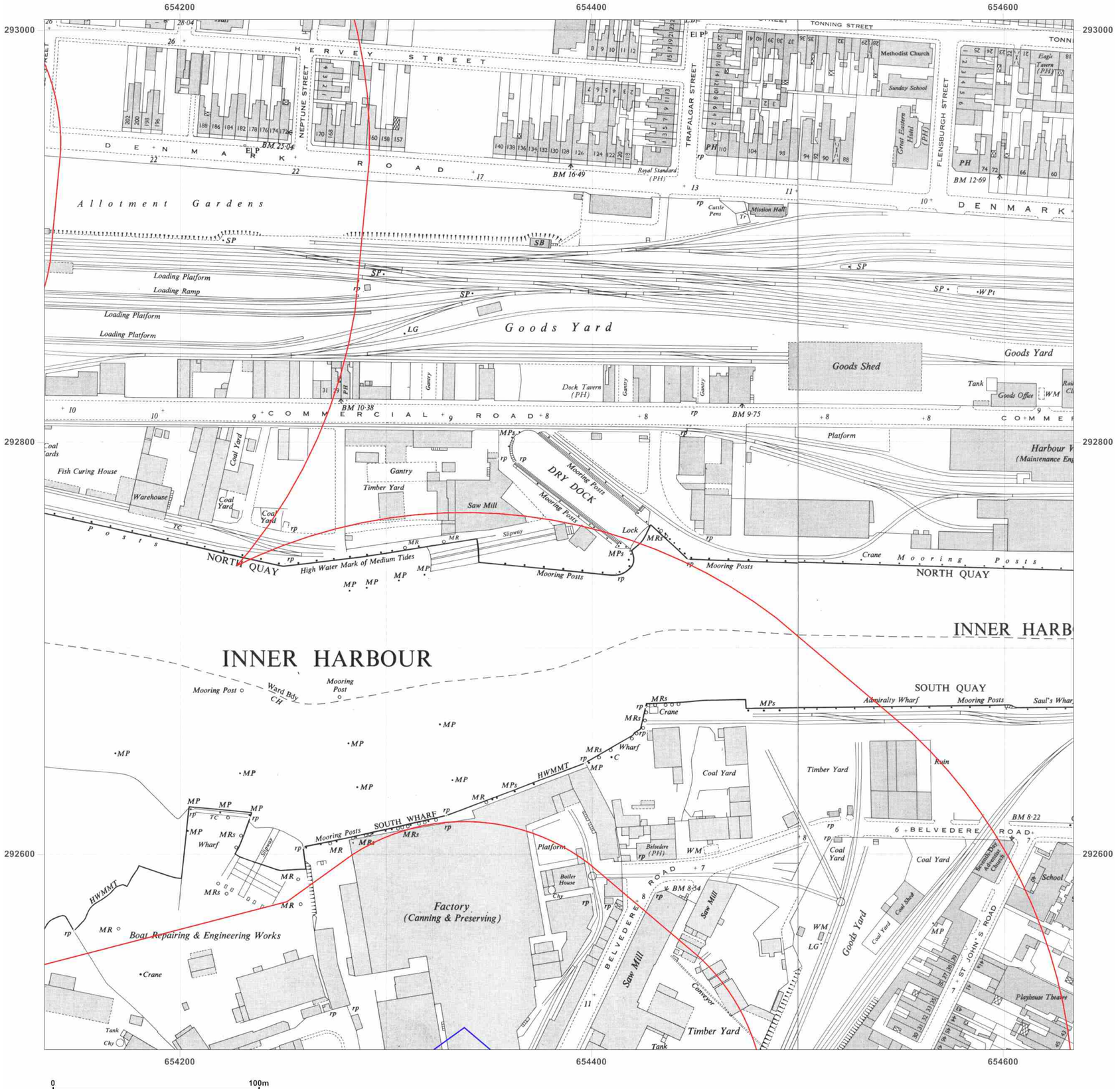


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292755

**Map Name:** National Grid

**Map date:** **1949-1950**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed 1949
Revised 1949
Edition N/A
Copyright N/A
Levelled 1947

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1947

Surveyed 1949
Revised 1949
Edition N/A
Copyright N/A
Levelled 1947

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
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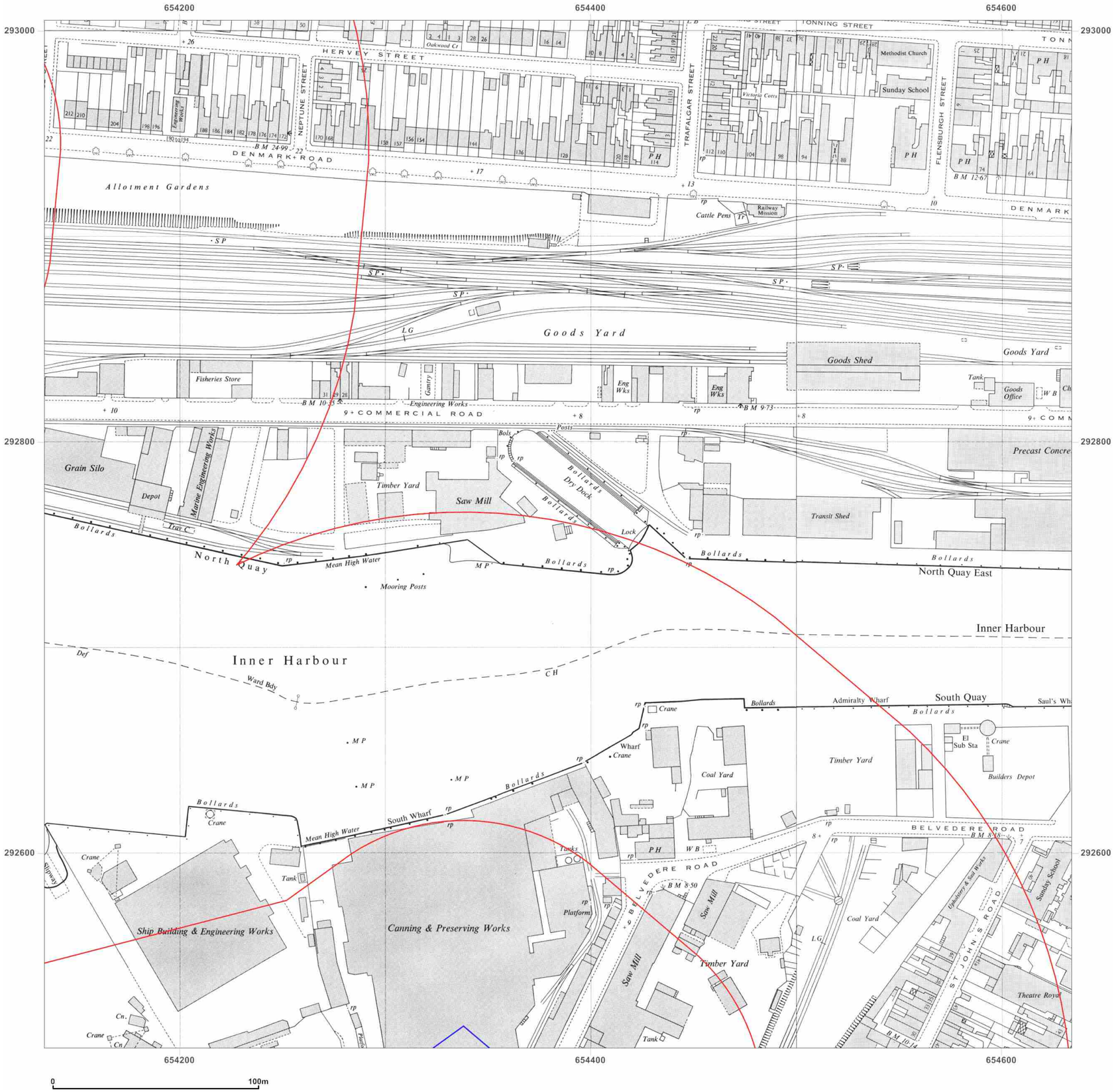


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292755

**Map Name:** National Grid

**Map date:** **1966-1970**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed 1949
Revised 1969
Edition N/A
Copyright 1970
Levelled 1958

Surveyed 1950
Revised 1969
Edition N/A
Copyright 1970
Levelled 1958

Surveyed 1949
Revised 1965
Edition N/A
Copyright 1966
Levelled 1958

Surveyed 1950
Revised 1968
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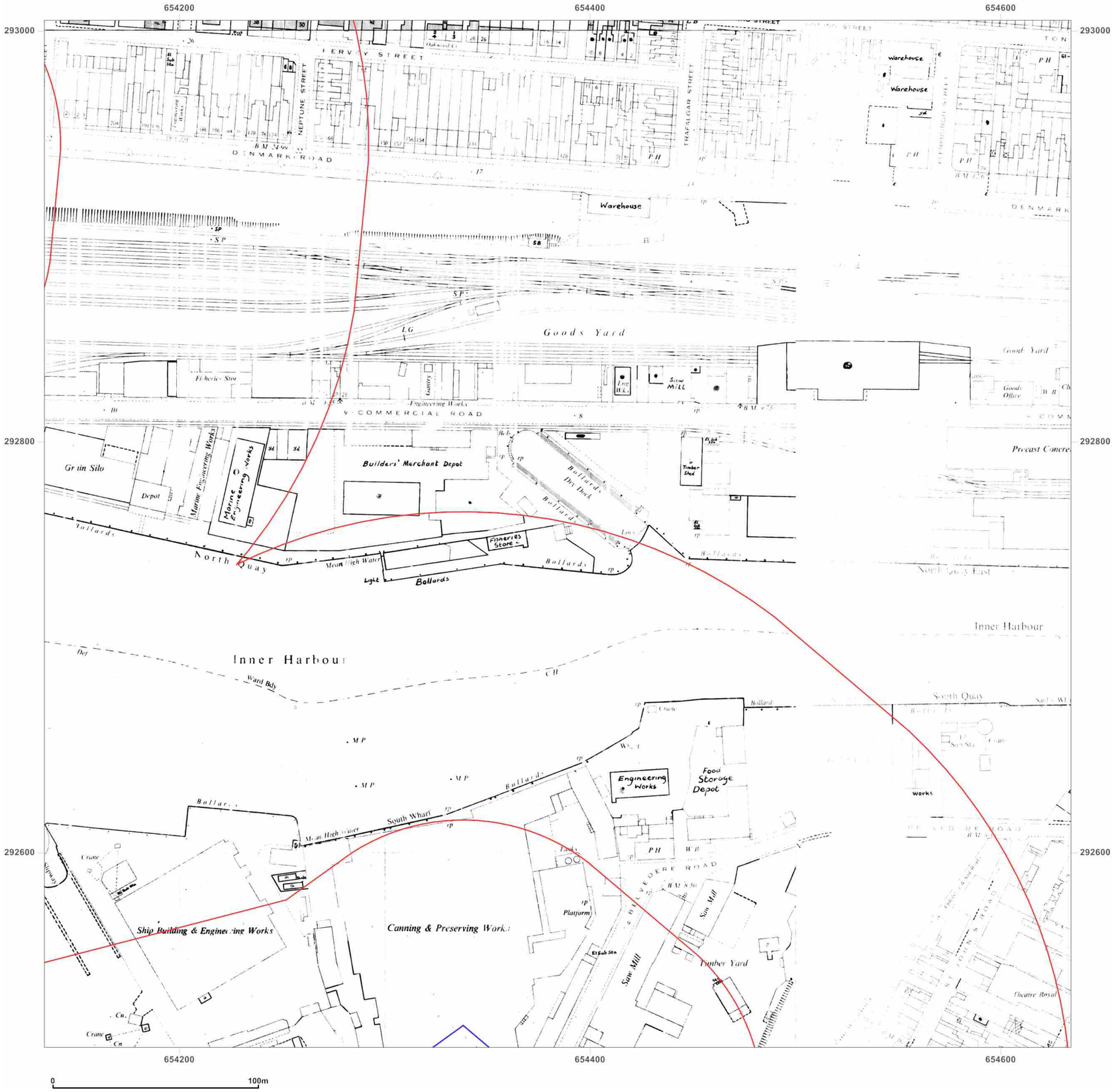


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FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292755

**Map Name:** National Grid

**Map date:** **1974-1976**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1976
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1974
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1974
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292755

**Map Name:** National Grid

**Map date:** **1976-1977**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
W E
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Surveyed 1976
Revised 1976
Edition N/A
Copyright 1977
Levelled 1958

Surveyed 1975
Revised 1975
Edition N/A
Copyright 1976
Levelled 1958

Surveyed 1975
Revised 1975
Edition N/A
Copyright 1976
Levelled 1971

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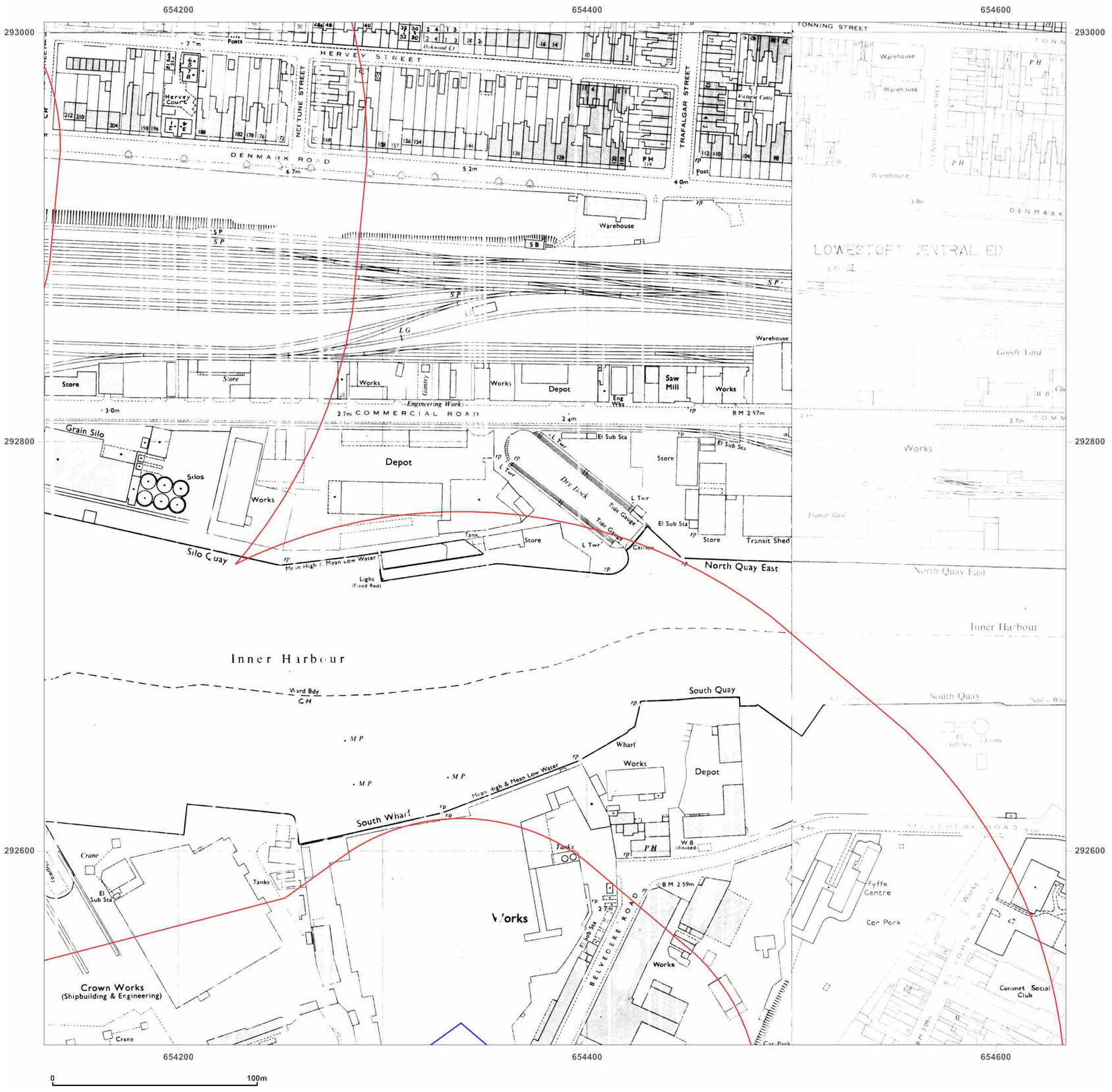


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292755

**Map Name:** National Grid

**Map date:** **1986-1988**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1986
Levelled 1958

Surveyed 1958
Revised N/A
Edition N/A
Copyright 1986
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1986
Levelled 1958

Surveyed 1971
Revised 1988
Edition N/A
Copyright 1988
Levelled 1971

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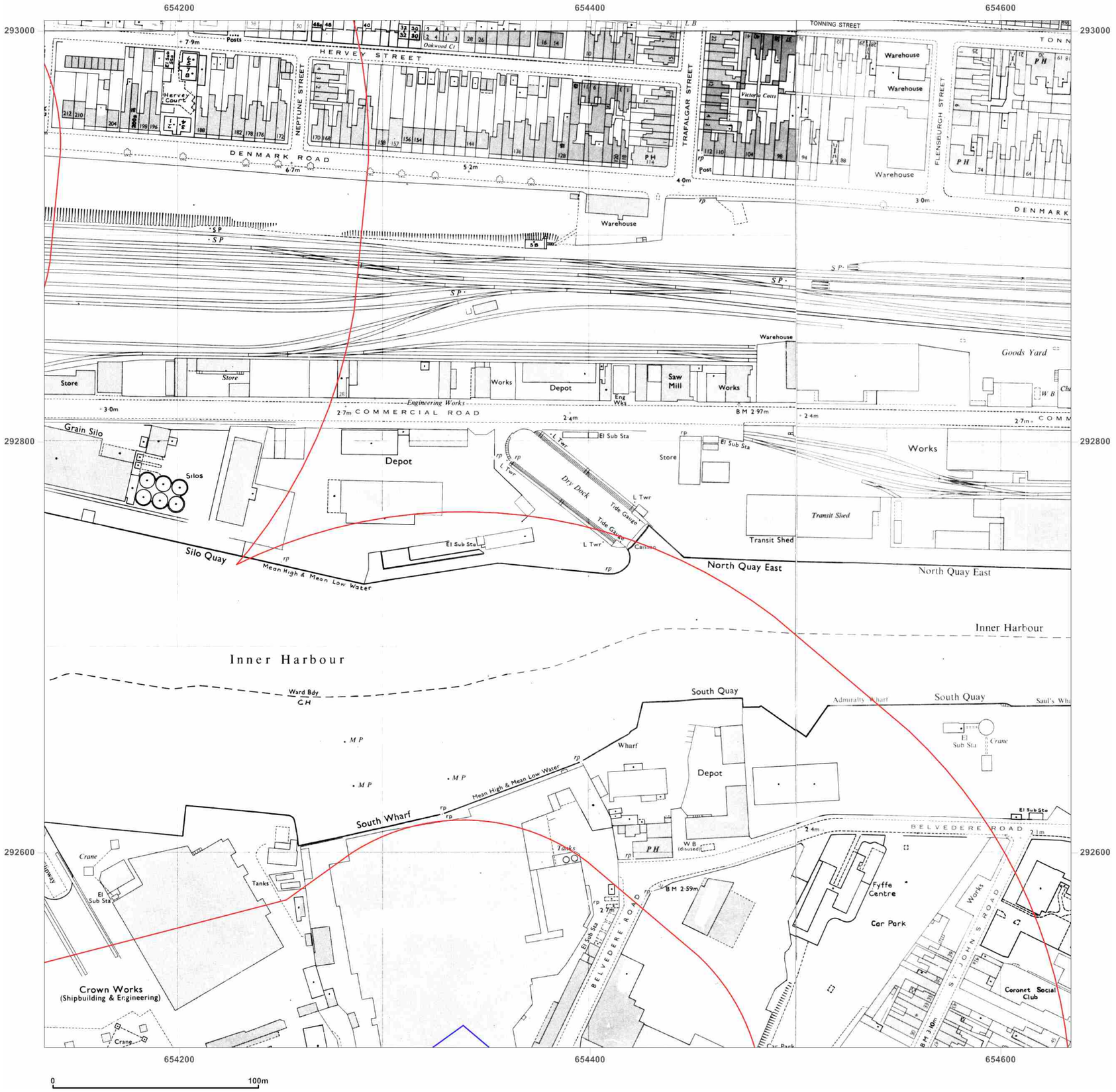


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292755

**Map Name:** National Grid

**Map date:** **1989-1990**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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|---|---|
| Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1989<br>Levelled 1958 | Surveyed 1989<br>Revised 1989<br>Edition N/A<br>Copyright 1990<br>Levelled N/A |
| Surveyed 1958<br>Revised 1990<br>Edition N/A<br>Copyright 1990<br>Levelled 1958 | Surveyed 1971<br>Revised 1990<br>Edition N/A<br>Copyright 1990<br>Levelled 1971 |

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 292755

**Map Name:** National Grid

**Map date:** **1989-1993**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed 1958
Revised 1989
Edition N/A
Copyright 1989
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 293255

**Map Name:** National Grid

**Map date:** **1949-1950**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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| Surveyed 1949<br>Revised 1949<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 | Surveyed 1950<br>Revised 1950<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 |
|---|---|
| Surveyed 1949<br>Revised 1949<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 | Surveyed 1950<br>Revised 1950<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 |

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 293255

**Map Name:** National Grid

**Map date:** **1956-1958**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed 1949
Revised 1958
Edition N/A
Copyright N/A
Levelled 1947

| | |
|---|---|
| Surveyed 1949<br>Revised 1956<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 | Surveyed 1956<br>Revised 1956<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 |

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 293255

**Map Name:** National Grid

**Map date:** **1970-1971**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed 1949
Revised 1969
Edition N/A
Copyright 1970
Levelled 1958

Surveyed 1950
Revised 1970
Edition N/A
Copyright 1971
Levelled 1958

Surveyed 1949
Revised 1969
Edition N/A
Copyright 1970
Levelled 1958

Surveyed 1950
Revised 1969
Edition N/A
Copyright 1970
Levelled 1958

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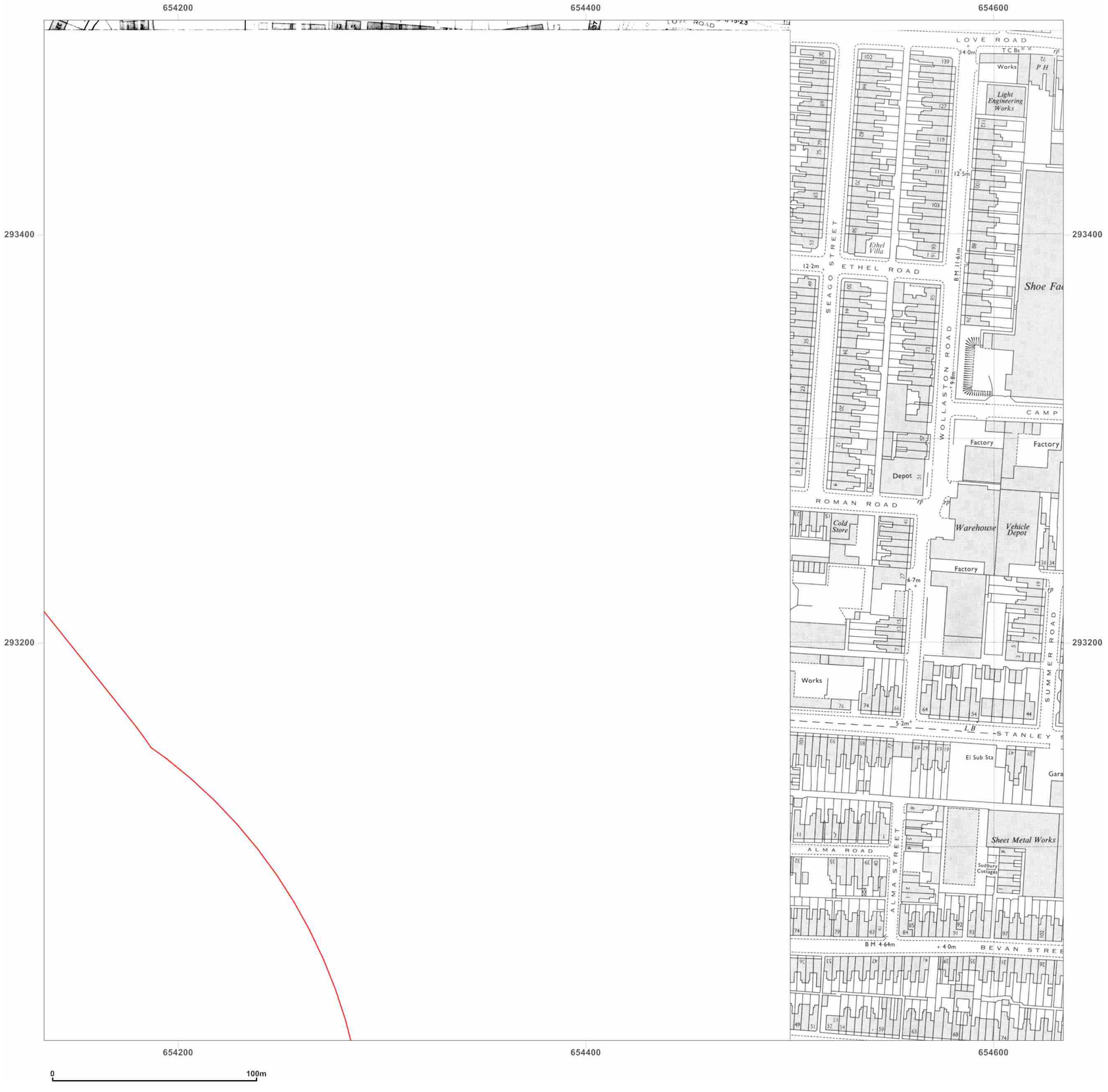


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 293255

**Map Name:** National Grid

**Map date:** **1977**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1976
Revised 1976
Edition N/A
Copyright 1977
Levelled 1958

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 293255

**Map Name:** National Grid

**Map date:** **1974-1978**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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|---|---|
| Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright N/A<br>Levelled N/A | Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1978<br>Levelled 1958 |
| Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1976<br>Levelled N/A | Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1974<br>Levelled N/A |

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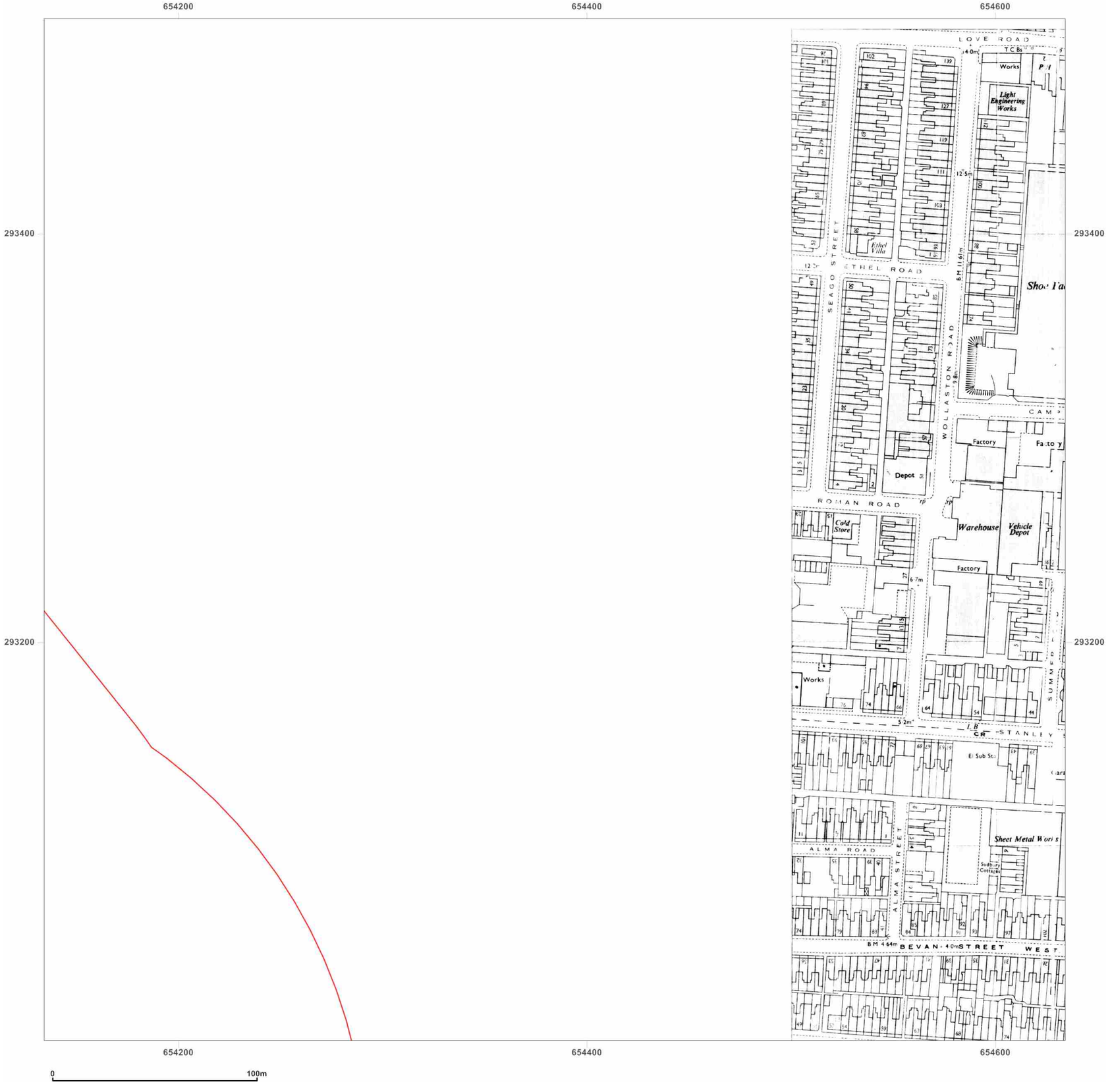


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 293255

**Map Name:** National Grid

**Map date:** **1979**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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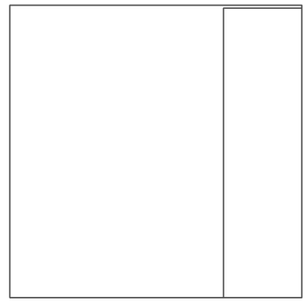

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1979
Levelled N/A

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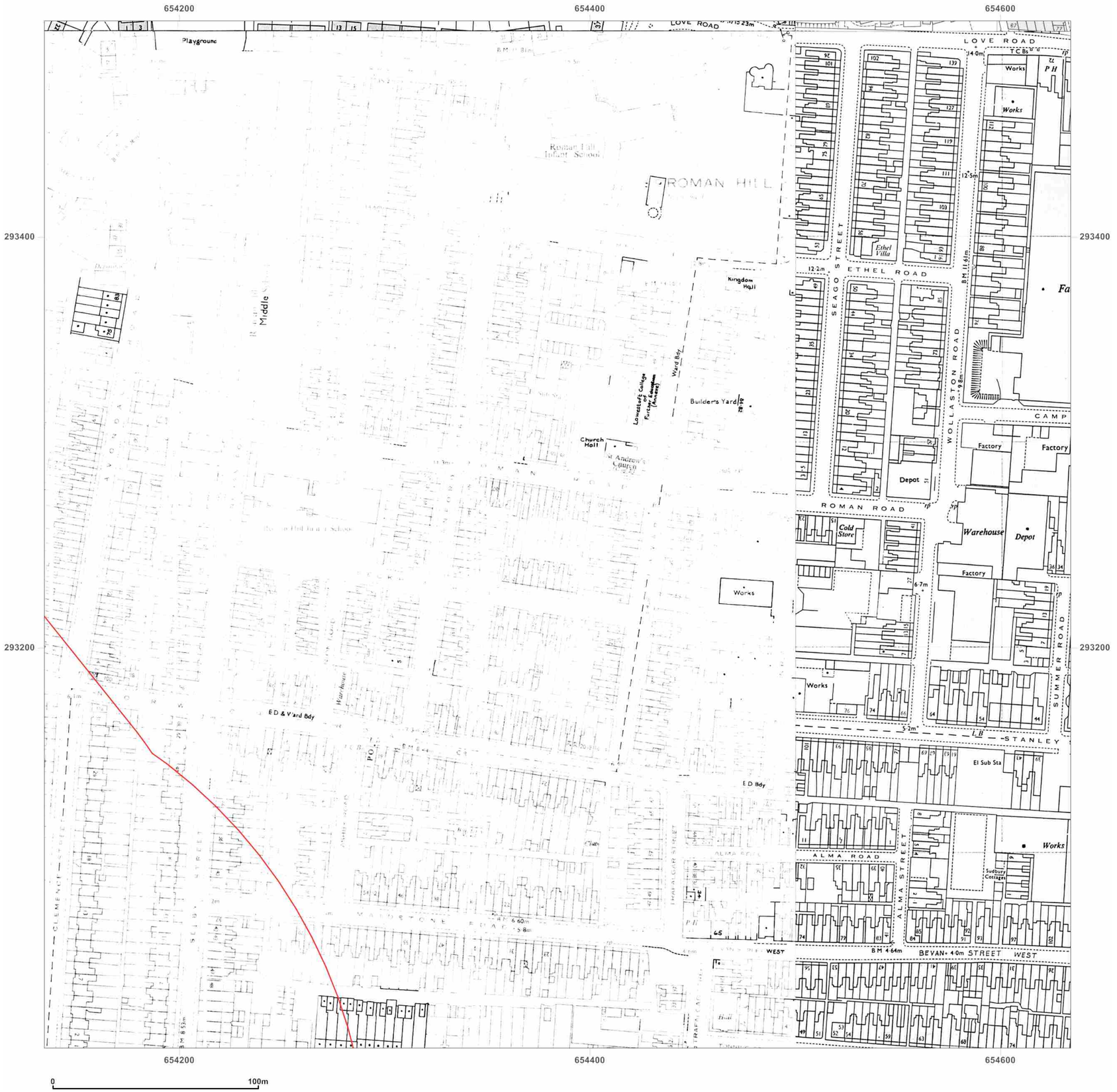


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 293255

**Map Name:** National Grid

**Map date:** **1986-1987**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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| Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1986<br>Levelled 1958 | Surveyed 1958<br>Revised 1987<br>Edition N/A<br>Copyright 1987<br>Levelled 1958 |

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 293255

**Map Name:** National Grid

**Map date:** **1990**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 293255

**Map Name:** National Grid

**Map date:** **1989-1993**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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| Surveyed 1958<br>Revised 1989<br>Edition N/A<br>Copyright 1989<br>Levelled 1958 | Surveyed 1989<br>Revised 1989<br>Edition N/A<br>Copyright 1990<br>Levelled N/A |

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_1250scale
**Grid Ref:** 654384, 293255

**Map Name:** National Grid

**Map date:** **1993**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
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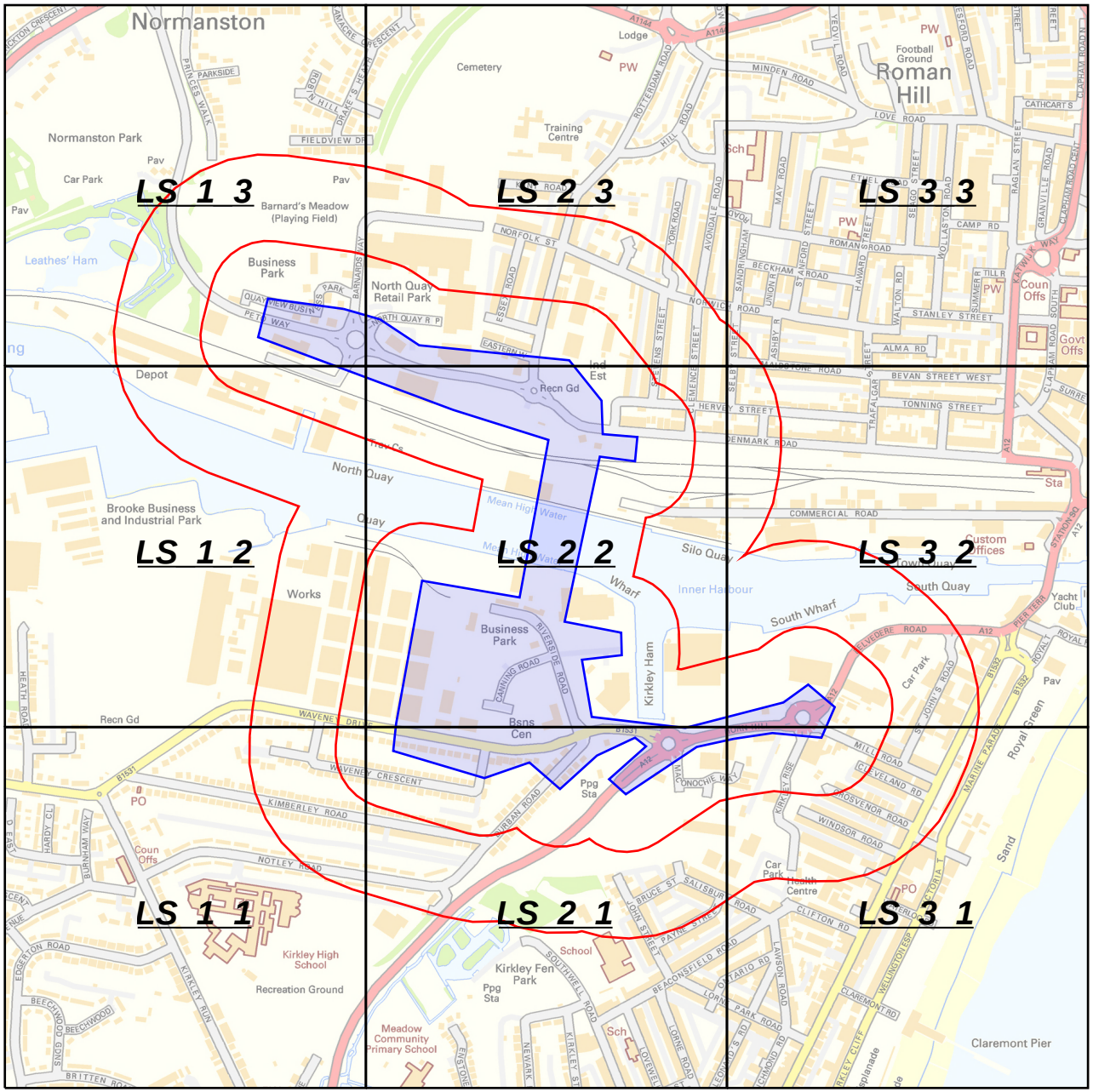


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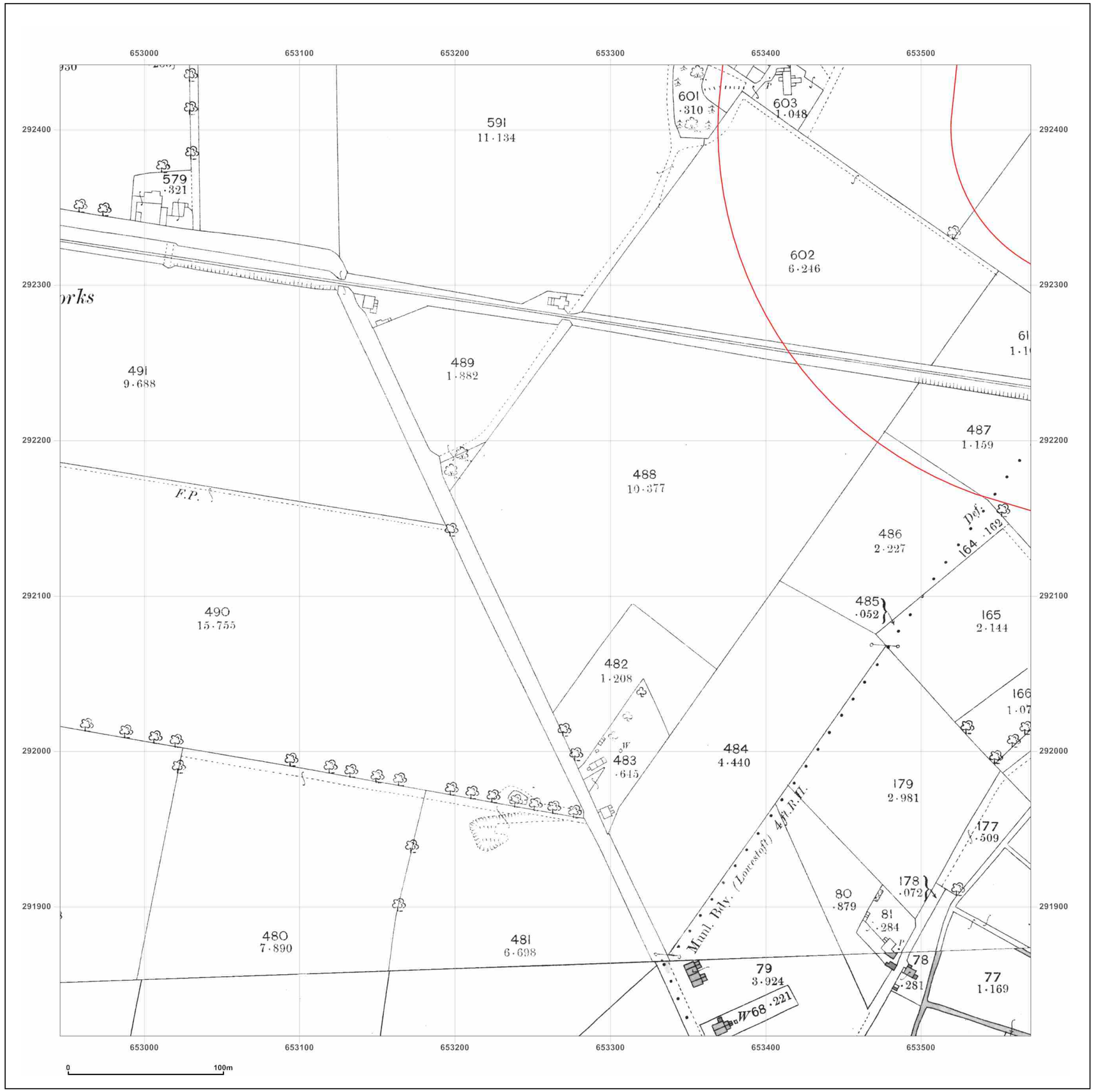


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_1
**Grid Ref:** 653258, 292129

**Map Name:** County Series
**Map date:** **1882**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
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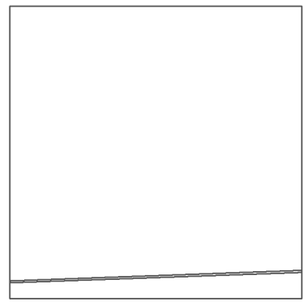
Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

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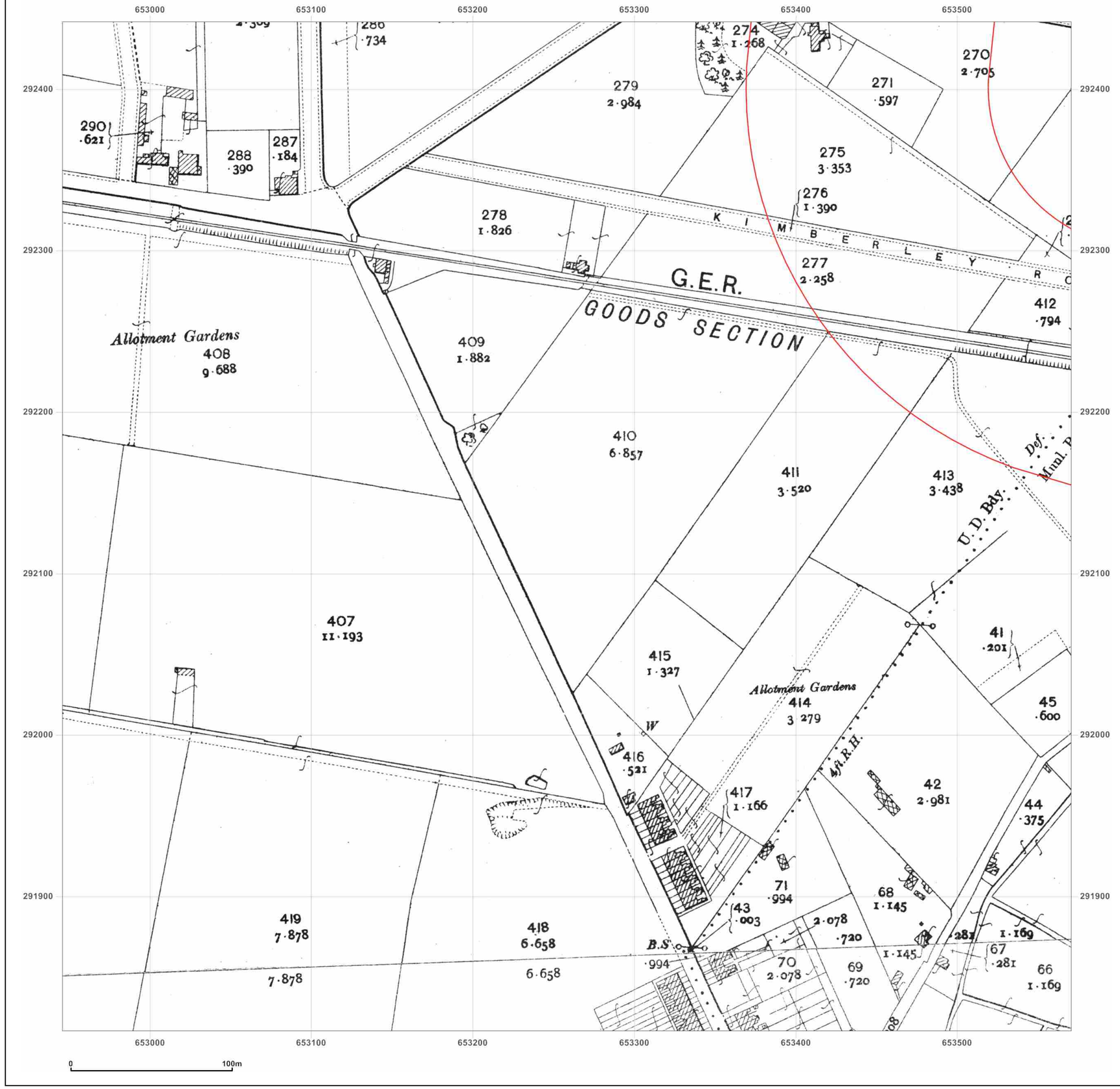


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_1
**Grid Ref:** 653258, 292129

**Map Name:** County Series
**Map date:** **1904**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
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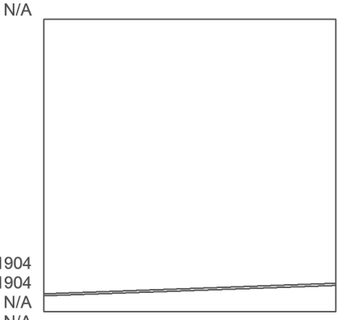
Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

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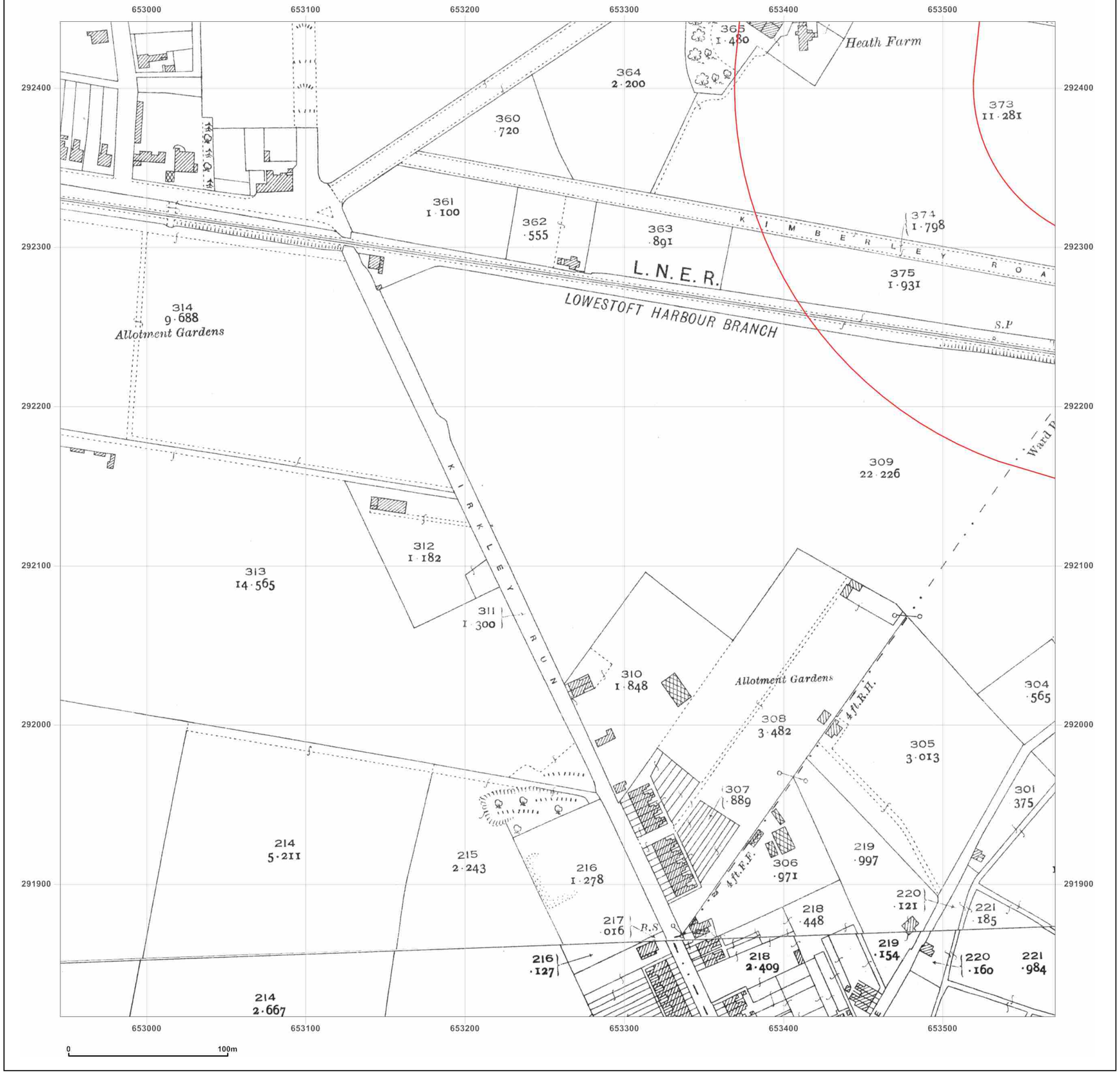


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_1
**Grid Ref:** 653258, 292129

**Map Name:** County Series
**Map date:** **1927**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
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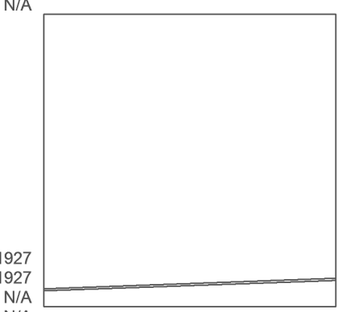
Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_1
**Grid Ref:** 653258, 292129

**Map Name:** National Grid

**Map date:** **1950**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
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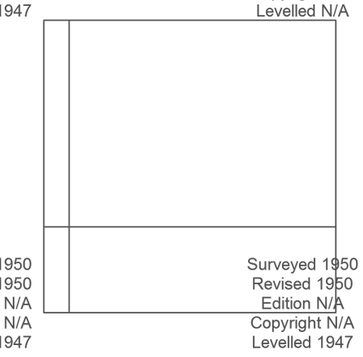
Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1947



Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1947

Surveyed 1950
Revised 1950
Edition N/A
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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_1
**Grid Ref:** 653258, 292129

**Map Name:** National Grid

**Map date:** **1964-1968**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
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Surveyed 1964
Revised 1964
Edition N/A
Copyright 1967
Levelled 1958

Surveyed 1968
Revised 1968
Edition N/A
Copyright 1968
Levelled 1958

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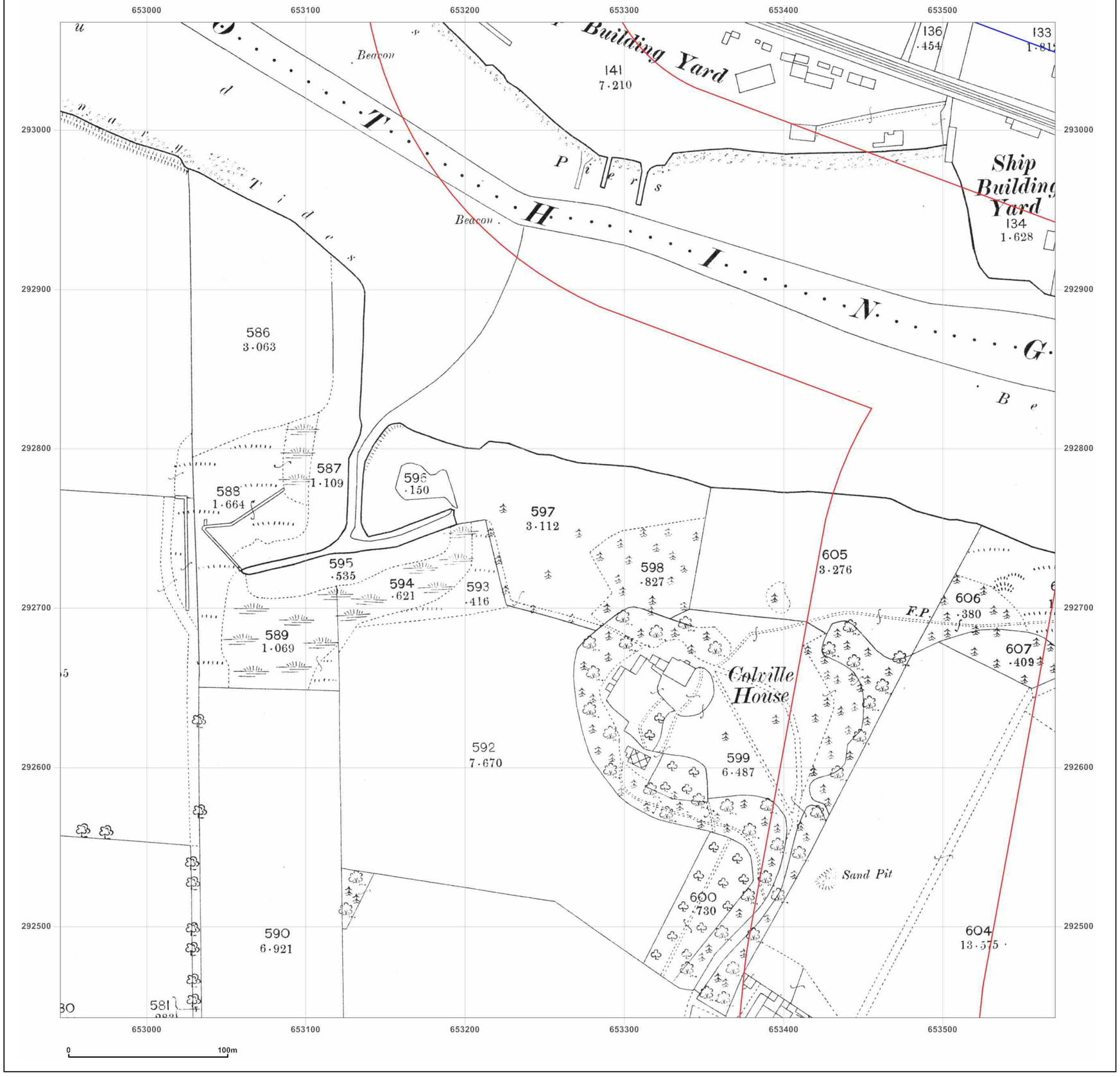


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_2
**Grid Ref:** 653258, 292755

**Map Name:** County Series
**Map date:** **1882**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
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Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
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Production date: 08 June 2016

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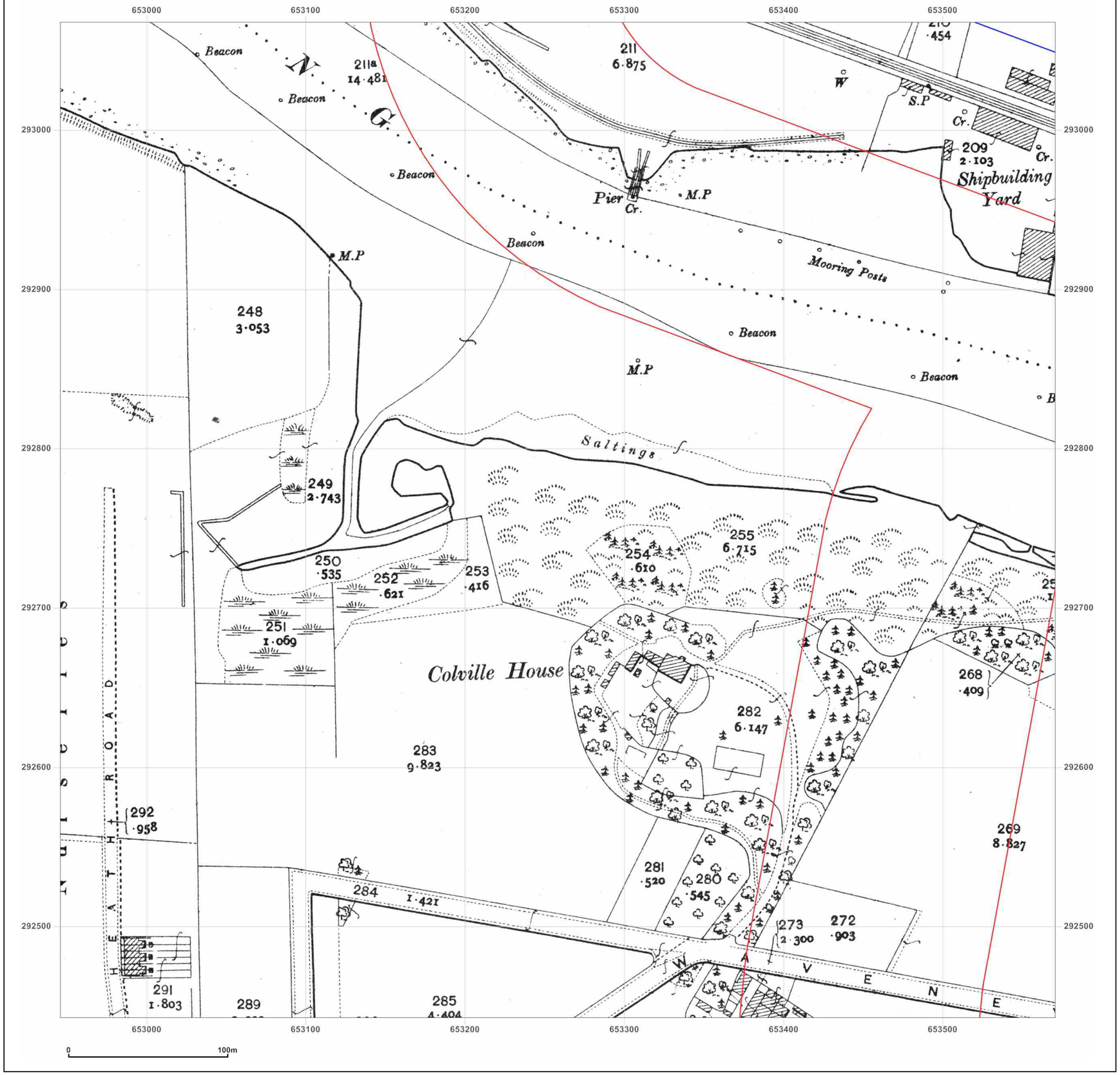


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_2
**Grid Ref:** 653258, 292755

**Map Name:** County Series
**Map date:** **1904**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
W E
S

Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

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CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_2
**Grid Ref:** 653258, 292755

**Map Name:** County Series
**Map date:** **1927**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
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Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A

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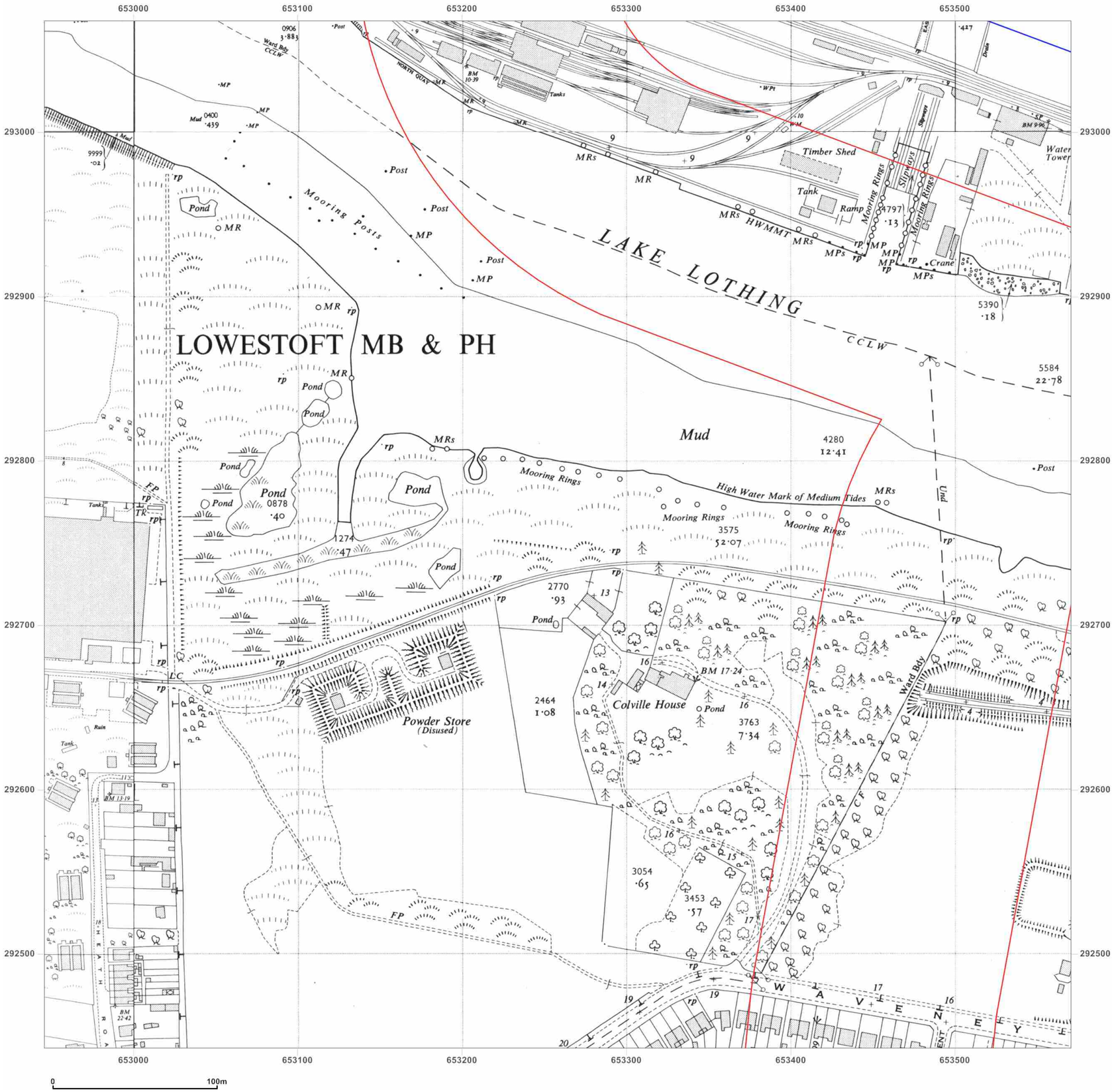


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_2
**Grid Ref:** 653258, 292755

**Map Name:** National Grid

**Map date:** **1949-1950**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
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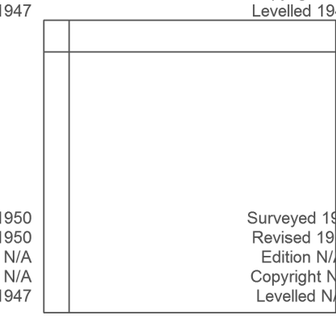
Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1947

Surveyed 1949
Revised 1949
Edition N/A
Copyright N/A
Levelled 1947



Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1947

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled N/A

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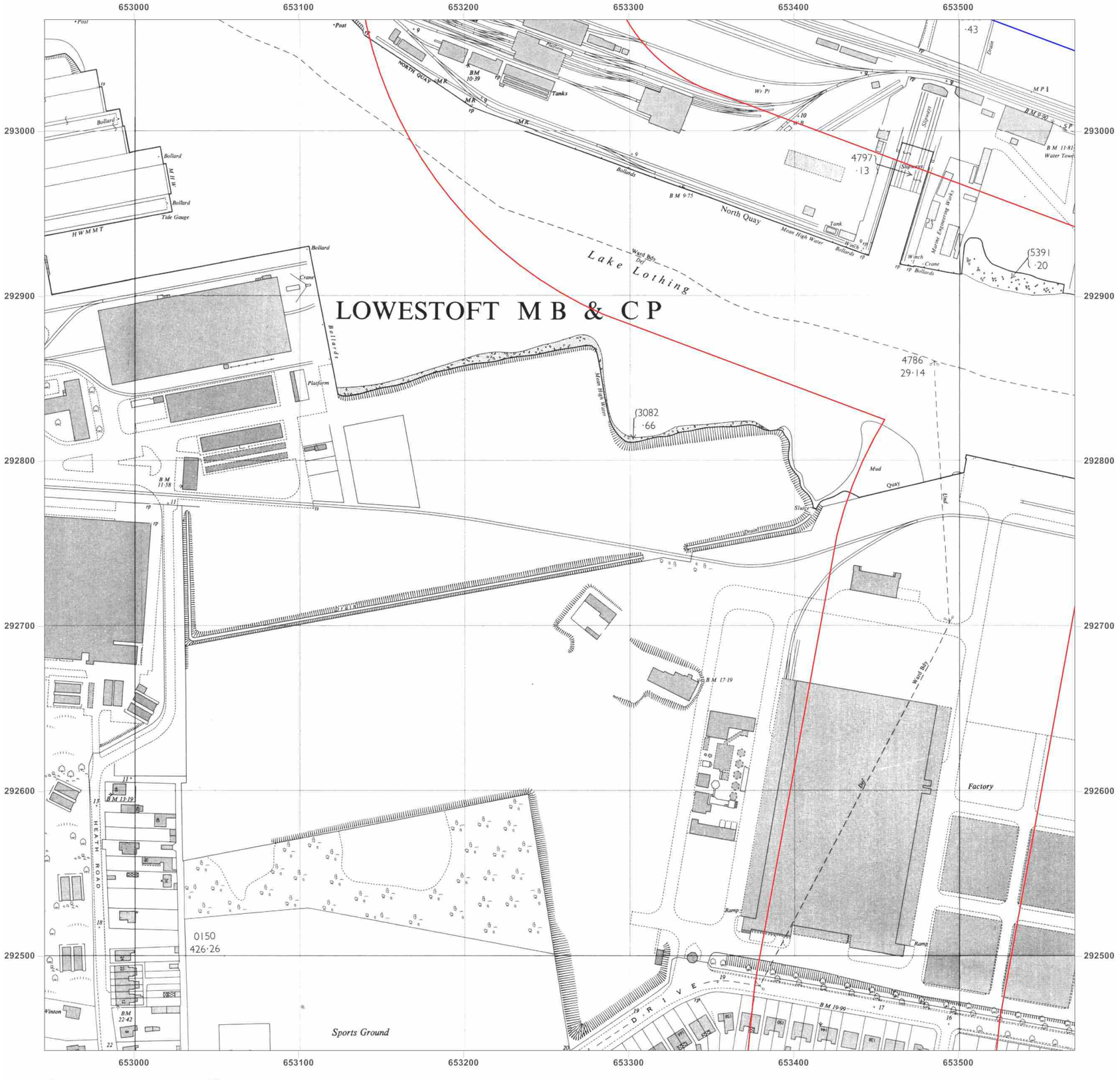


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_2
**Grid Ref:** 653258, 292755

**Map Name:** National Grid

**Map date:** **1963-1964**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
S

Surveyed 1960
Revised 1963
Edition 1966
Copyright 1966
Levelled 1958

Surveyed 1964
Revised 1964
Edition N/A
Copyright 1967
Levelled 1958

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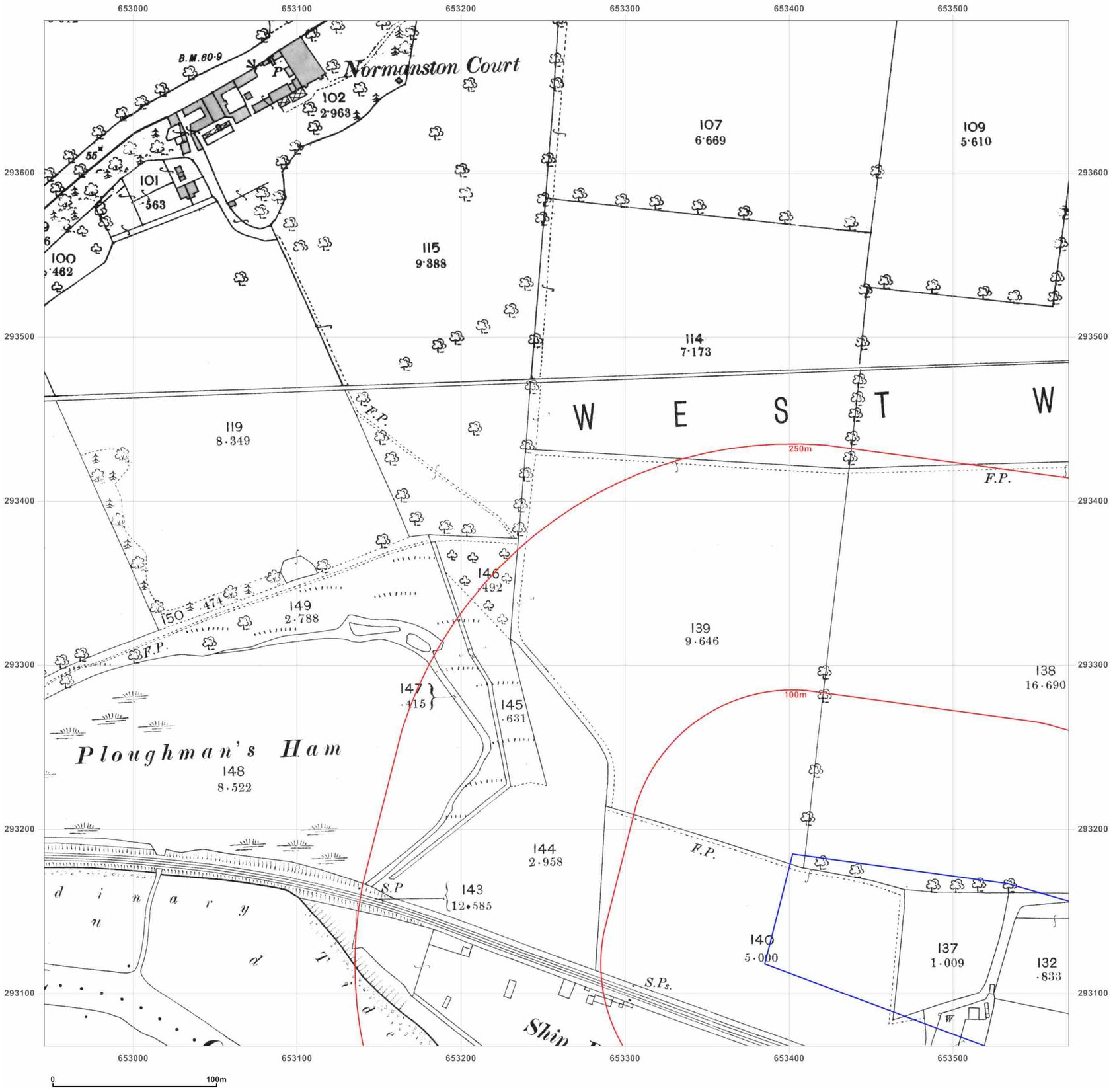


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FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_3
**Grid Ref:** 653258, 293380

**Map Name:** County Series

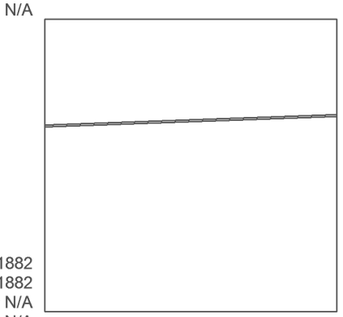
**Map date:** **1882**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
S

Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

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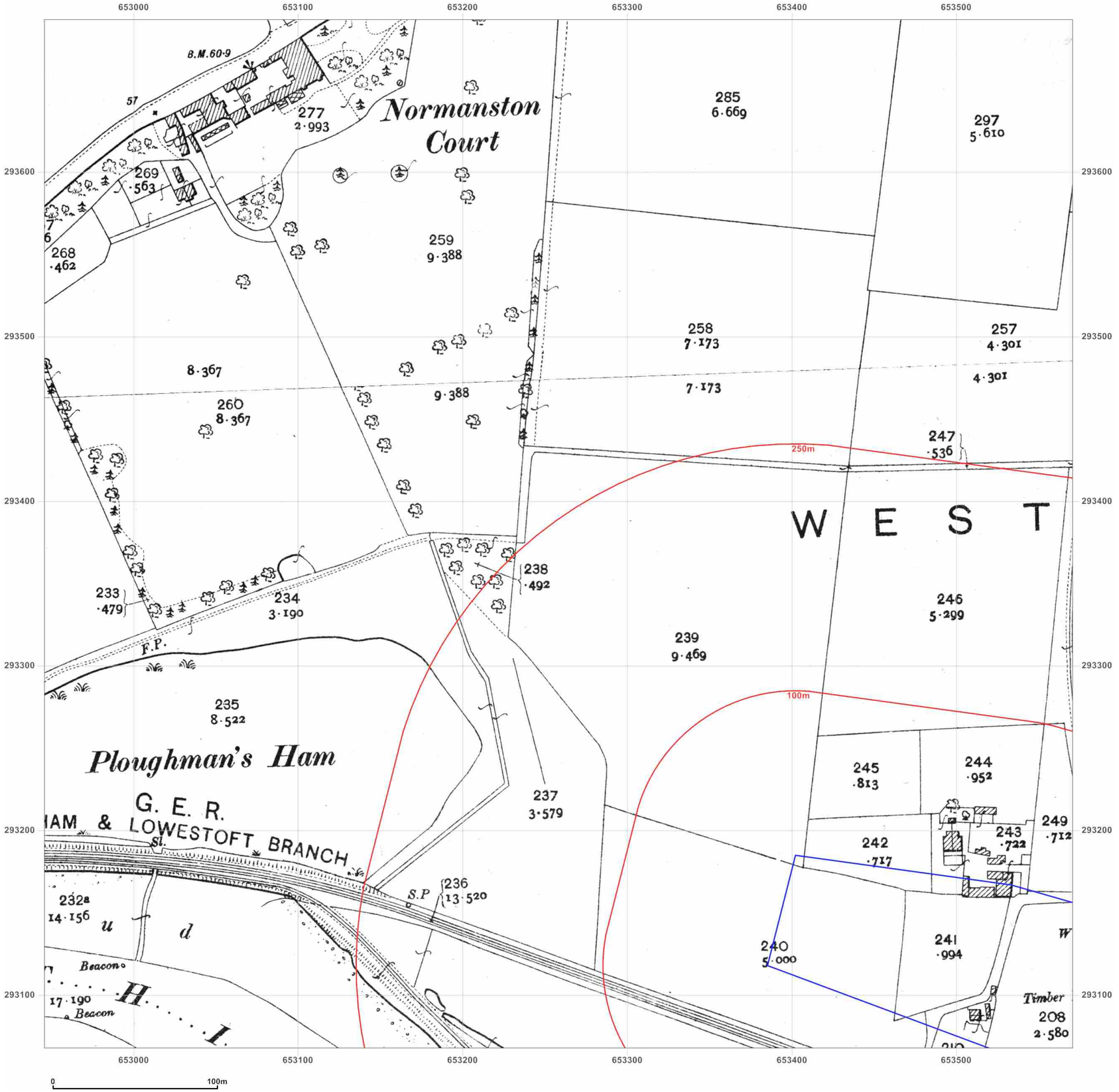



CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

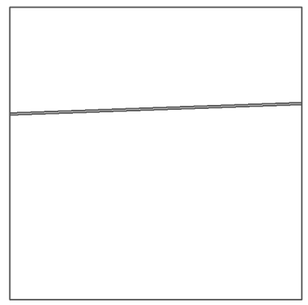
Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_3
**Grid Ref:** 653258, 293380

**Map Name:** County Series
**Map date:** **1904**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
W E
S

Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

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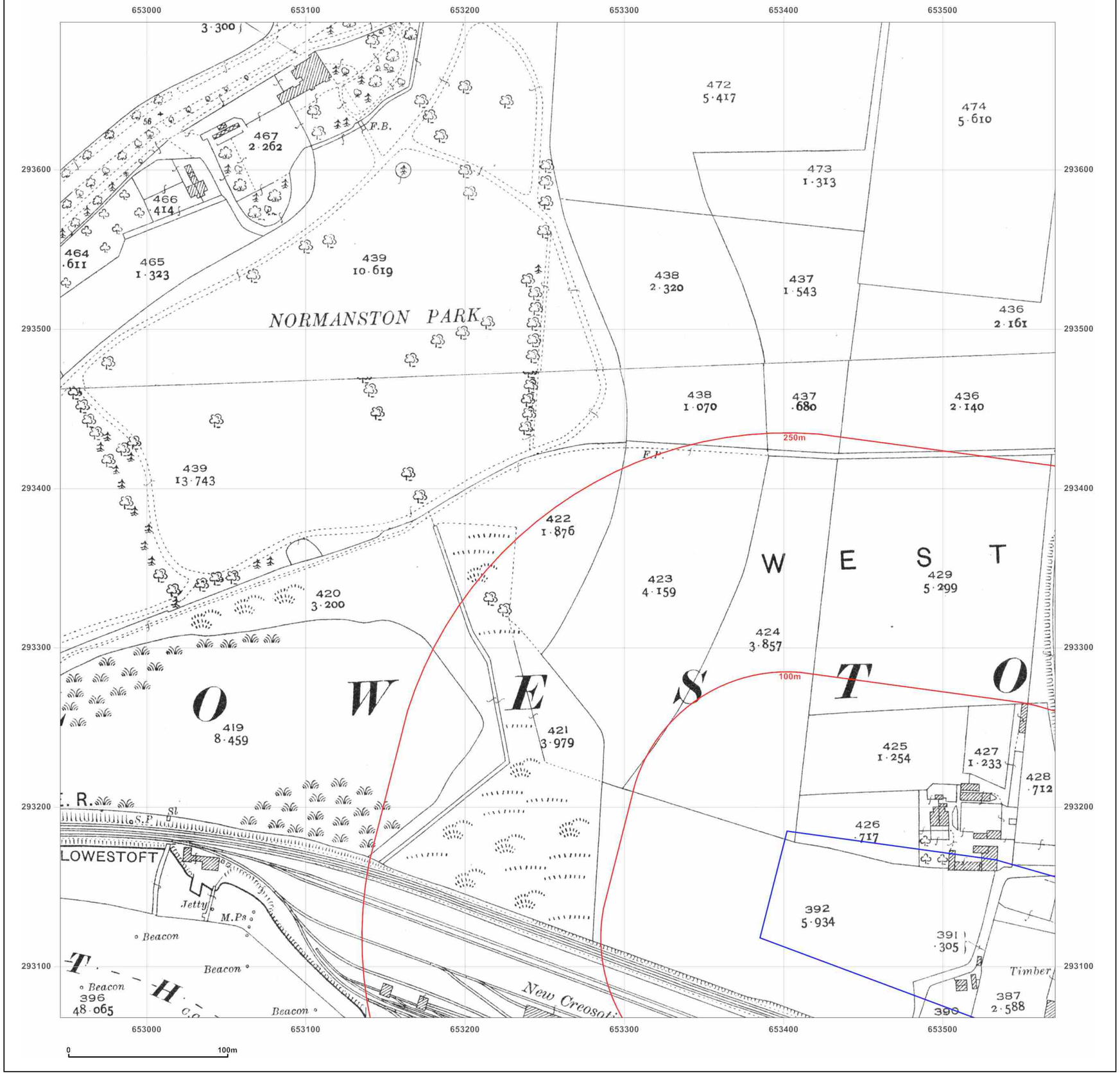


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FOR A BETTER POINT OF VIEW

**Site Details:**

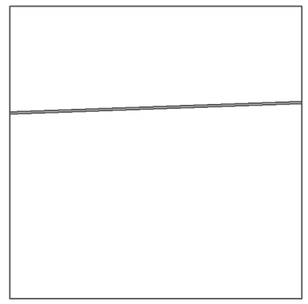
Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_3
**Grid Ref:** 653258, 293380

**Map Name:** County Series
**Map date:** **1927**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
W E
S

Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A

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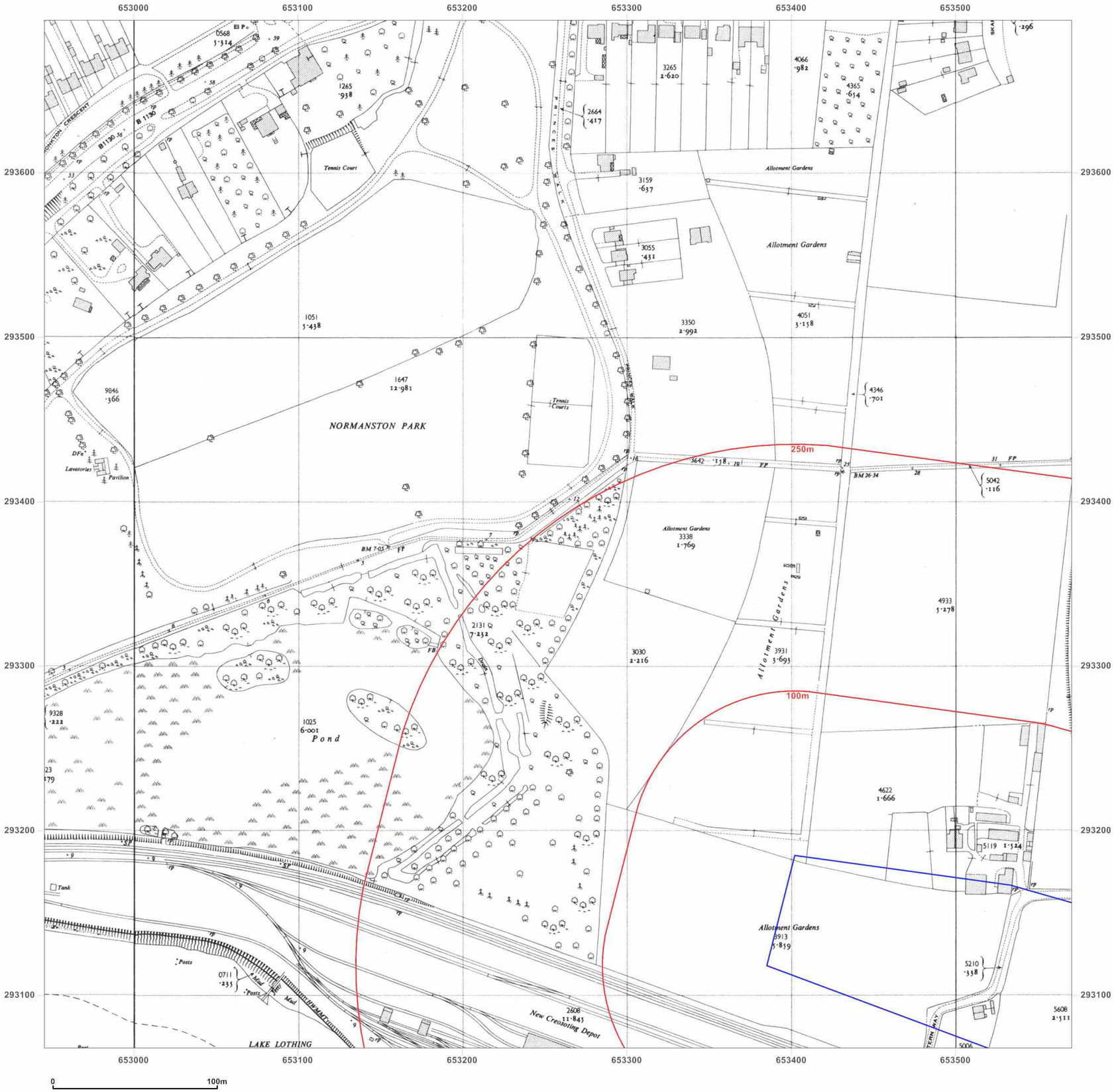


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FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_3
**Grid Ref:** 653258, 293380

**Map Name:** National Grid

**Map date:** **1949-1950**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
S

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1947

Surveyed 1949
Revised 1949
Edition N/A
Copyright N/A
Levelled 1947

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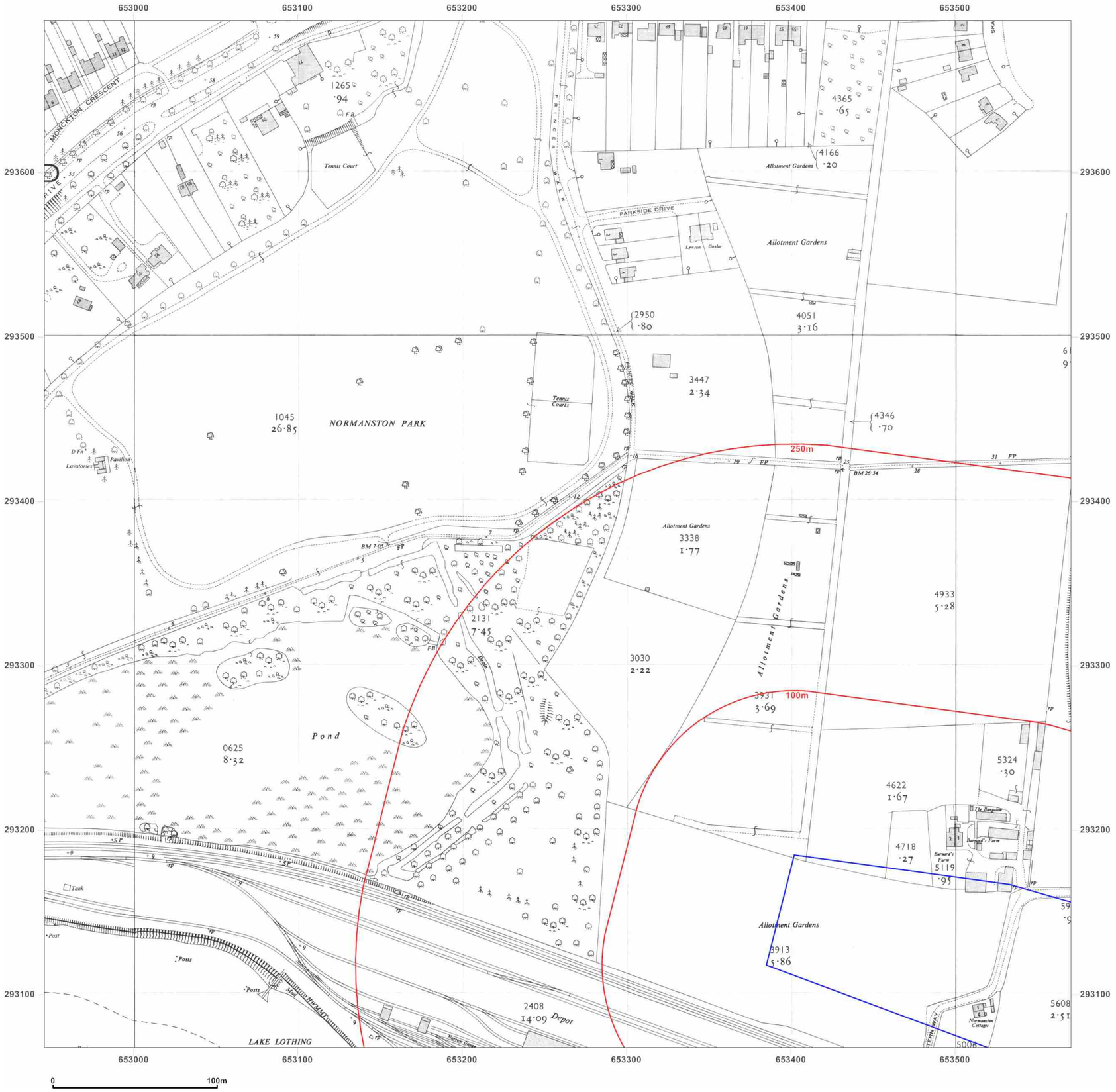


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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_3
**Grid Ref:** 653258, 293380

**Map Name:** National Grid

**Map date:** **1958**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
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Surveyed 1958
Revised 1958
Edition 1960
Copyright 1960
Levelled 1947

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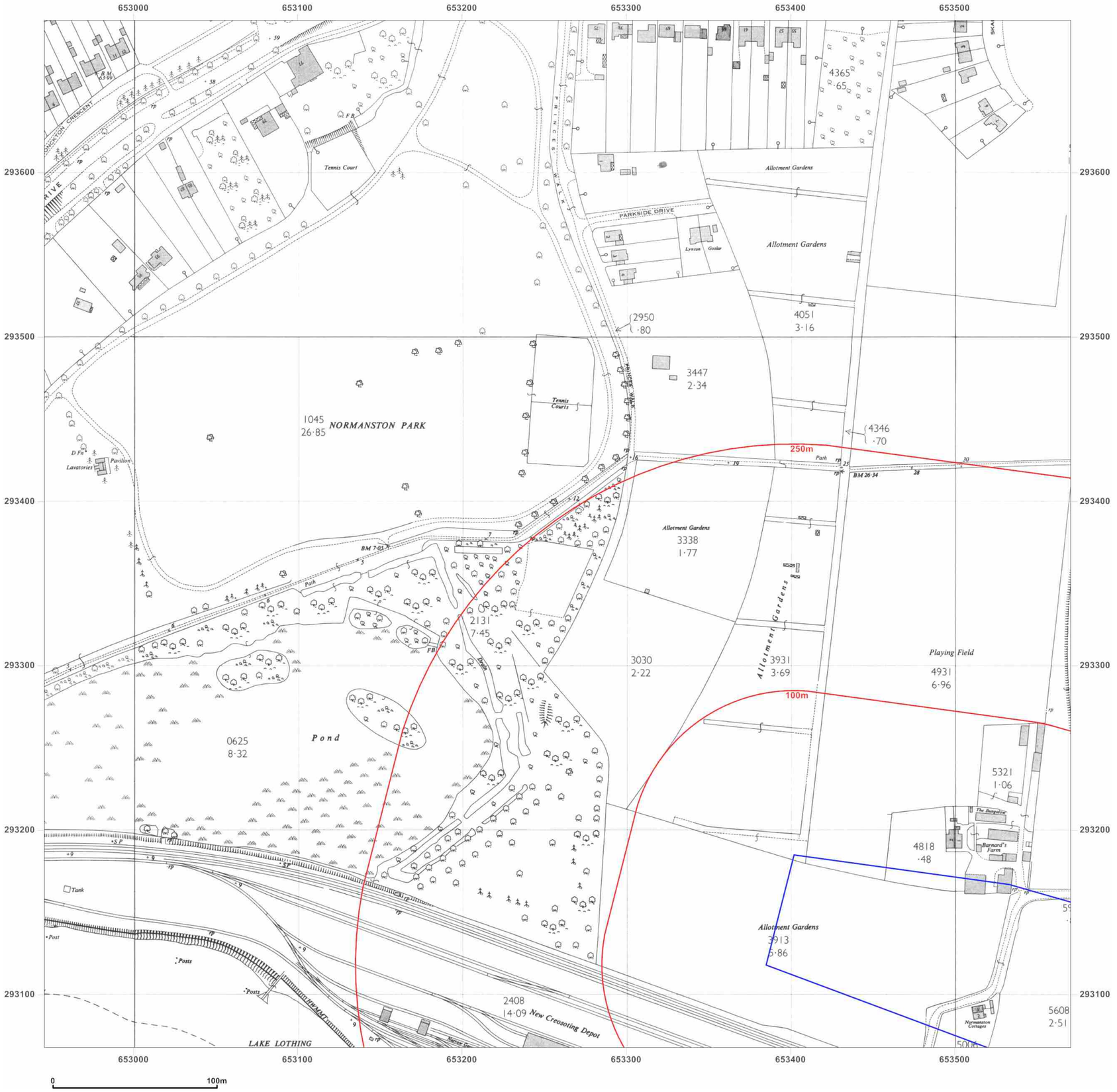


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FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_1_3
**Grid Ref:** 653258, 293380

**Map Name:** National Grid

**Map date:** **1963**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
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Surveyed 1960
Revised 1963
Edition 1966
Copyright 1966
Levelled 1958

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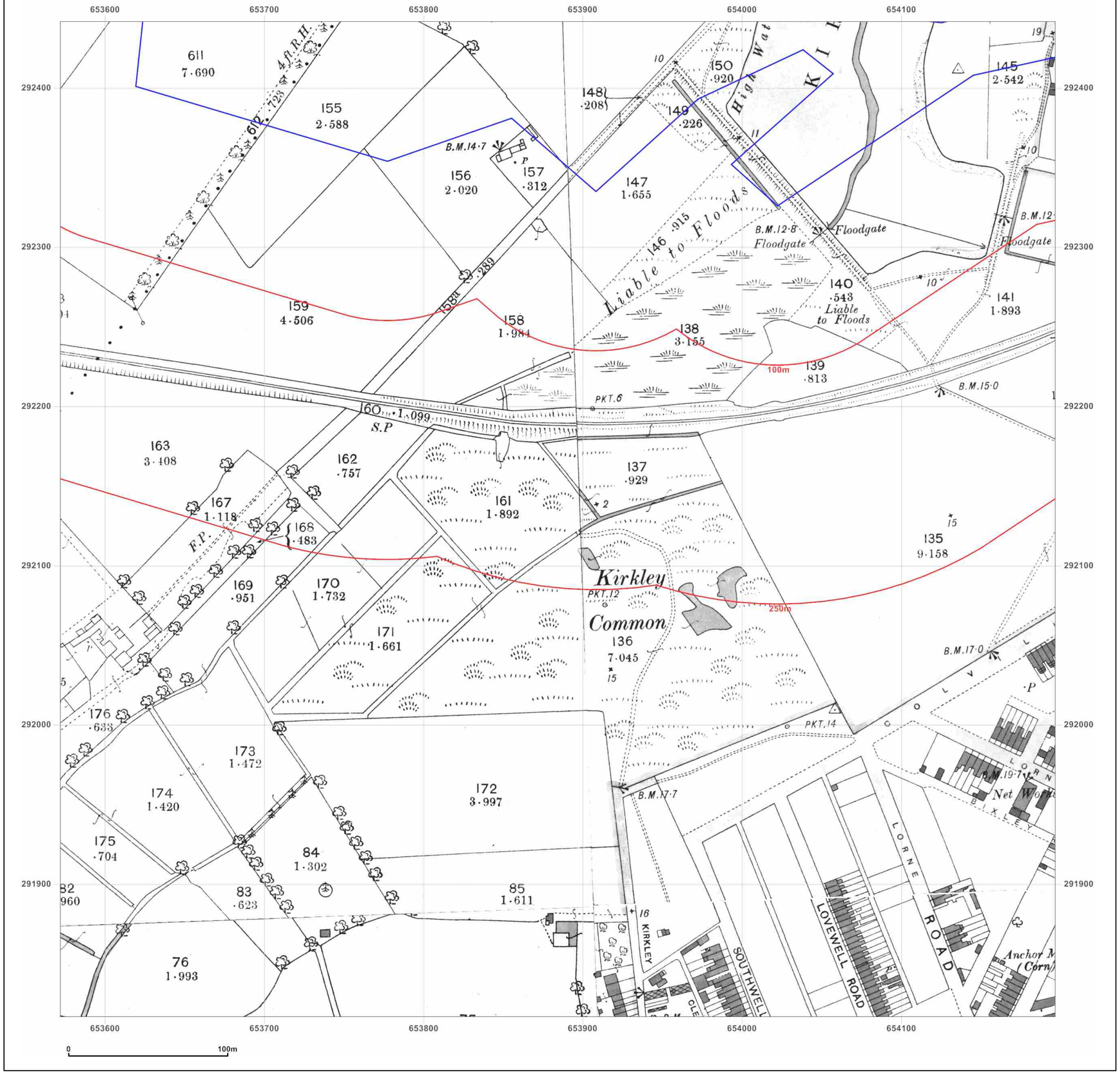


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_1
**Grid Ref:** 653884, 292129

**Map Name:** County Series
**Map date:** **1882-1883**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
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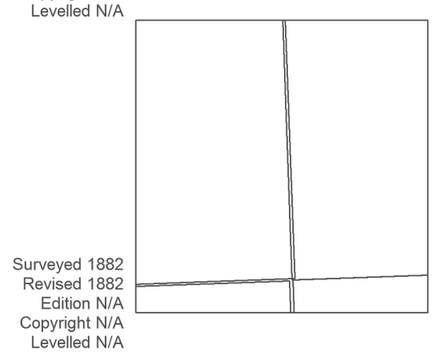


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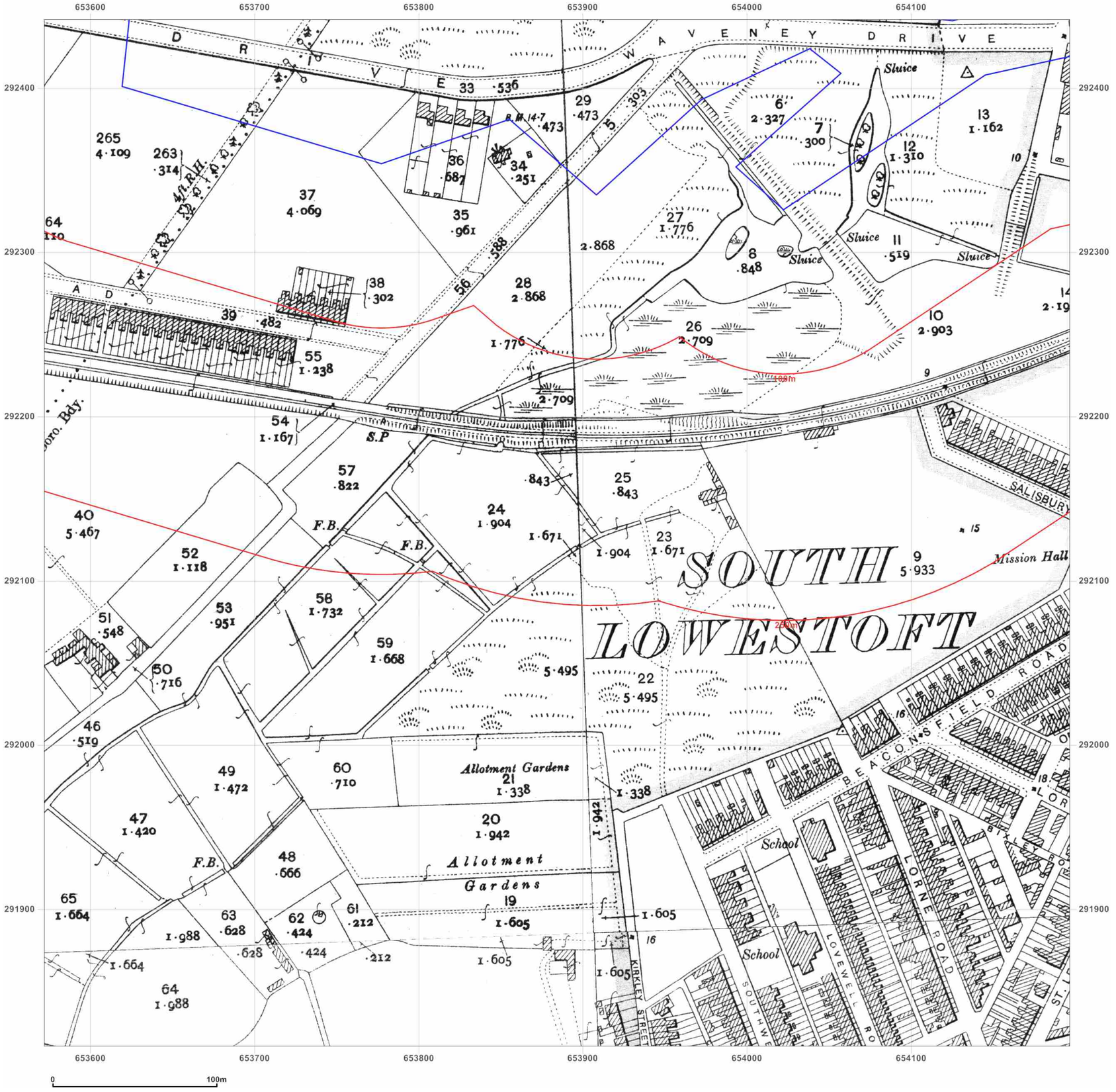


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_1
**Grid Ref:** 653884, 292129

**Map Name:** County Series

**Map date:** **1903-1904**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
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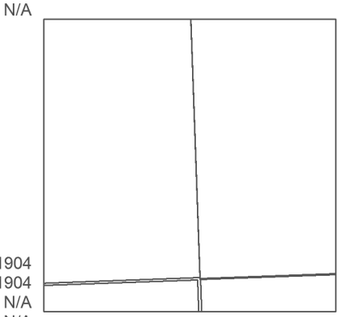
Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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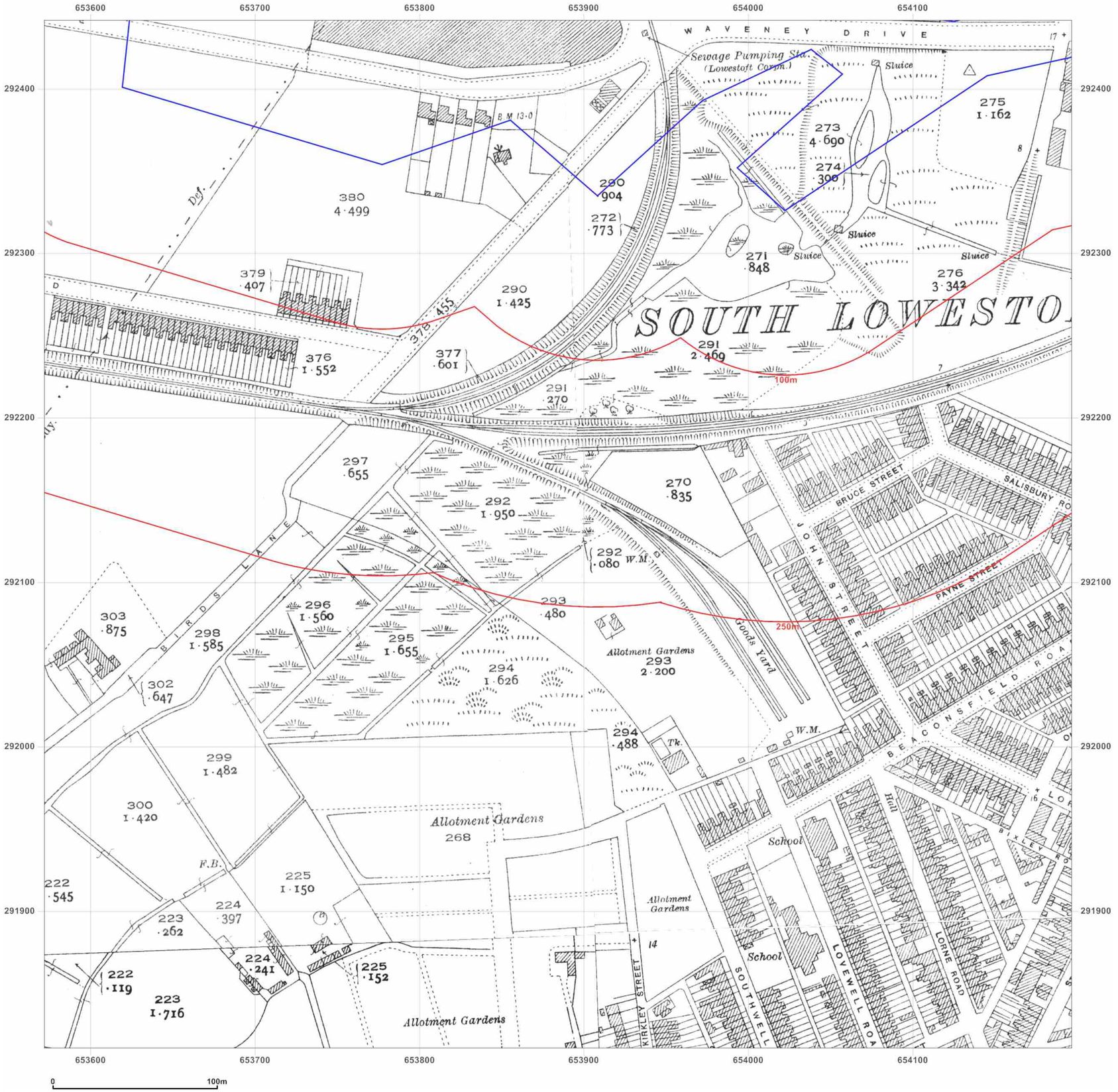


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_1
**Grid Ref:** 653884, 292129

**Map Name:** County Series

**Map date:** **1927**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
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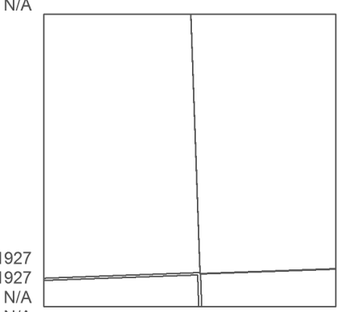
Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A

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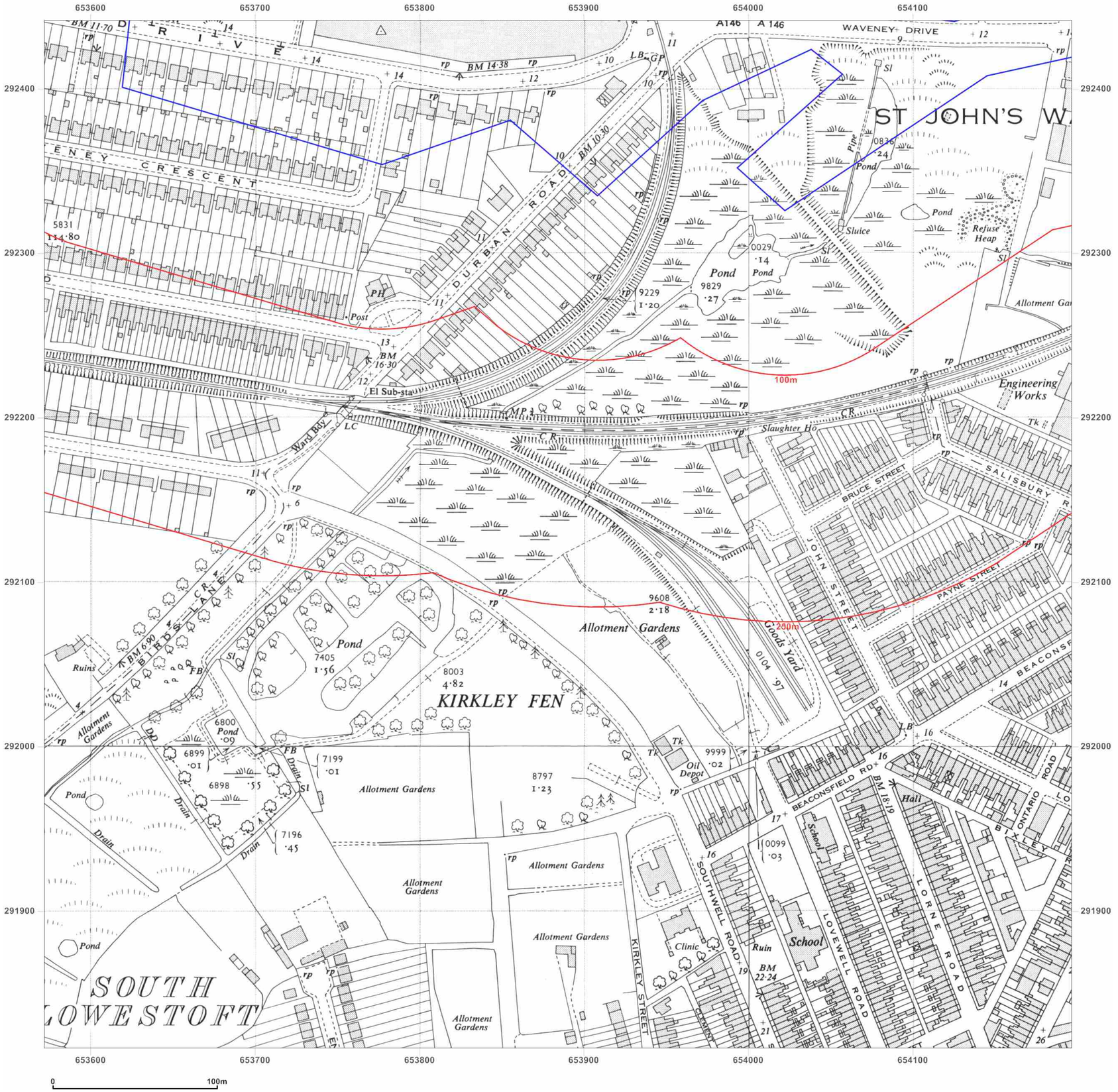


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FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_1
**Grid Ref:** 653884, 292129

**Map Name:** National Grid

**Map date:** **1950**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
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| | |
|---|---|
| Surveyed 1950<br>Revised 1950<br>Edition N/A<br>Copyright N/A<br>Levelled N/A | Surveyed 1950<br>Revised 1950<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 |
| Surveyed 1950<br>Revised 1950<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 | Surveyed 1950<br>Revised 1950<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 |

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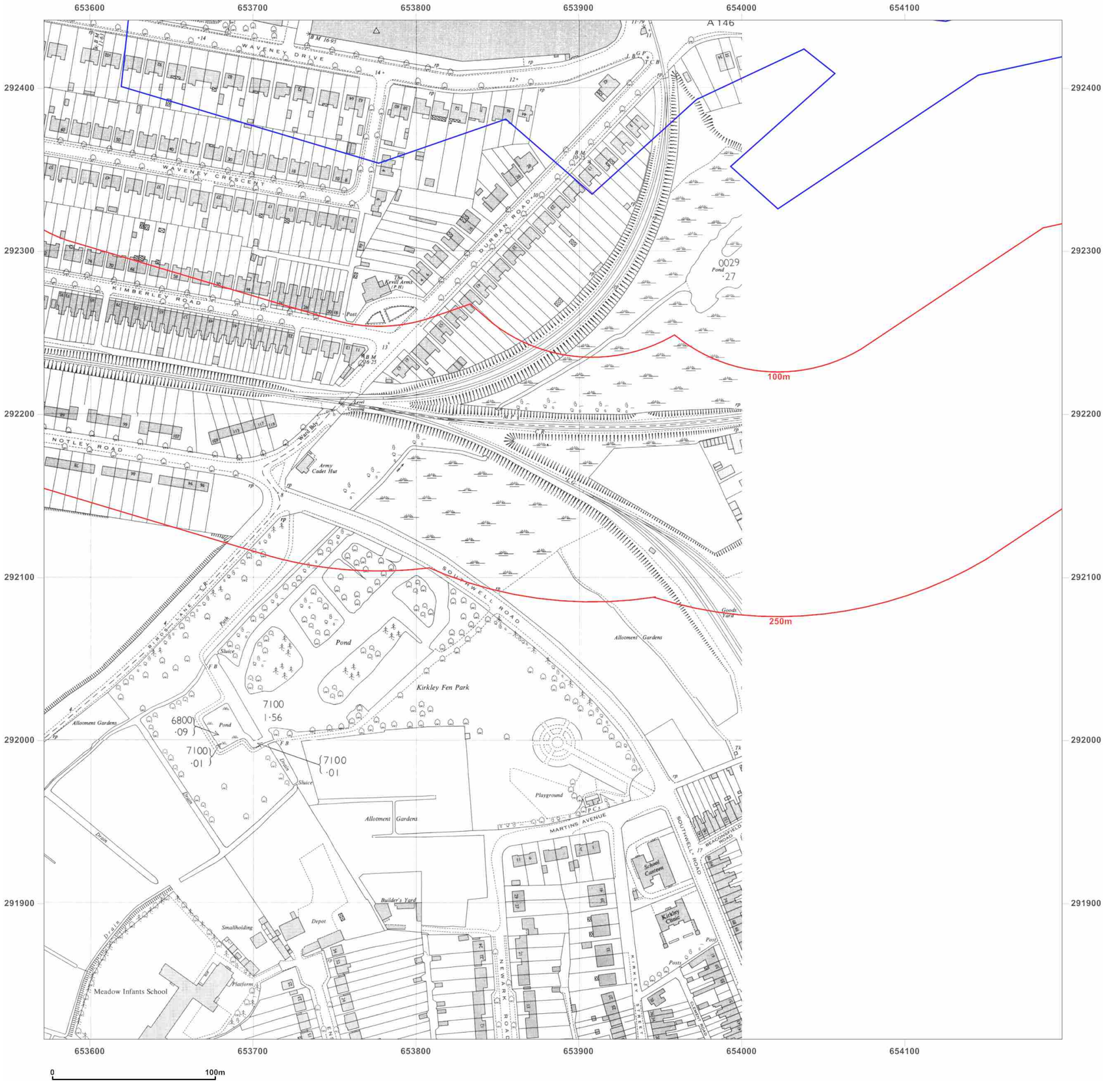


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_1
**Grid Ref:** 653884, 292129

**Map Name:** National Grid

**Map date:** **1964-1968**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
S

Surveyed 1964
Revised 1964
Edition N/A
Copyright 1967
Levelled 1958

Surveyed 1968
Revised 1968
Edition N/A
Copyright 1968
Levelled 1958

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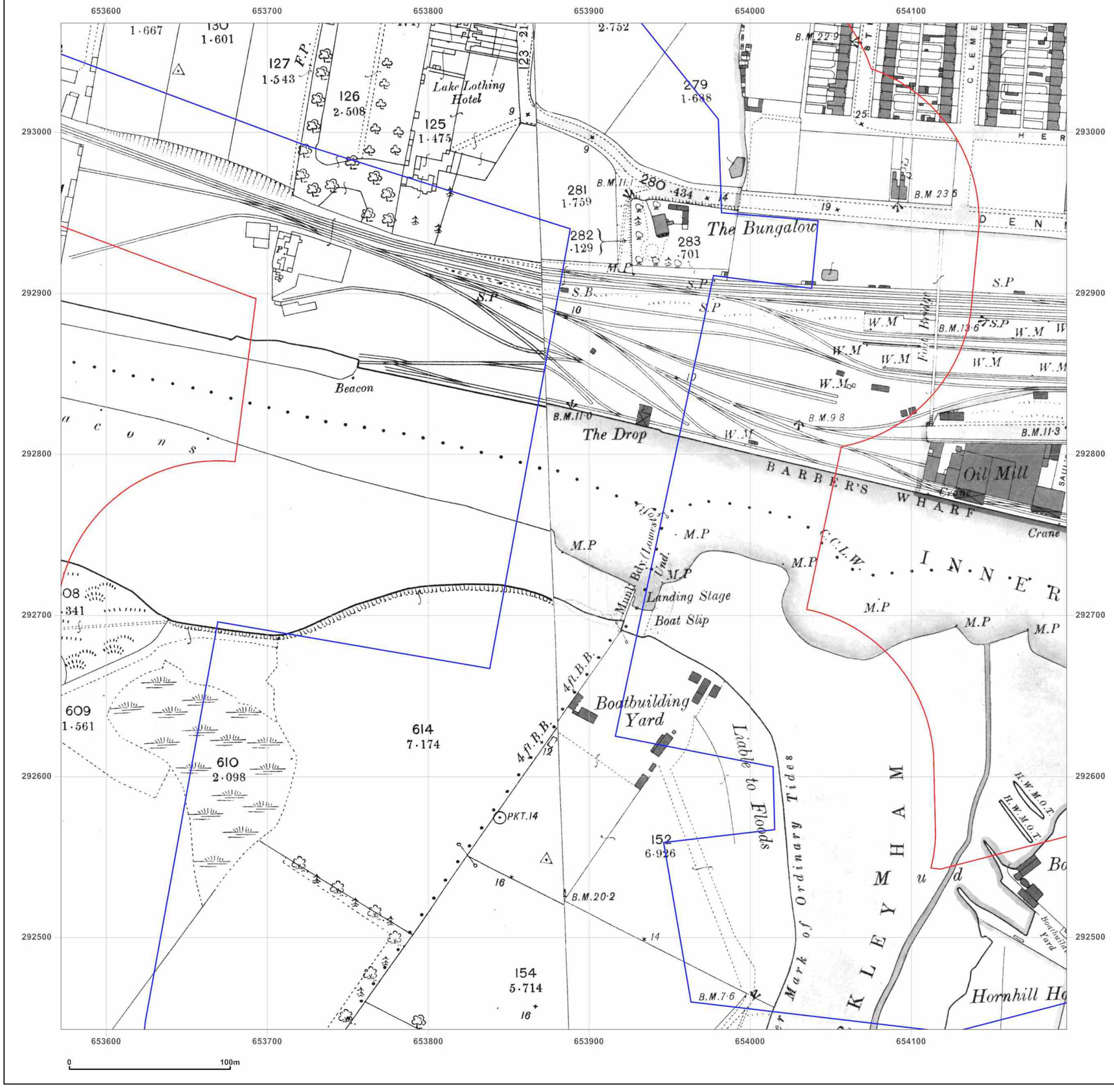


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_2
**Grid Ref:** 653884, 292755

**Map Name:** County Series

**Map date:** **1882-1883**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
S

Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1883
Revised 1883
Edition N/A
Copyright N/A
Levelled N/A

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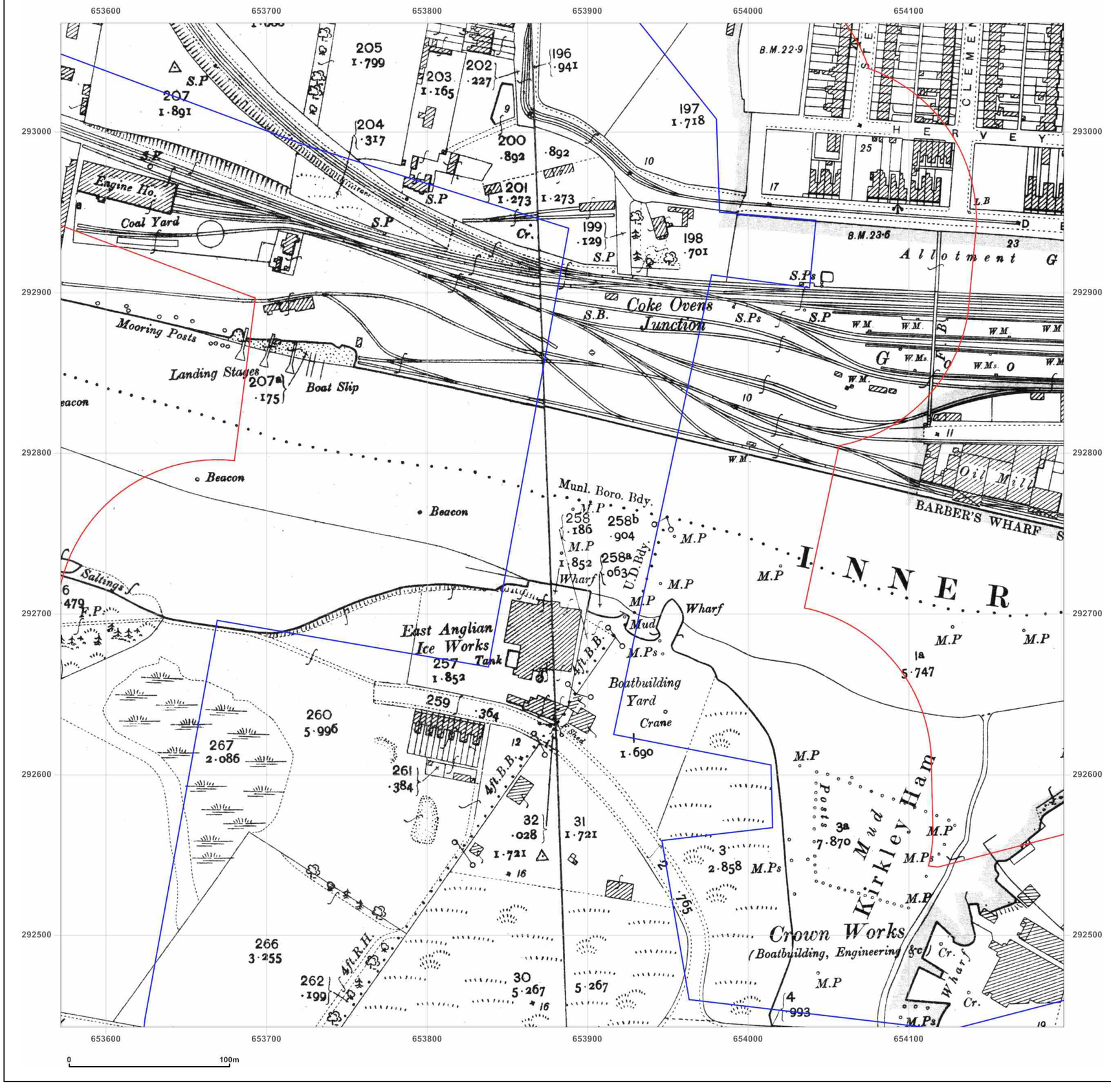


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FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_2
**Grid Ref:** 653884, 292755

**Map Name:** County Series

**Map date:** **1904**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
S

Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

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FOR A BETTER POINT OF VIEW

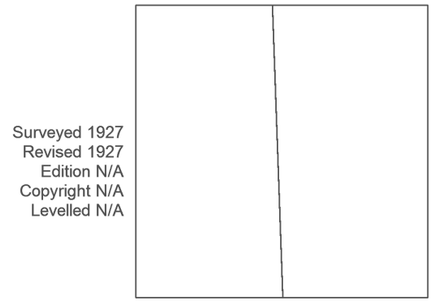
**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_2
**Grid Ref:** 653884, 292755

**Map Name:** County Series
**Map date:** **1927**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
W E
S

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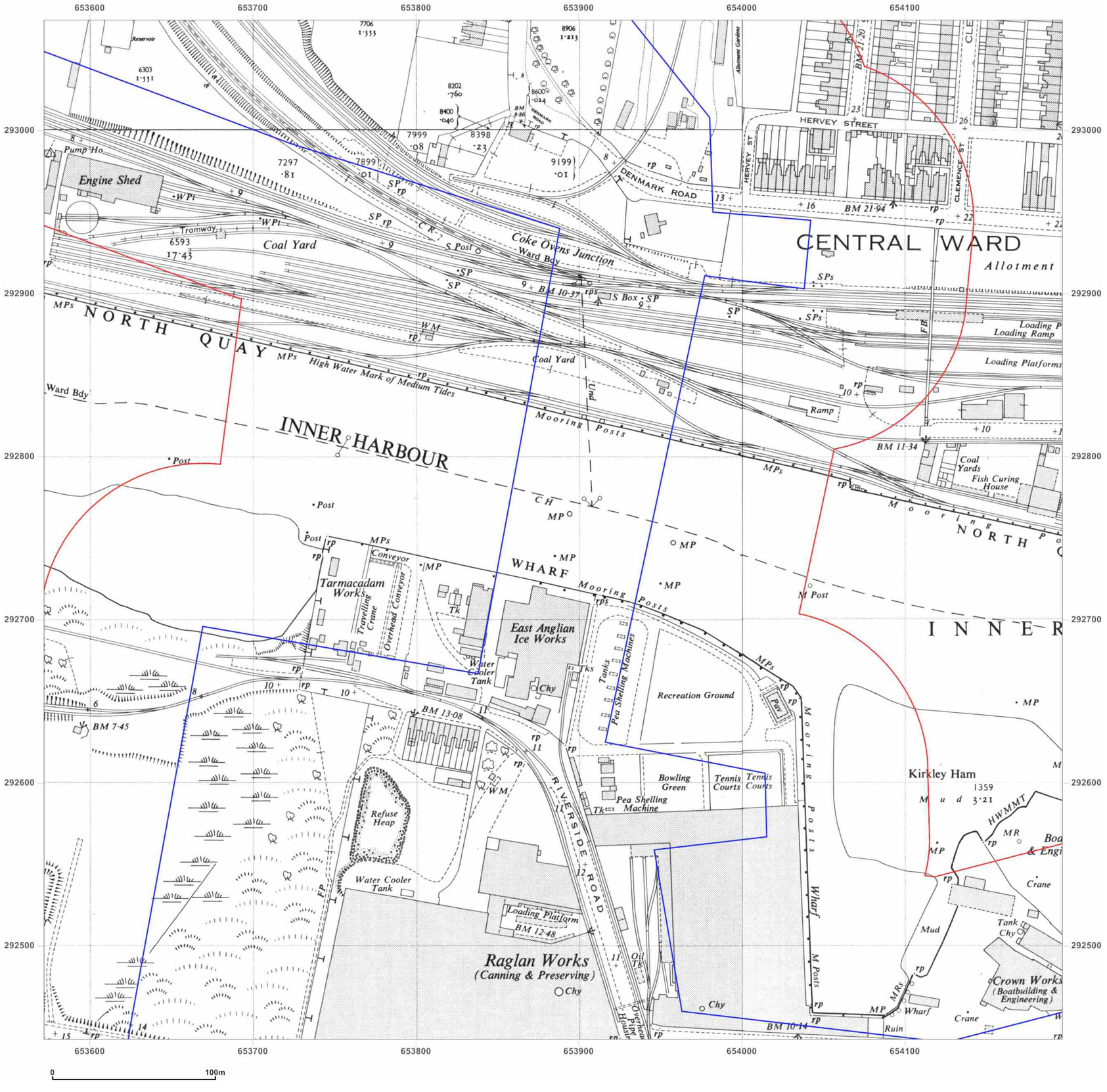


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_2
**Grid Ref:** 653884, 292755

**Map Name:** National Grid

**Map date:** **1949-1950**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
S

Surveyed 1949
Revised 1949
Edition N/A
Copyright N/A
Levelled 1947

Surveyed 1949
Revised 1950
Edition N/A
Copyright N/A
Levelled 1947

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1947

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_2
**Grid Ref:** 653884, 292755

**Map Name:** National Grid

**Map date:** **1963-1964**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
S

Surveyed 1960
Revised 1963
Edition 1966
Copyright 1966
Levelled 1958

Surveyed 1964
Revised 1964
Edition N/A
Copyright 1967
Levelled 1958

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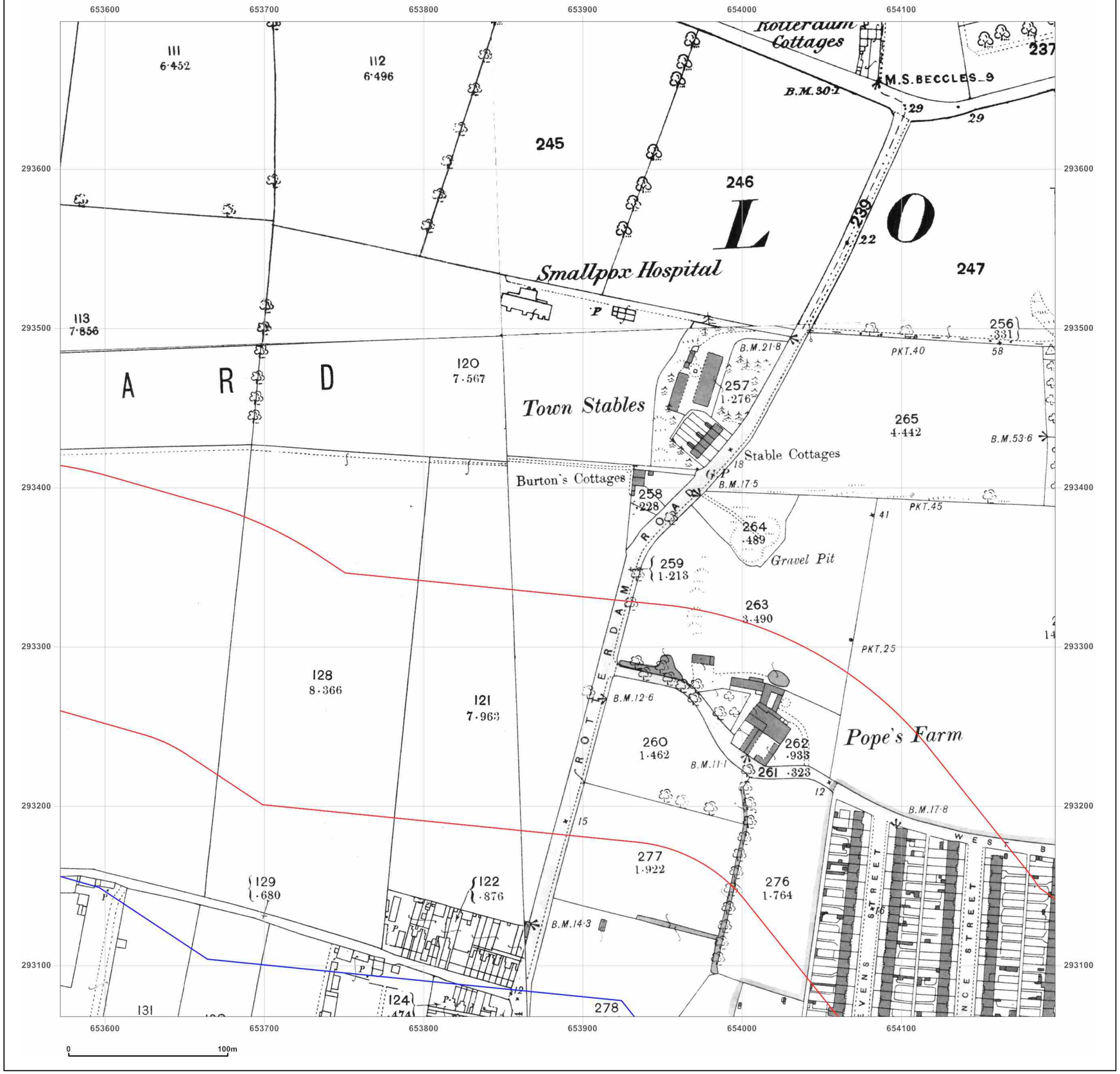


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FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

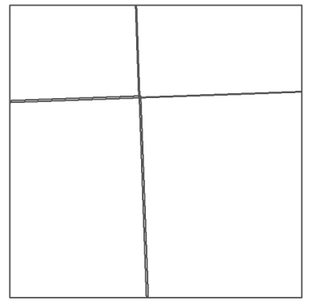
**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_3
**Grid Ref:** 653884, 293380

**Map Name:** County Series
**Map date:** **1882-1883**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
W E
S

Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1883
Revised 1883
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1883
Revised 1883
Edition N/A
Copyright N/A
Levelled N/A

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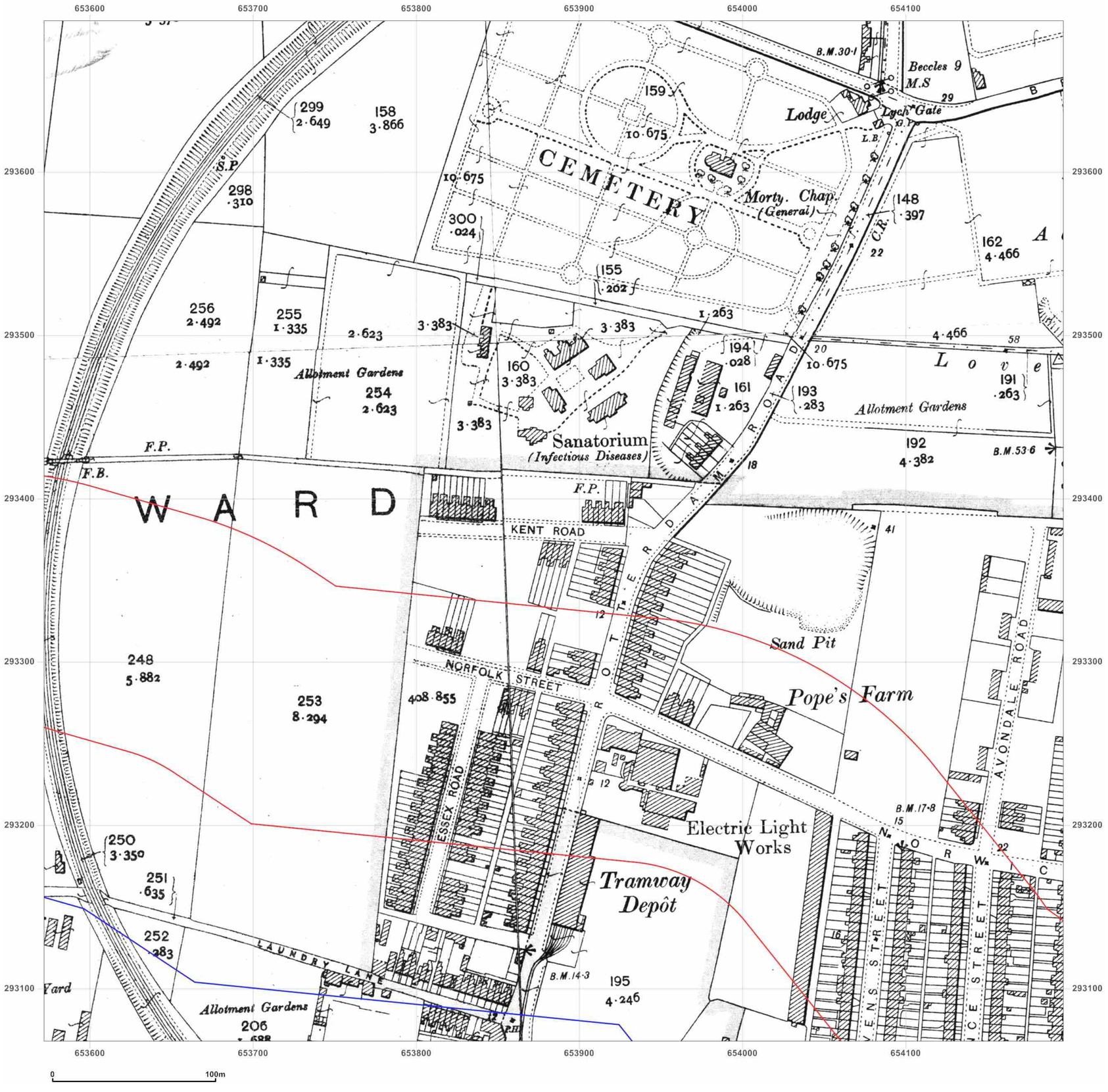


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**Site Details:**

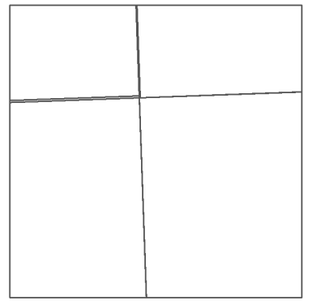
Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_3
**Grid Ref:** 653884, 293380

**Map Name:** County Series
**Map date:** **1904**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
W E
S

Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1904
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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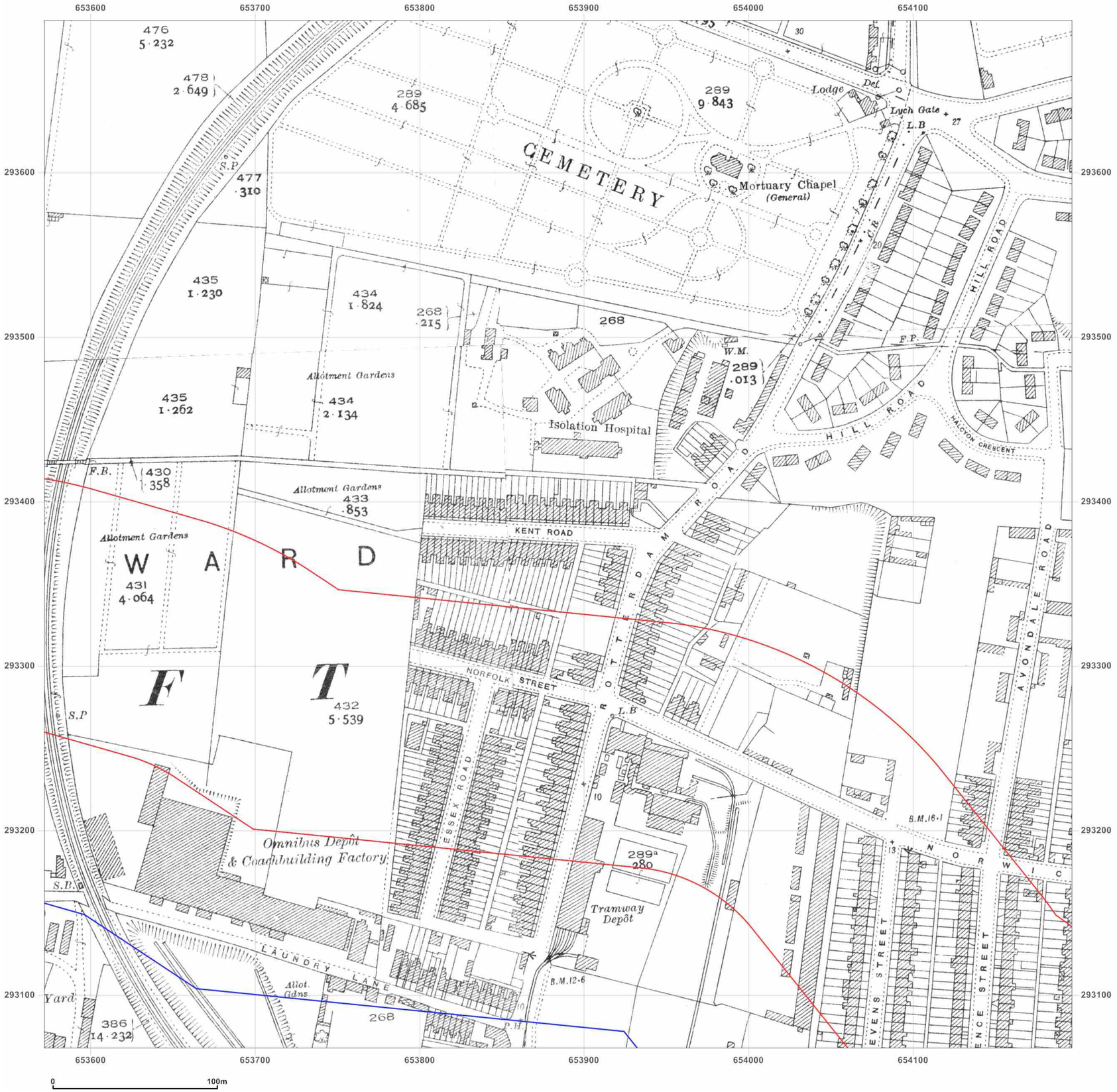


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FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_3
**Grid Ref:** 653884, 293380

**Map Name:** County Series
**Map date:** **1927**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
W E
S

Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_3
**Grid Ref:** 653884, 293380

**Map Name:** National Grid

**Map date:** **1949-1950**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
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| | | |
|---|---|---|
| Surveyed 1949<br>Revised 1949<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 | | Surveyed 1949<br>Revised 1950<br>Edition N/A<br>Copyright N/A<br>Levelled 1947 |

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_3
**Grid Ref:** 653884, 293380

**Map Name:** National Grid

**Map date:** **1958-1960**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
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| | |
|---|---|
| Surveyed 1958 | Surveyed 1960 |
| Revised 1958 | Revised 1960 |
| Edition 1960 | Edition 1962 |
| Copyright 1960 | Copyright 1962 |
| Levelled 1947 | Levelled 1958 |

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**Site Details:**

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**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_2_3
**Grid Ref:** 653884, 293380

**Map Name:** National Grid

**Map date:** **1963**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
S

Surveyed 1960
Revised 1963
Edition 1966
Copyright 1966
Levelled 1958

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**Site Details:**

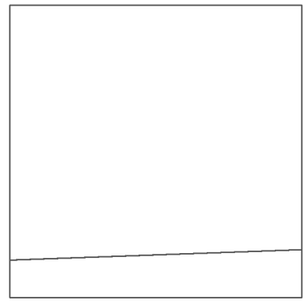
Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_3_1
**Grid Ref:** 654509, 292129

**Map Name:** County Series
**Map date:** **1883**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
W E
S

Surveyed 1883
Revised 1883
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1883
Revised 1883
Edition N/A
Copyright N/A
Levelled N/A

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_3_1
**Grid Ref:** 654509, 292129

**Map Name:** County Series
**Map date:** **1903-1904**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
W E
S

Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_3_1
**Grid Ref:** 654509, 292129

**Map Name:** County Series

**Map date:** **1927**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
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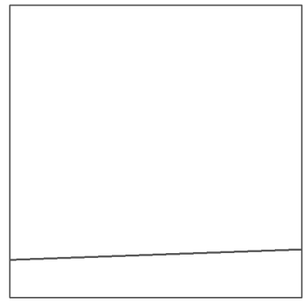
Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A

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FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_3_1
**Grid Ref:** 654509, 292129

**Map Name:** National Grid

**Map date:** **1950**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
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Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1947

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1947

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_3_2
**Grid Ref:** 654509, 292755

**Map Name:** County Series

**Map date:** **1883**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
S

Surveyed 1883
Revised 1883
Edition N/A
Copyright N/A
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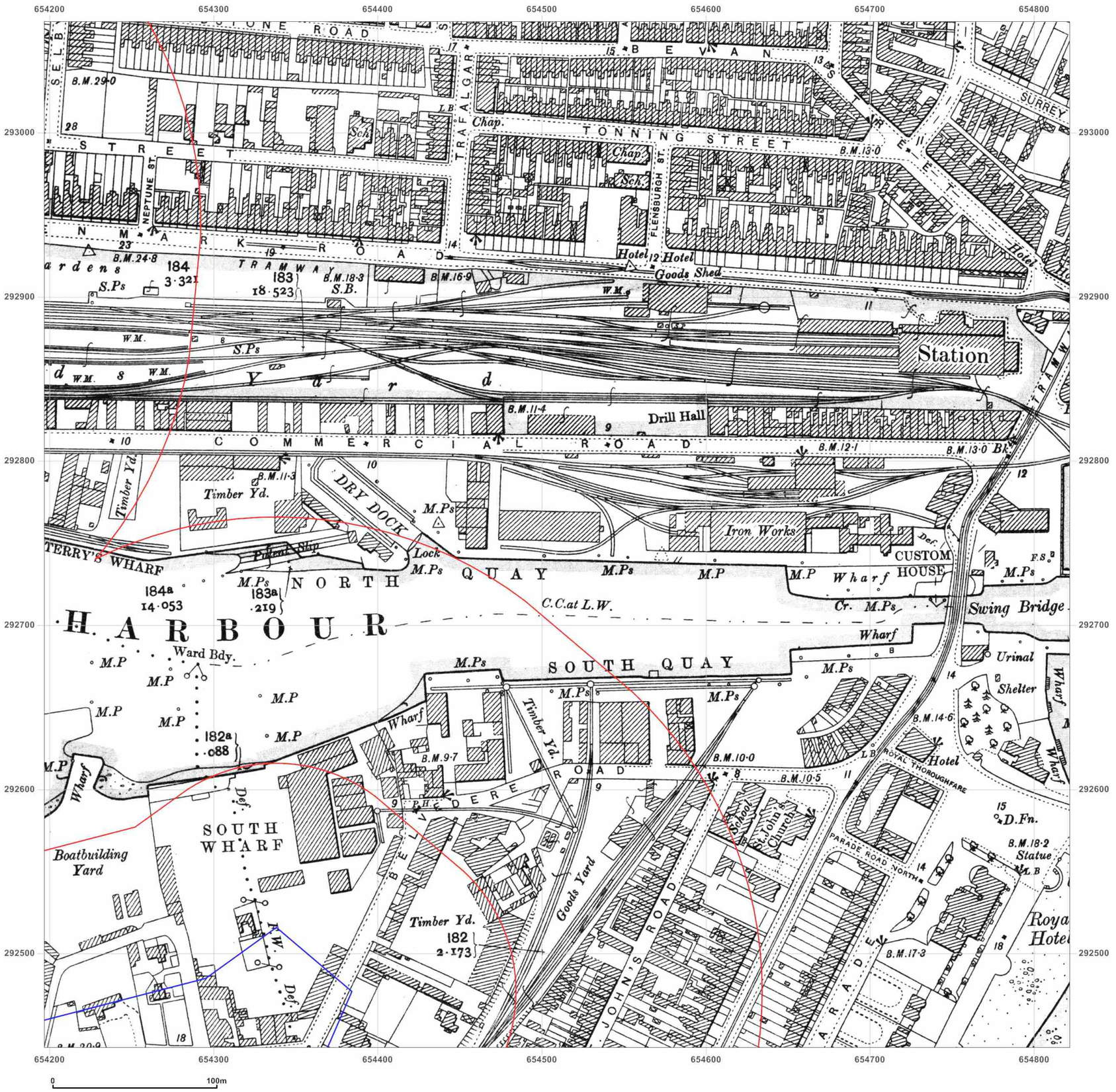


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_3_2
**Grid Ref:** 654509, 292755

**Map Name:** County Series
**Map date:** **1904**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
W E
S

Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
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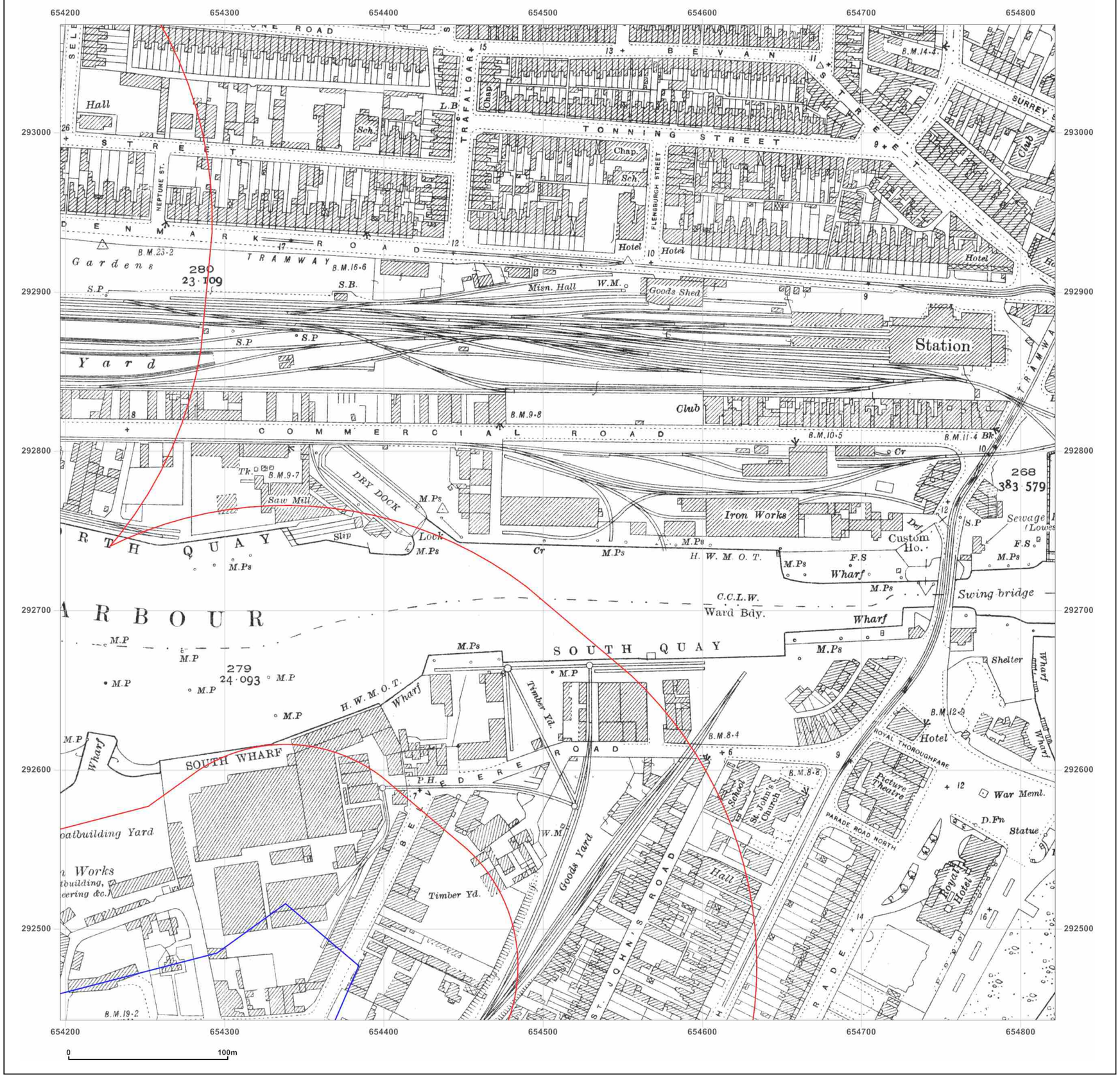


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_3_2
**Grid Ref:** 654509, 292755

**Map Name:** County Series
**Map date:** **1927**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
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Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_3_2
**Grid Ref:** 654509, 292755

**Map Name:** National Grid
**Map date:** **1950**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
W E
S

Surveyed 1949
Revised 1950
Edition N/A
Copyright N/A
Levelled 1947

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1947

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_3_3
**Grid Ref:** 654509, 293380

**Map Name:** County Series
**Map date:** **1883**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
W E
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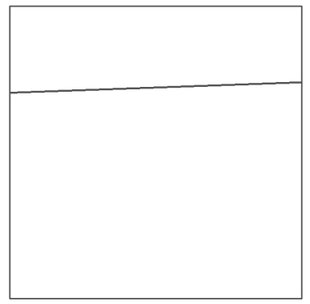
Surveyed 1883
Revised 1883
Edition N/A
Copyright N/A
Levelled N/A



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Revised 1883
Edition N/A
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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_3_3
**Grid Ref:** 654509, 293380

**Map Name:** County Series

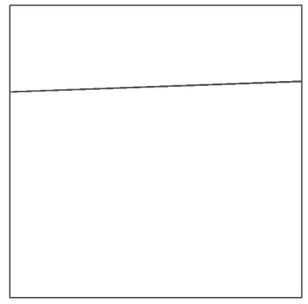
**Map date:** **1904**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
S

Surveyed 1904
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1904
Revised 1904
Edition N/A
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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_3_3
**Grid Ref:** 654509, 293380

**Map Name:** County Series
**Map date:** **1927**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
W E
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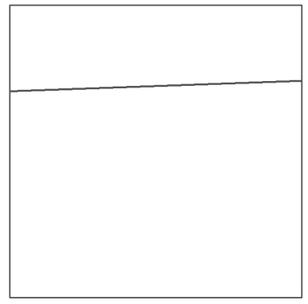
Surveyed 1927
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A



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Revised 1927
Edition N/A
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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_3_3
**Grid Ref:** 654509, 293380

**Map Name:** National Grid
**Map date:** **1950**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
W E
S

Surveyed 1949
Revised 1950
Edition N/A
Copyright N/A
Levelled 1947

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CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS_LS_3_3
**Grid Ref:** 654509, 293380

**Map Name:** National Grid

**Map date:** **1960**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
W E
S

Surveyed 1960
Revised 1960
Edition 1962
Copyright 1962
Levelled 1958

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS
**Grid Ref:** 653885, 292756

**Map Name:** County Series

**Map date:** **1883-1888**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

Surveyed 1883
Revised 1883
Edition N/A
Copyright N/A
Levelled N/A

~~Surveyed N/A~~
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS
**Grid Ref:** 653885, 292756

**Map Name:** County Series

**Map date:** **1904**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

Surveyed 1883
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

~~Surveyed 1882~~
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

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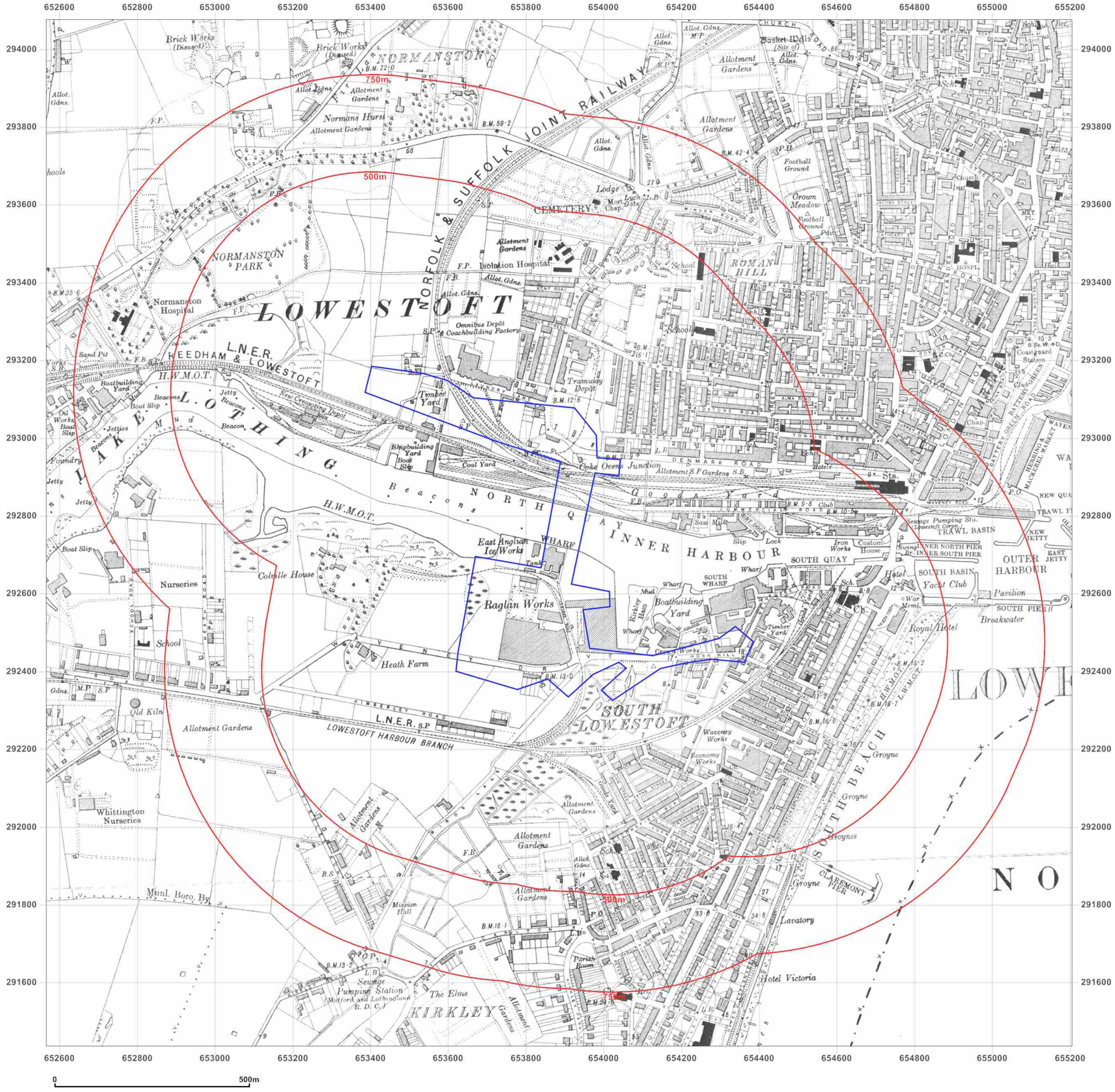


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS
**Grid Ref:** 653885, 292756

**Map Name:** County Series

**Map date:** **1926**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

Surveyed 1883
Revised 1926
Edition N/A
Copyright N/A
Levelled N/A

~~Surveyed 1882~~
Revised 1926
Edition N/A
Copyright N/A
Levelled N/A

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS
**Grid Ref:** 653885, 292756

**Map Name:** County Series

**Map date:** **1938**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

~~Surveyed 1883~~
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

~~Surveyed 1882~~
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS
**Grid Ref:** 653885, 292756

**Map Name:** County Series
**Map date:** **1946**
**Scale:** 1:10,560
**Printed at:** 1:10,560

N
W E
S

Surveyed 1883
Revised 1946
Edition N/A
Copyright N/A
Levelled N/A

~~Surveyed 1882~~
Revised 1946
Edition 1946
Copyright N/A
Levelled N/A

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS
**Grid Ref:** 653885, 292756

**Map Name:** Provisional
**Map date:** **1958**
**Scale:** 1:10,560
**Printed at:** 1:10,560

N
W E
S

Surveyed 1953
Revised 1956
Edition N/A
Copyright 1958
Levelled N/A

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS
**Grid Ref:** 653885, 292756

**Map Name:** National Grid

**Map date:** **1974**

**Scale:** 1:10,000

**Printed at:** 1:10,000

N
W E
S

Surveyed 1973
Revised 1974
Edition N/A
Copyright N/A
Levelled N/A

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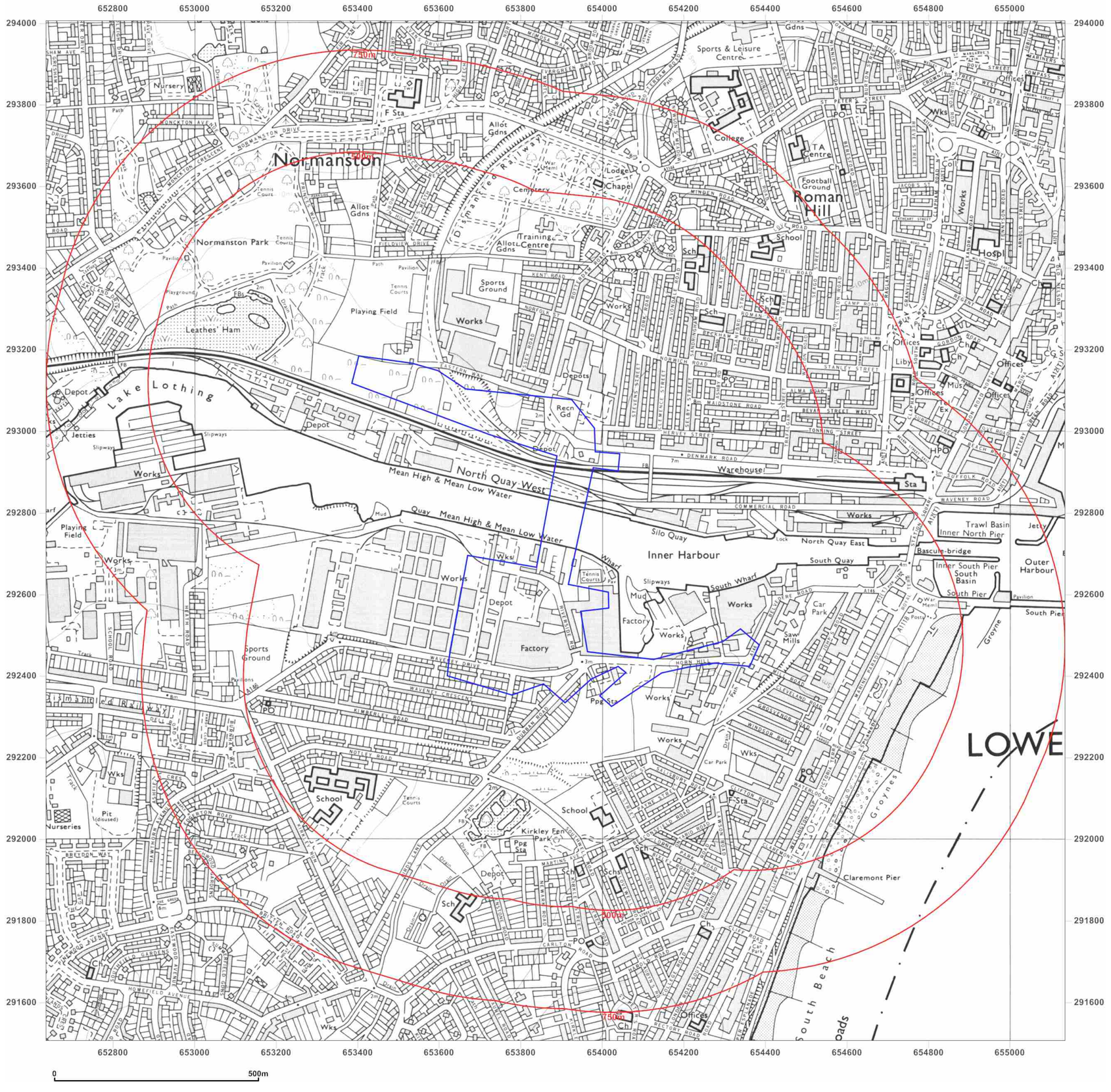


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS
**Grid Ref:** 653885, 292756

**Map Name:** National Grid

**Map date:** **1982**

**Scale:** 1:10,000

**Printed at:** 1:10,000

N
W E
S

Surveyed 1982
Revised 1982
Edition N/A
Copyright N/A
Levelled N/A

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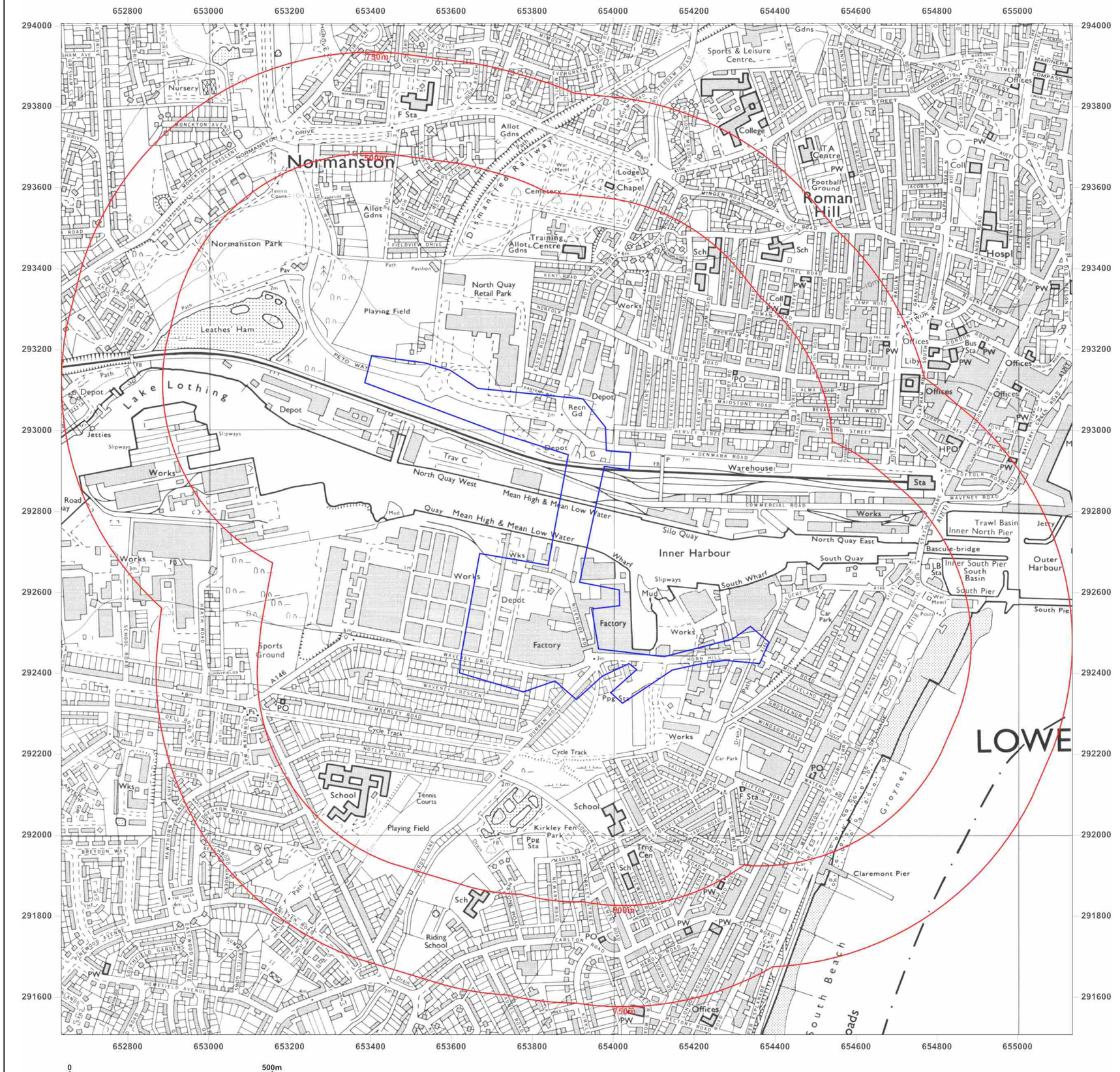


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS
**Grid Ref:** 653885, 292756

**Map Name:** National Grid

**Map date:** **1992**

**Scale:** 1:10,000

**Printed at:** 1:10,000

N
W E
S

Surveyed 1969
Revised 1992
Edition N/A
Copyright N/A
Levelled N/A

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**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS
**Grid Ref:** 653885, 292756

**Map Name:** 1:10,000 Raster

**Map date:** **2002**

**Scale:** 1:10,000

**Printed at:** 1:10,000

N
W E
S

2002

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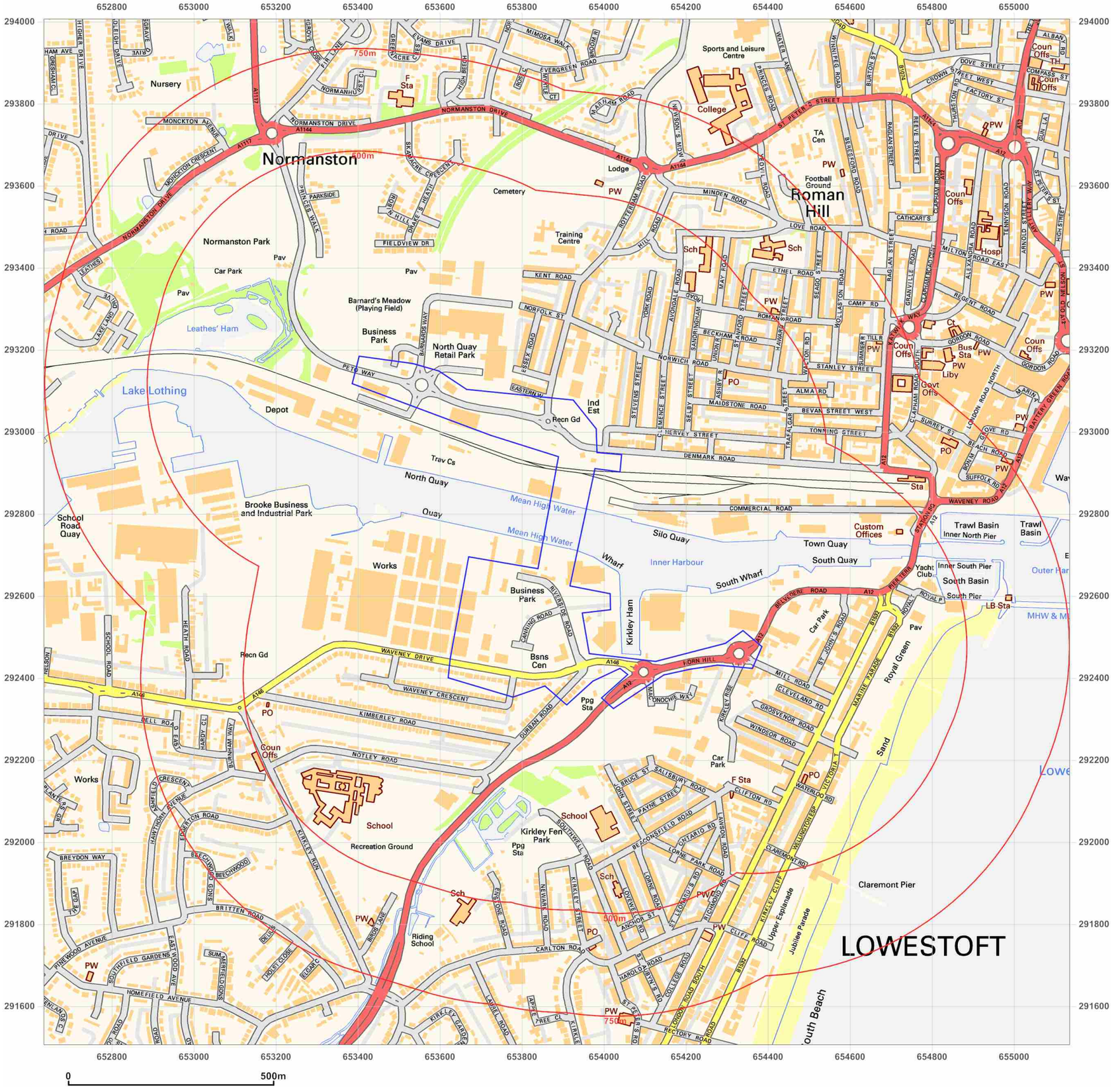


CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS
**Grid Ref:** 653885, 292756

**Map Name:** National Grid
**Map date:** **2010**
**Scale:** 1:10,000
**Printed at:** 1:10,000

N
W E
S

2010

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CENTRE MAPS LIVE.
FOR A BETTER POINT OF VIEW

**Site Details:**

Denmark Road Lowestoft

**Client Ref:** 16287
**Report Ref:** CMAPS-CM-535051-16287-070616HIS
**Grid Ref:** 653885, 292756

**Map Name:** National Grid
**Map date:** **2014**
**Scale:** 1:10,000
**Printed at:** 1:10,000

N
W E
S

2014

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# Appendix C – Site History

**Northern half of the site**

| | |
|---|---|
| 1883 | Agricultural land with some development marked including a hotel and residential properties. Railway lines (Great Eastern Railway) / sidings adjacent to the waterfront. Adjacent site uses are generally agriculture land, terraced housing and railway line. |
| 1904 | Timber yard at western end. Norfolk and Suffolk Joint Railway across middle of the site. Some additional unlabelled buildings but still lots of undeveloped land. Coke Ovens Junction marked at the eastern end. Development surrounding the site includes residential properties, tramway depot, electric light works, ship building yard. |
| 1926 | No significant changes on site. Adjacent land now includes a coal yard, further railway sidings, goods yard, laundry, omnibus depot . coachbuilding works, allotments |
| 1938 | No significant changes. |
| 1946 | No significant changes. |
| 1949 | Coal yard labelled on site adjacent to the waterfront. |
| 1958 | Allotment gardens marked at western end. Recreation ground in north east corner. Adjacent omnibus depot now marked as a factory. Coal yard adjacent to waterfront no longer marked. Immediately to the south, the coal yard, shipbuilding yard no longer labelled. |
| 1970 | Corporation Yard marked in the south east corner. Coal Depot marked on southern boundary with associated tank and hoppers. |
| 1974 | Depot marked in south east corner. Recreation ground is the only other site use labelled. The Norfolk and Suffolk Joint Railway is now labelled as dismantled. Adjacent to the north east corner terraced housing has been replaced by depots. Playing fields adjacent to the north west. Factory to the north now labelled as a works. Railway sidings immediately to the south have been redeveloped as depots and commercial / industrial buildings. Main through railway line still marked. |
| 1982 | No significant changes. |
| 1987 | Tank associated with farm close to the north west corner. |
| 1990 | Part of the former Corporation Yard now marked as a Recreation Ground. |
| 1992 | A new road (Peto Way) has been constructed through the centre of the site. Works to the north now redeveloped as 'North Quay Retail Park'. |
| 2002 | No significant changes. |
| 2010 | No significant changes. |
| 2014 | No significant changes. |

**Southern half of the site**

| | |
|---|---|
| 1883 | Thin strip of mudflats marked adjacent to the waterfront. South west part of the site is agricultural land with marsh. The south east part of the site includes a tributary of the lake and mudflats and developed land comprising commercial properties and roads. Gasometer marked on the 1:2,500 map in the south east corner of the site. Adjacent land comprises agricultural land, mudflats, possible residential and commercial / industrial properties, boat building yard (straddles the site boundary adjacent to the waterfront). Great Eastern Railway (Goods Section) approximately 175m to the south. |
| 1904 | Wharf now marked on the mudflats adjacent to the waterfront. Gasometer in the south east corner no longer marked. New road (Venney Drive) close to the southern boundary. Works and a wharf now adjacent to the site on the waterfront. Crown Works (on 1949 map sub-labelled as Boatbuilding and Engineering) adjacent. |
| 1926 | Large Raglan Works marked in the centre of the site with a branch of the L.N.E.R railway line curving through site and leading offsite to the west to an area of raised ground (possible waste disposal). Adjacent to the small tributary, large industrial building partly |

| | |
|---|---|
| | on site – unlabelled. Only adjacent site changes are East Anglian Ice Works and a tank adjacent to the waterfront. Boatbuilding yard no longer labelled. Great Eastern Railway now labelled as L.N.E.R (London and North Eastern Railway) (Lowestoft Harbour Branch) and includes a branch that curves off and enters site on the southern boundary. |
| 1927 | Sewerage pumping station close to the centre of the southern boundary. |
| 1938 | Raglan Works and unlabelled industrial building now labelled as Canning Factories. South east corner of the site appears to be starting to be developed for housing which spreads beyond the southern and south western boundaries. Boatbuilding yard now labelled adjacent to site towards the north east corner. |
| 1946 | Only significant change appears to be the residential properties on the south eastern boundary. |
| 1949 / 1950 | Oil tank adjacent to the Raglan Works (sub-labelled Canning and Preserving) but not marked on subsequent maps. Spoil heap(also labelled as a refuse heap) marked towards the north west corner, adjacent to the Raglan works building. Long row of tanks associated with the East Anglian Ice Works. Pea shelling machines adjacent to the Ice Works. Garage marked within the industrial buildings towards the south eastern corner. Tanks now marked in the south east corner at the location of the former gasometer. A Tarmacadam works located adjacent to the north west corner between the site and the waterfront. |
| 1958 | All large industrial buildings on and adjacent to the western end are labelled as works. Small mound marked towards the western end of the site. |
| 1964 | Large tank off site associated with the Tarmacadam Works. |
| 1970 | Two electricity sub stations in the north west corner. Tyre depot now labelled adjacent to the Ice Works. Third electricity sub station adjacent to the Tyre Depot. |
| 1974 | Western end of the site and beyond developed as a works. Parts of the L.N.E.R to the south have been dismantled. |
| 1982 | The L.N.E.R railway branch onto and across site is no longer marked. The offsite sections of the L.N.E.R have also been dismantled. |
| 1983 | Electricity sub station in the centre of the southern boundary. Ice Works and Tyre Depot removed and replaced by conveyors, hoppers and tanks. Cold Storage building still labelled at the west side of this area. |
| 1989 | Conveyors, hoppers and tanks on former Ice Works site are no longer marked. |
| 1992 | No significant changes. |
| 2002 | Riverside Business Park labelled in the centre of the site. |
| 2010 | New road layout along the south east boundary. |

# Appendix D – Risk Calculation Matrices

## Consequence of Risk Being Realised (based on C552 CIRIA, 2001)

| Consequence of risk being realised | | | |
|---|---|---|---|
| **Classification** | **Category** | **Definition** | **Examples** |
| **Severe**<br>short-term (acute) risks only | Humans | Short-term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, Part 2A. | High concentrations of cyanide on the surface of an informal recreation area. |
| | Controlled Waters | Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. | Major spillage of contaminants from site into controlled water. |
| | Property | Catastrophic damage to buildings/property. | Explosion causing building collapse (can also equate to a short-term human health risk if buildings are occupied. |
| | Ecological System | A short-term risk to a particular ecosystem, or organism forming part of such ecosystem. | |
| **Medium**<br>chronic (long-term) risks; "significant harm" | Humans | Chronic damage to Human Health ("significant harm" as defined in Defra 2006). | Concentrations of a contaminant from site exceed the generic, or site-specific assessment criteria |
| | Controlled Waters | Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution). | Leaching of contaminants from a site into a major or minor aquifer. |
| | Ecological System | A significant change in a particular ecosystem | Death of a species within a designated nature reserve. |
| **Mild**<br>chronic (long-term) risks; less sensitive receptors | Controlled Waters | Pollution of non-sensitive water resources. | Pollution of non-classified groundwater. |
| | Property | Significant damage to buildings, structures and services ("significant harm" as defined in Circular on Contaminated Land, Defra, 2006). Damage to sensitive buildings/structures/services | Damage to building rendering it unsafe to occupy (e.g., foundation damage resulting in instability) |
| | Ecological System | Significant damage to crops. Damage to the environment. | |
| **Minor**<br>chronic (long-term) risks; mild | Financial / project | Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. | |
| | Humans | Non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc). | The presence of contaminants at such concentrations that protective equipment is required during site works. |
| | Property | Easily repairable effects of damage to buildings, structures and services | The loss of plants in a landscaping scheme.<br>Discolouration of concrete. |

## Probability of Risk Being Realised (C552 CIRIA, 2001)

| Probability of risk being realised | |
|---|---|
| **Classification** | **Definition** |
| **High Likelihood** | There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution. |
| **Likely** | There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the sort term and likely over the long term. |
| **Low Likelihood** | There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term. |
| **Unlikely** | There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term. |

## Risk Classification Matrix (C552 CIRIA, 2001)

| Risk classification matrix | | | | | |
|---|---|---|---|---|---|
| (CIRIA C552, 2001, page 82) | | **Consequence** | | | |
| | | **Severe** | **Medium** | **Mild** | **Minor** |
| **Probability** | **High Likelihood** | Very High | High | Moderate | Moderate/ Low |
| | **Likely** | High | Moderate | Moderate/ Low | Low |
| | **Low Likelihood** | Moderate | Moderate/ Low | Low | Very Low |
| | **Unlikely** | Moderate/ Low | Low | Very Low | Very Low |

## Risk Classification Definitions (C552 CIRIA, 2001)

| Risk classification definitions | |
|---|---|
| **Very High** | There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required. |
| **High** | Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term. |
| **Moderate** | It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term. |
| **Moderate / Low** | |
| **Low** | It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild. |
| **Very Low** | There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe. |