PROPOSED RESIDENTIAL DEVELOPMENT AT BANBURY DEPOT SITE

Preliminary Land Quality Risk Assessment

Prepared for: Motor Fuel Ltd

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1.0 Introduction

1.1 Context and Terms of Reference

SLR Consulting Limited (SLR) was commissioned by Motor Fuel Ltd (MFL) to undertake a Preliminary Land Quality Risk Assessment (PLQRA) in support of their proposed residential development on land occupied by current and former oil depot(s) off Tramway Road, Banbury (the Site).

This report presents the findings of the PLQRA, collating information with respect to the Site's environmental setting, land use history and previous environmental investigation reports in order to assess the potential for contamination. The report has been prepared to evaluate the suitability of the Site for residential development.

This report has been prepared in accordance with the terms and conditions of the SLR-MFG memorandum of agreement dated 1st February 2019.

1.2 Background and Objectives

SLR understands that the Motor Fuel Limited is proposing to redevelop the Site for residential apartments as part of the wider development of central Banbury.

The objective of this desk-based assessment is to summarise the available relevant information to establish potential risks to human and environmental receptors presented by the Site, i.e. the environmental condition of the Site, presence of any historic or recent soil and groundwater contamination; any other notable matters of environmental risk and assess the potential suitability for its development for residential housing.

1.3 Sources of Information

SLR has collected and reviewed various reports and maps to characterise the site and its surrounds including:

- A Groundsure "Enviro and Geo Insight" report on Site conditions dated July 2020 (Appendix 01);
- Historical Ordnance Survey Mapping (Appendix 02);
- Environmental Information provided on the MAGIC website;
- Information provided on the British Geological Survey website;
- Copies of previous environmental investigations and groundwater monitoring reports and quantitative risk assessments associated with the ongoing operation of the Site; and,
- Proposed Site Plan prepared to illustrate the development and layout plan for the Site (Appendix 03)

The information from the above sources is included within the following sections of this report.

2.0 Site Information

2.1 Site Description

The Site that is the subject of this planning application is outlined in red in Figure 1 below and comprises the following land in the following uses:

- Operational Certas Oil Depot (COD) occupying the southern half of the Site; and,
- Disused, fenced off and somewhat overgrown land containing residual buildings and structures associated with part of a second former Oil Depot (FOD -blue outline) adjacent to the north of COD .

Figure 1: Aerial Photograph of the Site

The area of the FOD shaded yellow in Figure 1 is land outside of the ownership or control of Motor Fuel Ltd. The small orange triangle highlights the location of an electricity substation.

The COD is an operational oil depot that stores diesel, kerosene and gasoil (red-diesel) in above ground atmospheric tanks. Fuel is delivered to the depot for storage by articulated road tanker. The storage tanks discharge fuel to rigid delivery tankers via above ground pipework and a bottom-loading skid installed beneath a loading gantry. The operational depot facilities are described in more detail in Section 2.2 below.

SLR undertook a walkover visit to the Site on 6th August 2020 and this included meeting and discussion with James Harrison the Certas Depot (COD) manager. During the visit Mr Harrison confirmed that:

- The oil water interceptor on the storm drainage system is regularly inspected and cleaned on a 6-monthly cycle;
- There have been no material leaks or spills of hydrocarbon fuels at the depot during his time managing the Site. Two minor fuel weeps were identified; one from a seal failure on transfer pumps to the gantry into a bunded area, that had recently been repaired; and a drip from the kerosene meter on the loading skid that was awaiting repair.

SLR undertook a walkover visit to the FOD on 4th November 2020. The FOD comprises two separate plots of land accessible from Tramway Road. The central plot is surfaced with a combination of asphalt and concrete and is overgrown with buddleia; the only piece of remnant depot infrastructure is a bund wall formerly used for a vertical tank (tank is no longer present) and a section of storm drainage. The northernmost part of the Site comprises an overgrown inaccessible yard containing an above ground disused oil tank in a bund, a former office building, garage building and a disused oil water interceptor below ground on the storm water drainage. The north-west corner of the depot, in the vicinity of the disused above ground tank and interceptor, was covered with impenetrable vegetation.

2.2 Site Details

The following tables summarise the details of the Site, its history and setting. The information populating Tables 2-1 to 2-3 has been derived from a desk-based review of existing and published information; an inspection and walkover completed on 27 July 2020 with the FOD inspected on 4th November 2020.

2.2.1 Site Details and Use

Table 2-1 – Site Details and Use

Site Address	Banbury Depot Site, Tramway Road, Banbury, OX16 5TD	
National Grid Reference	446134, 240333	
Site Area	0.7 Hectares (approximately).	
Current Site Use	The Site is located to the west of Tramway Road and east of the River Cherwell. An operational oil depot occupies the southern half of the Site leased to Certas; the northern half is an area of disused land historically occupied by oil depot facilities.	
Site Details	Buildings	The COD site has one permanent single storey brick built, flat roofed office building with toilets/changing rooms to rear. The current office is housed in a pair of modular cabins in the south-west corner. There is also

Site Address	Banbury Depot Site, Tramway Road, Banbury, OX16 5TD	
		a plant room and a separate ladies' toilet in a small modular building. The plant room has a concrete slab floor. On the FOD site there is a disused, potentially unsafe office building of wood clad construction with what appears to be an asbestos cement board roof. To the rear of the office there is also a garage building that was empty and dilapidated at the time of SLRs visit.
	External areas	The COD yard area is surfaced with a concrete apron, which was noted to be in fair condition at the time of the visit; the area to the north of the tanks and around the substation is laid to grass. The FOD yards are surfaced with a combination of concrete and asphalt becoming overgrown with shrubs.
	Drainage system	It is understood that the Site has separate surface water and foul water drainage to adopted sewer systems. There is an oil water interceptor in the south-east corner of the COD; this is maintained by Certas and emptied on a 6-monthly cycle. Plans for the FOD indicate that there was a three chamber interceptor in the north-west corner of the that subsequently discharges into drainage shared with the depot to the north; this is off-site depot is also operated by Certas. Foul drainage from the COD toilet block appears to be connected to off-site foul drains via a rising main.
	Underground storage tanks	No underground fuel storage tanks are understood to be present on the Site. One suspected, disused underground storage tank with a "BP" logo on the manhole is present off-site to the east close to the eastern boundary of the FOD site (see Appendix 04).
	Above ground storage tanks	The COD site has the following operational above ground storage tanks for liquid storage, as follows: • One vertical single wall kerosene tank of 493,000 litre capacity; • Three horizontal single wall diesel tanks each of 53,000 litre capacity; • Two steel double-skinned Gasoil tanks (tank 6&7) of 120,00 litre capacity; and, • Two double skinned plastic heating oil tanks of around 500 litre capacity, each separately serving the toilet building and the offices (portacabins). The FOD site contains a single tank bund with a disused single wall tank formerly used for kerosene storage of 35,000 litre capacity.
	Electricity Substations	An electricity substation is present in the eastern edge of the Site in a small triangular enclosure. It appears to belong to the local Distributed Network Operator and is labelled "Shell-Mex Depot".

Site Address	Banbury Depot Site, Tramway Road, Banbury, OX16 5TD	
	Materials usage and waste	Waste storage was in standard wheeled containers on the COD site. No notable accumulations of waste material or discarded equipment were noted on-site. The Plant room was also used to store a pallet of pre-packed 25 litre containers of kerosene for customer collection; and four 205 litre drums of "Glowmax" kerosene additive.
	Site permits, licences, consents, etc	There are no environmental permits or consents associated with the COD site.
	Vegetation	Adjacent to the western site boundary, the bank to the River Cherwell is lined with trees and shrub vegetation. The northern third of the COD is surfaced with grass. The FOD area is overgrown with buddleia and similar shrub species.
Surrounding Land Use	North	An oil depot, currently owned/used by Certas containing an office building, loading gantry and 9 above ground oil tanks. To the north-east is Tramway Road and parking areas for Banbury Station.
	East	Tramway Road and to the east of the northern half of the Site parking areas for Banbury Station. Immediately across Tramway road to the south-east are car parks for a series of light industrial/trade counter units that are 30 to 40m beyond the Site.
	South	Commercial building and car park, currently forming a Magnet kitchen and bathroom showroom; Tramway road crosses the River Cherwell 80m south.
	West	River Cherwell lies adjacent with Haselmere Way and parking areas for units on Tramway Industrial Estate 20 to 40m beyond the Site.

2.2.2 Site History

The site history in Table 2 is based on a review of historical maps (Appendix 02), Google internet searches and information included within the previous report (Section 2.3).

Table 2-2 – Site History

Dates	Site History
1882 & 1900	The Site comprised undeveloped land, possibly in agricultural use; it appears to be crossed in its central part by a water-filled ditch or similar. Banbury Station lies 40m+ to the north-east, the River Cherwell to the west and commercial developments 100m+ to the west side of the Oxford Canal. By 1900, commercial buildings associated with Britannia Works Depot are present adjacent to the south east and Tramway road bounds the south-eastern edge of the Site with a Tramway running south-west across the River.

Dates	Site History
1922	The Site remains substantially undeveloped, but the northern end of the COD is crossed by two rail lines running east across the River Cherwell. Land uses to the east comprise the Railway Station and associated Good shed and sidings for >100m with the *Britannia Works Depot* labelled to the south-east. Across the River Cherwell connected to the rail lines to the west lies some form of industrial works with tank storage and a chimney. To the south-west an area of land, close by but probably across the River Cherwell is labelled *Sewage Works.* To the west, 80 to 100m from the Site is the Oxford Canal and associated industrial and commercial buildings.
1938 & 1955 (1:10560 scale)	Less detail is visible on these maps. The Site appears to remain largely undeveloped; save that small buildings may have been developed at the north-east corner of the Site (FOD office building?) by 1955. Surrounding land uses appear generally unchanged from 1922.
1966 & 1973	The southern half of the Site remains undeveloped. Railway lines cross the Site to serve a *Tar Distillery* across the River Cherwell; there is a building adjacent on-site to the south side of the tracks. The northern third of the Site is labelled a *Petroleum Depot*. No tanks are visible but the office and garage building that remain on the FOD site appear to be present. There are also two further small buildings off-site associated with this depot closer to Tramway Road. The railway station and associated *Goods Shed* and sidings remain in-use to the east; land to the south-east remains undeveloped. Land across the River Cherwell to the west remains in a range of commercial uses. Land adjacent to the south-west is occupied by three rectangular structures, not buildings; these could represent the sewage works labelled on the 1922 mapping.
1980	The COD has been developed and includes a structure in the position of the loading gantry; one vertical tank (Tank 2) and three horizontal tanks (Tanks 3 to 5). There is an electrical sub-station in the central-east boundary (consistent with current structure) A vertical *Tank* has also been constructed on the FOD to the north. Off-site to the west the Tar Distillery is no longer present. To the east the station layout remains unchanged; the current buildings roads and parking areas associated with Tramway industrial Estate are present to the south-east. Rectangular structures remain to the south and land between the Cherwell and the canal is undeveloped.
1985	On-site there have been additional buildings added to the COD in the south-west corner consistent with the current layout. Off-site a *warehouse* has been constructed adjacent to the south and industrial units are present to the west across the Cherwell. Other surrounding land uses remain substantially unchanged.
1990 - 2003	The Site and its surroundings remain largely unchanged.

In summary, the mapping suggests that the northern portion of the Site was first developed as part of an oil depot by the 1950s; with the southern part of the Site becoming an oil depot during the 1970s. The central part of the Site was crossed by rail lines connecting a tar distillery to the railway from at least the 1920s.

The Site is located in an area with a long history of industrial activity, with the railway adjacent to the east for over 140 years and a tar distillery present to the west, across the River Cherwell almost 100 years ago.

2.2.3 Site Setting

The site setting including geography, geology, hydrogeology and hydrology is included in Table 2-3.

Table 2-3 – Site Setting

Site Address	Banbury Depot Site, Tramway Road, Banbury, OX16 5TD	
Geography and Hydrology	Topography and Gradient	The Site is essentially level with a very slight topographical fall to the south.
	Elevation	Approx. 90mAOD.
	Surface Water	The River Cherwell flows south adjacent to or within 5m of the site boundary.
	Flood Risk	The majority of the Site is within Flood Zone 2 for river and coastal flooding; with localised areas in Flood Zone 3.
Geology and Hydrogeology	Geology	The superficial geology is recorded as alluvium. Borehole records from Haselmere Way area indicate the alluvium may be 6m thick. The solid geology is recorded as the Charmouth Mudstone Formation
	Aquifer status	The Alluvium is classed as a Secondary A Aquifer. The Charmouth Mudstone Formation is classed as a Secondary (undifferentiated) Aquifer. The Site is not recorded as lying within a groundwater Source Protection Zone (SPZ).
	Abstractions (within 1km)	There are no active groundwater abstraction permits within 2km of the Site. There are two active potable surface water abstractions recorded within 2km of the Site; however, these are over 1km north and upstream of the Site on the River Cherwell.
Other including permits, pollution incidents, landfills, ecological designations etc.	There are no COMAH regulated premises within 500m of the Site. There are no Part A1 or Part A(2)/B) industrial activities requiring regulation under the Environmental Permitting Regulations (England and Wales) 2016 within 500m of the Site. The Site is recorded by the Local Authority as holding a hazardous substances storage/usage with a site address of Kuwait Petroleum (GB) Limited, Tramway Road Industrial Estate, OX16 5TD. There are nine Part B industrial activities requiring regulation under the Environmental Permitting Regulations (England and Wales) 2016 within 500m of the Site. The nearest is at Swan Foundry over 150m south-west of the Site. Four current permits for licensed discharges to controlled waters are recorded within 500m of the Site. Two are for discharges of surface water; one is for storm sewer overflow (for the water undertaker) and one is for the discharge of treated sewage. The FOD site retains a consent (registered to Butler Fuels) for discharge of surface site drainage to the River Cherwell.	

Site Address	Banbury Depot Site, Tramway Road, Banbury, OX16 5TD
	There are two historical landfill sites within 500m of the Site; the closest lies 260m south and was operated by Banbury RDC for Inert, industrial, household liquid and sludge deposit. There is one licensed waste site located 170m north-east at Merton Street Depot; this is identified as a Special Waste Transfer Station and is licenced to S Grundon (Waste) Limited. No sites have been designated as 'Contaminated Land' within 500m of the Site. No sites with ecological or nature conservation designation are located within 500m of the Site. The Site is listed as being located in a nitrate vulnerable zone. The Site lies within an area where Radon Protection Measures are not required.

3.0 Previous Assessment Work

3.1 Previous Assessments

The Site, as Banbury Fuel Depot, has been subject to several phases of previous assessment work, which are listed in Table 3-1 and summarised below.

The driver for all the investigations has been to establish baseline soil and groundwater impact arising from historic and current petroleum storage activities across the Site; to delineate and monitor evolution of any recorded impacts and to provide assurance the depot(s) are suitable for continued petroleum or similar industrial uses. There have been no known substantial leaks or spills at the premises.

Table 3-1: Previous Assessment Reports

Date	Document Title and Author
June 2004	Environmental Site Assessment, prepared for Kuwait Petroleum (GB) Ltd & Kuwait Petroleum International Ltd, Ref. 04-3068.22 Delta-Simons Environmental Consultants Ltd
March 2008	Environmental Assessment Report, prepared for Pace Petroleum, Ref. 406.0876.00019.001 SLR Consulting Ltd.
July 2008	Ground Investigation Results, prepared for Cherwell District Council, Ref. Pace 10 07 08 WSP Environmental Ltd.
August 2008	Environmental Risk Assessment, prepared for Pace Petroleum, Ref. 406.0876.00019.001 SLR Consulting Ltd.
January 2014	Environmental Baseline Report, prepared for Certas Energy Ltd, Ref. R001CM – 14.6696 OHES Environmental
February 2018	Non-Certas Land at Banbury Fuel Depot – Groundwater Monitoring Report. SLR Ref 406.06304.00031. SLR Consulting Limited

The site investigations described above have resulted in the excavation of 22 boreholes across the COD Depot and 12 boreholes across the FOD. A plan of the borehole locations across the Site; (excluding those installed temporarily by WSP) is included in Appendix 04.

3.2 Previously Recorded Geology

Geology encountered on site during the intrusive works completed between 2004 and 2014 comprised:

- Made Ground - Dark brown to black clayey sandy GRAVEL with frequent ash and clinker to 2.3m.
- Alluvium - Firm to stiff light brown CLAY with grey mottling to over 5m.
- Charmouth Mudstone Formation – Hard blue-grey MUDSTONE was recorded from 4.7m depth.

3.3 Previously Recorded Hydrogeology

The previous ground investigations have resulted in the installation of a network of groundwater monitoring wells across the Site. The previous monitoring results indicate that groundwater is present within the Made Ground typically between 1m and 2m below ground level, and it would appear to be perched relative to the River Cherwell. The available data indicate that the hydraulic gradient falls to the south-west towards the River Cherwell.

3.4 Previously Recorded Soil Quality

Site investigations completed by Delta Simmons in 2004 identified concentrations of hydrocarbons in shallow soils in three areas of the Site:

- On the COD: between the tank farm and loading gantry on the concentrations of total petroleum hydrocarbons were up to 6,600mg/kg total petroleum hydrocarbons (TPH) in SB4; with concentrations of extractable petroleum hydrocarbons over 1000mg/kg in SB3. The recorded hydrocarbon chemistry indicated diesel or kerosene fuel sources in this area.
- On the FOD: Over 1000mg/kg TPH was recorded in SB10 and SB11 closer to the River.
- Off-site to the east: concentrations of up to 4,400mg/kg TPH were recorded in SB13 south-east of the underground tanks that are also located off-site. SB13 also contained contaminants indicative of petrol-range hydrocarbons.
- SB18 was drilled very close to the former interceptor in the north-west corner of the FOD; this recorded 4000mg/kg TPH at 2.3m depth.

Site investigation works carried out by SLR in 2007 recorded soil phase concentrations of Diesel Range Organics (DRO - analogous to EPH) at concentrations ranging between 180 and 760mg/kg towards the western boundary, in wells S1, S3 and S4. The results were lower but not inconsistent with the concentrations recorded in the previous investigation. Elevated soil phase impacts were not recorded in borehole S6 between the loading gantry and the River Cherwell.

Three additional boreholes (BH3, WS12 and WS13) were advanced to a maximum depth of 6.3m at the Site by WSP in March 2008, located within the southern part of the Site adjacent to the operational fuel depot. The boreholes appeared to align with the former rail lines crossing the site and the River Cherwell to the Tar Distillery. The results of the laboratory analysis indicated that elevated concentrations of heavy metals, petroleum hydrocarbons and polycyclic aromatic hydrocarbons (PAH) were present in the shallow soils. The highest concentrations were recorded in WS12, located in the southwestern corner of the Site with 2800mg/kg total petroleum hydrocarbons (TPH) and 2700mg/kg PAH at 0.6m to 0.8m depth. This borehole was close to or possibly beneath the former rail track to the tar distillery. Tar typically contains elevated concentrations of both TPH and PAH.

Six boreholes were completed on the COD by OHES in 2014 in order to update the baseline. Elevated concentrations of hydrocarbon impact were recorded with 4200mg/kg EPH (C_8-C_{35}) detected in BH101 located adjacent to the interceptor within the northern compound area and 3600mg/kg TPH in BH102 at the south-western corner of the Site adjacent to the north side of above ground Tanks 6 and 7. BH107, close to the west side of the loading gantry also recorded 930mg/kg EPH.

3.5 Previous Groundwater Quality

3.5.1 Groundwater Quality 2004

Groundwater samples were collected from six groundwater monitoring wells installed by Delta Simons in 2004. The results identified elevated concentrations of dissolved phase petroleum hydrocarbons adjacent to the River Cherwell in SB11 (200mg/l TPH), and the interceptor in the north-west corner (0.7mg/l in SB18).

3.5.2 Groundwater Quality 2007

SLR collected groundwater samples from the 19 on-site viable groundwater monitoring wells in December 2007 (16 of these wells are sited on the COD). This recorded:

- Diesel range TPH in four monitoring wells at concentrations in excess of 1mg/l in wells MW8, MW11 MW14 and SB4 where a maximum of 97mg/l was recorded. All these wells are clustered in the area around the gantry and transfer pumps.
- In the remaining locations total diesel-range hydrocarbon concentrations were below the detection limit of 0.01mg/kg.
- Petrol range hydrocarbons above 1 mg/l were detected in six monitoring wells MW8, MW11, MW12, MW13 , S3 and SB4 with a maximum of 310mg/l in MW11. The extent of petrol range impacts clustered again around the gantry: no benzene or toluene were detected, indicating to SLR that fuel source for this impact is more likely to have been kerosene rather than petrol.
- S3 on the FOD site was the only other location to record dissolved petrol at 2.7mg/l petrol and traces of benzene and toluene were also detected. Borehole S3 is located west of the off-site underground tank.

3.5.3 Groundwater Quality: WSP 2008

The laboratory analysis of the groundwater sample collected by WSP in March 2008 identified trace to low concentrations of petroleum hydrocarbons and heavy metals in BH3, although none of the other groundwater monitoring wells were sampled.

3.5.4 Groundwater Quality OHES 2013

OHES collected 10 groundwater samples from a selection of on-site viable groundwater monitoring wells in December 2013. This recorded dissolved phase diesel range hydrocarbons in borehole BH106, BH107 and MW8 up to a maximum of 2.1 mg/l in BH106; along with low <1 mg/l petrol. BH 106 is located close to the gantry.

3.5.5 Groundwater Quality SLR 2018

SLR undertook a round of groundwater monitoring on all accessible wells, located outside the Certas depot in 2018; groundwater samples were obtained for analysis from four wells: MW2, S1 S2 and S3. Dissolved hydrocarbons were only detected in S3 at low concentrations: 0.4mg/l petroleum hydrocarbons and 0.01mg/l petrol.

3.5.6 Off-site groundwater impact

Previous groundwater monitoring work has recorded dissolved petrol range organics including dissolved benzene and toluene in groundwater between Tramway Road and the FOD site (area shaded yellow in Figure 1).

3.6 Ground Gas Monitoring

WSP completed four rounds of gas monitoring at the Site in April 2008, although no significant concentrations of methane or carbon dioxide concentrations were recorded.

3.7 Site Specific Risk Assessment

In 2008 SLR carried out a site specific risk assessment for the whole Site in order to assess the potential pollutant linkages present and to generate site specific assessment criteria (SSAC). The results of the risk assessment concluded that concentrations of petroleum hydrocarbons and heavy metals beneath the Site could present a potential risk to human health for commercial and residential redevelopment, although the impact was not considered to present a significant risk to controlled waters.

4.0 Land Quality Risk Assessment

Table 4-1 below lists the potential sources, pathways and receptors identified at this Site within the context of possible pollutant linkages, i.e. a situation where the source(s), pathway(s) and receptor(s) are all present at a site and therefore a real (as opposed to a perceived) risk of potential impact exists.

4.1 Conceptual Site Model

When considering the contaminants, receptors and pathways relevant to this Site, SLR has been mindful of the proposed residential end use. The current buildings and oil storage infrastructure on the Site will be dismantled systematically and any enabling works completed prior to building new housing blocks and utility connections.

It is considered that the multiple phases of investigation and groundwater monitoring completed to date provide lines of evidence to indicate that there is evidence for the potential presence of:

- petroleum hydrocarbon contamination in soil;
- petroleum phase hydrocarbons dissolved in groundwater;
- potential for heavy metals and asbestos containing materials in the made ground.

Table 4-1
Risk Assessment

Sources	Contamination Sources	Contaminant of Concern (CoC)
	Petroleum hydrocarbon contamination bound within soil matrix. Non-aqueous phase liquid on groundwater.	Petroleum hydrocarbons. Previous site investigations and laboratory analysis indicate the likely presence of soil impact with higher molecular weight hydrocarbons derived from diesel and kerosene in particularly around: 1) the loading gantry, close to the above ground tanks in the COD Site; 2) associated with the former rail lines crossing the centre of the Site; and, 3) with tanks and drainage infrastructure at the northern end of the FOD. In particular, fugitive contaminant sources may include, drainage lines and underground pipelines (long disused) to the loading gantry or associated with the railway sidings.
	Petrol vapour or ground gas	Contaminants derived from the fuels stored on-site are normally of low volatility, low mobility and not considered to generate petroleum vapour. However, there is a residual risk of ground gas from imported made ground and hydrocarbon degradation that merits further assessment.
	Solid-phase metals	Heavy metals may also be present in the made ground, along with asbestos although no previous analysis for this contaminant has been undertaken.

Pathways	Pathway	Description	
	Ground to controlled waters	Vertical migration to groundwater	Via leaching through shallow soils beneath the Site. Pathway is limited in current and former operational areas of the Site due to the presence of impermeable hardstanding; and the presence of clay-rich alluvium around the water table.
		Surface Water	Via shallow groundwater migration through shallow soils to adjacent watercourses.
	Underground services/ preferential pathways	On and off site	Potential for migration of groundwater impacts into drainage and utility corridors where they may intercept any perched groundwater and/or extend below the groundwater table.
	Vapour / gas migration	On-Site	Migration of vapour via preferential pathways such as service ducts or via coarse grained Made Ground.
		Off-Site	Migration of vapour via preferential pathways such as service ducts or via shallow groundwater migration and subsequent vapour migration through any shallow relatively permeable soils.
	Dermal contact, ingestion, or inhalation	On-site	In future, most of the Site will continue to be surfaced with hard standing, which limits the potential pathway; but future garden areas could provide a pathway for direct contact.
		Off-Site	Potential for offsite migration of dissolved phase and NAPL impacts via shallow groundwater onto adjacent properties is limited as these are low sensitivity.
Receptors	Receptor	Location	
	Groundwater	A Secondary aquifer is present in the alluvial deposits beneath the Site.	
	Surface waters	The River Cherwell flows south adjacent to the western boundary.	
	Buildings	Residential properties are due to be constructed on the Site.	
	Human Health – on site	Continued commercial use now and the Site will be developed as housing in the future.	
	Human Health – off site	Properties in commercial use are present to the north, east and south of the Site.	
	Ecological (fauna / flora)	No designated ecological receptors are present.	
Potential Pollutant Linkages (PPLs)	Linkage	Presence	
	Harm to Human Health – on site	Potentially present. Based on the investigation data, risks to on-site health are potentially present and a pollutant linkage is considered to be present for the Site to future site residents due to the presence of widespread hydrocarbon impact. Direct ingestion & contact exposure is limited to planned areas of soft landscaping only. All other health risks are via inhalation of vapours inside the building. Further assessment, remedial strategy and validation/verification plan is required.	
	Harm to Human Health – off site	Potentially present, although unlikely. Identified hydrocarbon impacts are present and are of low volatility on-site. They are not envisaged to pose any risks to off-site receptors. No further action is required	

	Harm to Groundwater	Potentially present. Recorded hydrocarbon impacts to groundwater on-site; LNAPL is potentially present but is likely to be localized to sources. Further detailed assessment of these sources, evaluation of migration risk and some remedial work will likely be required for development and this will effectively remove the source and/or block the pathway. Further assessment, remedial strategy and validation/verification plan is required.
	Harm to Surface waters	Potentially present. Recorded hydrocarbon impacts to groundwater on-site do not appear to extend to the River Cherwell. However, further detailed assessment of risk via this PPL is likely to include source reduction during development and this will effectively remove the source and block the pathway. Further assessment, remedial strategy and validation/verification plan is required.
	Damage to Buildings/Structures	Present. Potentially active pathways if significant contamination source(s) present. The proposals include concrete foundations which could be damaged by aggressive compounds present within the natural soils, Made Ground and groundwater. Further sampling and verification needed.
	Harm to Property: (fauna / flora)	Not present. SLR considers that no potential pollutant linkages exist as commercial crops will not be grown at the Site or livestock kept. The risks to surrounding land usage (wholly commercial) are not thought to be significant. No further action is required
	Harm to Ecosystems	Not present. The Site is not located within close proximity to a designated ecological site. No further action is required

4.2 Summary of Potential Pollutant Linkages

As part of the evaluation of the Site and in accordance with current best practice, SLR developed a Conceptual Site Model to assess risks potential pollutant linkages (PPLs) posed by Source – Pathway – Receptor relationships. The results of this assessment are summarised below.

4.2.1 Harm to Ecosystems

SLR considers that there are no PPLs for this receptor. The subject property is not located within close proximity to a designated ecological site. No further action is required.

4.2.2 Damage to Buildings / Structures

Buildings/construction – hazardous gas/vapours can arise from soil and groundwater contamination impact and/or from methane generated by the natural attenuation of this impact, and this can be a potential risk to buildings. However, risks are likely to be straightforward to manage because:

1. the hydrocarbon impacts detected are of low volatility and not considered to generate volatile or hazardous vapour or persistent ground gas flows.
2. The proposed buildings are located close to the frontage with Tramway Road and are not sited directly above the main suspected source areas of the gantry and above ground tanks and pipework.

Water supply pipes – impacted soils and groundwater are present on site. Hydrocarbon contamination can impact below ground potable water supply pipes. Hydrocarbon impacts potentially intersect the depth of incoming utilities. Further action will be required for development via the use of below ground barrier pipework approved by the local water supply company.

Nevertheless, further assessment of these sources and potential risks will be required for development.

4.2.3 Harm to Human Health

The following potential contaminant linkages have been assessed:

- **Contaminated soils and humans** (i.e. direct contact) – In the proposed development, pathways for potential exposure would be blocked by the presence of the new building, car parking and hardstanding areas overlying potentially impacted areas of the former depot. The only areas where direct contact with soils could occur would be in the proposed soft landscaped / amenity areas. Further assessment and remedial action would be required at a future development stage, although as a worst case scenario this would be mitigated by the placement of a 0.5m thickness clean cover soil layer in all soft landscaped areas.
- **Hazardous soil gases and humans on-site** – identified hydrocarbon impacts are present at depth across several areas of the Site and of low volatility, but the proposed housing blocks are not sited directly above suspected sources areas (former gantry and tanks). The recorded hydrocarbon impacts are of low volatility and they are not considered to generate hazardous vapour. Regardless, further assessment of these risks will be required for development and, if found to be necessary, simple proprietary gas protection measures can be used within building structures to manage residual risks.
- **Hazardous soil gases and humans off-site** – identified hydrocarbon impacts are present at depth and are of low volatility on-site. They are not envisaged to pose any risks to humans off-site.

4.2.4 Pollution of Controlled Waters

The following potential contaminant linkages have been assessed:

Surface waters – The River Cherwell lies within 10m of the western boundary of the Site. Risk to surface water will be via perched groundwater migration or preferential pathways from any buried utility runs. In the proposed development scenario remedial action in advance of main construction phase, combined with placement of building structures and low permeability access roads and car parking across the majority of the former depot would tend to isolate and break pathways for unsaturated zone infiltration to drive fugitive LNAPL migration, impacted groundwater migration or leaching to surface water.

Groundwater – The Site overlies groundwater in a secondary aquifer likely to be in hydraulic continuity with the River Cherwell. Action to mitigate risks to the River Cherwell are also likely to ameliorate residual groundwater impact. In the proposed development scenario remedial action in advance of main construction phase, combined with placement of building structures and low permeability access roads and car parking across the majority of the former depot, would tend to isolate and break pathways for unsaturated zone soil impact leaching.

As groundwater impacts at concentrations indicative of trapped LNAPL have been recorded, a detailed quantitative risk assessment (DQRA), remedial strategy, and validation sampling plan will be required to support development.

4.2.5 Potentially Unacceptable Risks

Having considered the above criteria including the uncertainties and gaps in the conceptual model, it is apparent that the Preliminary Risk Assessment provides a reasonable level of confidence that the Site has a recent history of potentially contaminative activities.

It is recognised that the Site is located in a medium to high sensitivity environmental setting with respect to surface waters and has been subject to extensive ground investigation and monitoring, which has provided reasonably comprehensive characterisation of the Site. Previous investigations have recorded historical hydrocarbon impact comprising residual LNAPL and concentrations of diesel range hydrocarbons in the groundwater.

In advance of the planned redevelopment works a DQRA, remedial strategy and remedial implementation and sampling and analysis plan should be completed.

5.0 SUMMARY AND CONCLUSIONS

5.1 Summary

Based on the review of the available information, Table 5-1 provides a summary of the main environmental issues at the subject property.

Table 5-1 – Summary and Evaluation

Issue	Summary and Evaluation
History	In summary, the mapping suggests that the northern portion of the Site was first developed as part of an oil depot by the 1950s; with the southern part becoming an oil depot during the 1970s. The central part of the Site was crossed by rail lines connecting a tar distillery to the railway from at least the 1920s until the 1970s.
Geology	Geology consists of a layer of Made Ground which extends up to 2.3m depth. This overlies superficial deposits (alluvium) of firm to stiff light brown clay with grey mottling to over 5m. Bedrock comprises the Charmouth Mudstone Formation; a hard blue-grey mudstone from 4.7m below ground level.
Hydrogeology	Groundwater is present within the Made Ground and superficial deposits at depths of between 1 and 2m, apparently perched relative to the River Cherwell. The superficial deposits of alluvium are a Secondary A aquifer. The Site is not located within an SPZ, and there are no active groundwater abstraction permits within 2km.
Hydrology	The nearest surface water feature is the River Cherwell, which forms the western boundary of the Site and flows south. The Site is within Flood Zone 2. The nearest surface water abstractions are over 1km north and upstream of the Site on the River Cherwell.
Soil Quality	Site investigations have recorded the presence of soil impact with higher molecular weight hydrocarbons derived from hydrocarbon storage close to current and former infrastructure around the groundwater table. Shallower impact is also likely to exist close to and beneath historical infrastructure.
Groundwater Quality	Groundwater samples collected in 2014 and 2018 recorded low concentrations of diesel range petroleum hydrocarbons (up to 2.1mg/l) albeit above water quality standards and low concentrations of petrol-range hydrocarbons (probably derived from kerosene) consistent with an older weathered diesel and kerosene fuel source.
Contamination Issues and Risk Assessment	The previous development of the Site as adjacent oil depots has created a network of buried and above ground structures with the potential for hydrocarbon impact to soil and groundwater. Multiple previous site investigations have provided a reasonably robust delineation of hydrocarbon impact at the Site, and whilst some localised impact exists, this would be straightforward to deal with during development, using standard remediation practices.

5.2 Conclusions and Recommendations

Previous site investigation results have identified the potential for residual hydrocarbon impacts to pose risk to human health and the wider environment (including controlled waters). Work required to remove and dismantle the oil depot infrastructure, to enable preparation of the Site for residential development, would be combined with a planned programme of contamination sampling, possible remediation and verification work.

Therefore, SLR recommends that a remediation strategy is prepared to support the development. The remediation strategy document will include a detailed quantitative risk assessment and support the removal of the above and below ground fuel infrastructure and develop a plan to address known areas of contamination, along with any unexpected contamination which may be encountered during the dismantling work and during development.

The requirement for and scope of the remediation strategy would not be abnormal for a brownfield site and the information summarised in this preliminary assessment has not identified any particular contamination constraints to the beneficial reuse of the Site as residential apartments.

The remediation strategy should include details of validation works to be carried out during dismantling and development to confirm that, post development, no residual unacceptable risks to human health or controlled waters remain.

The findings of the validation works should be documented in a separate validation report.

APPENDIX 01

Groundsure EnviroInsight report

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

Banbury Depot Site, Tramway Road, Banbury,

Order Details

Date: 04/08/2020

Your ref: EMS_625510_832857

Our Ref: EMS-625510_832857

Client: emapsite

Site Details

Location: 446138 240326

Area: 0.72 ha

Authority: Cherwell District Council

Contact us with any questions at:
info@groundsure.com
08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	Historical industrial land uses	12	29	93	68	-
22	1.2	Historical tanks	5	18	33	17	-
25	1.3	Historical energy features	2	0	21	29	-
27	1.4	Historical petrol stations	4	0	0	0	-
28	1.5	Historical garages	0	0	13	13	-
29	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
30	2.1	Historical industrial land uses	14	36	101	77	-
39	2.2	Historical tanks	14	19	46	34	-
43	2.3	Historical energy features	4	0	43	81	-
48	2.4	Historical petrol stations	4	0	0	0	-
48	2.5	Historical garages	0	0	22	33	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
51	3.1	Active or recent landfill	0	0	0	0	-
51	3.2	Historical landfill (BGS records)	0	0	0	0	-
52	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
52	3.4	Historical landfill (EA/NRW records)	0	0	0	2	-
52	3.5	Historical waste sites	0	0	6	1	-
54	3.6	Licensed waste sites	0	0	2	0	-
54	3.7	Waste exemptions	0	0	2	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
56	4.1	Recent industrial land uses	6	15	62	-	-
61	4.2	Current or recent petrol stations	0	0	2	1	-
62	4.3	Electricity cables	0	0	0	0	-
62	4.4	Gas pipelines	0	0	0	0	-
62	4.5	Sites determined as Contaminated Land	0	0	0	0	-

62	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
62	4.7	Regulated explosive sites	0	0	0	0	-
63	**4.8**	**Hazardous substance storage/usage**	1	0	0	0	-
63	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
63	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
63	**4.11**	**Licensed pollutant release (Part A(2)/B)**	0	0	8	1	-
65	4.12	Radioactive Substance Authorisations	0	0	0	0	-
65	**4.13**	**Licensed Discharges to controlled waters**	0	2	4	4	-
67	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
67	4.15	Pollutant release to public sewer	0	0	0	0	-
67	4.16	List 1 Dangerous Substances	0	0	0	0	-
67	4.17	List 2 Dangerous Substances	0	0	0	0	-
67	**4.18**	**Pollution Incidents (EA/NRW)**	0	2	3	5	-
69	4.19	Pollution inventory substances	0	0	0	0	-
69	4.20	Pollution inventory waste transfers	0	0	0	0	-
69	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
70	**5.1**	**Superficial aquifer**	Identified (within 500m)				
72	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
74	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
75	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
75	5.5	Groundwater vulnerability- local information	None (within 0m)				
76	5.6	Groundwater abstractions	0	0	0	0	0
77	**5.7**	**Surface water abstractions**	0	0	0	0	4
78	**5.8**	**Potable abstractions**	0	0	0	0	4
79	5.9	Source Protection Zones	0	0	0	0	-
79	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
80	**6.1**	**Water Network (OS MasterMap)**	0	1	7	-	-

81	6.2	Surface water features	0	1	7	-	-
81	6.3	WFD Surface water body catchments	1	-	-	-	-
82	6.4	WFD Surface water bodies	0	1	0	-	-
82	6.5	WFD Groundwater bodies	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
83	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	High (within 50m)				
84	7.2	Historical Flood Events	2	3	6	-	-
85	7.3	Flood Defences	0	0	0	-	-
85	7.4	Areas Benefiting from Flood Defences	1	2	7	-	-
85	7.5	Flood Storage Areas	0	0	0	-	-
86	7.6	Flood Zone 2	Identified (within 50m)				
87	7.7	Flood Zone 3	Identified (within 50m)				
Page	Section	Surface water flooding					
88	8.1	Surface water flooding	1 in 100 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
90	9.1	Groundwater flooding	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
91	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
91	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
91	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
91	10.4	Special Protection Areas (SPA)	0	0	0	0	0
92	10.5	National Nature Reserves (NNR)	0	0	0	0	0
92	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
92	10.7	Designated Ancient Woodland	0	0	0	0	0
92	10.8	Biosphere Reserves	0	0	0	0	0
93	10.9	Forest Parks	0	0	0	0	0
93	10.10	Marine Conservation Zones	0	0	0	0	0
93	10.11	Green Belt	0	0	0	0	0
93	10.12	Proposed Ramsar sites	0	0	0	0	0

93	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
94	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
94	10.15	Nitrate Sensitive Areas	0	0	0	0	0
94	**10.16**	**Nitrate Vulnerable Zones**	1	0	0	0	1
95	10.17	SSSI Impact Risk Zones	0	-	-	-	-
95	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
96	11.1	World Heritage Sites	0	0	0	-	-
97	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
97	11.3	National Parks	0	0	0	-	-
97	**11.4**	**Listed Buildings**	0	0	3	-	-
98	**11.5**	**Conservation Areas**	0	0	2	-	-
98	11.6	Scheduled Ancient Monuments	0	0	0	-	-
98	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
99	**12.1**	**Agricultural Land Classification**	Grade 4 (within 250m)				
100	12.2	Open Access Land	0	0	0	-	-
100	12.3	Tree Felling Licences	0	0	0	-	-
100	12.4	Environmental Stewardship Schemes	0	0	0	-	-
100	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
101	13.1	Priority Habitat Inventory	0	0	0	-	-
101	13.2	Habitat Networks	0	0	0	-	-
101	13.3	Open Mosaic Habitat	0	0	0	-	-
101	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
102	**14.1**	**10k Availability**	Identified (within 500m)				
103	14.2	Artificial and made ground (10k)	0	0	0	0	-
104	**14.3**	**Superficial geology (10k)**	1	0	0	2	-

105	14.4	Landslip (10k)	0	0	0	0	-
106	**14.5**	**Bedrock geology (10k)**	1	0	0	4	-
107	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
108	**15.1**	**50k Availability**	Identified (within 500m)				
109	15.2	Artificial and made ground (50k)	0	0	0	0	-
109	15.3	Artificial ground permeability (50k)	0	0	-	-	-
110	**15.4**	**Superficial geology (50k)**	1	0	0	0	-
111	**15.5**	**Superficial permeability (50k)**	Identified (within 50m)				
111	15.6	Landslip (50k)	0	0	0	0	-
111	15.7	Landslip permeability (50k)	None (within 50m)				
112	**15.8**	**Bedrock geology (50k)**	1	0	0	2	-
113	**15.9**	**Bedrock permeability (50k)**	Identified (within 50m)				
113	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
114	**16.1**	**BGS Boreholes**	0	1	34	-	-
Page	Section	Natural ground subsidence					
117	**17.1**	**Shrink swell clays**	Low (within 50m)				
118	**17.2**	**Running sands**	Low (within 50m)				
119	**17.3**	**Compressible deposits**	Moderate (within 50m)				
120	**17.4**	**Collapsible deposits**	Negligible (within 50m)				
121	**17.5**	**Landslides**	Very low (within 50m)				
122	**17.6**	**Ground dissolution of soluble rocks**	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
124	18.1	Natural cavities	0	0	0	0	-
125	**18.2**	**BritPits**	0	0	0	3	-
125	**18.3**	**Surface ground workings**	0	7	16	-	-
126	18.4	Underground workings	0	0	0	0	0
127	18.5	Historical Mineral Planning Areas	0	0	0	0	-

127	18.6	Non-coal mining	0	0	0	0	0
127	18.7	Mining cavities	0	0	0	0	0
127	18.8	JPB mining areas	None (within 0m)				
127	18.9	Coal mining	None (within 0m)				
128	18.10	Brine areas	None (within 0m)				
128	18.11	Gypsum areas	None (within 0m)				
128	18.12	Tin mining	None (within 0m)				
128	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
129	**19.1**	**Radon**	Less than 1% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
130	**20.1**	**BGS Estimated Background Soil Chemistry**	1	0	-	-	-
130	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
130	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

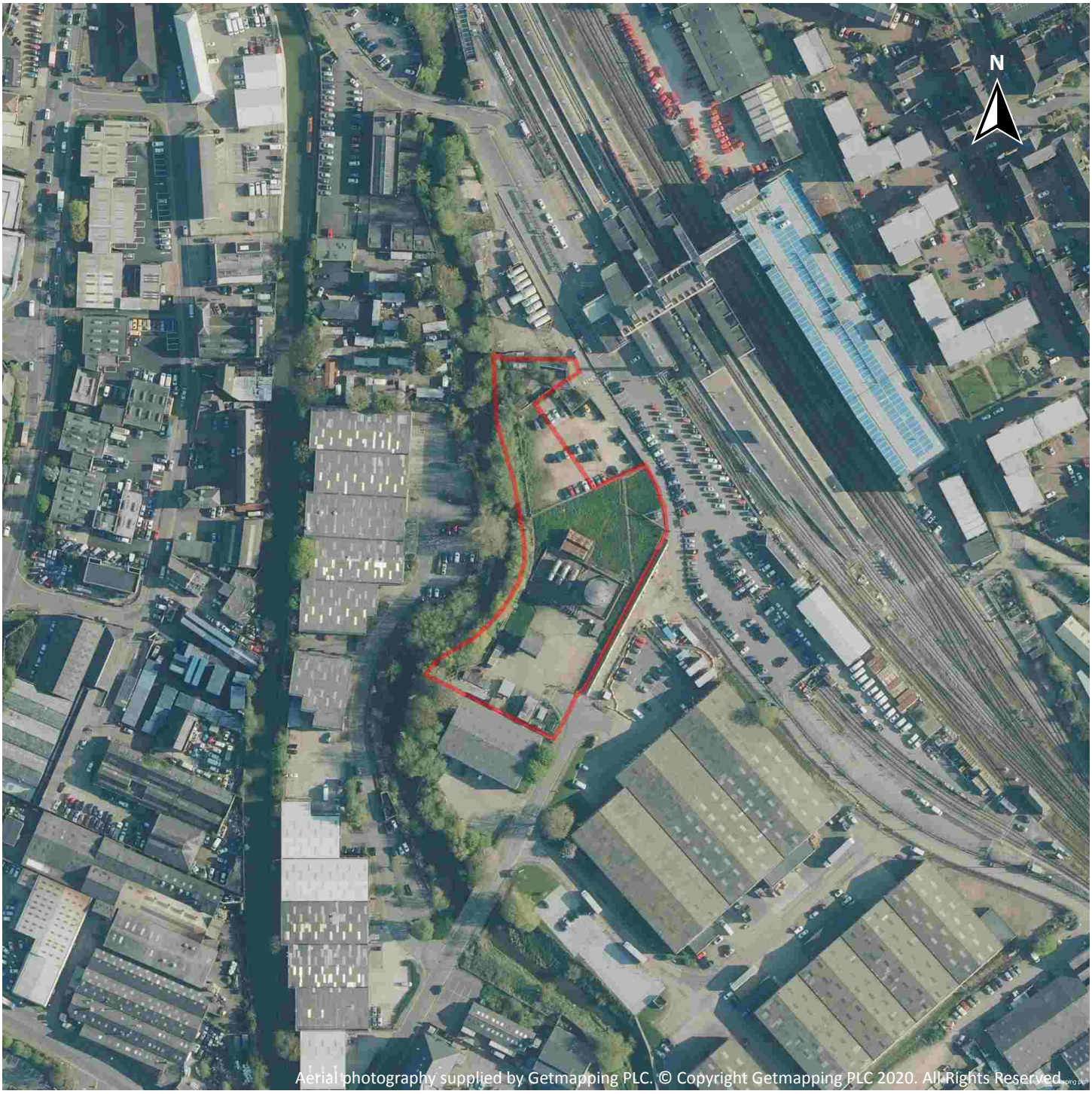
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
131	21.1	Underground railways (London)	0	0	0	-	-
131	21.2	Underground railways (Non-London)	0	0	0	-	-
132	21.3	Railway tunnels	0	0	0	-	-
132	**21.4**	**Historical railway and tunnel features**	11	8	37	-	-
134	21.5	Royal Mail tunnels	0	0	0	-	-
134	**21.6**	**Historical railways**	0	0	1	-	-
135	**21.7**	**Railways**	0	4	31	-	-
136	21.8	Crossrail 1	0	0	0	0	-
136	21.9	Crossrail 2	0	0	0	0	-
136	21.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 24/08/2019

Site Area: 0.72ha

Recent site history - 2016 aerial photograph



Capture Date: 05/05/2016

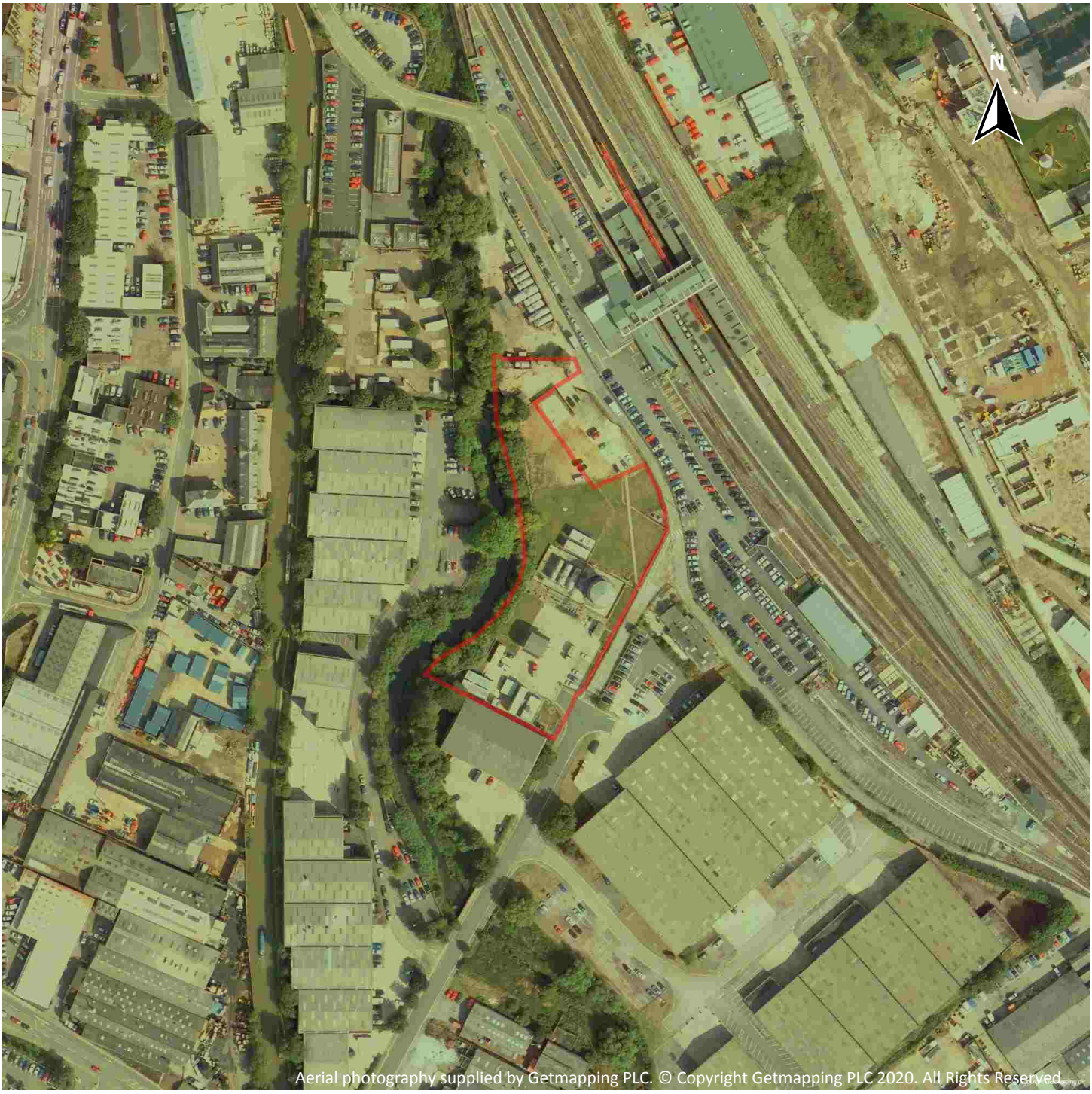
Site Area: 0.72ha

Recent site history - 2009 aerial photograph

Capture Date: 02/06/2009

Site Area: 0.72ha

Recent site history - 2006 aerial photograph



Capture Date: 04/11/2006

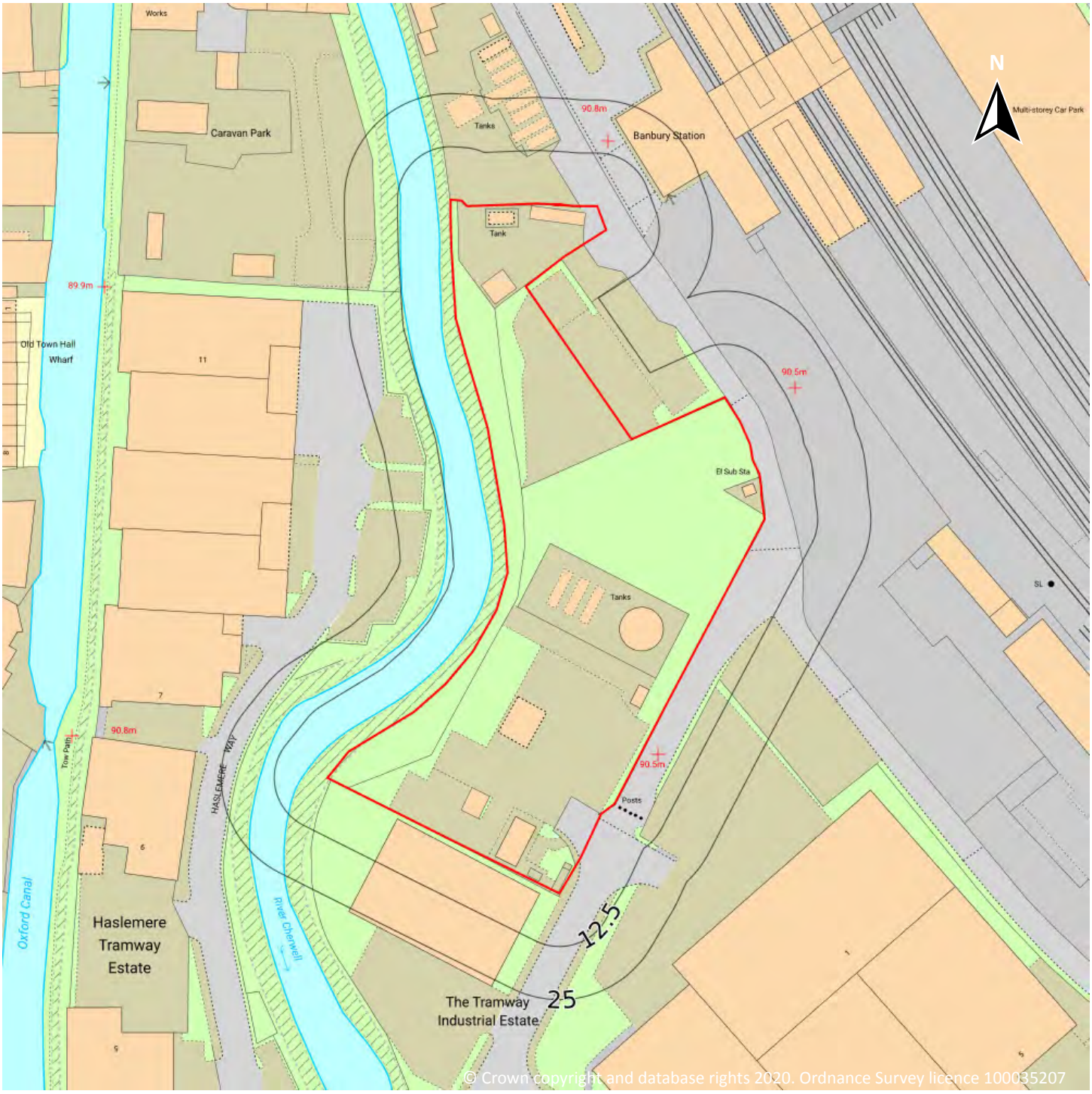
Site Area: 0.72ha

Recent site history - 1999 aerial photograph

Capture Date: 04/10/1999

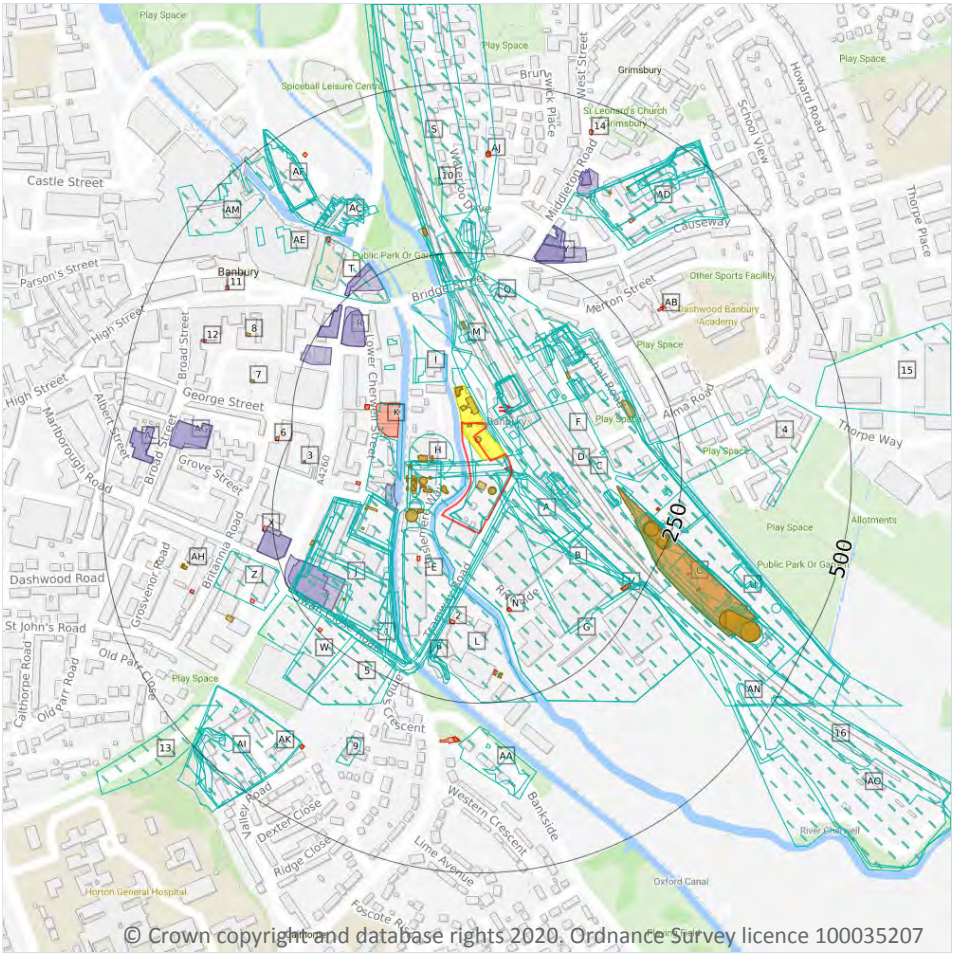
Site Area: 0.72ha

OS MasterMap site plan



Site Area: 0.72ha

1 Past land use



1.1 Historical industrial land uses

Records within 500m	202

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Depot Works**	**1923**	**1759828**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Tank**	**1994**	**1768945**
A	**On site**	**Unspecified Works**	**1923**	**1771549**
A	**On site**	**Railway Sidings**	**1976 - 1994**	**1785621**
A	**On site**	**Unspecified Tank**	**1994**	**1787435**
A	**On site**	**Unspecified Tank**	**1976**	**1810011**
A	**On site**	**Unspecified Depot**	**1994**	**1814902**
A	**On site**	**Unspecified Depot**	**1976**	**1828948**
B	**On site**	**Works Depot**	**1900**	**1775539**
C	**On site**	**Railway Sidings**	**1967**	**1792816**
D	**On site**	**Railway Sidings**	**1923**	**1812554**
D	**On site**	**Railway Sidings**	**1923 - 1938**	**1816326**
E	6m W	Unspecified Works	1923 - 1938	1783006
F	9m NE	Railway Sidings	1900	1820826
D	9m SE	Railway Sidings	1883	1795902
G	12m SE	Industrial Estate	1976	1823603
G	12m SE	Industrial Estate	1994	1846979
A	15m SE	Railway Building	1976	1765279
H	17m W	Unspecified Wharf	1900	1810725
A	18m NE	Railway Buildings	1923 - 1938	1840231
A	19m NE	Railway Building	1883	1765278
H	20m NW	Sewage Works	1923	1844037
A	22m NE	Railway Station	1976	1784557
A	22m NE	Railway Station	1994	1805510
A	25m NE	Railway Building	1976	1765277
E	29m SW	Sewage Works	1900	1760026
H	29m W	Unspecified Tank	1938	1782723
H	32m W	Unspecified Tank	1967	1782946
A	36m NE	Railway Station	1923	1800964

ID	Location	Land use	Dates present	Group ID
A	36m NE	Railway Station	1938	1803159
A	36m NE	Railway Station	1883	1843927
H	37m W	Unspecified Wharf	1967	1795684
A	39m NE	Railway Station	1900 - 1923	1848807
A	43m E	Railway Building	1976	1785153
A	43m E	Railway Buildings	1994	1794326
A	44m NE	Railway Station	1967	1829435
H	45m NW	Unspecified Tanks	1923 - 1938	1821167
A	46m E	Goods Shed	1883	1774008
H	46m NW	Unspecified Tanks	1967	1785471
H	49m W	Unspecified Wharf	1938	1789840
A	50m N	Unspecified Mills	1923	1758203
A	52m E	Railway Building	1900 - 1923	1848246
A	57m E	Railway Buildings	1938	1843902
A	57m E	Railway Building	1967	1805456
H	65m W	Unspecified Works	1923 - 1938	1827922
I	65m N	Unspecified Mills	1923	1823219
J	67m W	Unspecified Works	1900	1793519
H	68m W	Unspecified Works	1967	1815324
H	70m W	Engineering Works	1881	1759930
H	75m W	Sewage Works	1881	1760025
K	80m NW	Electricity Works	1923	1837758
B	84m SE	Agricultural Implement Works	1883	1767498
L	86m S	Unspecified Works	1976	1771564
I	87m NW	Unspecified Mills	1923	1831707
J	90m SW	Unspecified Works	1938	1781583
1	91m SW	Railway Sidings	1881	1793880
J	92m SW	Unspecified Works	1967	1791886

ID	Location	Land use	Dates present	Group ID
J	92m SW	Unspecified Works	1923	1809333
J	97m SW	Unspecified Works	1923	1787552
F	101m NE	Railway Building	1900 - 1923	1823355
B	105m SE	Agricultural Depot	1883	1761791
F	106m NE	Railway Building	1900	1765276
F	108m NE	Railway Building	1938	1807280
F	113m NE	Railway Building	1900	1765275
M	115m N	Railway Building	1900	1765262
M	117m N	Railway Buildings	1883	1773250
F	117m NE	Railway Building	1883	1765287
I	126m NW	Unspecified Wharf	1881	1769369
F	126m NE	Railway Buildings	1923	1773435
F	130m NE	Railway Building	1900	1845729
F	131m NE	Unspecified Depot	1994	1763978
D	133m E	Railway Building	1883	1765288
F	134m NE	Goods Shed	1883	1774007
F	134m NE	Railway Building	1923 - 1938	1846895
F	134m NE	Railway Building	1938	1786007
J	134m SW	Unspecified Works	1881	1793939
M	137m N	Unspecified Tank	1900	1768946
D	138m E	Railway Building	1923	1839050
D	138m E	Railway Building	1900	1816343
F	139m NE	Railway Building	1900	1844102
J	140m W	Railway Sidings	1923	1827184
D	141m E	Railway Building	1967	1787959
F	142m NE	Railway Building	1938	1765260
F	143m NE	Railway Building	1967	1785627
F	148m NE	Railway Terminus	1883	1845694

ID	Location	Land use	Dates present	Group ID
I	150m NW	Unspecified Wharf	1881	1769370
C	153m E	Unspecified Depot	1994	1763979
F	154m NE	Terminus	1923	1781416
F	157m NE	Terminus	1900 - 1923	1834617
F	161m NE	Railway Terminus	1938	1833289
F	162m NE	Terminus	1967	1811040
F	162m NE	Goods Depot	1976	1770162
O	163m E	Gas Works	1923	1850436
O	165m E	Unspecified Commercial/Industrial	1967	1840157
P	166m S	Unspecified Ground Workings	1938	1843763
P	171m S	Unspecified Ground Workings	1967	1791978
P	171m S	Unspecified Ground Workings	1923	1850920
Q	179m N	Railway Building	1938	1765261
M	184m N	Railway Building	1883	1765263
F	187m NE	Unspecified Tanks	1994	1761626
O	194m E	Unspecified Commercial/Industrial	1938	1786224
O	194m E	Gas Works	1883	1850240
F	194m NE	Railway Building	1883	1765289
Q	194m N	Unspecified Ground Workings	1967	1755317
M	194m N	Railway Building	1883	1765264
O	198m E	Gas Works	1900	1805342
O	199m E	Gas Works	1923	1823952
S	203m N	Railway Sidings	1976 - 1994	1802936
T	207m NW	Unspecified Wharves	1881	1758740
C	208m E	Unspecified Tanks	1938	1831435
C	208m E	Gasometers	1883	1846274
M	209m N	Railway Buildings	1976	1825846
M	209m N	Railway Buildings	1994	1833708

ID	Location	Land use	Dates present	Group ID
S	209m N	Railway Sidings	1967	1785993
C	212m E	Unspecified Tanks	1967	1799454
U	213m SE	Scrap Yard	1994	1753658
C	213m E	Gasometers	1923	1823345
C	214m E	Gasometer	1900 - 1923	1795791
4	217m E	Stock Yard	1976	1758354
C	217m E	Unspecified Works	1976	1771550
C	220m E	Railway Buildings	1883	1773434
W	221m SW	Unspecified Works	1994	1803646
W	221m SW	Unspecified Works	1976	1838463
5	222m SW	Unspecified Works	1994	1819253
C	222m E	Railway Building	1883	1823716
C	226m E	Railway Building	1967	1819834
M	229m N	Railway Buildings	1900	1773252
M	231m N	Timber Yard	1883	1752697
M	235m N	Railway Building	1967	1815456
M	237m N	Railway Building	1967	1824331
M	237m N	Railway Building	1938	1835683
C	240m SE	Gasometer	1900	1758491
M	241m N	Railway Buildings	1976	1773251
C	243m SE	Unspecified Tank	1923	1768944
Z	253m W	Unspecified Works	1900	1771560
M	256m N	Railway Building	1938	1814154
O	270m SE	Unspecified Works	1994	1802162
O	270m SE	Unspecified Works	1976	1848612
AA	284m S	Brick Works	1881	1764141
AA	310m S	Unspecified Kiln	1881	1769432
AC	324m NW	Unspecified Mill	1923	1838235

ID	Location	Land use	Dates present	Group ID
AC	327m NW	Unspecified Mill	1938	1825026
AC	328m NW	Unspecified Mill	1900	1838157
AC	329m NW	Unspecified Mill	1923	1815073
AD	330m N	Brick Tile and Drain Pipe Works	1883 - 1900	1848230
AA	332m S	Unspecified Pit	1881	1778045
AD	339m NE	Disused Brick and Drain Pipe Works	1967	1792317
AD	339m NE	Disused Brick Tile and Drain Pipe Works	1923 - 1938	1831885
AD	343m NE	Unspecified Depot	1976	1763977
AD	344m NE	Disused Brick and Drain Pipe Works	1923	1797067
AC	348m NW	Corn Mill	1881	1767411
U	350m SE	Railway Buildings	1883	1773433
9	350m SW	Clay Mill	1881	1779232
AE	350m NW	Unspecified Wharf	1881	1769368
10	351m N	Railway Building	1923	1765274
U	357m SE	Railway Building	1967	1839718
U	357m SE	Railway Building	1900 - 1923	1815148
AF	358m NW	Cabinet Works	1923	1802609
U	363m SE	Gas Holder	1976	1817834
U	369m SE	Unspecified Tank	1967	1839825
U	372m SE	Gasometer	1900 - 1923	1799182
U	373m SE	Gas Holder	1994	1828784
U	374m SE	Unspecified Tank	1938	1796024
U	377m SE	Gasometer	1923	1811408
AD	389m NE	Railway Sidings	1923 - 1938	1819610
AI	390m SW	Brick Works	1881	1845926
AE	391m NW	Bus Station	1994	1779246
AI	391m SW	Brick Works	1900	1815919
AF	392m NW	Unspecified Manufactory	1881	1836219

ID	Location	Land use	Dates present	Group ID
AF	393m NW	Unspecified Manufactory	1900	1845721
AF	395m NW	Cabinet Works	1967	1831005
AF	396m NW	Cabinet Works	1938	1805643
AD	398m NE	Railway Sidings	1923	1806807
U	401m SE	Gasometer	1994	1797492
U	403m SE	Gasometer	1976	1800708
AI	409m SW	Unspecified Kilns	1881	1766202
AD	413m NE	Unspecified Disused Covered Pits	1923	1830801
AI	414m SW	Unspecified Kilns	1881	1766204
AK	415m SW	Unspecified Kiln	1881	1769433
U	415m SE	Unspecified Tank	1967	1768943
AD	419m NE	Unspecified Pit	1967	1835536
AD	421m NE	Unspecified Pit	1938	1846983
U	430m SE	Unspecified Tank	1967	1768948
13	431m SW	Cuttings	1992	1751527
AM	438m NW	Dock	1881	1763476
AN	441m SE	Unspecified Pit	1967	1823099
AF	443m NW	Dock	1881	1763475
AN	444m SE	Unspecified Pit	1938	1809157
AD	448m NE	Unspecified Pit	1923	1818977
AI	452m SW	Unspecified Pit	1923	1821863
AI	452m SW	Unspecified Heap	1881	1756867
AI	453m SW	Unspecified Pit	1938	1782620
AO	453m SE	Railway Sidings	1954	1780434
AI	456m SW	Unspecified Ground Workings	1954	1796351
15	458m E	Unspecified Depot	1976	1763980
AI	458m SW	Unspecified Ground Workings	1923	1844033
AM	480m NW	Unspecified Wharf	1881	1769367

ID	Location	Land use	Dates present	Group ID
AI	494m SW	Unspecified Ground Workings	1881	1828712
AO	494m SE	Unspecified Pits	1923	1808737
AN	495m SE	Unspecified Pit	1967	1821973
AI	496m SW	Unspecified Ground Workings	1900	1834456
16	498m SE	Unspecified Pits	1923	1793172

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**73**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Tanks**	**1976 - 1993**	**291306**
A	**On site**	**Tanks**	**1976 - 1989**	**292174**
A	**On site**	**Tanks**	**1993**	**295535**
A	**On site**	**Unspecified Tank**	**1989 - 1993**	**297918**
A	**On site**	**Unspecified Tank**	**1976 - 1993**	**300524**
A	13m N	Tanks	1989 - 1993	292510
A	17m N	Tanks	1989	287583
H	20m NW	Tanks	1966	300426
H	20m NW	Tanks	1965	295455
H	28m W	Tanks	1966	295010
H	29m W	Tanks	1965	299629
H	34m NW	Tanks	1966	295634
H	34m NW	Tanks	1965	302048

ID	Location	Land use	Dates present	Group ID
H	36m W	Unspecified Tank	1965	295681
H	36m W	Unspecified Tank	1966	290004
A	38m N	Tanks	1966	295869
A	39m N	Tanks	1965	302013
H	44m NW	Unspecified Tank	1965	291454
H	44m NW	Unspecified Tank	1966	292220
H	47m W	Unspecified Tank	1965	292028
H	48m W	Unspecified Tank	1966	295474
H	49m NW	Unspecified Tank	1966	295419
H	49m NW	Unspecified Tank	1965	296293
H	51m NW	Tanks	1922	287584
H	51m NW	Unspecified Tank	1966	295814
H	51m NW	Unspecified Tank	1965	298370
H	54m NW	Unspecified Tank	1966	300669
H	54m NW	Unspecified Tank	1965	294087
H	55m W	Tanks	1965	296364
H	56m W	Tanks	1966	299871
H	59m NW	Unspecified Tank	1965	297962
H	60m NW	Unspecified Tank	1966	290836
H	62m NW	Tanks	1966	290473
H	63m NW	Tanks	1965	301246
H	64m NW	Unspecified Tank	1966	300382
H	65m NW	Unspecified Tank	1965	293631
H	70m NW	Unspecified Tank	1966	289281
H	70m NW	Unspecified Tank	1965	291820
H	81m NW	Unspecified Tank	1966	296828
H	81m NW	Unspecified Tank	1965	300066
H	96m W	Tanks	1922	287587

ID	Location	Land use	Dates present	Group ID
H	116m W	Unspecified Tank	1922	284639
M	138m N	Unspecified Tank	1900	284633
F	139m NE	Unspecified Tank	1976 - 1982	295620
O	156m E	Gas Works	1900 - 1922	291979
F	185m NE	Tanks	1989 - 1993	296706
J	189m SW	Unspecified Tank	1966 - 1987	299576
J	189m SW	Unspecified Tank	1966	289932
J	192m W	Unspecified Tank	1966 - 1990	301850
L	207m S	Unspecified Tank	1982 - 1989	300715
L	208m S	Unspecified Tank	1993	298209
C	209m E	Gasometers	1900	285877
C	211m E	Gasometer	1922	285687
C	212m E	Unspecified Tank	1922	284632
C	234m E	Tanks	1922	287582
C	236m SE	Gasometer	1922	285688
M	280m N	Unspecified Tank	1922 - 1965	288310
M	281m N	Unspecified Tank	1966	290655
O	297m SE	Unspecified Tank	1922	284631
7	311m W	Unspecified Tank	1966	293652
8	337m W	Unspecified Tank	1966	289841
Z	342m SW	Tanks	1966	294838
U	369m SE	Gas Holders	1965	288210
U	369m SE	Unspecified Tank	1966	284675
U	369m SE	Gasometer	1900 - 1922	293336
U	372m SE	Gasholders	1966	285845
AH	379m W	Tanks	1966	287586
AH	383m W	Tanks	1977	290487
AH	383m W	Tanks	1966 - 1999	298859

ID	Location	Land use	Dates present	Group ID
AD	384m NE	Unspecified Tank	1965	284634
AH	386m W	Tanks	1977	300471
AD	403m NE	Unspecified Tank	1977 - 1987	289173
U	404m SE	Gas Holder	1990	287940

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**52**

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Electricity Transformer**	**1976**	**171620**
A	**On site**	**Electricity Substation**	**1982 - 1993**	**174507**
E	69m SW	Electricity Substation	1982 - 1993	181710
K	93m W	Electricity Works	1922	171345
N	117m S	Electricity Substation	1982	170560
N	118m S	Electricity Transformer	1976	171609
H	129m W	Electricity Substation	1977 - 1999	185599
2	133m S	Electricity Substation	1982 - 1993	186558
K	138m W	Electricity Substation	1977	175898
K	138m W	Electricity Substation	1982 - 1999	174502
O	156m E	Gas Works	1900 - 1922	182883
L	202m S	Electricity Substation	1982 - 1989	179237
L	203m S	Electricity Substation	1993	187061
C	209m E	Gasometers	1900	171262

ID	Location	Land use	Dates present	Group ID
C	211m E	Gasometer	1922	171153
3	217m W	Electricity Substation	1999	170562
C	219m E	Electricity Substation	1982 - 1993	181196
C	219m E	Electricity Transformer	1976	171619
V	221m SE	Electricity Substation	1982 - 1989	187310
V	221m SE	Electricity Substation	1993	176467
V	222m SE	Electricity Transformer	1976	171608
C	236m SE	Gasometer	1922	171154
W	244m SW	Electricity Substation	1977 - 1990	176135
X	257m W	Electricity Substation	1977 - 1999	174404
6	265m NW	Electricity Substation	1999	170563
AA	301m S	Electricity Transformer	1975	171611
AA	301m S	Electricity Substation	1989	172848
AA	302m S	Electricity Substation	1987	177456
AA	303m S	Electricity Substation	1994	172249
Z	304m SW	Electricity Substation	1982 - 1999	182039
AB	304m NE	Electricity Substation	1997 - 1999	177278
AB	309m NE	Electricity Substation	1983 - 1990	183275
AB	310m NE	Electricity Substation	1977	173235
O	320m SE	Electricity Substation	1982 - 1993	186597
O	323m SE	Electricity Transformer	1976	171607
AC	330m NW	Electricity Substation	1985 - 1992	178074
AC	330m NW	Electricity Substation	1985	181508
AD	365m NE	Electricity Substation	1977 - 1999	174126
U	369m SE	Gas Holders	1965	171784
U	369m SE	Gasometer	1900 - 1922	185234
U	372m SE	Gasholders	1966	171228
AH	382m W	Electricity Substation	1982 - 1999	178627

ID	Location	Land use	Dates present	Group ID
AJ	392m N	Electricity Substation	1997 - 1999	180742
AJ	394m N	Electricity Substation	1990	186313
11	395m NW	Electricity Substation	1985 - 1992	175707
12	395m W	Electricity Substation	1985	170566
AK	396m SW	Electricity Substation	1987 - 1995	177587
AK	396m SW	Electricity Substation	1983	177271
U	404m SE	Gas Holder	1990	171579
AH	425m W	Electricity Substation	1999	170582
14	453m N	Electricity Substation	1977 - 1999	176055
AF	453m NW	Electricity Substation	1985 - 1992	185801

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	**4**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Petroleum Depot**	**1966**	**3059**
A	**On site**	**Petroleum Depot**	**1965**	**3101**
A	**On site**	**Petroleum Depot**	**1965**	**3126**
A	**On site**	**Petroleum Depot**	**1966**	**3129**

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	26

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
H	68m W	Garage	1989 - 1993	60167
J	171m SW	Garage	1990	60235
R	182m NW	Garage	1985	59588
R	182m NW	Garage	1992	56461
J	190m SW	Garage	1999	57428
R	212m NW	Garage	1985	54821
R	222m NW	Garage	1966	57789
R	222m NW	Garage	1966	55777
X	224m W	Garage	1977 - 1990	58842
X	225m W	Garage	1999	56549
T	228m NW	Garage	1985	55821
T	250m NW	Garage	1966	60324
Y	250m N	Garage	1965	57285
Y	251m N	Garage	1966 - 1977	59340
Y	251m N	Garage	1983 - 1990	59503
Y	252m N	Garage	1997 - 1999	58449
Y	277m N	Garage	1983 - 1987	57735
Y	278m N	Garage	1966 - 1977	60130
Y	278m N	Garage	1965	55742
AG	361m W	Garage	1977	56459
AG	362m W	Garage	1982 - 1990	59786

ID	Location	Land use	Dates present	Group ID
AD	364m NE	Garage	1987 - 1999	59859
AD	378m N	Garage	1966 - 1977	58258
AD	378m N	Garage	1965	55435
AL	433m W	Garage	1977	57065
AL	434m W	Garage	1982 - 1987	58366

This data is sourced from Ordnance Survey / Groundsure.

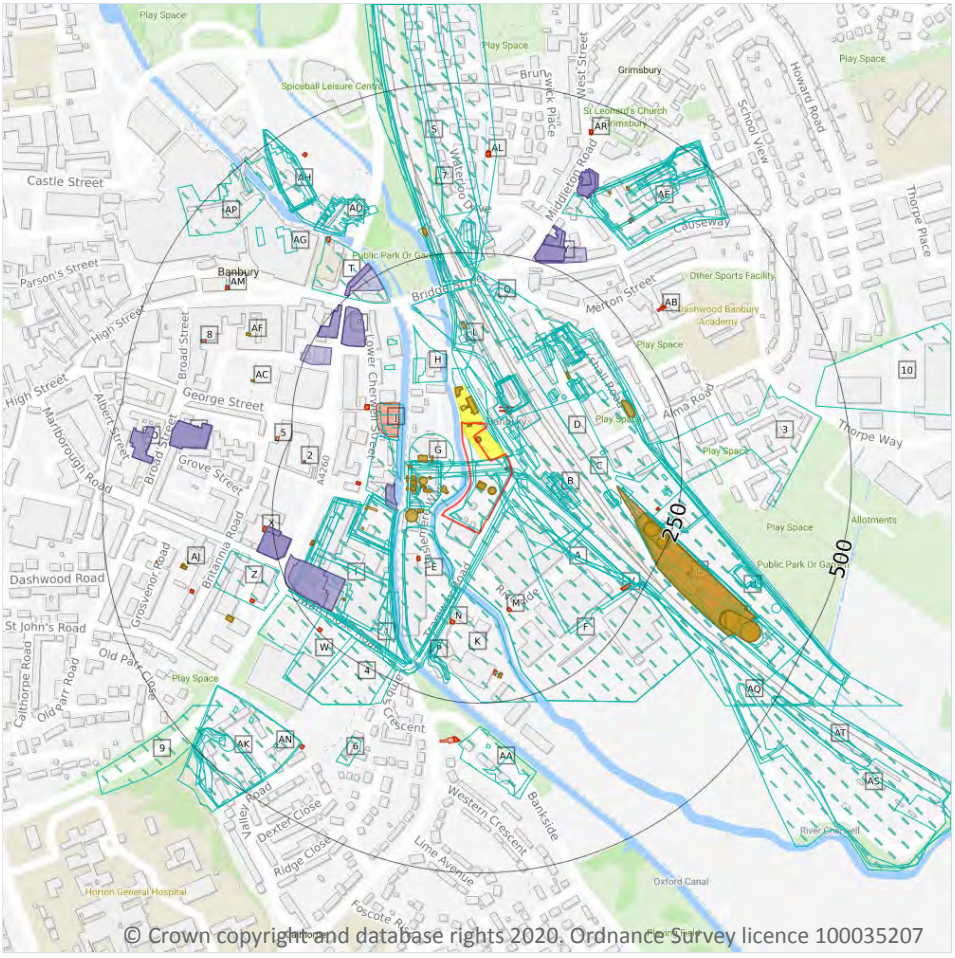
1.6 Historical military land

Records within 500m	**0**

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.

2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m	228

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 30**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Works Depot**	**1900**	**1775539**
B	**On site**	**Railway Sidings**	**1976**	**1785621**
B	**On site**	**Unspecified Tank**	**1976**	**1810011**

ID	Location	Land Use	Date	Group ID
B	**On site**	**Unspecified Depot**	**1976**	**1828948**
B	**On site**	**Railway Sidings**	**1994**	**1785621**
B	**On site**	**Unspecified Tank**	**1994**	**1768945**
B	**On site**	**Unspecified Depot**	**1994**	**1814902**
B	**On site**	**Unspecified Tank**	**1994**	**1787435**
B	**On site**	**Unspecified Works**	**1923**	**1771549**
B	**On site**	**Depot Works**	**1923**	**1759828**
C	**On site**	**Railway Sidings**	**1967**	**1792816**
C	**On site**	**Railway Sidings**	**1923**	**1812554**
C	**On site**	**Railway Sidings**	**1923**	**1816326**
D	**On site**	**Railway Sidings**	**1938**	**1816326**
E	6m W	Unspecified Works	1938	1783006
D	9m NE	Railway Sidings	1900	1820826
C	9m SE	Railway Sidings	1883	1795902
F	12m SE	Industrial Estate	1976	1823603
F	12m SE	Industrial Estate	1994	1846979
B	15m SE	Railway Building	1976	1765279
G	17m W	Unspecified Wharf	1900	1810725
B	18m NE	Railway Buildings	1923	1840231
B	19m NE	Railway Building	1883	1765278
G	20m NW	Sewage Works	1923	1844037
G	20m NW	Sewage Works	1923	1844037
G	20m NW	Sewage Works	1923	1844037
E	21m SW	Unspecified Works	1923	1783006
B	22m NE	Railway Station	1976	1784557
B	22m NE	Railway Station	1994	1805510
B	25m NE	Railway Building	1976	1765277
B	25m NE	Railway Buildings	1938	1840231

ID	Location	Land Use	Date	Group ID
E	29m SW	Sewage Works	1900	1760026
G	29m W	Unspecified Tank	1938	1782723
G	32m W	Unspecified Tank	1967	1782946
B	36m NE	Railway Station	1923	1800964
B	36m NE	Railway Station	1938	1803159
B	36m NE	Railway Station	1883	1843927
G	37m W	Unspecified Wharf	1967	1795684
B	39m NE	Railway Station	1900	1848807
B	43m NE	Railway Station	1923	1848807
B	43m E	Railway Building	1976	1785153
B	43m E	Railway Buildings	1994	1794326
B	44m NE	Railway Station	1967	1829435
G	45m NW	Unspecified Tanks	1923	1821167
B	46m E	Goods Shed	1883	1774008
G	46m NW	Unspecified Tanks	1923	1821167
G	46m NW	Unspecified Tanks	1967	1785471
G	48m NW	Unspecified Tanks	1938	1821167
G	49m W	Unspecified Wharf	1938	1789840
B	50m N	Unspecified Mills	1923	1758203
B	52m E	Railway Building	1923	1848246
B	56m E	Railway Building	1900	1848246
B	57m E	Railway Buildings	1938	1843902
B	57m E	Railway Building	1967	1805456
G	65m W	Unspecified Works	1938	1827922
H	65m N	Unspecified Mills	1923	1823219
I	67m W	Unspecified Works	1900	1793519
G	68m W	Unspecified Works	1967	1815324
G	70m W	Engineering Works	1881	1759930

ID	Location	Land Use	Date	Group ID
G	71m W	Unspecified Works	1923	1827922
G	75m W	Sewage Works	1881	1760025
J	80m NW	Electricity Works	1923	1837758
A	84m SE	Agricultural Implement Works	1883	1767498
K	86m S	Unspecified Works	1976	1771564
H	87m NW	Unspecified Mills	1923	1831707
I	90m SW	Unspecified Works	1938	1781583
1	91m SW	Railway Sidings	1881	1793880
J	91m W	Electricity Works	1923	1837758
I	92m SW	Unspecified Works	1967	1791886
I	92m SW	Unspecified Works	1923	1809333
I	97m SW	Unspecified Works	1923	1787552
D	101m NE	Railway Building	1923	1823355
D	104m NE	Railway Building	1900	1823355
A	105m SE	Agricultural Depot	1883	1761791
D	106m NE	Railway Building	1900	1765276
D	108m NE	Railway Building	1938	1807280
D	113m NE	Railway Building	1900	1765275
L	115m N	Railway Building	1900	1765262
L	117m N	Railway Buildings	1883	1773250
D	117m NE	Railway Building	1883	1765287
H	126m NW	Unspecified Wharf	1881	1769369
D	126m NE	Railway Buildings	1923	1773435
D	130m NE	Railway Building	1900	1845729
D	131m NE	Unspecified Depot	1994	1763978
D	133m E	Railway Building	1883	1765288
D	134m NE	Railway Building	1938	1846895
D	134m NE	Goods Shed	1883	1774007

ID	Location	Land Use	Date	Group ID
D	134m NE	Railway Building	1938	1786007
I	134m SW	Unspecified Works	1881	1793939
D	136m NE	Railway Building	1923	1846895
L	137m N	Unspecified Tank	1900	1768946
C	138m E	Railway Building	1923	1839050
C	138m E	Railway Building	1900	1816343
D	139m NE	Railway Building	1900	1844102
I	140m W	Railway Sidings	1923	1827184
C	141m E	Railway Building	1967	1787959
D	142m NE	Railway Building	1938	1765260
D	143m NE	Railway Building	1967	1785627
D	148m NE	Railway Terminus	1883	1845694
H	150m NW	Unspecified Wharf	1881	1769370
C	153m E	Unspecified Depot	1994	1763979
D	154m NE	Terminus	1923	1781416
D	157m NE	Terminus	1900	1834617
D	159m NE	Terminus	1923	1834617
D	161m NE	Railway Terminus	1938	1833289
D	162m NE	Terminus	1967	1811040
D	162m NE	Goods Depot	1976	1770162
O	163m E	Gas Works	1923	1850436
O	165m E	Unspecified Commercial/Industrial	1967	1840157
P	166m S	Unspecified Ground Workings	1938	1843763
P	171m S	Unspecified Ground Workings	1967	1791978
P	171m S	Unspecified Ground Workings	1923	1850920
Q	179m N	Railway Building	1938	1765261
L	184m N	Railway Building	1883	1765263
D	187m NE	Unspecified Tanks	1994	1761626

ID	Location	Land Use	Date	Group ID
O	194m E	Unspecified Commercial/Industrial	1938	1786224
O	194m E	Gas Works	1883	1850240
D	194m NE	Railway Building	1883	1765289
Q	194m N	Unspecified Ground Workings	1967	1755317
L	194m N	Railway Building	1883	1765264
O	198m E	Gas Works	1900	1805342
O	199m E	Gas Works	1923	1823952
S	203m N	Railway Sidings	1976	1802936
S	203m N	Railway Sidings	1994	1802936
T	207m NW	Unspecified Wharves	1881	1758740
C	208m E	Unspecified Tanks	1938	1831435
C	208m E	Gasometers	1883	1846274
L	209m N	Railway Buildings	1976	1825846
L	209m N	Railway Buildings	1994	1833708
S	209m N	Railway Sidings	1967	1785993
C	212m E	Unspecified Tanks	1967	1799454
U	213m SE	Scrap Yard	1994	1753658
C	213m E	Gasometers	1923	1823345
C	214m E	Gasometer	1900	1795791
3	217m E	Stock Yard	1976	1758354
C	217m E	Gasometer	1923	1795791
C	217m E	Unspecified Works	1976	1771550
C	220m E	Railway Buildings	1883	1773434
W	221m SW	Unspecified Works	1994	1803646
W	221m SW	Unspecified Works	1976	1838463
4	222m SW	Unspecified Works	1994	1819253
C	222m E	Railway Building	1883	1823716
C	226m E	Railway Building	1967	1819834

ID	Location	Land Use	Date	Group ID
L	229m N	Railway Buildings	1900	1773252
L	231m N	Timber Yard	1883	1752697
L	235m N	Railway Building	1967	1815456
L	237m N	Railway Building	1938	1835683
L	237m N	Railway Building	1967	1824331
C	240m SE	Gasometer	1900	1758491
L	241m N	Railway Buildings	1976	1773251
C	243m SE	Unspecified Tank	1923	1768944
Z	253m W	Unspecified Works	1900	1771560
L	256m N	Railway Building	1938	1814154
O	270m SE	Unspecified Works	1976	1848612
O	270m SE	Unspecified Works	1994	1802162
AA	284m S	Brick Works	1881	1764141
AA	310m S	Unspecified Kiln	1881	1769432
AD	324m NW	Unspecified Mill	1923	1838235
AD	327m NW	Unspecified Mill	1938	1825026
AD	328m NW	Unspecified Mill	1900	1838157
AD	329m NW	Unspecified Mill	1923	1815073
AE	330m N	Brick Tile and Drain Pipe Works	1900	1848230
AE	331m NE	Brick Tile and Drain Pipe Works	1883	1848230
AA	332m S	Unspecified Pit	1881	1778045
AE	339m NE	Disused Brick and Drain Pipe Works	1967	1792317
AE	339m NE	Disused Brick Tile and Drain Pipe Works	1923	1831885
AE	343m NE	Unspecified Depot	1976	1763977
AE	343m NE	Disused Brick Tile and Drain Pipe Works	1938	1831885
AE	344m NE	Disused Brick and Drain Pipe Works	1923	1797067
AD	348m NW	Corn Mill	1881	1767411
U	350m SE	Railway Buildings	1883	1773433

ID	Location	Land Use	Date	Group ID
6	350m SW	Clay Mill	1881	1779232
AG	350m NW	Unspecified Wharf	1881	1769368
7	351m N	Railway Building	1923	1765274
U	357m SE	Railway Building	1967	1839718
U	357m SE	Railway Building	1900	1815148
U	358m SE	Railway Building	1923	1815148
AH	358m NW	Cabinet Works	1923	1802609
U	363m SE	Gas Holder	1976	1817834
U	369m SE	Unspecified Tank	1967	1839825
U	372m SE	Gasometer	1923	1799182
U	373m SE	Gas Holder	1994	1828784
U	373m SE	Gasometer	1900	1799182
U	374m SE	Unspecified Tank	1938	1796024
U	377m SE	Gasometer	1923	1811408
AE	389m NE	Railway Sidings	1923	1819610
AK	390m SW	Brick Works	1881	1845926
AG	391m NW	Bus Station	1994	1779246
AH	391m NW	Cabinet Works	1923	1802609
AK	391m SW	Brick Works	1900	1815919
AH	392m NW	Unspecified Manufactory	1881	1836219
AH	393m NW	Unspecified Manufactory	1900	1845721
AH	395m NW	Cabinet Works	1967	1831005
AH	396m NW	Cabinet Works	1938	1805643
AE	398m NE	Railway Sidings	1923	1806807
U	401m SE	Gasometer	1994	1797492
AE	403m NE	Railway Sidings	1938	1819610
U	403m SE	Gasometer	1976	1800708
AK	409m SW	Unspecified Kilns	1881	1766202

ID	Location	Land Use	Date	Group ID
AE	413m NE	Unspecified Disused Covered Pits	1923	1830801
AE	413m NE	Unspecified Disused Covered Pits	1923	1830801
AK	414m SW	Unspecified Kilns	1881	1766204
AN	415m SW	Unspecified Kiln	1881	1769433
U	415m SE	Unspecified Tank	1967	1768943
AE	419m NE	Unspecified Pit	1967	1835536
AE	421m NE	Unspecified Pit	1938	1846983
U	430m SE	Unspecified Tank	1967	1768948
9	431m SW	Cuttings	1992	1751527
AP	438m NW	Dock	1881	1763476
AQ	441m SE	Unspecified Pit	1967	1823099
AH	443m NW	Dock	1881	1763475
AQ	444m SE	Unspecified Pit	1938	1809157
AE	448m NE	Unspecified Pit	1923	1818977
AK	452m SW	Unspecified Pit	1923	1821863
AK	452m SW	Unspecified Pit	1923	1821863
AK	452m SW	Unspecified Heap	1881	1756867
AK	453m SW	Unspecified Pit	1938	1782620
AS	453m SE	Railway Sidings	1954	1780434
AK	456m SW	Unspecified Ground Workings	1954	1796351
10	458m E	Unspecified Depot	1976	1763980
AK	458m SW	Unspecified Ground Workings	1923	1844033
AP	480m NW	Unspecified Wharf	1881	1769367
AK	494m SW	Unspecified Ground Workings	1881	1828712
AS	494m SE	Unspecified Pits	1923	1808737
AQ	495m SE	Unspecified Pit	1967	1821973
AK	496m SW	Unspecified Ground Workings	1900	1834456
AT	498m SE	Unspecified Pits	1923	1793172

ID	Location	Land Use	Date	Group ID
AT	498m SE	Unspecified Pits	1923	1793172

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**113**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 30**

ID	Location	Land Use	Date	Group ID
B	**On site**	**Unspecified Tank**	**1976**	**300524**
B	**On site**	**Tanks**	**1976**	**291306**
B	**On site**	**Tanks**	**1976**	**292174**
B	**On site**	**Tanks**	**1982**	**291306**
B	**On site**	**Tanks**	**1982**	**292174**
B	**On site**	**Unspecified Tank**	**1982**	**300524**
B	**On site**	**Unspecified Tank**	**1989**	**297918**
B	**On site**	**Unspecified Tank**	**1989**	**300524**
B	**On site**	**Tanks**	**1989**	**291306**
B	**On site**	**Tanks**	**1989**	**292174**
B	**On site**	**Unspecified Tank**	**1993**	**300524**
B	**On site**	**Tanks**	**1993**	**291306**
B	**On site**	**Tanks**	**1993**	**295535**
B	**On site**	**Unspecified Tank**	**1993**	**297918**
B	13m N	Tanks	1989	292510
B	13m N	Tanks	1993	292510
B	17m N	Tanks	1989	287583
G	20m NW	Tanks	1966	300426
G	20m NW	Tanks	1965	295455

ID	Location	Land Use	Date	Group ID
G	28m W	Tanks	1966	295010
G	29m W	Tanks	1965	299629
G	34m NW	Tanks	1966	295634
G	34m NW	Tanks	1965	302048
G	36m W	Unspecified Tank	1965	295681
G	36m W	Unspecified Tank	1966	290004
B	38m N	Tanks	1966	295869
B	39m N	Tanks	1965	302013
G	44m NW	Unspecified Tank	1966	292220
G	44m NW	Unspecified Tank	1965	291454
G	47m W	Unspecified Tank	1965	292028
G	48m W	Unspecified Tank	1966	295474
G	49m NW	Unspecified Tank	1966	295419
G	49m NW	Unspecified Tank	1965	296293
G	51m NW	Tanks	1922	287584
G	51m NW	Unspecified Tank	1966	295814
G	51m NW	Unspecified Tank	1965	298370
G	54m NW	Unspecified Tank	1966	300669
G	54m NW	Unspecified Tank	1965	294087
G	55m W	Tanks	1965	296364
G	56m W	Tanks	1966	299871
G	59m NW	Unspecified Tank	1965	297962
G	60m NW	Unspecified Tank	1966	290836
G	62m NW	Tanks	1966	290473
G	63m NW	Tanks	1965	301246
G	64m NW	Unspecified Tank	1966	300382
G	65m NW	Unspecified Tank	1965	293631
G	70m NW	Unspecified Tank	1966	289281

ID	Location	Land Use	Date	Group ID
G	70m NW	Unspecified Tank	1965	291820
G	81m NW	Unspecified Tank	1966	296828
G	81m NW	Unspecified Tank	1965	300066
G	96m W	Tanks	1922	287587
G	116m W	Unspecified Tank	1922	284639
L	138m N	Unspecified Tank	1900	284633
D	139m NE	Unspecified Tank	1982	295620
D	139m NE	Unspecified Tank	1976	295620
O	156m E	Gas Works	1922	291979
D	185m NE	Tanks	1989	296706
D	186m NE	Tanks	1993	296706
I	189m SW	Unspecified Tank	1982	299576
I	189m SW	Unspecified Tank	1987	299576
I	189m SW	Unspecified Tank	1966	299576
I	189m SW	Unspecified Tank	1977	299576
I	189m SW	Unspecified Tank	1966	289932
I	189m SW	Unspecified Tank	1966	289932
I	192m W	Unspecified Tank	1966	301850
I	192m W	Unspecified Tank	1977	301850
I	192m W	Unspecified Tank	1966	301850
I	192m W	Unspecified Tank	1966	301850
I	193m W	Unspecified Tank	1990	301850
I	193m W	Unspecified Tank	1990	301850
O	196m E	Gas Works	1900	291979
K	207m S	Unspecified Tank	1982	300715
K	207m S	Unspecified Tank	1989	300715
K	208m S	Unspecified Tank	1993	298209
C	209m E	Gasometers	1900	285877

ID	Location	Land Use	Date	Group ID
C	211m E	Gasometer	1922	285687
C	212m E	Unspecified Tank	1922	284632
C	234m E	Tanks	1922	287582
C	236m SE	Gasometer	1922	285688
L	280m N	Unspecified Tank	1922	288310
L	281m N	Unspecified Tank	1966	290655
L	282m N	Unspecified Tank	1965	288310
O	297m SE	Unspecified Tank	1922	284631
AC	311m W	Unspecified Tank	1966	293652
AC	311m W	Unspecified Tank	1966	293652
AC	311m W	Unspecified Tank	1966	293652
AF	337m W	Unspecified Tank	1966	289841
AF	337m W	Unspecified Tank	1966	289841
AF	337m W	Unspecified Tank	1966	289841
Z	342m SW	Tanks	1966	294838
Z	342m SW	Tanks	1966	294838
Z	342m SW	Tanks	1966	294838
U	369m SE	Gas Holders	1965	288210
U	369m SE	Gasometer	1900	293336
U	369m SE	Unspecified Tank	1966	284675
U	371m SE	Gasometer	1922	293336
U	372m SE	Gasholders	1966	285845
AJ	379m W	Tanks	1966	287586
AJ	383m W	Tanks	1966	298859
AJ	383m W	Tanks	1977	290487
AJ	383m W	Tanks	1966	298859
AJ	383m W	Tanks	1999	298859
AJ	384m W	Tanks	1982	298859

ID	Location	Land Use	Date	Group ID
AJ	384m W	Tanks	1987	298859
AJ	384m W	Tanks	1990	298859
AJ	384m W	Tanks	1990	298859
AE	384m NE	Unspecified Tank	1965	284634
AJ	386m W	Tanks	1977	300471
AE	403m NE	Unspecified Tank	1983	289173
AE	403m NE	Unspecified Tank	1983	289173
AE	403m NE	Unspecified Tank	1987	289173
AE	403m NE	Unspecified Tank	1977	289173
U	404m SE	Gas Holder	1990	287940

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**128**

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 30**

ID	Location	Land Use	Date	Group ID
B	**On site**	**Electricity Transformer**	**1976**	**171620**
B	**On site**	**Electricity Substation**	**1982**	**174507**
B	**On site**	**Electricity Substation**	**1989**	**174507**
B	**On site**	**Electricity Substation**	**1993**	**174507**
E	69m SW	Electricity Substation	1982	181710
E	69m SW	Electricity Substation	1989	181710
E	70m SW	Electricity Substation	1993	181710
J	93m W	Electricity Works	1922	171345
M	117m S	Electricity Substation	1982	170560
M	118m S	Electricity Transformer	1976	171609

ID	Location	Land Use	Date	Group ID
G	129m W	Electricity Substation	1982	185599
G	129m W	Electricity Substation	1987	185599
G	129m W	Electricity Substation	1990	185599
G	129m W	Electricity Substation	1990	185599
G	129m W	Electricity Substation	1977	185599
G	129m W	Electricity Substation	1999	185599
N	133m S	Electricity Substation	1982	186558
N	133m S	Electricity Substation	1989	186558
N	133m S	Electricity Substation	1993	186558
J	138m W	Electricity Substation	1977	175898
J	138m W	Electricity Substation	1999	174502
J	138m W	Electricity Substation	1982	174502
J	138m W	Electricity Substation	1987	174502
J	138m W	Electricity Substation	1990	174502
J	138m W	Electricity Substation	1990	174502
O	156m E	Gas Works	1922	182883
O	196m E	Gas Works	1900	182883
K	202m S	Electricity Substation	1982	179237
K	202m S	Electricity Substation	1989	179237
K	203m S	Electricity Substation	1993	187061
C	209m E	Gasometers	1900	171262
C	211m E	Gasometer	1922	171153
2	217m W	Electricity Substation	1999	170562
C	219m E	Electricity Substation	1982	181196
C	219m E	Electricity Substation	1989	181196
C	219m E	Electricity Substation	1993	181196
C	219m E	Electricity Transformer	1976	171619
V	221m SE	Electricity Substation	1982	187310

ID	Location	Land Use	Date	Group ID
V	221m SE	Electricity Substation	1989	187310
V	221m SE	Electricity Substation	1993	176467
V	222m SE	Electricity Transformer	1976	171608
C	236m SE	Gasometer	1922	171154
W	244m SW	Electricity Substation	1977	176135
W	244m SW	Electricity Substation	1982	176135
W	244m SW	Electricity Substation	1987	176135
W	244m SW	Electricity Substation	1990	176135
W	244m SW	Electricity Substation	1990	176135
X	257m W	Electricity Substation	1977	174404
X	258m W	Electricity Substation	1999	174404
X	258m W	Electricity Substation	1982	174404
X	258m W	Electricity Substation	1987	174404
X	258m W	Electricity Substation	1990	174404
X	258m W	Electricity Substation	1990	174404
5	265m NW	Electricity Substation	1999	170563
AA	301m S	Electricity Transformer	1975	171611
AA	301m S	Electricity Substation	1989	172848
AA	302m S	Electricity Substation	1987	177456
AA	302m S	Electricity Substation	1987	177456
AA	303m S	Electricity Substation	1994	172249
Z	304m SW	Electricity Substation	1982	182039
Z	304m SW	Electricity Substation	1987	182039
Z	304m SW	Electricity Substation	1990	182039
Z	304m SW	Electricity Substation	1990	182039
Z	304m SW	Electricity Substation	1999	182039
AB	304m NE	Electricity Substation	1997	177278
AB	304m NE	Electricity Substation	1997	177278

ID	Location	Land Use	Date	Group ID
AB	304m NE	Electricity Substation	1999	177278
AB	309m NE	Electricity Substation	1983	183275
AB	309m NE	Electricity Substation	1983	183275
AB	309m NE	Electricity Substation	1987	183275
AB	309m NE	Electricity Substation	1990	183275
AB	309m NE	Electricity Substation	1990	183275
AB	310m NE	Electricity Substation	1977	173235
O	320m SE	Electricity Substation	1982	186597
O	320m SE	Electricity Substation	1989	186597
O	321m SE	Electricity Substation	1993	186597
O	323m SE	Electricity Transformer	1976	171607
AD	330m NW	Electricity Substation	1985	181508
AD	330m NW	Electricity Substation	1985	178074
AD	330m NW	Electricity Substation	1992	178074
AD	330m NW	Electricity Substation	1985	178074
AE	365m NE	Electricity Substation	1983	174126
AE	365m NE	Electricity Substation	1983	174126
AE	365m NE	Electricity Substation	1987	174126
AE	365m NE	Electricity Substation	1990	174126
AE	365m NE	Electricity Substation	1990	174126
AE	365m NE	Electricity Substation	1977	174126
AE	366m NE	Electricity Substation	1997	174126
AE	366m NE	Electricity Substation	1997	174126
AE	366m NE	Electricity Substation	1999	174126
U	369m SE	Gas Holders	1965	171784
U	369m SE	Gasometer	1900	185234
U	371m SE	Gasometer	1922	185234
U	372m SE	Gasholders	1966	171228

ID	Location	Land Use	Date	Group ID
AJ	382m W	Electricity Substation	1999	178627
AJ	382m W	Electricity Substation	1982	178627
AJ	382m W	Electricity Substation	1987	178627
AJ	382m W	Electricity Substation	1990	178627
AJ	382m W	Electricity Substation	1990	178627
AL	392m N	Electricity Substation	1997	180742
AL	392m N	Electricity Substation	1997	180742
AL	392m N	Electricity Substation	1999	180742
AL	394m N	Electricity Substation	1990	186313
AL	394m N	Electricity Substation	1990	186313
AM	395m NW	Electricity Substation	1985	175707
8	395m W	Electricity Substation	1985	170566
AN	396m SW	Electricity Substation	1995	177587
AM	396m NW	Electricity Substation	1985	175707
AM	396m NW	Electricity Substation	1992	175707
AM	396m NW	Electricity Substation	1985	175707
AN	396m SW	Electricity Substation	1987	177587
AN	396m SW	Electricity Substation	1990	177587
AN	396m SW	Electricity Substation	1983	177271
U	404m SE	Gas Holder	1990	171579
AJ	425m W	Electricity Substation	1999	170582
AR	453m N	Electricity Substation	1977	176055
AR	453m N	Electricity Substation	1983	176055
AR	453m N	Electricity Substation	1983	176055
AR	453m N	Electricity Substation	1987	176055
AR	453m N	Electricity Substation	1990	176055
AR	453m N	Electricity Substation	1990	176055
AH	453m NW	Electricity Substation	1985	185801

ID	Location	Land Use	Date	Group ID
AR	454m N	Electricity Substation	1997	176055
AR	454m N	Electricity Substation	1997	176055
AR	454m N	Electricity Substation	1999	176055
AH	455m NW	Electricity Substation	1985	185801
AH	455m NW	Electricity Substation	1992	185801
AH	455m NW	Electricity Substation	1985	185801

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m **4**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 30**

ID	Location	Land Use	Date	Group ID
B	**On site**	**Petroleum Depot**	**1966**	**3129**
B	**On site**	**Petroleum Depot**	**1966**	**3059**
B	**On site**	**Petroleum Depot**	**1965**	**3101**
B	**On site**	**Petroleum Depot**	**1965**	**3126**

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m **55**

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 30**

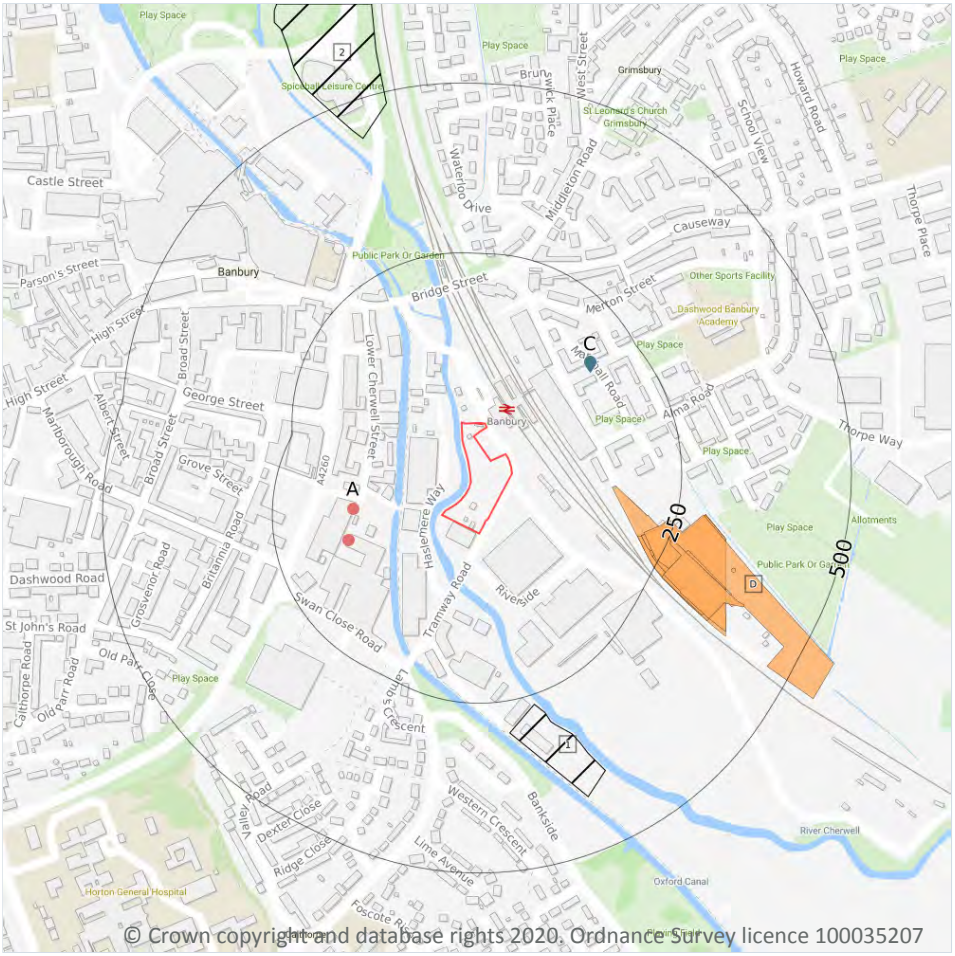
ID	Location	Land Use	Date	Group ID
G	68m W	Garage	1993	60167

ID	Location	Land Use	Date	Group ID
G	68m W	Garage	1989	60167
I	171m SW	Garage	1990	60235
I	171m SW	Garage	1990	60235
R	182m NW	Garage	1985	59588
R	182m NW	Garage	1992	56461
R	182m NW	Garage	1985	59588
I	190m SW	Garage	1999	57428
R	212m NW	Garage	1985	54821
R	222m NW	Garage	1966	57789
R	222m NW	Garage	1966	57789
R	222m NW	Garage	1966	55777
X	224m W	Garage	1977	58842
X	225m W	Garage	1990	58842
X	225m W	Garage	1990	58842
X	225m W	Garage	1982	58842
X	225m W	Garage	1987	58842
X	225m W	Garage	1999	56549
T	228m NW	Garage	1985	55821
T	250m NW	Garage	1966	60324
T	250m NW	Garage	1966	60324
Y	250m N	Garage	1965	57285
Y	251m N	Garage	1977	59340
Y	251m N	Garage	1966	59340
Y	251m N	Garage	1983	59503
Y	251m N	Garage	1983	59503
Y	251m N	Garage	1987	59503
Y	251m N	Garage	1990	59503
Y	251m N	Garage	1990	59503

ID	Location	Land Use	Date	Group ID
Y	252m N	Garage	1997	58449
Y	252m N	Garage	1999	58449
Y	252m N	Garage	1997	58449
Y	277m N	Garage	1983	57735
Y	277m N	Garage	1983	57735
Y	277m N	Garage	1987	57735
Y	278m N	Garage	1977	60130
Y	278m N	Garage	1966	60130
Y	278m N	Garage	1965	55742
AI	361m W	Garage	1977	56459
AI	362m W	Garage	1990	59786
AI	362m W	Garage	1990	59786
AI	362m W	Garage	1982	59786
AI	362m W	Garage	1987	59786
AE	364m NE	Garage	1997	59859
AE	364m NE	Garage	1999	59859
AE	364m NE	Garage	1997	59859
AE	364m NE	Garage	1987	59859
AE	364m NE	Garage	1990	59859
AE	364m NE	Garage	1990	59859
AE	378m N	Garage	1977	58258
AE	378m N	Garage	1966	58258
AE	378m N	Garage	1965	55435
AO	433m W	Garage	1977	57065
AO	434m W	Garage	1982	58366
AO	434m W	Garage	1987	58366

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



3.1 Active or recent landfill

Records within 500m	0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m	0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m	2

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 51**

ID	Location	Details		
1	264m S	Site Address: Tramway Road, Banbury, Oxfordshire Licence Holder Address: -	Waste Licence: - Site Reference: TP0012, 13.6.4639 Waste Type: Inert, Industrial, Household, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Banbury Rural District Council Licence Holder: - First Recorded - Last Recorded: -
2	442m N	Site Address: Spiceball Park, Banbury, Oxfordshire Licence Holder Address: -	Waste Licence: - Site Reference: TP0245, 13.6.4540 Waste Type: Inert, Industrial, Commercial, Household, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Banbury Council Licence Holder: Department of Transport First Recorded 01/01/1956 Last Recorded: 31/12/1958

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m	7

Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 51**

ID	Location	Address	Further Details	Date
B	149m E	Site Address: N/A	Type of Site: Scrap Metal Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1965
B	206m SE	Site Address: N/A	Type of Site: Scrap Metal Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1975
B	210m SE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1989
B	211m SE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1993
D	212m SE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1994
B	249m SE	Site Address: N/A	Type of Site: Scrap Metal Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1965
D	352m SE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1990

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m **2**

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 51**

ID	Location	Details		
C	176m NE	Site Name: Merton Street Depot Site Address: S Grundon (Waste) Ltd, Merton Street Depot, Station Road, Off Merton Street, Banbury, Oxfordshire, OX16 4RN Correspondence Address: Mr Stephen Roscoe, S Grundon (Waste) Ltd, Goulds Grove, Ewelme, Wallingford, Oxfordshire, OX10 6PJ	Type of Site: Special Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRU005 EPR reference: - Operator: S Grundon (Waste) Ltd Waste Management licence No: 86113 Annual Tonnage: 161	Issue Date: 13/01/1995 Effective Date: - Modified:: 29/03/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
C	176m NE	Site Name: Merton Street Depot Site Address: S Grundon (Waste) Ltd, Merton Street Depot, Station Road, Off Merton Street, Banbury, Oxfordshire, OX16 4RN Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRU005 EPR reference: EA/EPR/ZP3899EU/S004 Operator: S Grundon (Waste) Ltd Waste Management licence No: 86113 Annual Tonnage: 0	Issue Date: 13/01/1995 Effective Date: - Modified:: 07/04/2009 Surrendered Date: Jun 24 2019 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m **2**

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

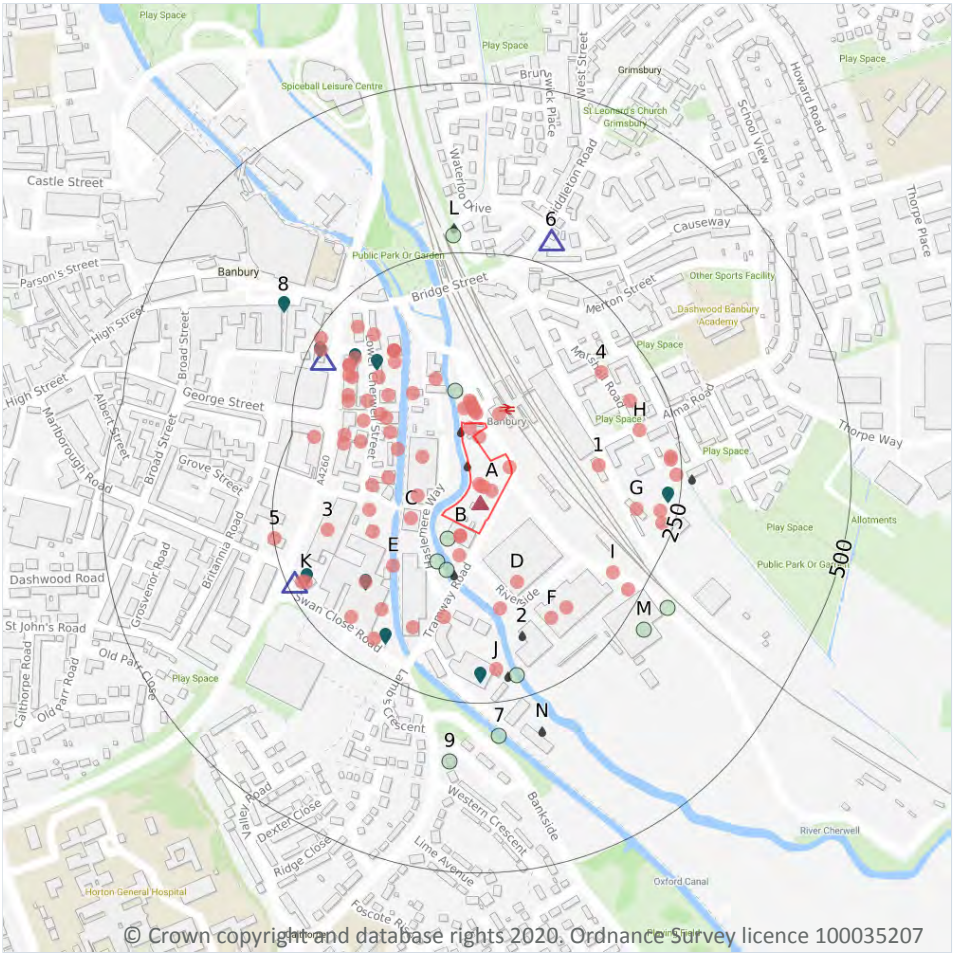
Features are displayed on the Waste and landfill map on **page 51**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	132m W	Unit 2 Canal Street Oxfordshire OX16 5AX	EPR/JF0606GY/A001	Using waste exemption	Non-Agricultural Waste Only	Use of depolluted end-of-life vehicles for vehicle parts

ID	Location	Site	Reference	Category	Sub-Category	Description
A	143m W	Unit 2 Canal Street Oxfordshire OX16 5AX	EPR/EE5648XD /A001	Using waste exemption	Non-Agricultural Waste Only	Use of depolluted end-of-life vehicles for vehicle parts

This data is sourced from the Environment Agency and Natural Resources Wales.

4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m	83

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Company	Address	Activity	Category
A	**On site**	**Tank**	**Oxfordshire, OX16**	**Tanks (Generic)**	**Industrial Features**
A	**On site**	**Tank**	**Oxfordshire, OX16**	**Tanks (Generic)**	**Industrial Features**
A	**On site**	**Tank**	**Oxfordshire, OX16**	**Tanks (Generic)**	**Industrial Features**
A	**On site**	**Tank**	**Oxfordshire, OX16**	**Tanks (Generic)**	**Industrial Features**

ID	Location	Company	Address	Activity	Category
A	**On site**	**Tank**	**Oxfordshire, OX16**	**Tanks (Generic)**	**Industrial Features**
A	**On site**	**Electricity Sub Station**	**Oxfordshire, OX16**	**Electrical Features**	**Infrastructure and Facilities**
A	5m SE	Tank	Oxfordshire, OX16	Tanks (Generic)	Industrial Features
B	15m SW	Britannia Joinery	Tramway Road, Banbury, Oxfordshire, OX16 5TD	General Construction Supplies	Industrial Products
A	16m N	Tank	Oxfordshire, OX16	Tanks (Generic)	Industrial Features
B	16m SW	Magnet Trade	Tramway Road, Banbury, Oxfordshire, OX16 5TD	General Construction Supplies	Industrial Products
A	18m N	Tank	Oxfordshire, OX16	Tanks (Generic)	Industrial Features
A	22m N	Tank	Oxfordshire, OX16	Tanks (Generic)	Industrial Features
A	22m N	Tank	Oxfordshire, OX16	Tanks (Generic)	Industrial Features
A	24m N	Tank	Oxfordshire, OX16	Tanks (Generic)	Industrial Features
A	25m NE	Banbury Rail Station	Oxfordshire, OX16	Railway Stations, Junctions and Halts	Public Transport, Stations and Infrastructure
A	27m N	Tank	Oxfordshire, OX16	Tanks (Generic)	Industrial Features
A	31m N	Tank	Oxfordshire, OX16	Tanks (Generic)	Industrial Features
A	34m N	Tank	Oxfordshire, OX16	Tanks (Generic)	Industrial Features
B	41m SW	The Tramway Industrial Estate	Oxfordshire, OX16	Business Parks and Industrial Estates	Industrial Features
C	46m W	Listers	6, Haslemere Way, Banbury, Oxfordshire, OX16 5TY	Vehicle Repair, Testing and Servicing	Repair and Servicing
C	46m NW	Metweld	7, Haslemere Way, Banbury, Oxfordshire, OX16 5TY	Metalworkers Including Blacksmiths	Construction Services
A	63m W	Gusto	10, Haslemere Way, Banbury, Oxfordshire, OX16 5TY	Radar and Telecommunications Equipment	Industrial Products
A	75m NW	Depot	Oxfordshire, OX16	Container and Storage	Transport, Storage and Delivery
A	84m NW	Works	Oxfordshire, OX16	Unspecified Works Or Factories	Industrial Features
D	90m SE	K S P Group	3, Riverside, Banbury, Oxfordshire, OX16 5TU	Published Goods	Industrial Products

ID	Location	Company	Address	Activity	Category
A	96m W	Wharf	Oxfordshire, OX16	Moorings and Unloading Facilities	Water
A	97m NW	Warehouse	Oxfordshire, OX16	Container and Storage	Transport, Storage and Delivery
E	103m SW	Depot	Oxfordshire, OX16	Container and Storage	Transport, Storage and Delivery
A	104m W	C C Auto Mechanics	Canal Street, Banbury, Oxfordshire, OX16 5AX	Vehicle Repair, Testing and Servicing	Repair and Servicing
A	105m W	Warehouse	Oxfordshire, OX16	Container and Storage	Transport, Storage and Delivery
A	107m W	Fort Locks Self Storage	Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Container and Storage	Transport, Storage and Delivery
A	111m W	Depot	Oxfordshire, OX16	Container and Storage	Transport, Storage and Delivery
A	112m NW	Specialist Cars	28, Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Secondhand Vehicles	Motoring
D	114m S	Pumping Station	Oxfordshire, OX16	Water Pumping Stations	Industrial Features
A	115m W	Warehouse	Oxfordshire, OX16	Container and Storage	Transport, Storage and Delivery
A	121m W	R D T Motors	Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Vehicle Repair, Testing and Servicing	Repair and Servicing
1	128m E	Chiltern Railways Customer Services	I C C, Merton Street, Banbury, Oxfordshire, OX16 4RN	Railway Companies and Information	Transport, Storage and Delivery
A	133m NW	Chiltern Invadex UK Ltd	6, Thorpe Drive, Banbury, Oxfordshire, OX16 4UZ	Disability and Mobility Equipment	Consumer Products
E	133m SW	Electricity Sub Station	Oxfordshire, OX16	Electrical Features	Infrastructure and Facilities
A	140m NW	Depot	Oxfordshire, OX16	Container and Storage	Transport, Storage and Delivery
A	143m W	Electricity Sub Station	Oxfordshire, OX16	Electrical Features	Infrastructure and Facilities
A	145m W	Industrial Estate	Oxfordshire, OX16	Business Parks and Industrial Estates	Industrial Features

ID	Location	Company	Address	Activity	Category
A	146m NW	Anson & Mills	Unit 1 Bridge Wharf, Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Vehicle Repair, Testing and Servicing	Repair and Servicing
A	146m NW	Banbury Body Shop Service Ltd	Unit 1 Bridge Wharf, Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Vehicle Repair, Testing and Servicing	Repair and Servicing
A	146m NW	Anson Mills	Unit 1 Bridge Wharf, Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Paints, Varnishes and Lacquers	Industrial Products
E	150m SW	Swan Foundry	Swan Close Road, Banbury, Oxfordshire, OX16 5AL	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
A	150m W	Pete's Banbury Ltd	Unit 13 Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Vehicle Repair, Testing and Servicing	Repair and Servicing
F	164m SE	S M R Projects Ltd	Unit 9 Riverside Business Park, Riverside, Banbury, Oxfordshire, OX16 5TU	Construction Completion Services	Construction Services
E	164m SW	Chimney	Oxfordshire, OX16	Chimneys	Industrial Features
E	167m SW	William Powell Ltd	Carrs House 1, Tramway Road, Banbury, Oxfordshire, OX16 5TD	Arms and Ammunition	Industrial Products
F	169m SE	Cleenol Group Ltd	8, Riverside, Banbury, Oxfordshire, OX16 5TU	Colours, Chemicals and Water Softeners and Supplies	Industrial Products
A	170m W	Outright Engineering Ltd	8-9, Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
3	170m W	Depot	Oxfordshire, OX16	Container and Storage	Transport, Storage and Delivery
A	172m W	Banbury Express Tyres & M O T	7, Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Vehicle Parts and Accessories	Motoring
A	172m W	Auto Colour Match	11a, Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Vehicle Parts and Accessories	Motoring
A	175m W	Banbury Car Clinic Ltd	12-14, Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Vehicle Repair, Testing and Servicing	Repair and Servicing
A	175m NW	Anson & Mills	4, Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Vehicle Repair, Testing and Servicing	Repair and Servicing
A	180m NW	Norton Autohaus	4, Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Vehicle Repair, Testing and Servicing	Repair and Servicing

ID	Location	Company	Address	Activity	Category
A	183m NW	Enterprise Rent-A-Car	Unit 3 Bridge Wharf, Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Vehicle Hire and Rental	Hire Services
A	185m NW	Banbury Bodyshop Services	1-2, Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Vehicle Repair, Testing and Servicing	Repair and Servicing
4	185m NE	Electricity Sub Station	Oxfordshire, OX16	Electrical Features	Infrastructure and Facilities
A	185m NW	Bmarc	3, Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Vehicle Repair, Testing and Servicing	Repair and Servicing
A	186m NW	Banbury M O T & Auto Repair Centre	Unit 3 Lower Cherwell Street, Banbury, Oxfordshire, OX16 5AY	Vehicle Repair, Testing and Servicing	Repair and Servicing
G	190m E	Depot	Oxfordshire, OX16	Container and Storage	Transport, Storage and Delivery
H	197m E	Electricity Sub Station	Oxfordshire, OX16	Electrical Features	Infrastructure and Facilities
H	198m NE	Tanks	Oxfordshire, OX16	Tanks (Generic)	Industrial Features
I	199m SE	Mast (Telecommu nication)	Oxfordshire, OX16	Telecommunications Features	Infrastructure and Facilities
E	201m SW	Works	Oxfordshire, OX16	Unspecified Works Or Factories	Industrial Features
J	202m S	Electricity Sub Station	Oxfordshire, OX16	Electrical Features	Infrastructure and Facilities
A	208m NW	Kwik-Fit (GB) Limited	Bridge Street, Banbury, Oxfordshire, OX16 2BB	Vehicle Repair, Testing and Servicing	Repair and Servicing
E	208m SW	Works	Oxfordshire, OX16	Unspecified Works Or Factories	Industrial Features
A	218m W	Dreams Plc	George Street, Banbury, Oxfordshire, OX16 5BH	Beds and Bedding	Consumer Products
K	224m SW	Shell Car Wash	Antelope Garage, Swan Close Road, Banbury, Oxfordshire, OX16 5AQ	Vehicle Cleaning Services	Personal, Consumer and Other Services
G	225m E	Electricity Sub Station	Oxfordshire, OX16	Electrical Features	Infrastructure and Facilities
K	228m SW	Shell Service Station	Windsor Street, Banbury, Oxfordshire, OX16 5AQ	Petrol and Fuel Stations	Road and Rail

ID	Location	Company	Address	Activity	Category
I	231m SE	Electricity Sub Station	Oxfordshire, OX16	Electrical Features	Infrastructure and Facilities
G	232m E	Grundon Waste Management Ltd	Merton Street, Banbury, Oxfordshire, OX16 4RN	Waste Storage, Processing and Disposal	Infrastructure and Facilities
A	234m NW	Morrisons Petrol Station	Swan Close Road, Banbury, Oxfordshire, OX16 5AQ	Petrol and Fuel Stations	Road and Rail
G	235m E	Pumping Station	Oxfordshire, OX16	Water Pumping Stations	Industrial Features
G	235m E	Sewage Pumping	Oxfordshire, OX16	Waste Storage, Processing and Disposal	Infrastructure and Facilities
A	241m NW	Robert Keith Used Car Sales Ltd	Cherwell St, Banbury, Oxfordshire, OX16 2BB	Secondhand Vehicles	Motoring
G	242m E	Electricity Sub Station	Oxfordshire, OX16	Electrical Features	Infrastructure and Facilities
5	249m W	Protyre	Gatteridge Street, Banbury, Oxfordshire, OX16 5DJ	Vehicle Repair, Testing and Servicing	Repair and Servicing

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**3**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Company	Address	LPG	Status
A	225m NW	MORRISONS	Cherwell Street, Banbury, Oxfordshire, OX16 2BB	No	Open
K	240m SW	SHELL	Windsor Street, Swan Close Road, Banbury, Oxfordshire, OX16 5AQ	No	Open
6	287m N	OBSOLETE	38, Middleton Road, Banbury, Oxfordshire, OX16 4QJ	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	1

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Details	
A	**On site**	**Application reference number: No Details** **Application status: Approved** **Application date: No Details** **Address: Kuwait Petroleum (GB) Ltd, Tramway Road Industrial Estate, Tramway Road, Banbury, Oxfordshire, England, OX16 5TD**	**Details: No Details** **Enforcement: No Enforcement Notified** **Date of enforcement: No Enforcement Notified** **Comment: No Enforcement Notified**

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m	9

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Address	Details	
E	150m SW	Swan foundry (Banbury) Ltd, Swan Close Road, Banbury, Oxfordshire, OX16 5AL	Process: Non-ferrous Metal Foundry Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
A	153m NW	SGM Coachworks (Stephen Goddard) Unit 2, Lower Cherwell Street, Banbury, Oxfordshire, OX16 8AY	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
A	185m NW	Banbury Bodyshop Services Ltd, Units 1 and 2, Lower Cherwell Street, Banbury, Oxfordshire, OX16 8AY	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
E	196m SW	Morane Ltd, Unit 14b, Wildemere Rd, Banbury, Oxfordshire, OX16 3JU	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
J	209m S	Travis Perkins Trading Ltd, Tramway Industrial Estate, Banbury, Oxfordshire, OX16 9TE	Process: Timber Manufacture Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
K	219m SW	Antelope Garage, Swan Close Road, Banbury, Oxfordshire, OX16 5AX	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
G	231m E	Cemex UK Materials (Western), Merton Street, Banbury, Oxfordshire, OX16 8RA	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
A	235m NW	Wm Morrison Supermarkets, Cherwell Street, Banbury, Oxfordshire, OX16 9BB	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
8	315m NW	Toggs of Banbury, 19 Bridge Street, Banbury, Oxfordshire, OX16 5PN	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m	10

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Address	Details	
A	2m W	PETROLEUM DEPOT, STATION APPROACH, PETROLEUM DEPOT STATION APPROAC, H BANBURY OXFORDSHIRE	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CNTM.1127 Permit Version: 1 Receiving Water: RIVER CHERWELL	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 26/10/1993 Effective Date: 26/10/1993 Revocation Date: -
A	2m W	BUTLERS FUELS, STATION APPROACH, BANBURY	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: CAWM.0033 Permit Version: 1 Receiving Water: RIVER CHERWELL	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 26/08/1999 Effective Date: 12/08/1999 Revocation Date: -
B	71m SW	LOWER CHERWELL ST WPS, BANBURY, PUMPING STATION, LOWER CHERWELL STREET, BANBURY, OXFORDSHIRE, OX16 8AY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CATM.3189 Permit Version: 1 Receiving Water: RIVER CHERWELL	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 26/03/1998 Effective Date: 26/03/1998 Revocation Date: -
B	71m SW	LOWER CHERWELL ST WPS, BANBURY, PUMPING STATION, LOWER CHERWELL STREET, BANBURY, OXFORDSHIRE, OX16 8AY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CATM.3189 Permit Version: 1 Receiving Water: RIVER CHERWELL	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 26/03/1998 Effective Date: 26/03/1998 Revocation Date: -

ID	Location	Address	Details	
2	163m SE	TRAMWAY BUSINESS PARK, TRAMWAY ROAD, TRAMWAY BUSINESS PARK TRAMWAY R, OAD BANBURY OXFORDSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CNTW.0077 Permit Version: 1 Receiving Water: OXFORD CANAL	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 05/10/1989 Effective Date: 05/10/1989 Revocation Date: 01/10/1996
J	215m S	TRAMWAY BUSINESS PARK, TRAMWAY ROAD, TRAMWAY BUSINESS PARK TRAMWAY R, OAD BANBURY OXFORDSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.1299 Permit Version: 1 Receiving Water: RIVER CHERWELL	Status: REVOKED - UNSPECIFIED Issue date: 14/11/1986 Effective Date: 14/11/1986 Revocation Date: 30/06/1991
G	264m E	GRUNDON DEPOT, MERTON STREET, BANBU, GRUNDON DEPOT MERTON STREET BA, NBURY OXFORDSHIRE	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CNTM.1007 Permit Version: 1 Receiving Water: GRUNDONS DITCH	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 30/07/1993 Effective Date: 30/07/1993 Revocation Date: -
L	285m N	VICTORIA PLACE, OFF MIDDLETON ROAD, VICTORIA PLACE OFF MIDDLETON RO, AD BANBURY OXON	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.2388 Permit Version: 1 Receiving Water: UNNAMED TRIB. OF R. CHERWELL	Status: REVOKED - UNSPECIFIED Issue date: 06/05/1988 Effective Date: 06/05/1988 Revocation Date: 26/11/1993
N	305m S	INDUSTRIAL UNITS, MANJAKE DEVELOPMENTS, TRAMWAY INDUSTRIAL ESTATE, BANBURY, OXFORDSHIRE, OX16 5TF	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CAWM.0834 Permit Version: 1 Receiving Water: GROUNDWATER VIA A SOAKAWAY	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 12/11/2004 Effective Date: 01/06/2004 Revocation Date: 20/12/2012
N	305m S	INDUSTRIAL UNITS, MANJAKE DEVELOPMENTS, TRAMWAY INDUSTRIAL ESTATE, BANBURY, OXFORDSHIRE, OX16 5TF	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CAWM.0834 Permit Version: 2 Receiving Water: GROUNDWATER VIA A SOAKAWAY	Status: VARIED UNDER EPR 2010 Issue date: 21/12/2012 Effective Date: 21/12/2012 Revocation Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m	10

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 56**

ID	Location	Details	
B	27m SW	Incident Date: 22/01/2003 Incident Identification: 132756 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	47m N	Incident Date: 19/12/2001 Incident Identification: 48916 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
B	64m SW	Incident Date: 05/06/2003 Incident Identification: 163588 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	68m SW	Incident Date: 18/10/2003 Incident Identification: 196959 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	216m S	Incident Date: 12/09/2005 Incident Identification: 345655 Pollutant: Contaminated Water Pollutant Description: Urban Run-Off	Water Impact: Category 1 (Major) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	275m N	Incident Date: 15/08/2003 Incident Identification: 182294 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
M	280m SE	Incident Date: 16/07/2003 Incident Identification: 174293 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
M	295m SE	Incident Date: 14/04/2003 Incident Identification: 151080 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
7	299m S	Incident Date: 16/11/2001 Incident Identification: 43235 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
9	337m S	Incident Date: 19/04/2002 Incident Identification: 73170 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m	0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m	0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

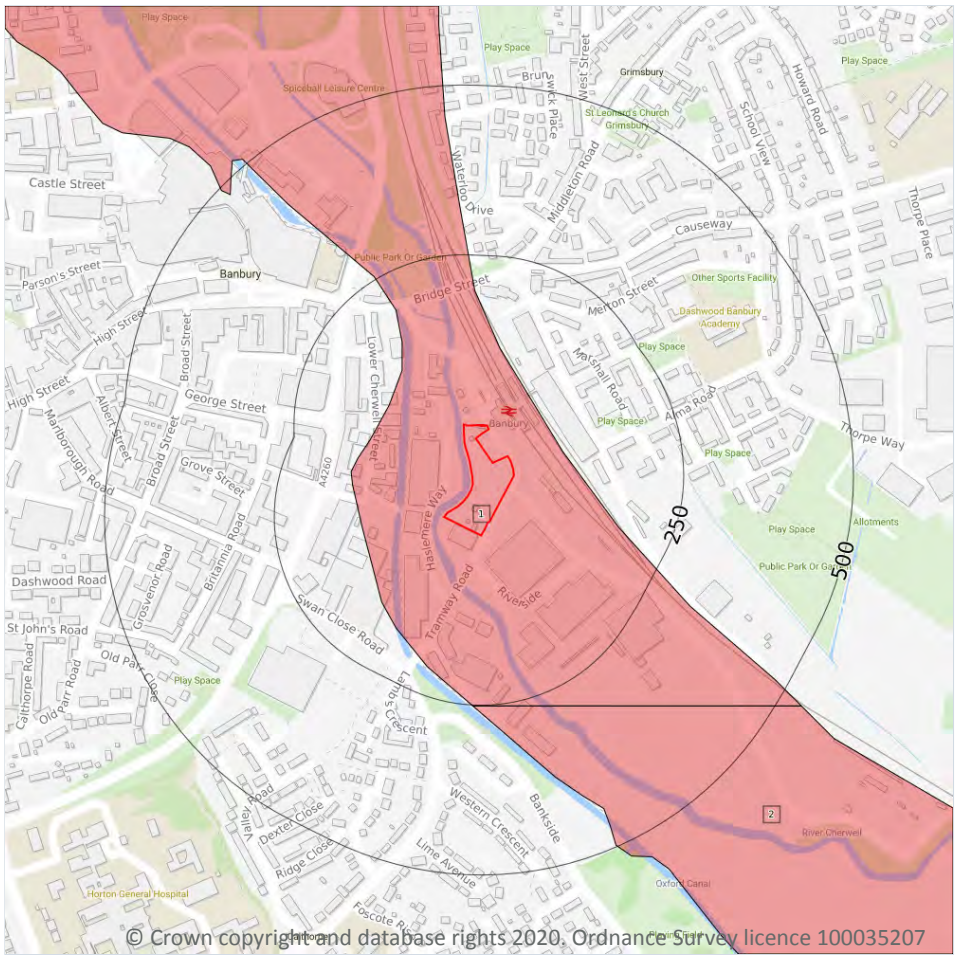
4.21 Pollution inventory radioactive waste

Records within 500m	0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m	2

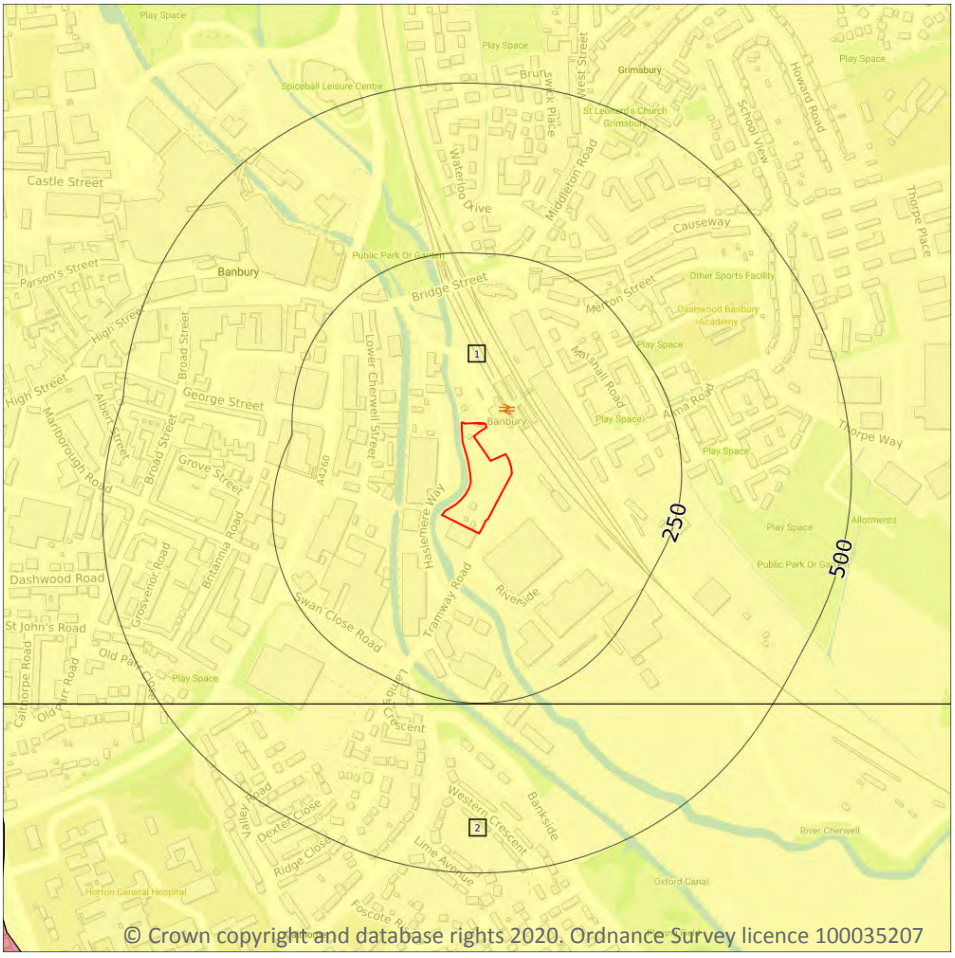
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 70**

ID	Location	Designation	Description
1	**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**
2	251m S	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

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m **2**

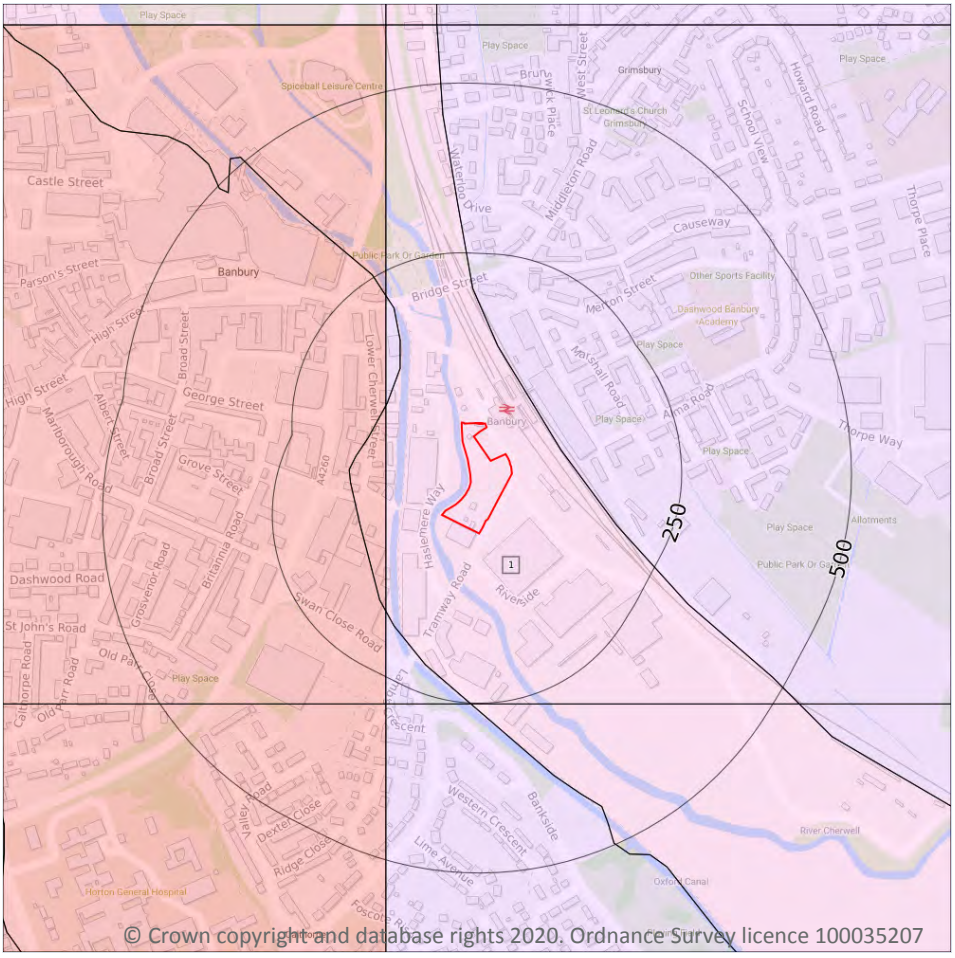
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 72**

ID	Location	Designation	Description
1	**On site**	**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**
2	251m S	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

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m	1

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 74**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	**Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Low Infiltration value: 40-70% Dilution value: 300-550mm/year**	**Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Poorly connected fractures**

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site	0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones

Site Outline

Search buffers in metres (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
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- Drinking water abstraction licences — Polygon features
- Drinking water abstraction licences — Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	0

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m	4

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 76**

ID	Location	Details	
-	1302m N	Status: Historical Licence No: 28/39/14/0240 Details: Potable Water Supply - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: GRIMSBURY MILL POINT 'A' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 445900 Northing: 241700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/11/1967 Expiry Date: - Issue No: 100 Version Start Date: 13/11/1967 Version End Date: -
-	1302m N	Status: Active Licence No: 28/39/14/0240 Details: Potable Water Supply - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: GRIMSBURY MILL POINT 'A' - RIVER CHERWELL Data Type: Point Name: Thames Water Utilities Ltd Easting: 445900 Northing: 241700	Annual Volume (m^3): 3,636,800 Max Daily Volume (m^3): 35,459 Original Application No: - Original Start Date: 13/11/1967 Expiry Date: - Issue No: 100 Version Start Date: 13/11/1967 Version End Date: -
-	1885m N	Status: Historical Licence No: 28/39/14/0240 Details: Potable Water Supply - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: GRIMSBURY MILL POINT 'B' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 446100 Northing: 242300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/11/1967 Expiry Date: - Issue No: 100 Version Start Date: 13/11/1967 Version End Date: -
-	1885m N	Status: Active Licence No: 28/39/14/0240 Details: Potable Water Supply - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: GRIMSBURY MILL POINT 'B' - RIVER CHERWELL Data Type: Point Name: Thames Water Utilities Ltd Easting: 446100 Northing: 242300	Annual Volume (m^3): 3,636,800 Max Daily Volume (m^3): 35,459 Original Application No: - Original Start Date: 13/11/1967 Expiry Date: - Issue No: 100 Version Start Date: 13/11/1967 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	4

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 76**

ID	Location	Details	
-	1302m N	Status: Historical Licence No: 28/39/14/0240 Details: Potable Water Supply - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: GRIMSBURY MILL POINT 'A' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 445900 Northing: 241700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/11/1967 Expiry Date: - Issue No: 100 Version Start Date: 13/11/1967 Version End Date: -
-	1302m N	Status: Active Licence No: 28/39/14/0240 Details: Potable Water Supply - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: GRIMSBURY MILL POINT 'A' - RIVER CHERWELL Data Type: Point Name: Thames Water Utilities Ltd Easting: 445900 Northing: 241700	Annual Volume (m^3): 3,636,800 Max Daily Volume (m^3): 35,459 Original Application No: - Original Start Date: 13/11/1967 Expiry Date: - Issue No: 100 Version Start Date: 13/11/1967 Version End Date: -
-	1885m N	Status: Historical Licence No: 28/39/14/0240 Details: Potable Water Supply - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: GRIMSBURY MILL POINT 'B' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 446100 Northing: 242300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/11/1967 Expiry Date: - Issue No: 100 Version Start Date: 13/11/1967 Version End Date: -
-	1885m N	Status: Active Licence No: 28/39/14/0240 Details: Potable Water Supply - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: GRIMSBURY MILL POINT 'B' - RIVER CHERWELL Data Type: Point Name: Thames Water Utilities Ltd Easting: 446100 Northing: 242300	Annual Volume (m^3): 3,636,800 Max Daily Volume (m^3): 35,459 Original Application No: - Original Start Date: 13/11/1967 Expiry Date: - Issue No: 100 Version Start Date: 13/11/1967 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology

6.1 Water Network (OS MasterMap)

Records within 250m	8

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 80**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	7m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Cherwell

ID	Location	Type of water feature	Ground level	Permanence	Name
B	66m W	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Oxford Canal
B	76m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	78m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Cherwell
C	89m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Cherwell
D	154m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	154m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Cherwell
5	241m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	8

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 80**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 80**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	**On site**	**River WB catchment**	**Cherwell (Cropredy to Nell Bridge)**	**GB106039037310**	**Cherwell**	**Cherwell and Ray**

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	**1**

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 80**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	7m W	River	Cherwell (Cropredy to Nell Bridge)	GB106039037310	Moderate	Good	Moderate	2016

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	**1**

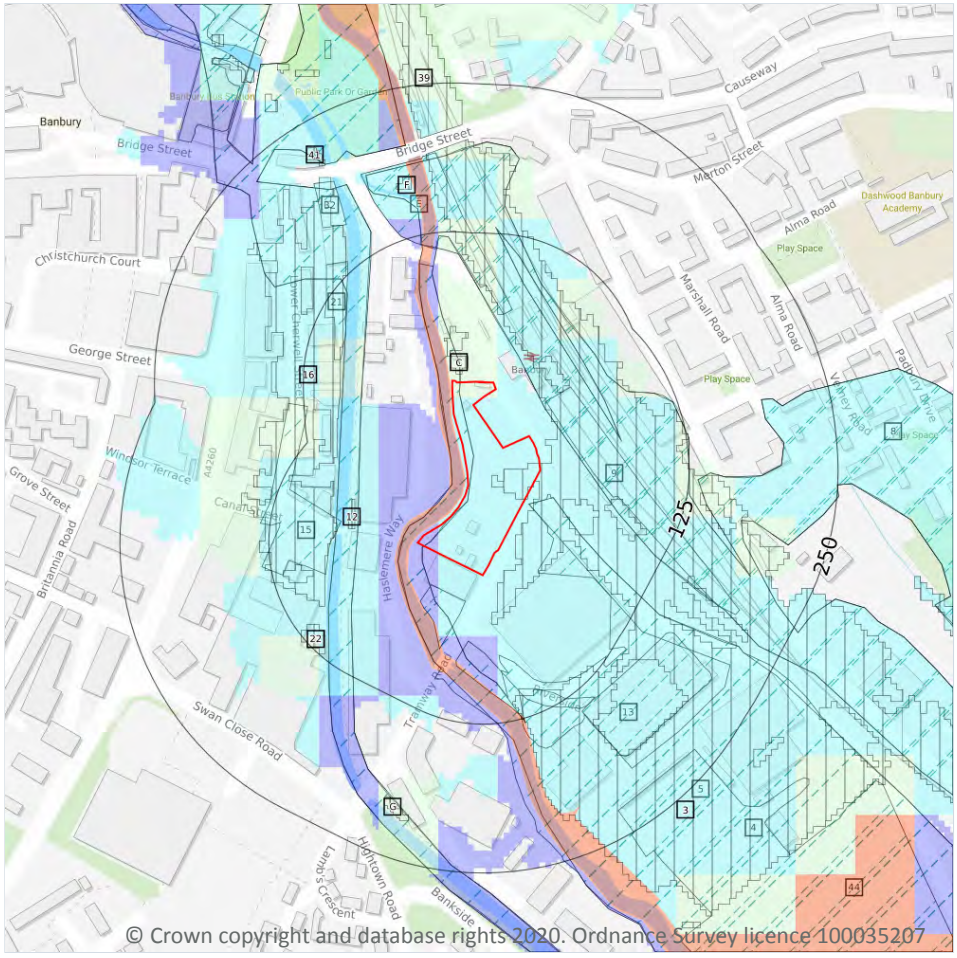
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 80**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	**On site**	**Banbury Jurassic**	**GB40602G600200**	**Poor**	**Poor**	**Good**	**2015**

This data is sourced from the Environment Agency and Natural Resources Wales.

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

Environment Agency river and coastal flooding:

- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m	**9**

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on **page 83**

Distance	RoFRaS flood risk
On site	**Medium**
0 - 50m	High

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m	11

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

Features are displayed on the River and coastal flooding map on **page 83**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
4	**On site**	**06aprileaster1998**	**1998-04-01 1998-04-30**	**Main river**	**Channel capacity exceeded (no raised defences)**	**Fluvial**
5	**On site**	**06marchspring1947**	**1947-01-01 1947-12-12**	**Main river**	**Channel capacity exceeded (no raised defences)**	**Fluvial**
8	24m NE	06aprileaster1998	1998-04-01 1998-04-30	Main river	Channel capacity exceeded (no raised defences)	Fluvial
B	26m SW	Banbury Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
9	28m NE	Banbury Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
13	57m S	Banbury Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
E	58m N	Banbury Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
15	67m W	Banbury Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
21	95m W	Banbury Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
32	158m NW	Banbury Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
44	225m SE	Banbury Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m	0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m	10

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 83**

ID	Location	
3	**On site**	**Area benefiting from flood defences**
C	6m N	Area benefiting from flood defences
C	21m N	Area benefiting from flood defences
12	54m W	Area benefiting from flood defences
16	68m W	Area benefiting from flood defences
22	107m SW	Area benefiting from flood defences
F	164m N	Area benefiting from flood defences
G	202m S	Area benefiting from flood defences
39	205m N	Area benefiting from flood defences
41	210m NW	Area benefiting from flood defences

This data is sourced from the Environment Agency and Natural Resources Wales.

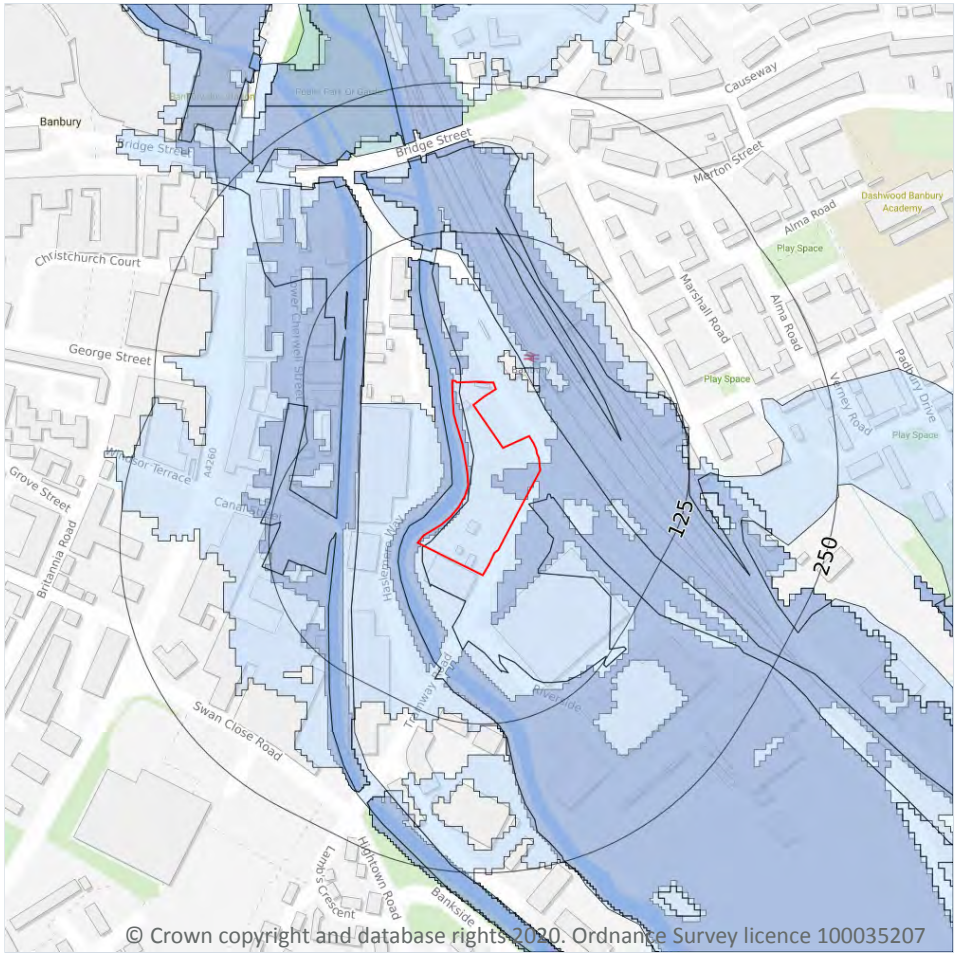
7.5 Flood Storage Areas

Records within 250m	0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.

River and coastal flooding - Flood Zones



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

Features are displayed on the River and coastal flooding map on **page 83**

Location	Type
On site	**Zone 2 - (Fluvial /Tidal Models)**

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m	1

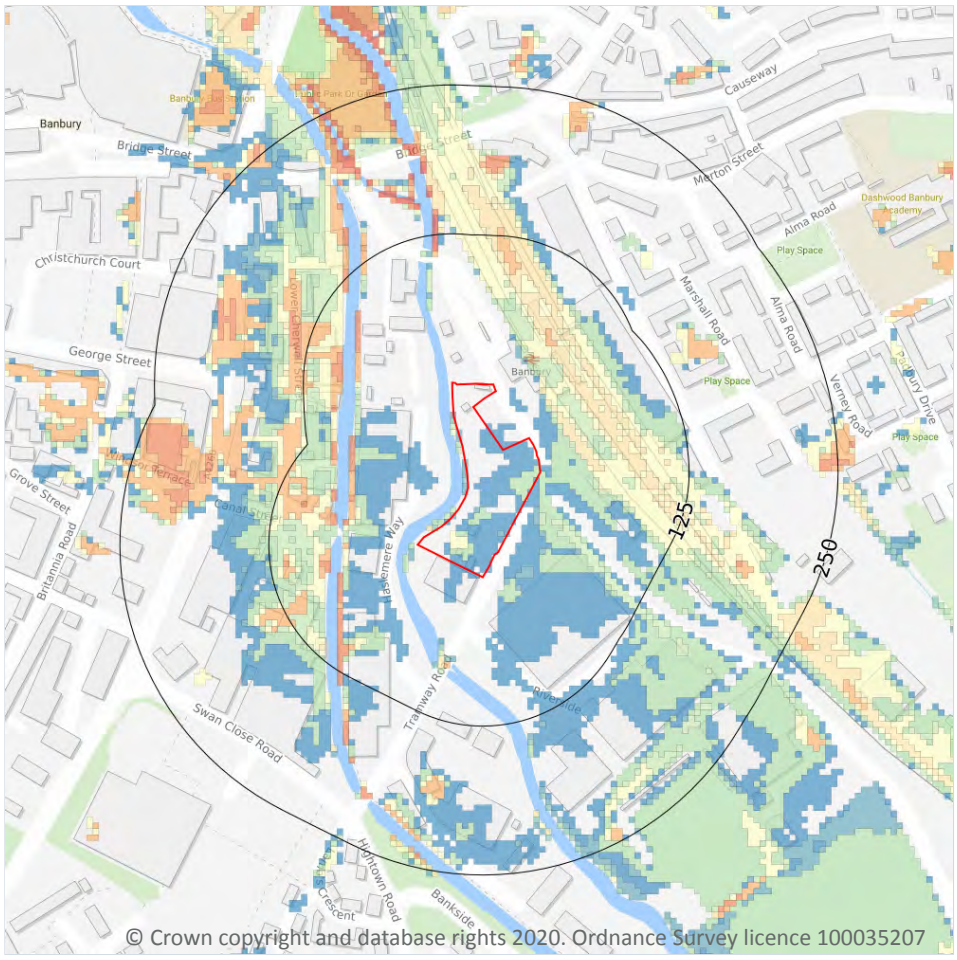
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 83**

Location	Type
On site	**Zone 3 - (Fluvial Models)**

This data is sourced from the Environment Agency and Natural Resources Wales.

8 Surface water flooding



Site Outline

Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site	**1 in 100 year, 0.1m - 0.3m**
Highest risk within 50m	**1 in 100 year, 0.3m - 1.0m**

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 88**

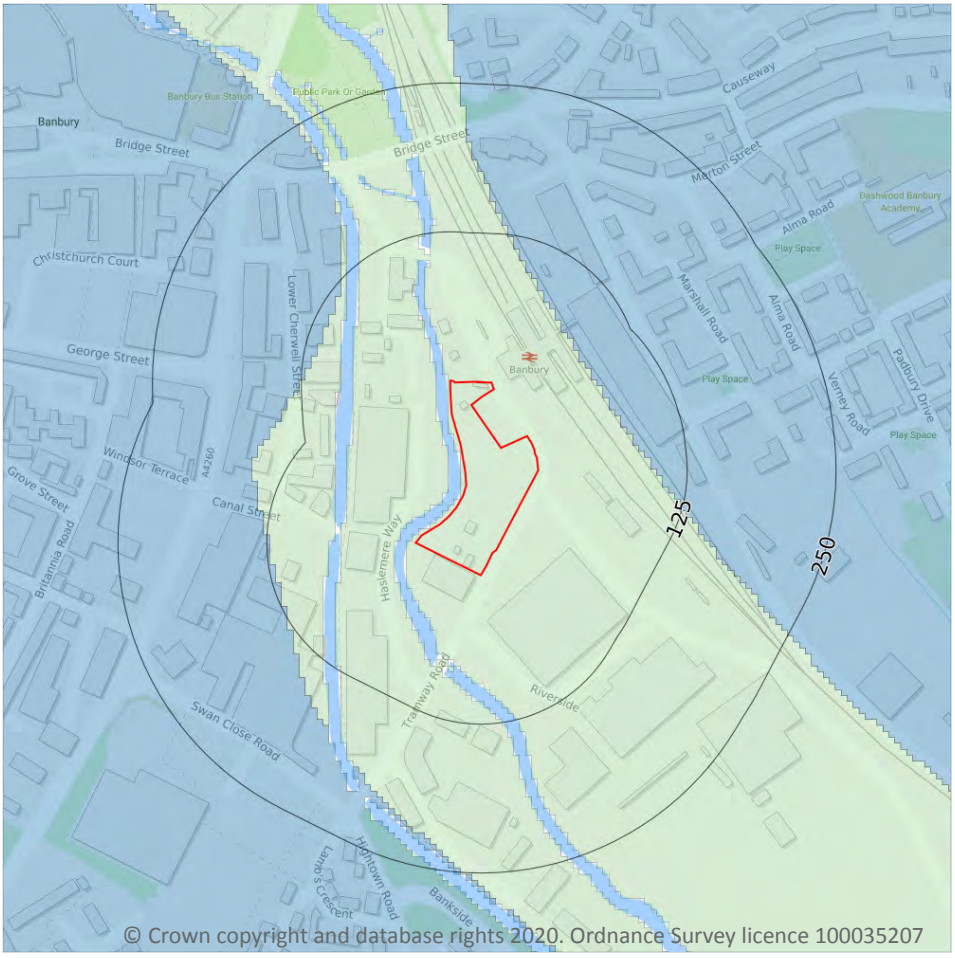
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

Highest risk on site	**Low**
Highest risk within 50m	**Low**

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 90**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m	0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m	0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m	0

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m	0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m	0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m	0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m	0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m	2

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	**Cherwell (Ray to Thames) and Woodeaton Brook NVZ**	**Surface Water**	**S472**	**Existing**
1991m W	Cherwell (Ray to Thames) and Woodeaton Brook NVZ	Surface Water	S472	Existing

This data is sourced from Natural England and Natural Resources Wales.

SSSI Impact Zones and Units

10.17 SSSI Impact Risk Zones

Records on site	0

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

This data is sourced from Natural England.

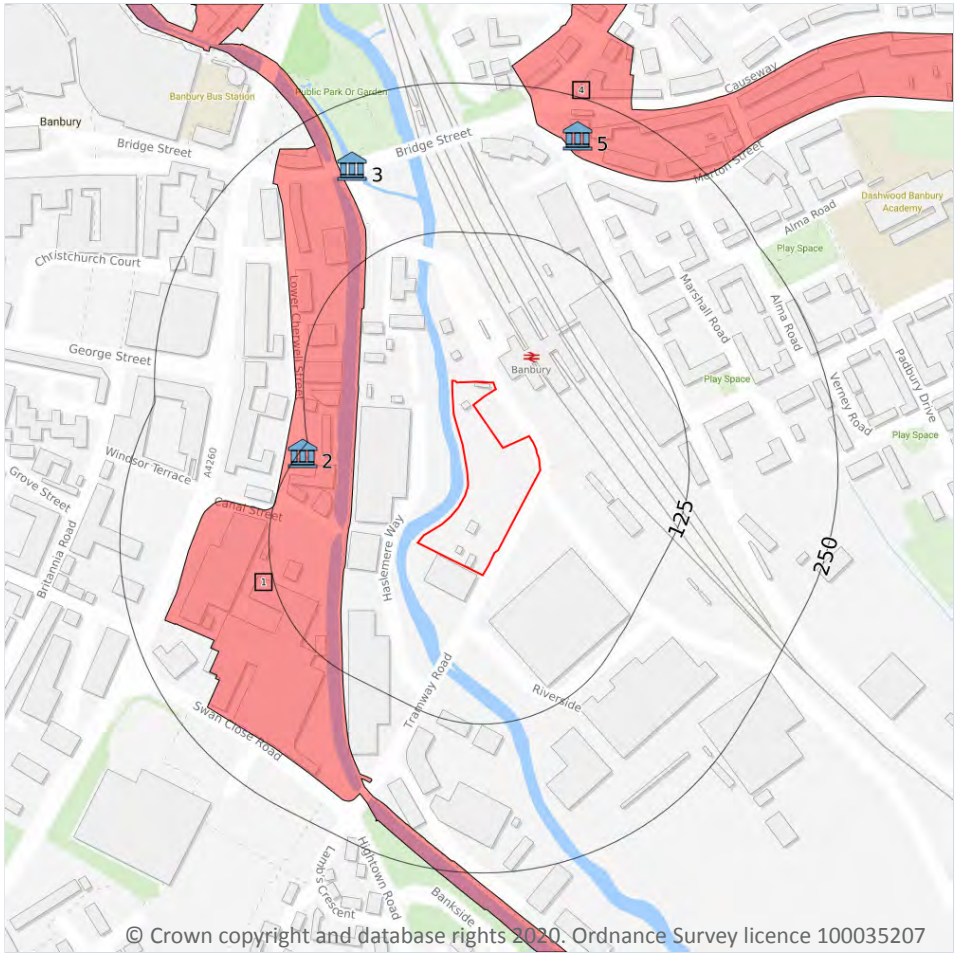
10.18 SSSI Units

Records within 2000m	0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.

11 Visual and cultural designations



Site Outline

Search buffers in metres (m)

- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m	0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m	3

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 96**

ID	Location	Name	Grade	Reference Number	Listed date
2	123m NW	Old Town Hall (Chapman Brothers), Banbury, Cherwell, Oxfordshire, OX16	II	1199858	14/02/1986
3	199m NW	Bridge Over Mill Stream, Banbury, Cherwell, Oxfordshire, OX16	II	1046184	08/07/1975
5	219m N	Elephant And Castle Hotel, Banbury, Cherwell, Oxfordshire, OX16	II	1369549	04/02/1986

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m	2

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

Features are displayed on the Visual and cultural designations map on **page 96**

ID	Location	Name	District	Date of designation
1	59m W	Oxford Canal	Cherwell	16/10/2012
4	202m N	Grimsbury	Cherwell	01/2007

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m	0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

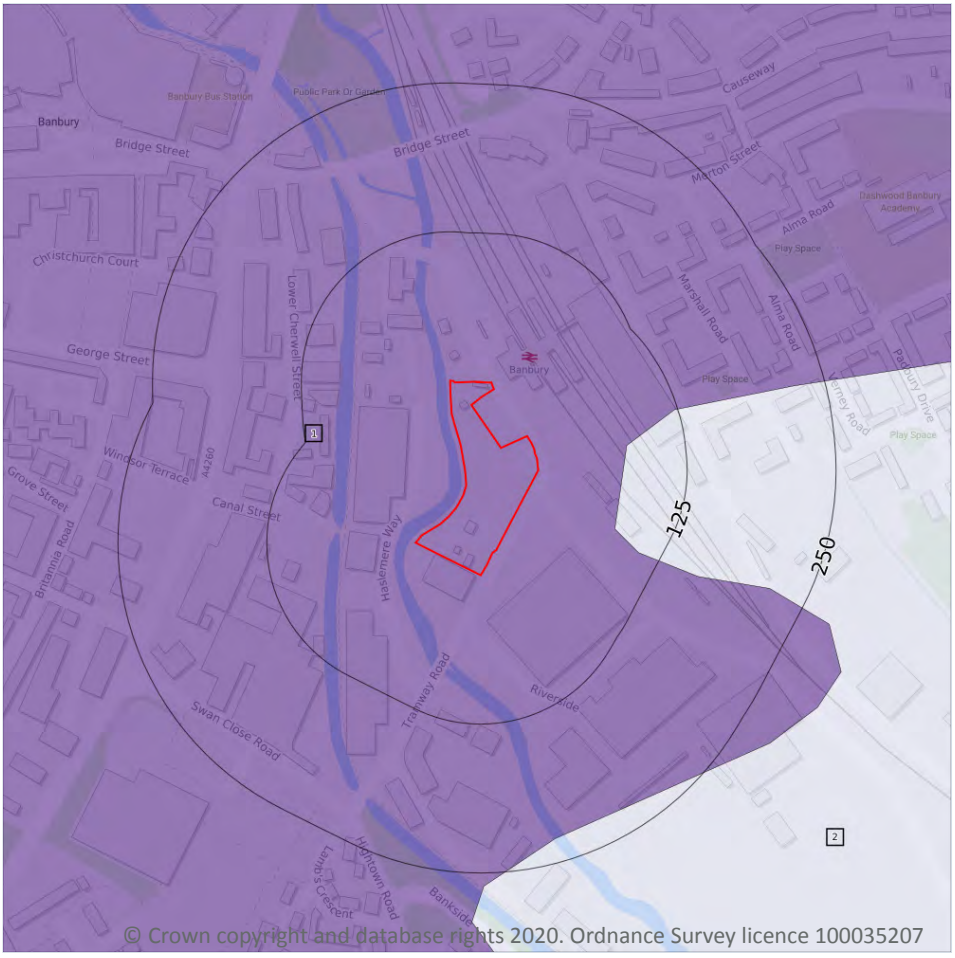
11.7 Registered Parks and Gardens

Records within 250m	0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	2

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 99**

ID	Location	Classification	Description
1	**On site**	**Urban**	-

ID	Location	Classification	Description
2	71m E	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m	0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.

13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m	0

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability

Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	2

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 102**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**No coverage**	**Full**	**Full**	**No coverage**	**SP44SE**
2	251m S	Full	Full	Full	No coverage	SP43NE

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground

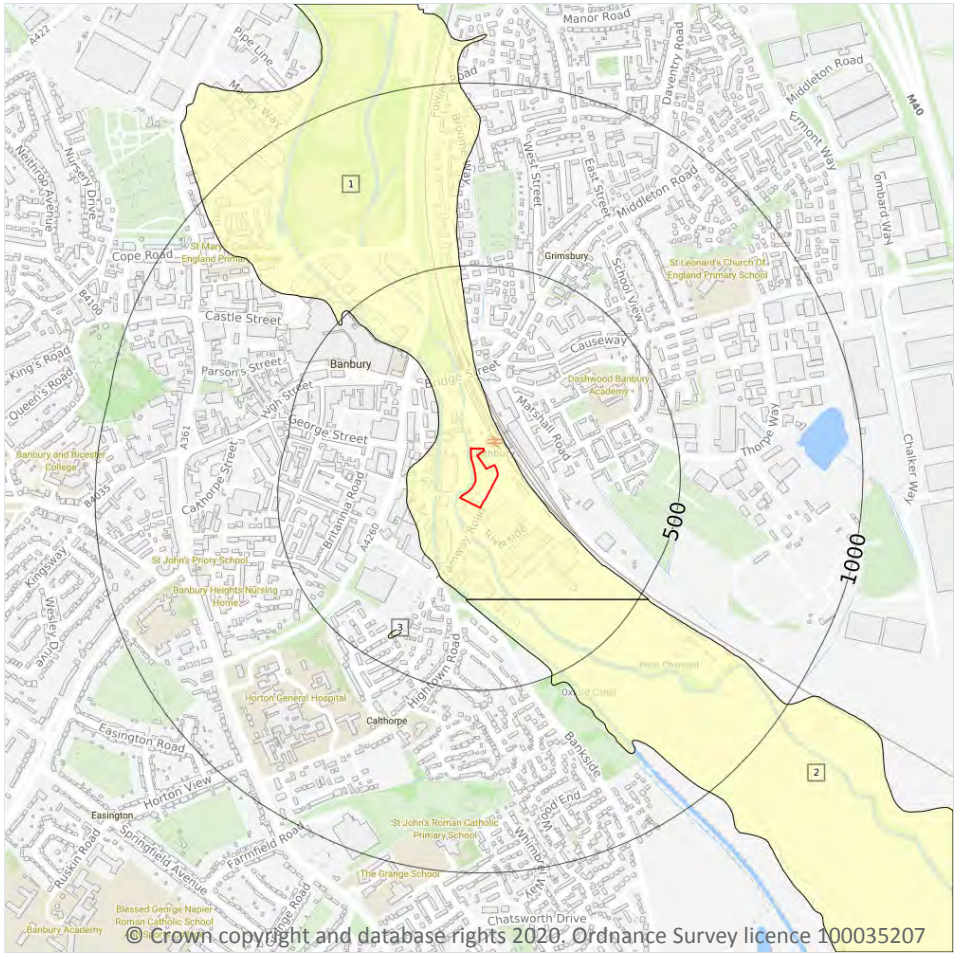
14.2 Artificial and made ground (10k)

Records within 500m	0

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m	3

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 104**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**ALV-XCZSV**	**Alluvium - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
2	251m S	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	401m SW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.

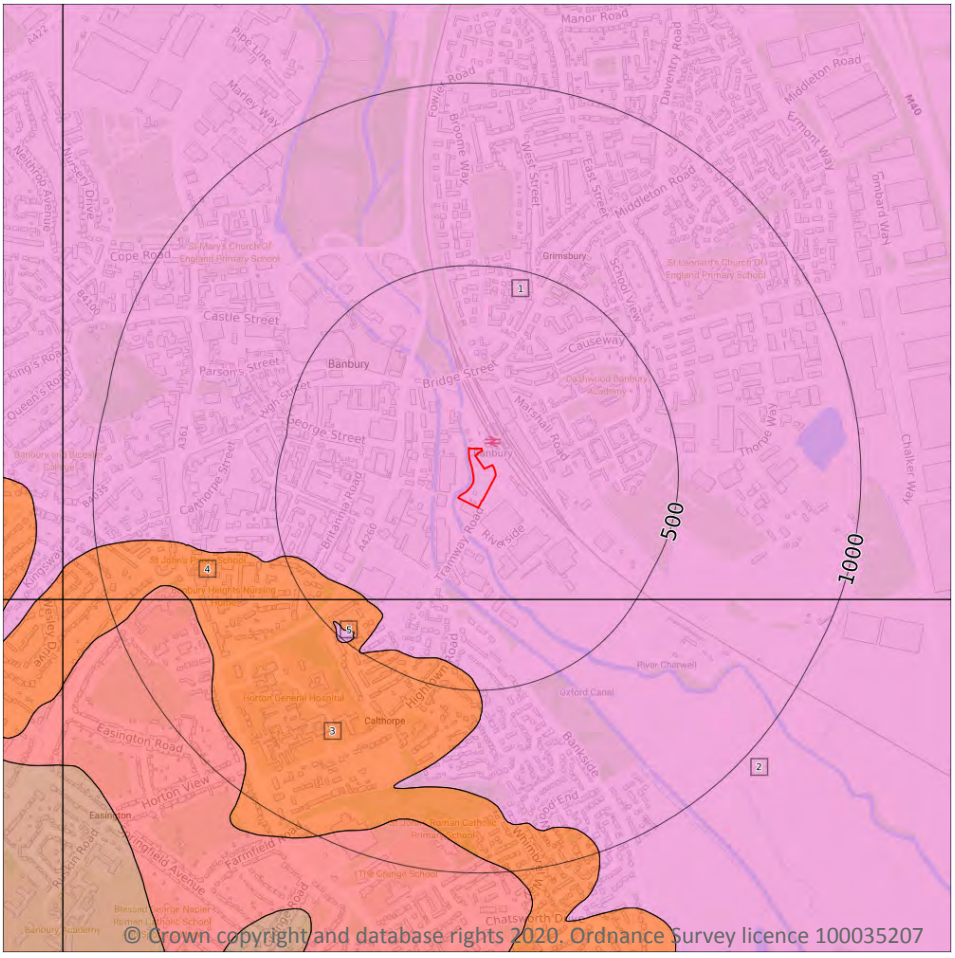
14.4 Landslip (10k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m **5**

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 106**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**CHAM-MDST**	**Charmouth Mudstone Formation - Mudstone**	**Pliensbachian Age - Sinemurian Age**
2	251m S	CHAM-MDST	Charmouth Mudstone Formation - Mudstone	Pliensbachian Age - Sinemurian Age
3	374m SW	DYS-SIMD	Dyrham Formation - Siltstone And Mudstone, Interbedded	Pliensbachian Age

ID	Location	LEX Code	Description	Rock age
4	375m SW	DYS-SIMD	Dyrham Formation - Siltstone And Mudstone, Interbedded	Pliensbachian Age
5	467m SW	CHAM-MDST	Charmouth Mudstone Formation - Mudstone	Pliensbachian Age - Sinemurian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	**0**

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability

Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 108**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW201_banbury_v4**

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground

15.2 Artificial and made ground (50k)

Records within 500m	0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

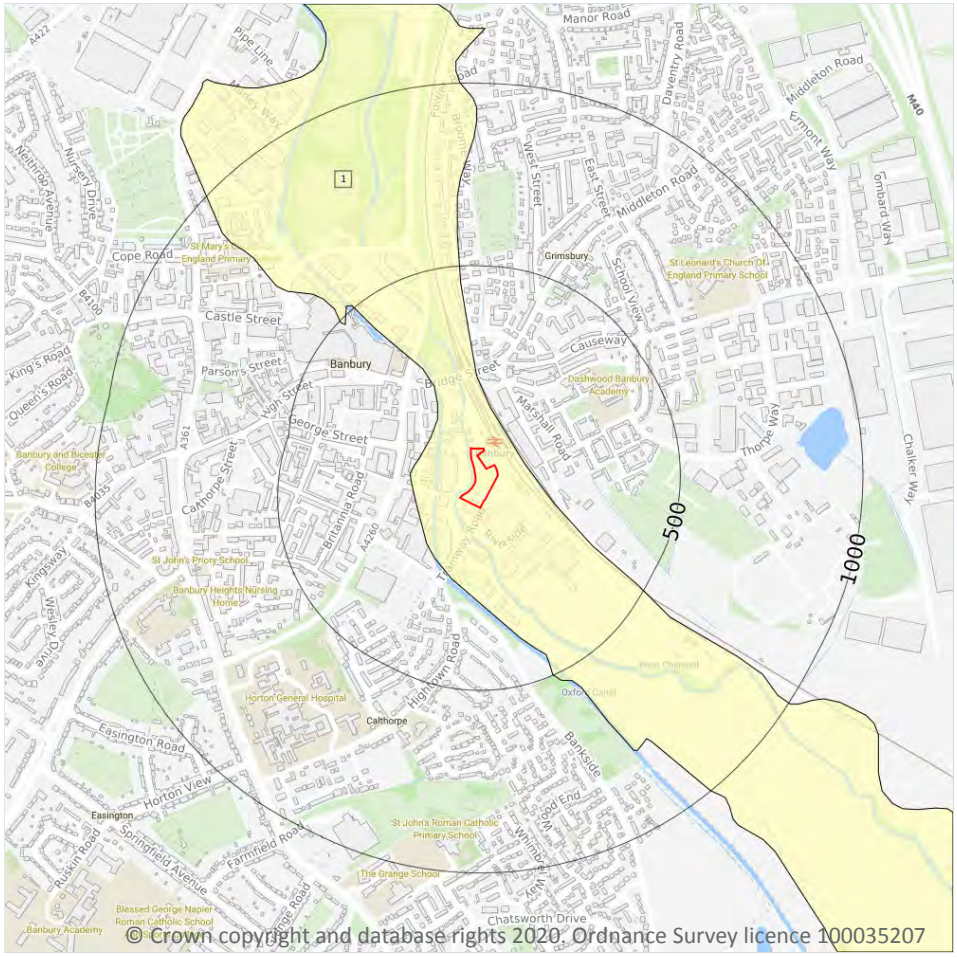
15.3 Artificial ground permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m	1

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 110**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**ALV-XCZSV**	**ALLUVIUM**	**CLAY, SILT, SAND AND GRAVEL**

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Intergranular**	**High**	**Very Low**

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

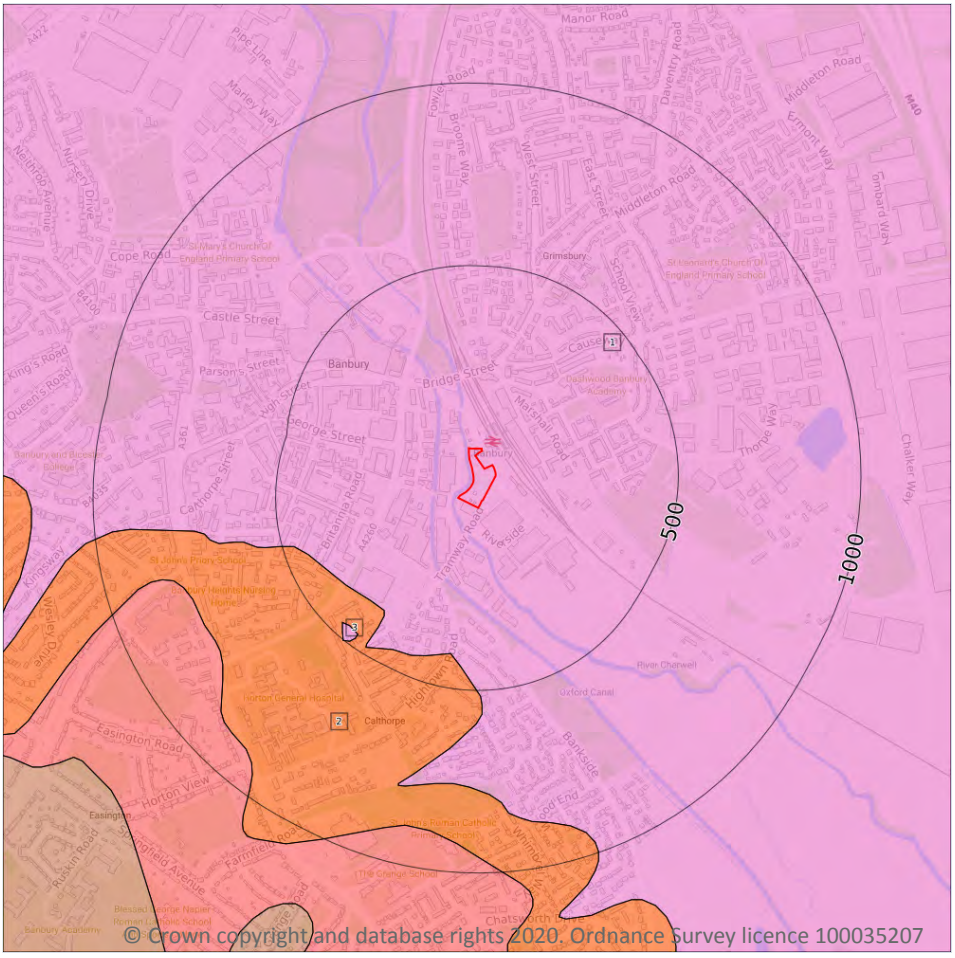
15.7 Landslip permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m	3

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 112**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**CHAM-MDST**	**CHARMOUTH MUDSTONE FORMATION - MUDSTONE**	**SINEMURIAN**
2	369m SW	DYS-SIMD	DYRHAM FORMATION - SILTSTONE AND MUDSTONE, INTERBEDDED	PLIENSBACHIAN

ID	Location	LEX Code	Description	Rock age
3	459m SW	CHAM-MDST	CHARMOUTH MUDSTONE FORMATION - MUDSTONE	SINEMURIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	**1**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Low**	**Low**

This data is sourced from the British Geological Survey.

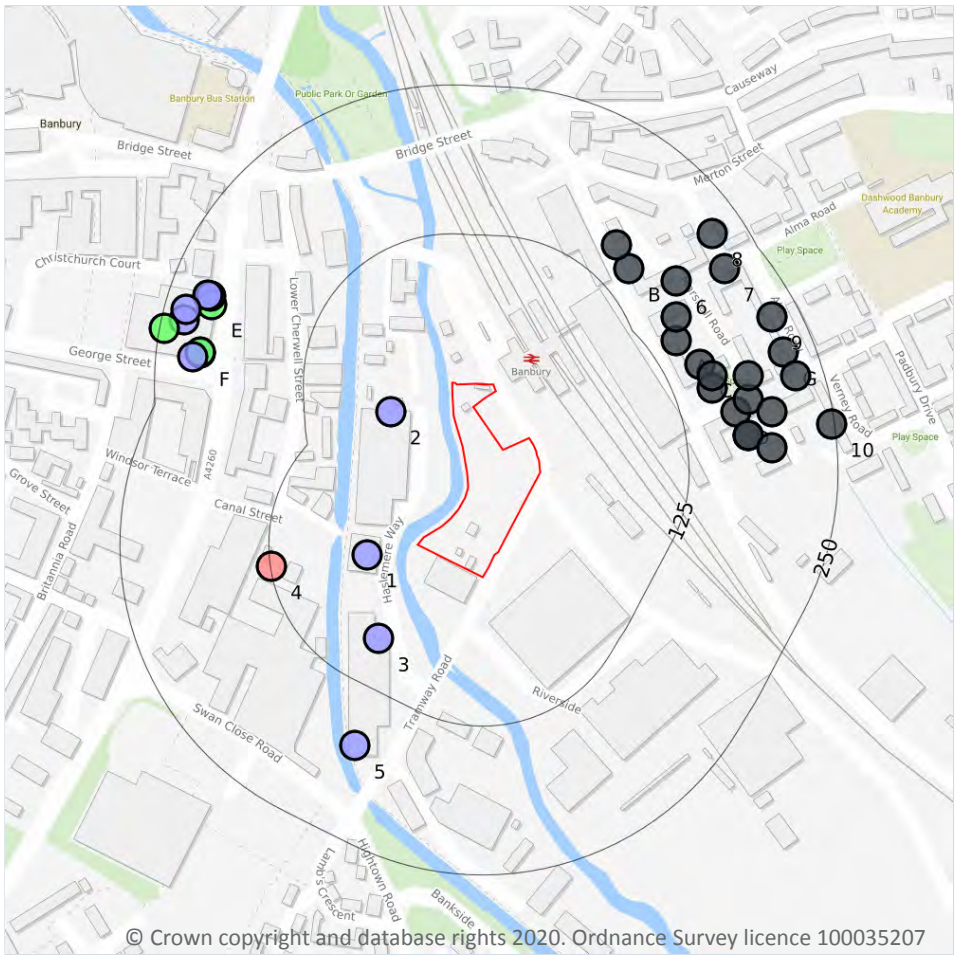
15.10 Bedrock faults and other linear features (50k)

Records within 500m	**0**

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m	35

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 114**

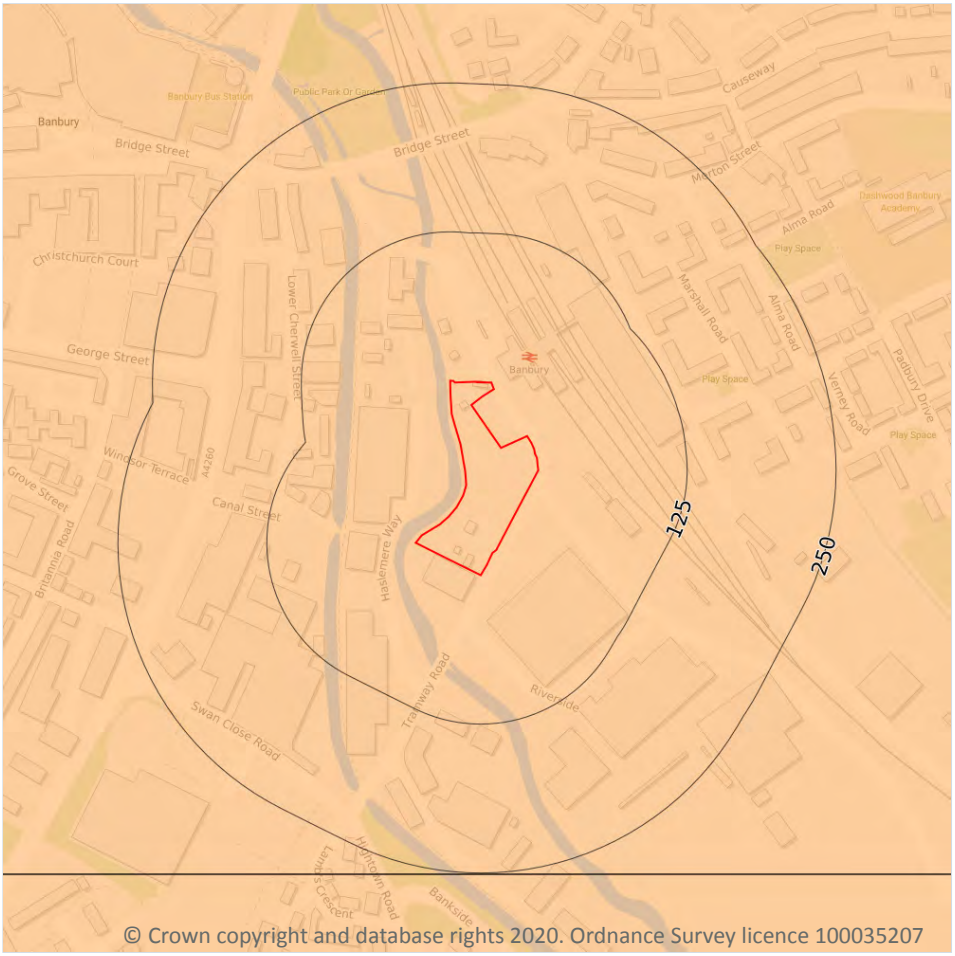
ID	Location	Grid reference	Name	Length	Confidential	Web link
1	44m W	446040 240270	TRAMWAY IDUSTRIAL ESTATE BANBURY BH3	9.3	N	13449065
2	53m W	446060 240390	TRAMWAY IDUSTRIAL ESTATE BANBURY BH4	9.0	N	13449066
3	85m SW	446050 240200	TRAMWAY IDUSTRIAL ESTATE BANBURY BH2	7.0	N	13449063

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	124m W	445960 240260	UNITED DAIRIES DEPOT BANBURY	36.88	N	331956
A	149m NE	446300 240450	MERTON STREET BANBURY TP3	-	Y	N/A
B	150m NE	446260 240510	MERTON STREET BANBURY 1	-	Y	N/A
C	156m NE	446320 240430	MERTON STREET BANBURY 3	-	Y	N/A
B	156m NE	446250 240530	MERTON STREET BANBURY TP1	-	Y	N/A
C	157m E	446330 240410	BANBURY CATTLE MARKET AREA B 3	-	Y	N/A
A	160m NE	446300 240470	MERTON STREET BANBURY 2	-	Y	N/A
C	161m NE	446330 240420	BANBURY CATTLE MARKET AREA B 3A	-	Y	N/A
D	170m E	446350 240390	MERTON STREET BANBURY 4	-	Y	N/A
5	174m SW	446030 240110	TRAMWAY IDUSTRIAL ESTATE BANBURY BH1	8.0	N	13449056
D	177m E	446360 240370	MERTON STREET BANBURY TP5	-	Y	N/A
D	177m E	446360 240370	BANBURY CATTLE MARKET AREA B 4	-	Y	N/A
6	177m NE	446300 240500	MERTON STREET BANBURY TP2	-	Y	N/A
D	183m E	446360 240400	BANBURY CATTLE MARKET AREA B TP9	-	Y	N/A
D	189m E	446360 240420	MERTON STREET BANBURY TP4	-	Y	N/A
D	195m E	446380 240360	BANBURY CATTLE MARKET AREA B TP10	-	Y	N/A
D	200m E	446380 240390	MERTON STREET BANBURY 5	-	Y	N/A
E	212m W	445910 240480	BANBURY BH7	15.24	N	332173
F	213m W	445900 240439	CHERWELL CENTRE BANBURY 5	10.0	N	20241188
F	213m W	445900 240440	BANBURY BH6	21.34	N	332172
E	215m W	445909 240487	CHERWELL CENTRE BANBURY 2	10.0	N	20241185
7	217m NE	446340 240510	THE CATTLE MARKET BANBURY 1	-	Y	N/A
E	218m W	445907 240488	CHERWELL CENTRE BANBURY TP5	2.4	N	20241245
F	219m W	445894 240436	CHERWELL CENTRE BANBURY TP8	2.5	N	20241248
8	223m NE	446330 240540	THE CATTLE MARKET BANBURY TP 2	-	Y	N/A
G	224m E	446390 240440	THE CATTLE MARKET BANBURY 2	-	Y	N/A
G	227m E	446400 240420	THE CATTLE MARKET BANBURY TP 4	-	Y	N/A
9	227m NE	446380 240470	THE CATTLE MARKET BANBURY TP 3	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
E	231m W	445887 240467	CHERWELL CENTRE BANBURY 4	10.0	N	20241187
E	232m W	445888 240476	CHERWELL CENTRE BANBURY 3	10.0	N	20241186
E	246m W	445870 240460	BANBURY BH5	15.24	N	332171
10	247m E	446430 240380	BANBURY CATTLE MARKET AREA B TP8	-	Y	N/A

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m	1

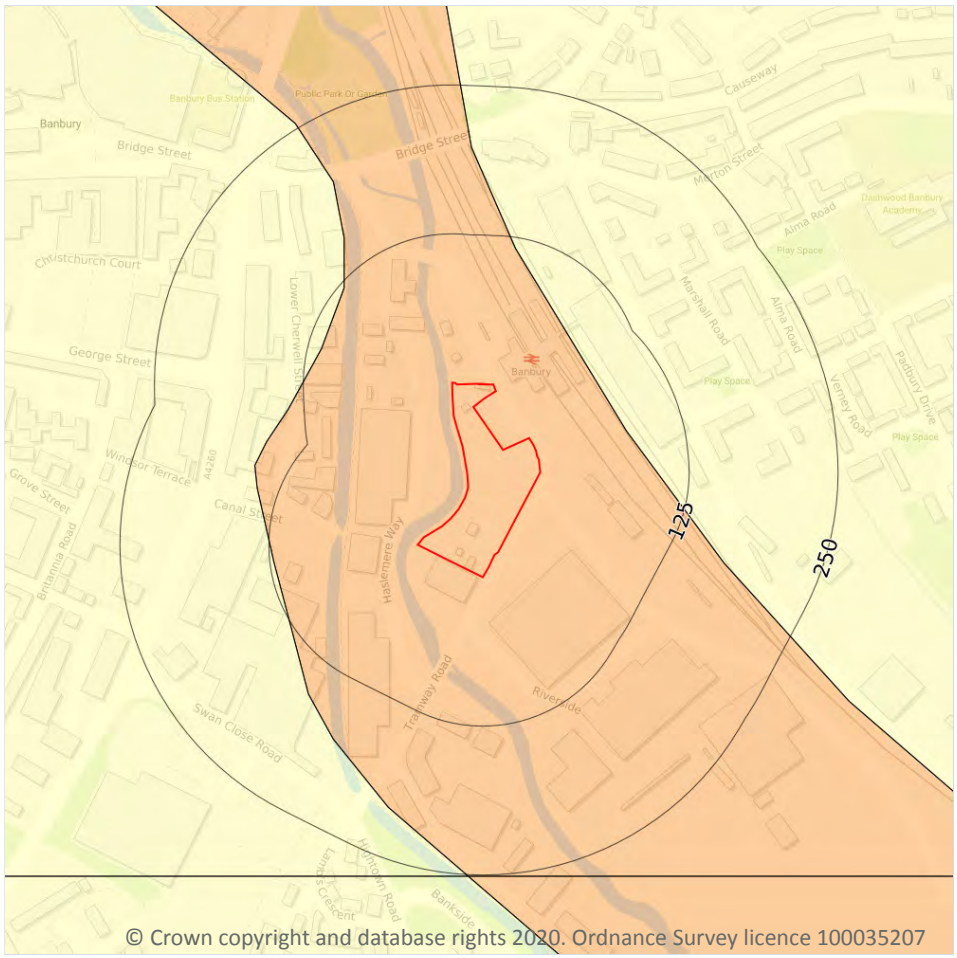
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 117**

Location	Hazard rating	Details
On site	**Low**	**Ground conditions predominantly medium plasticity.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m	1

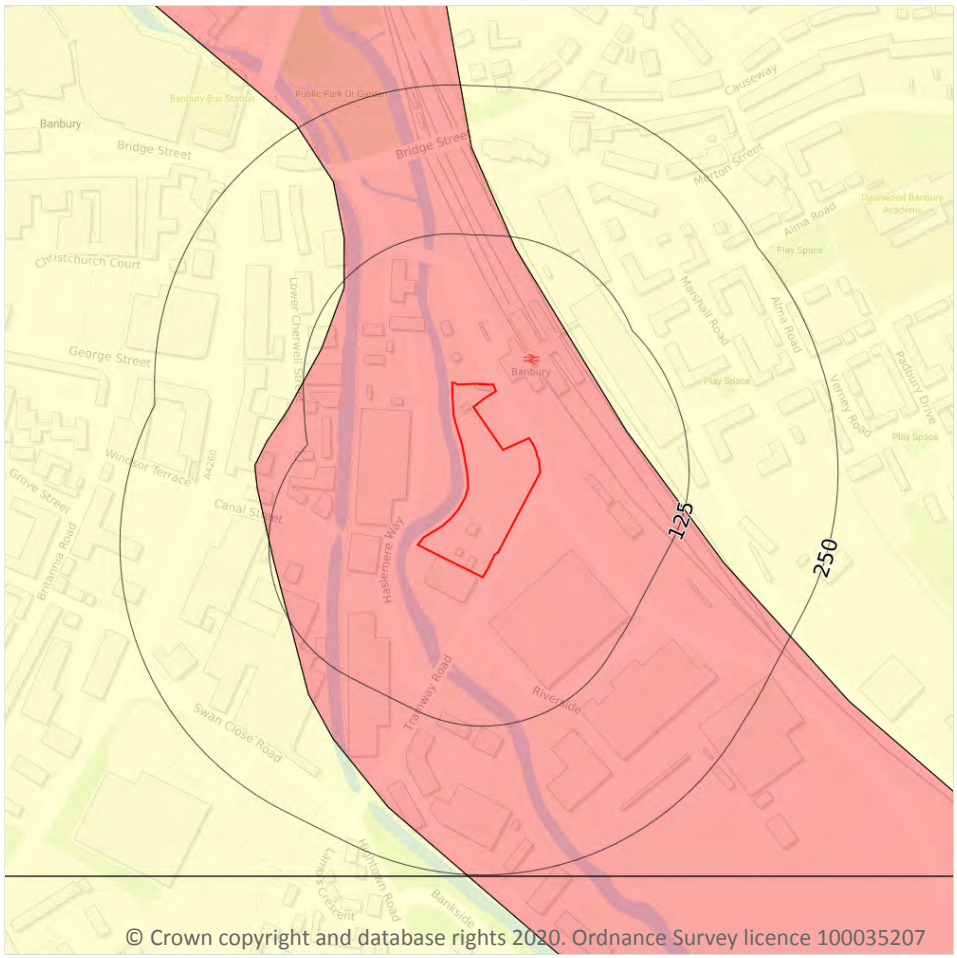
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 118**

Location	Hazard rating	Details
On site	**Low**	**Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m	1

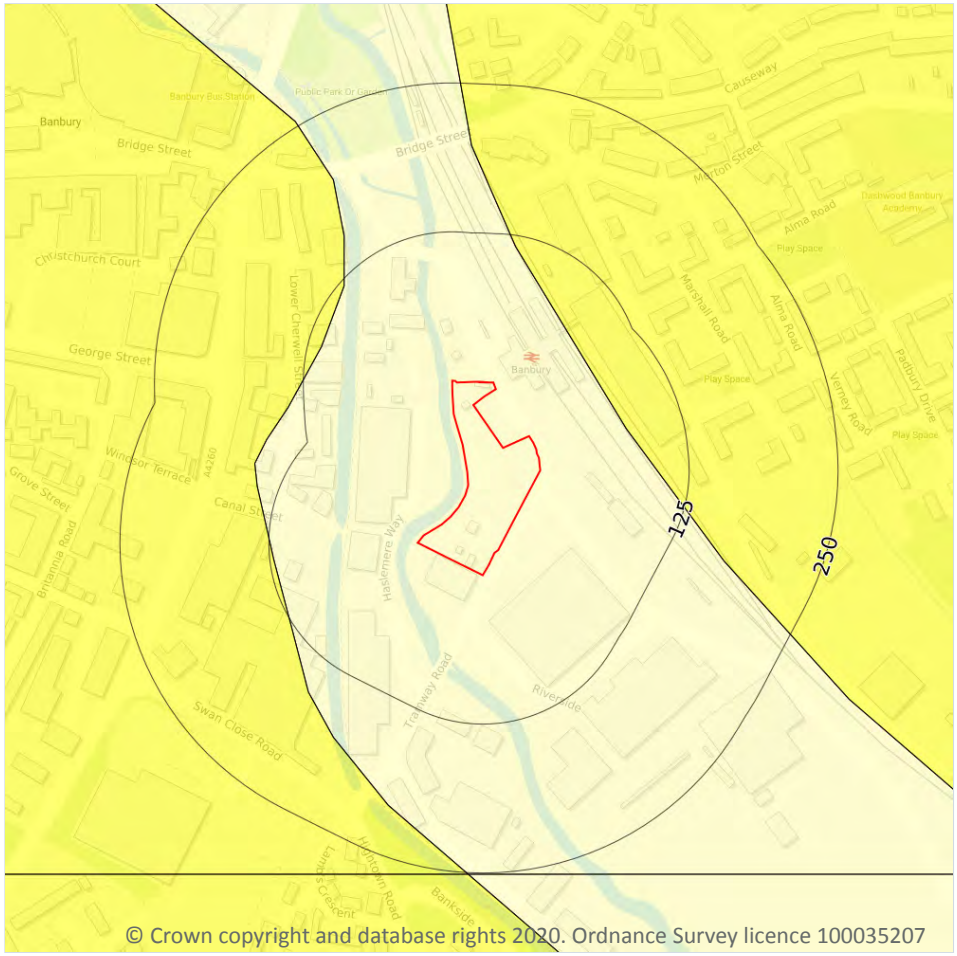
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 119**

Location	Hazard rating	Details
On site	**Moderate**	**Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m	1

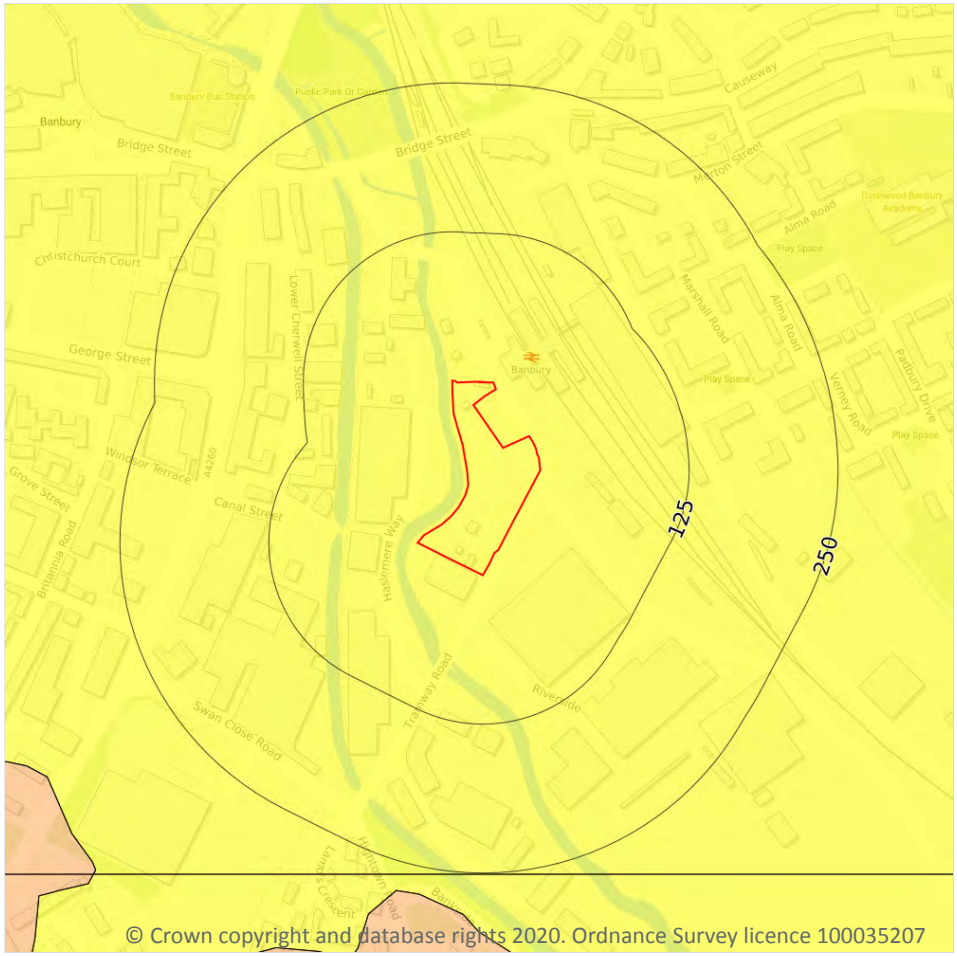
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 120**

Location	Hazard rating	Details
On site	**Negligible**	**Deposits with potential to collapse when loaded and saturated are believed not to be present.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	1

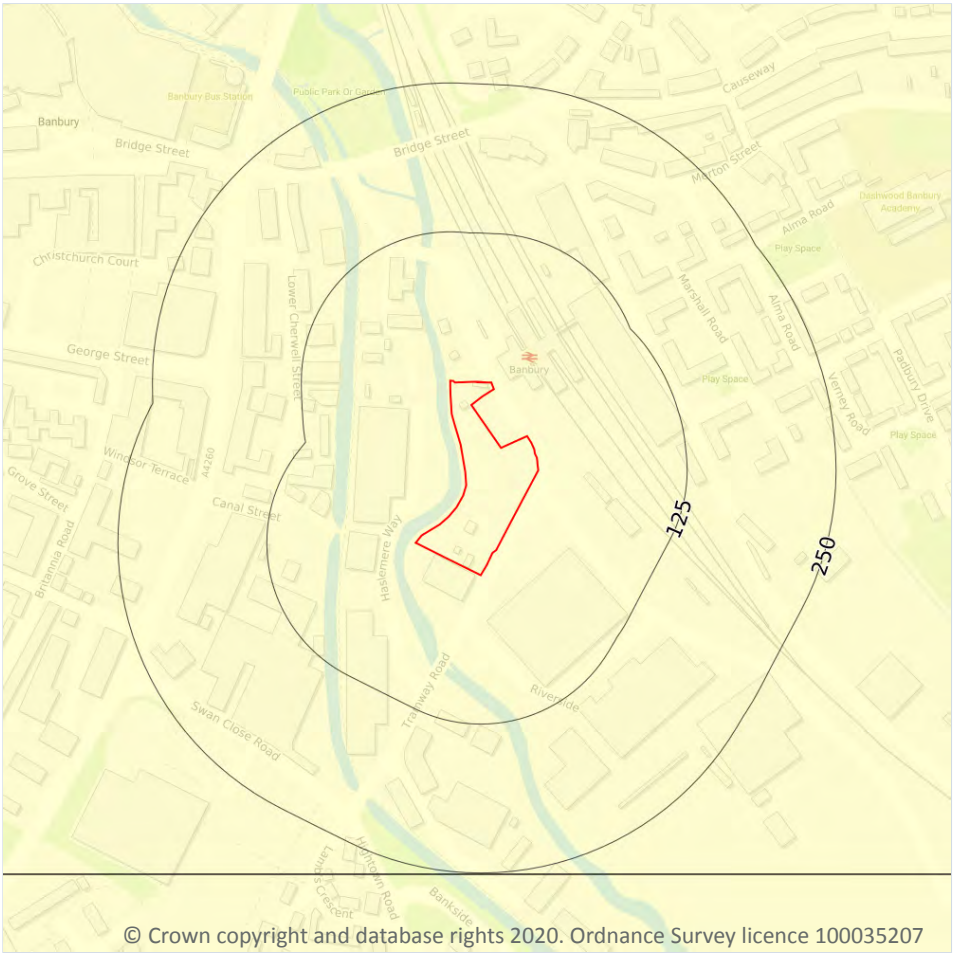
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 121**

Location	Hazard rating	Details
On site	**Very low**	**Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	1

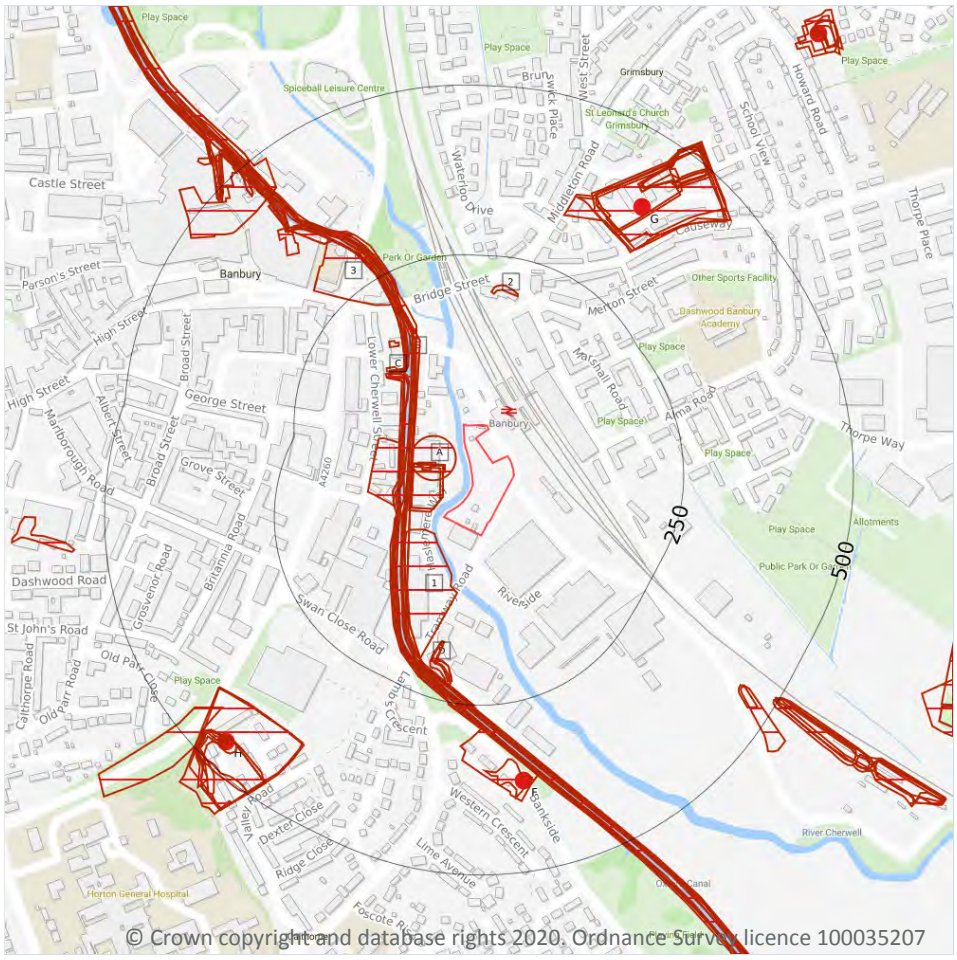
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 122**

Location	Hazard rating	Details
On site	**Negligible**	**Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.**

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



Site Outline

Search buffers in metres (m)

- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m	0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Peter Brett Associates (PBA).

18.2 BritPits

Records within 500m	3

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on **page 124**

ID	Location	Details	Description
F	366m S	Name: Foscot House Address: Calthorpe, BANBURY, Oxfordshire Commodity: Clay & Shale Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
G	395m NE	Name: Grimsbury Brick, Tile & Drain Pipe Works Address: Grimsbury, BANBURY, Oxfordshire Commodity: Limestone Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
H	460m SW	Name: The Hollies Brick Works Address: Calthorpe, BANBURY, Oxfordshire Commodity: Clay & Shale Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	23

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 124**

ID	Location	Land Use	Year of mapping	Mapping scale
A	17m W	Unspecified Wharf	1900	1:10560
A	20m NW	Sewage Works	1923	1:10560
A	20m NW	Sewage Works	1923	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
A	20m NW	Sewage Works	1923	1:10560
1	29m SW	Sewage Works	1900	1:10560
A	37m W	Unspecified Wharf	1967	1:10560
A	49m W	Unspecified Wharf	1938	1:10560
B	51m W	Canal	1976	1:10000
B	51m W	Canal	1994	1:10000
B	56m W	Canal	1967	1:10560
A	58m W	Canal	1923	1:10560
A	59m W	Canal	1900	1:10560
A	60m W	Canal	1938	1:10560
A	60m W	Canal	1923	1:10560
A	64m W	Canal	1881	1:10560
A	75m W	Sewage Works	1881	1:10560
C	126m NW	Unspecified Wharf	1881	1:10560
C	150m NW	Unspecified Wharf	1881	1:10560
D	166m S	Unspecified Ground Workings	1938	1:10560
D	171m S	Unspecified Ground Workings	1967	1:10560
D	171m S	Unspecified Ground Workings	1923	1:10560
2	194m N	Unspecified Ground Workings	1967	1:10560
3	207m NW	Unspecified Wharves	1881	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	0

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Peter Brett Associates (PBA).

18.8 JPB mining areas

Records on site	0

Areas which could be affected by former coal mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	0

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

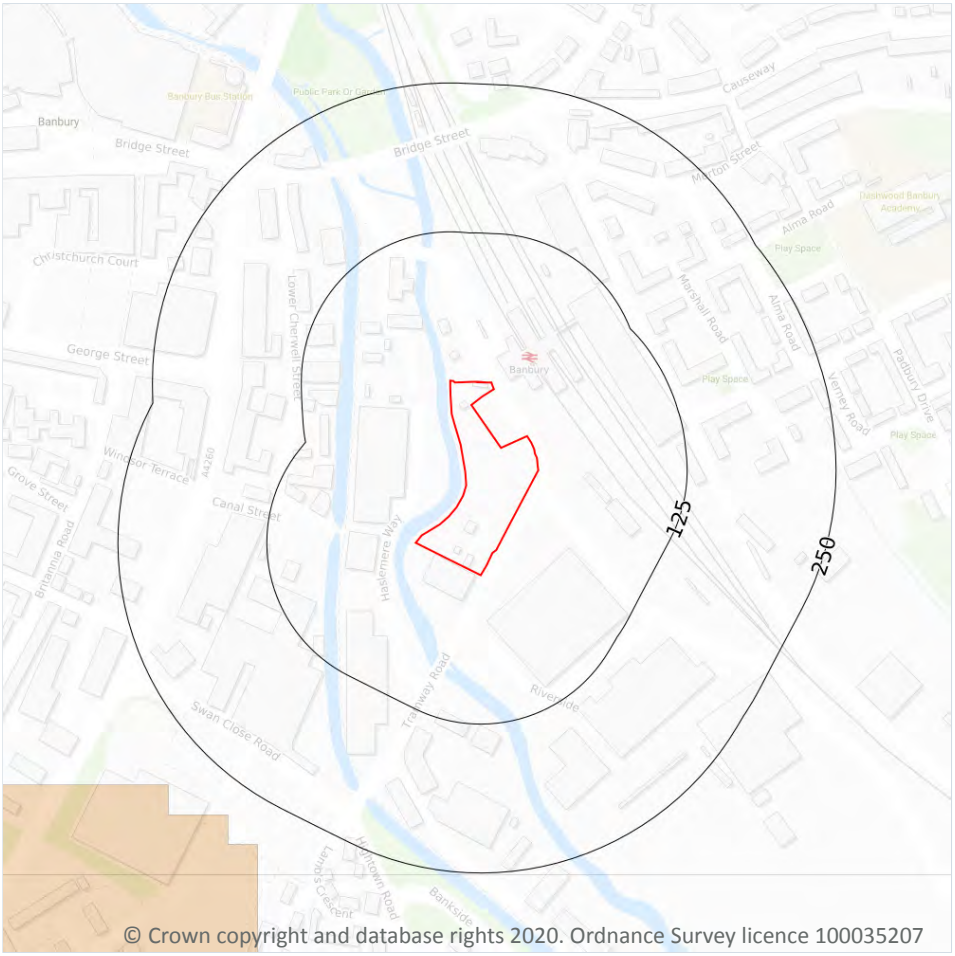
18.13 Clay mining

Records on site	0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site	1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 129**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Less than 1%**	**None****

This data is sourced from the British Geological Survey and Public Health England.

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m	1

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km^2. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km^2; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

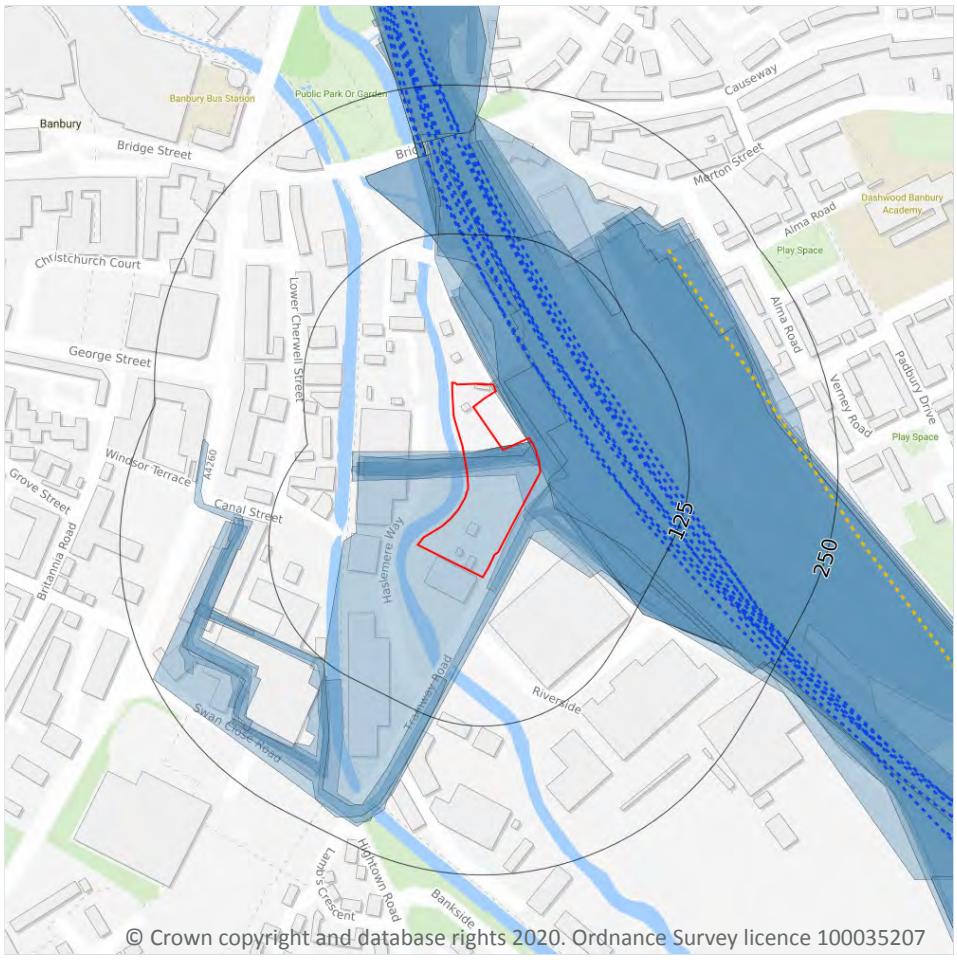
20.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km^2.

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects



Site Outline

Search buffers in metres (m)

- Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

21.1 Underground railways (London)

Records within 250m	0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m	0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	56

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 131**

Location	Land Use	Year of mapping	Mapping scale
On site	**Railway Sidings**	**1922**	**2500**
On site	**Railway Sidings**	**1900**	**2500**
On site	**Railway Sidings**	**1966**	**1250**
On site	**Railway Sidings**	**1965**	**2500**
On site	**Railway**	**1922**	**-**
On site	**Railway**	**1900**	**-**
On site	**Railway Sidings**	**1938**	**10560**
On site	**Railway Sidings**	**1923**	**10560**
On site	**Railway Sidings**	**1967**	**10560**
On site	**Railway Sidings**	**1976**	**10000**
On site	**Railway Sidings**	**1994**	**10000**
2m SE	Tramway Sidings	1900	2500
5m NE	Railway Sidings	1976	1250
5m SE	Tramway Sidings	1922	2500
5m NE	Railway Sidings	1982	1250
9m NE	Railway Sidings	1900	10560
9m SE	Railway Sidings	1883	10560

Location	Land Use	Year of mapping	Mapping scale
23m SE	Railway Sidings	1989	1250
24m SE	Railway Sidings	1993	1250
65m NE	Railway Sidings	1976	1250
65m NE	Railway Sidings	1966	1250
67m N	Railway Sidings	1976	1250
67m N	Railway Sidings	1966	1250
79m NE	Railway Sidings	1966	1250
80m N	Railway Sidings	1976	1250
80m N	Railway Sidings	1966	1250
81m NE	Railway Sidings	1976	1250
81m NE	Railway Sidings	1993	1250
91m SW	Railway Sidings	1881	10560
97m NE	Railway Sidings	1997	1250
97m NE	Railway Sidings	1999	1250
99m NE	Railway Sidings	1966	1250
116m NE	Railway Sidings	1966	1250
124m E	Railway Sidings	1966	1250
125m N	Railway Sidings	1987	1250
125m N	Railway Sidings	1983	1250
125m N	Railway Sidings	1990	1250
125m SW	Tramway Sidings	1900	2500
127m N	Railway Sidings	1977	1250
127m N	Railway Sidings	1966	1250
132m NE	Railway Sidings	1966	1250
134m SW	Tramway Sidings	1922	2500
140m W	Railway Sidings	1923	10560
144m NE	Railway Sidings	1966	1250
150m N	Railway Sidings	1997	1250

Location	Land Use	Year of mapping	Mapping scale
150m N	Railway Sidings	1999	1250
153m NE	Railway Sidings	1966	1250
154m N	Railway Sidings	1997	1250
154m N	Railway Sidings	1999	1250
180m NE	Railway Sidings	1987	1250
180m NE	Railway Sidings	1983	1250
181m NE	Railway Sidings	1977	1250
203m N	Railway Sidings	1976	10000
203m N	Railway Sidings	1994	10000
209m N	Railway Sidings	1967	10560
230m N	Railway Sidings	1966	1250

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m	0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m	1

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

Features are displayed on the Railway infrastructure and projects map on **page 131**

Location	Description
185m NE	Abandoned

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	**35**

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

Features are displayed on the Railway infrastructure and projects map on **page 131**

Location	Name	Type
37m NE	-	rail
38m NE	Not given	Single Track
40m NE	Not given	Single Track
40m NE	Not given	Single Track
52m NE	Chiltern Main Line	rail
55m NE	Not given	Multi Track
55m NE	Chiltern Main Line	rail
55m NE	Not given	Multi Track
61m N	Not given	Single Track
68m N	Not given	Single Track
68m NE	-	rail
71m NE	Not given	Single Track
73m NE	-	rail
75m N	-	rail
78m NE	Not given	Single Track
79m NE	Not given	Single Track
87m E	-	rail
89m N	Not given	Single Track
91m E	Not given	Single Track
109m E	Not given	Single Track
110m N	Not given	Single Track
136m N	Not given	Multi Track
149m N	Not given	Single Track
153m SE	Not given	Multi Track

Location	Name	Type
166m N	Not given	Multi Track
184m N	Not given	Single Track
201m SE	Not given	Single Track
204m SE	-	rail
205m N	Not given	Single Track
207m N	Not given	Single Track
209m N	Not given	Multi Track
213m N	Not given	Single Track
214m N	Not given	Single Track
222m SE	Not given	Single Track
224m SE	Not given	Single Track

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m	0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m	0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m	0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe)

is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference.

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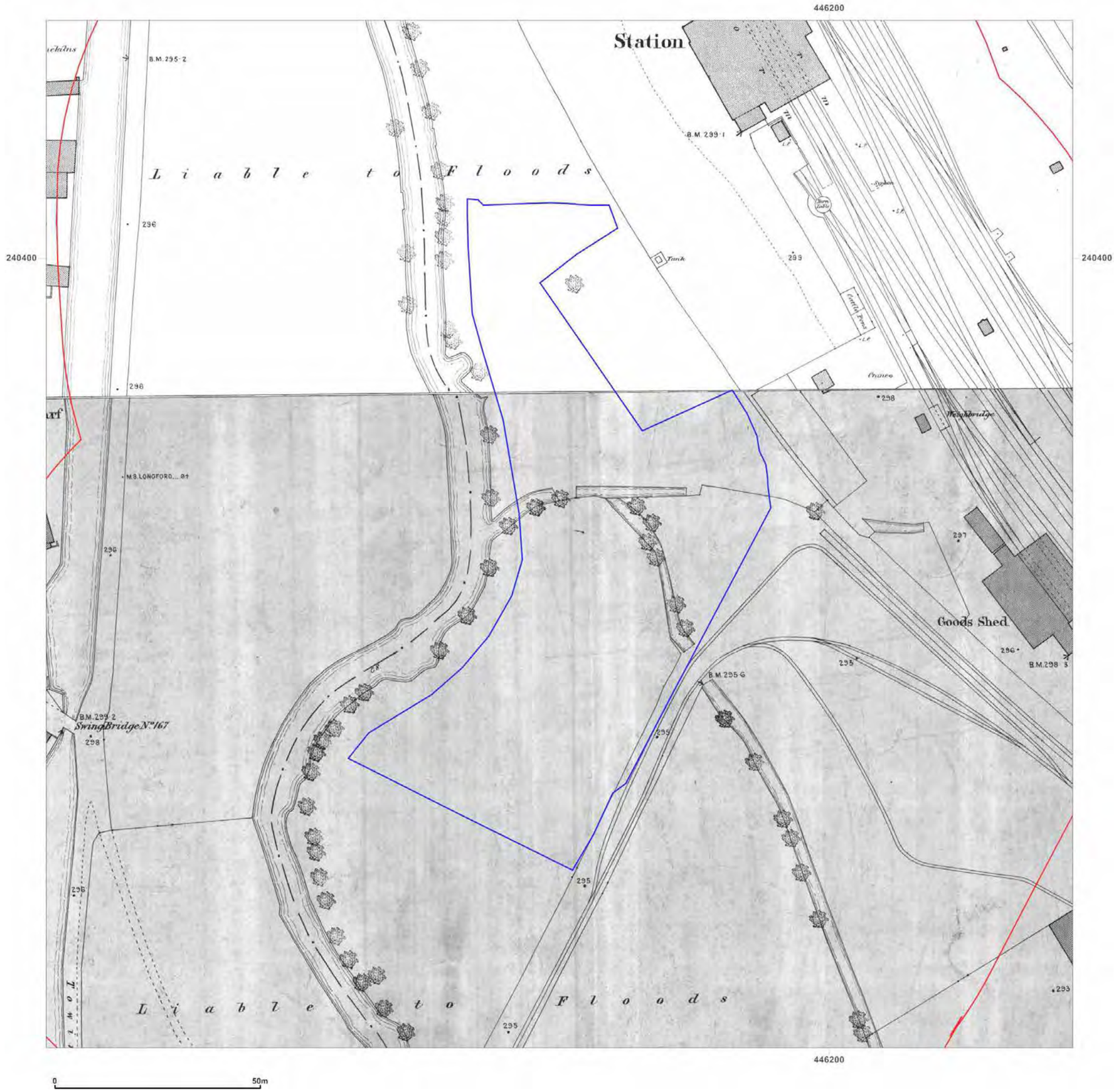
APPENDIX 02

Historical Ordnance Survey Mapping



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Site Details:

Banbury Depot Site,Tramway Road,Banbury

Client Ref: EMS_625510_832856
Report Ref: EMS-625510_832856
Grid Ref: 446134, 240333

Map Name: County Series Town Plan

Map date: **1882**

Scale: 1:500

Printed at: 1:1,000

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Surveyed 1882
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1882
Revised N/A
Edition N/A
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Grid Ref: 446134, 240333

Map Name: County Series

Map date: **1900**

Scale: 1:2,500

Printed at: 1:2,500

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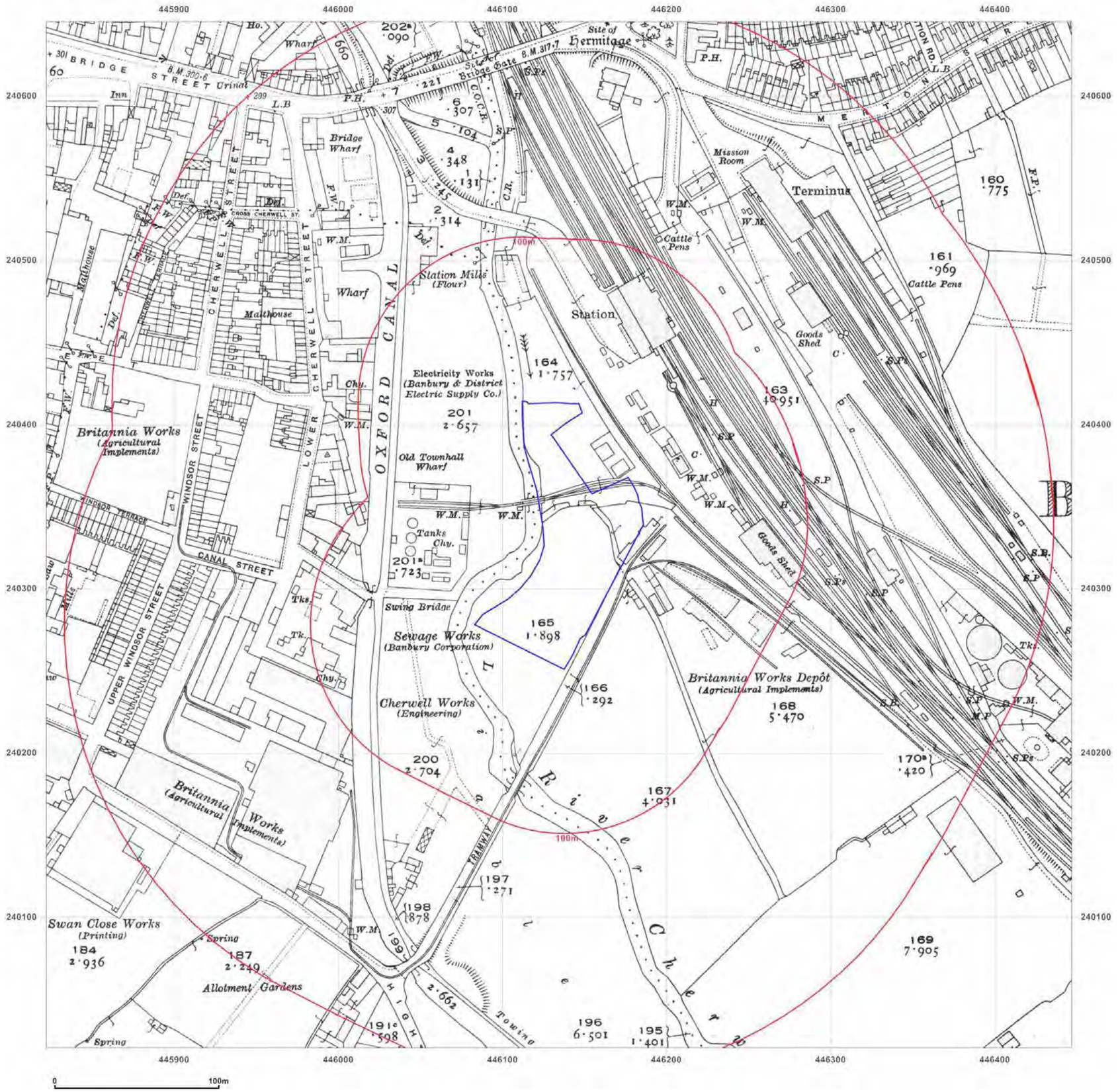

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Client Ref: EMS_625510_832856
Report Ref: EMS-625510_832856
Grid Ref: 446134, 240333

Map Name: County Series

Map date: **1922**

Scale: 1:2,500

Printed at: 1:2,500

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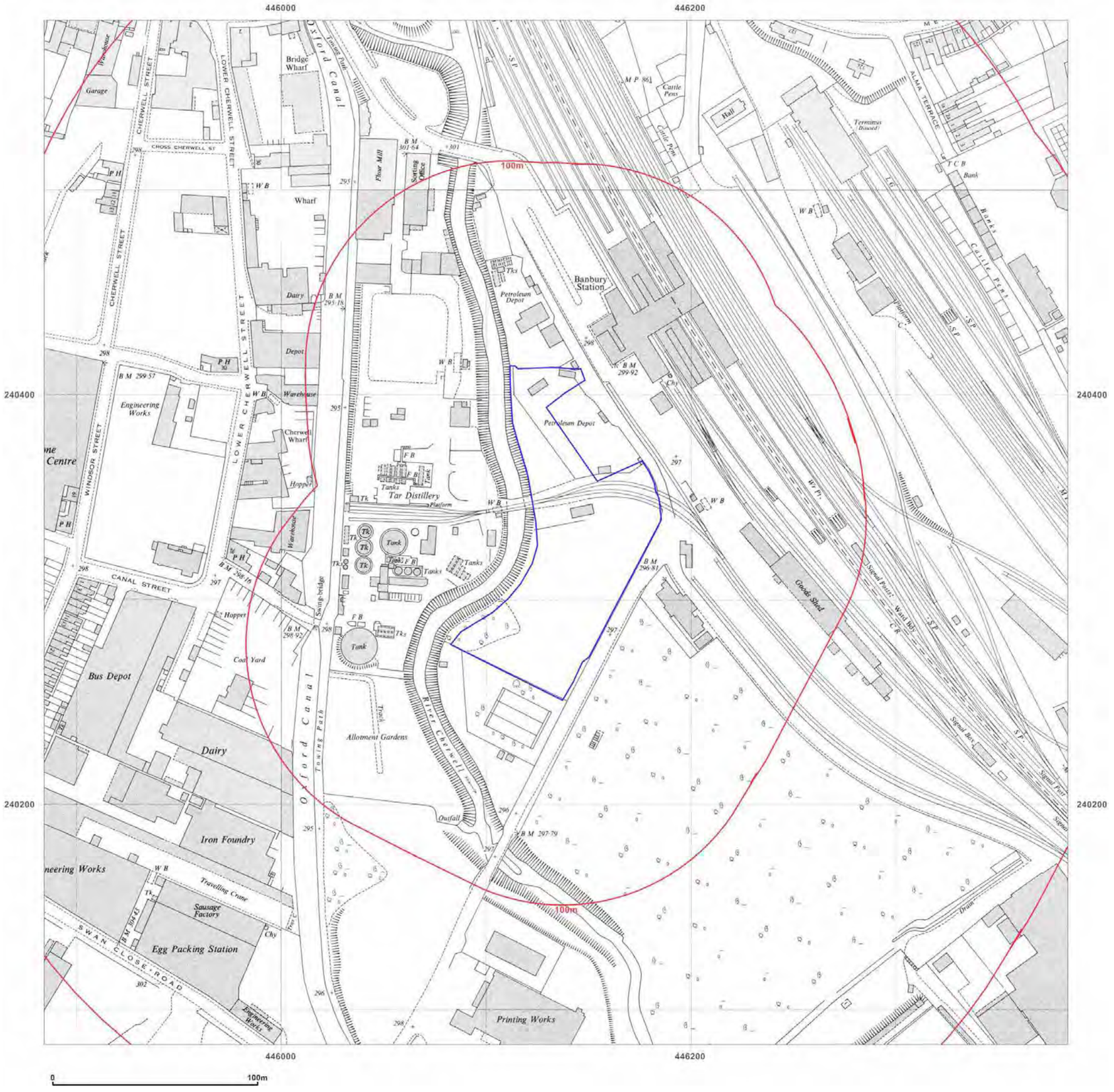

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Site Details:

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Client Ref: EMS_625510_832856
Report Ref: EMS-625510_832856
Grid Ref: 446134, 240333

Map Name: National Grid

Map date: **1966**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1965
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Surveyed 1965
Revised 1965
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Client Ref: EMS_625510_832856
Report Ref: EMS-625510_832856
Grid Ref: 446134, 240333

Map Name: National Grid

Map date: **1966**

Scale: 1:2,500

Printed at: 1:2,500

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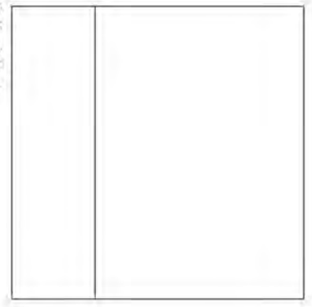
Surveyed 1966
Revised 1966
Edition N/A
Copyright 1968
Levelled 1964



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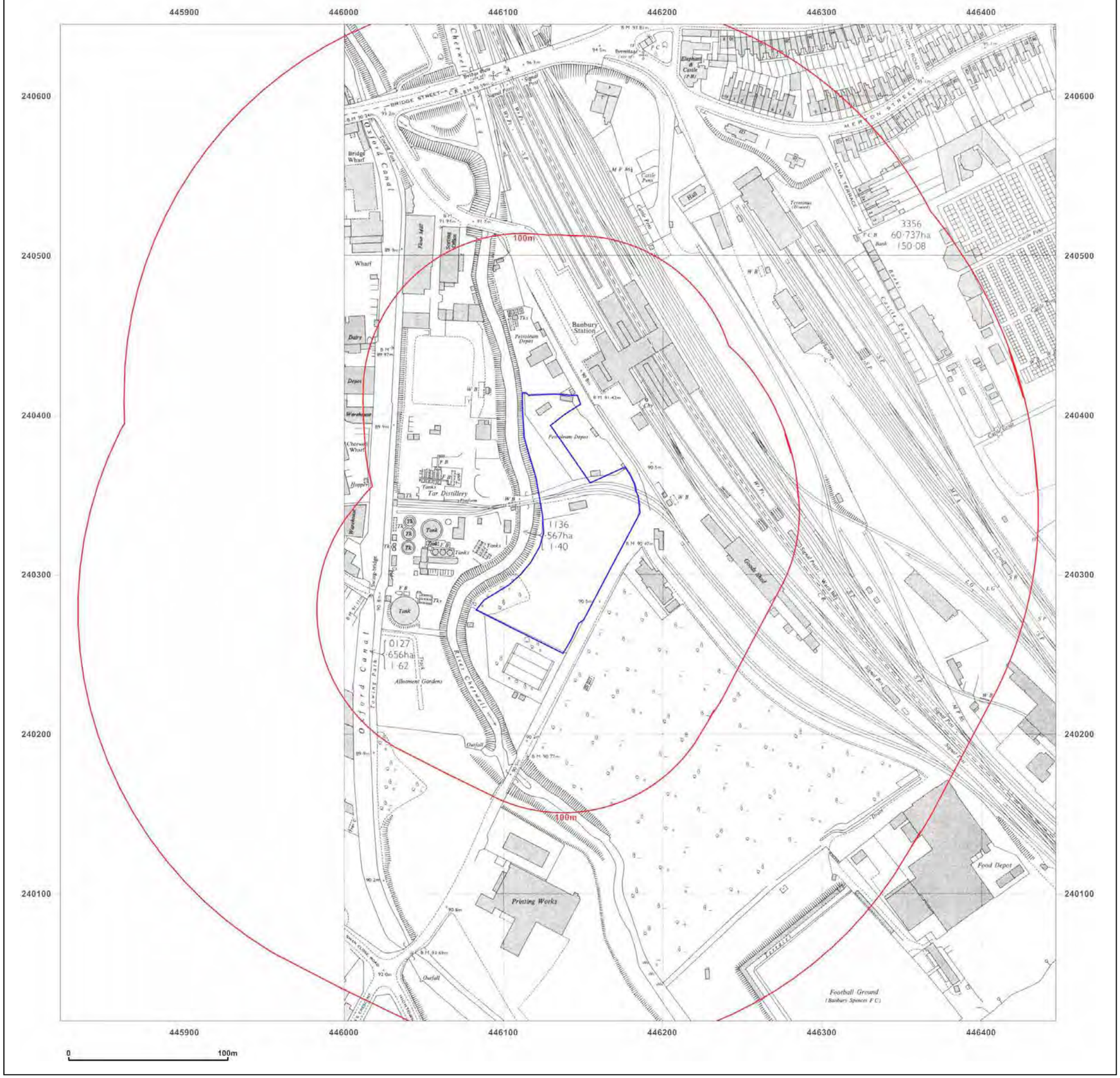

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Site Details:

Banbury Depot Site,Tramway Road,Banbury

Client Ref: EMS_625510_832856
Report Ref: EMS-625510_832856
Grid Ref: 446134, 240333

Map Name: National Grid

Map date: **1973**

Scale: 1:2,500

Printed at: 1:2,500

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Client Ref: EMS_625510_832856
Report Ref: EMS-625510_832856
Grid Ref: 446134, 240333

Map Name: National Grid

Map date: **1973**

Scale: 1:2,500

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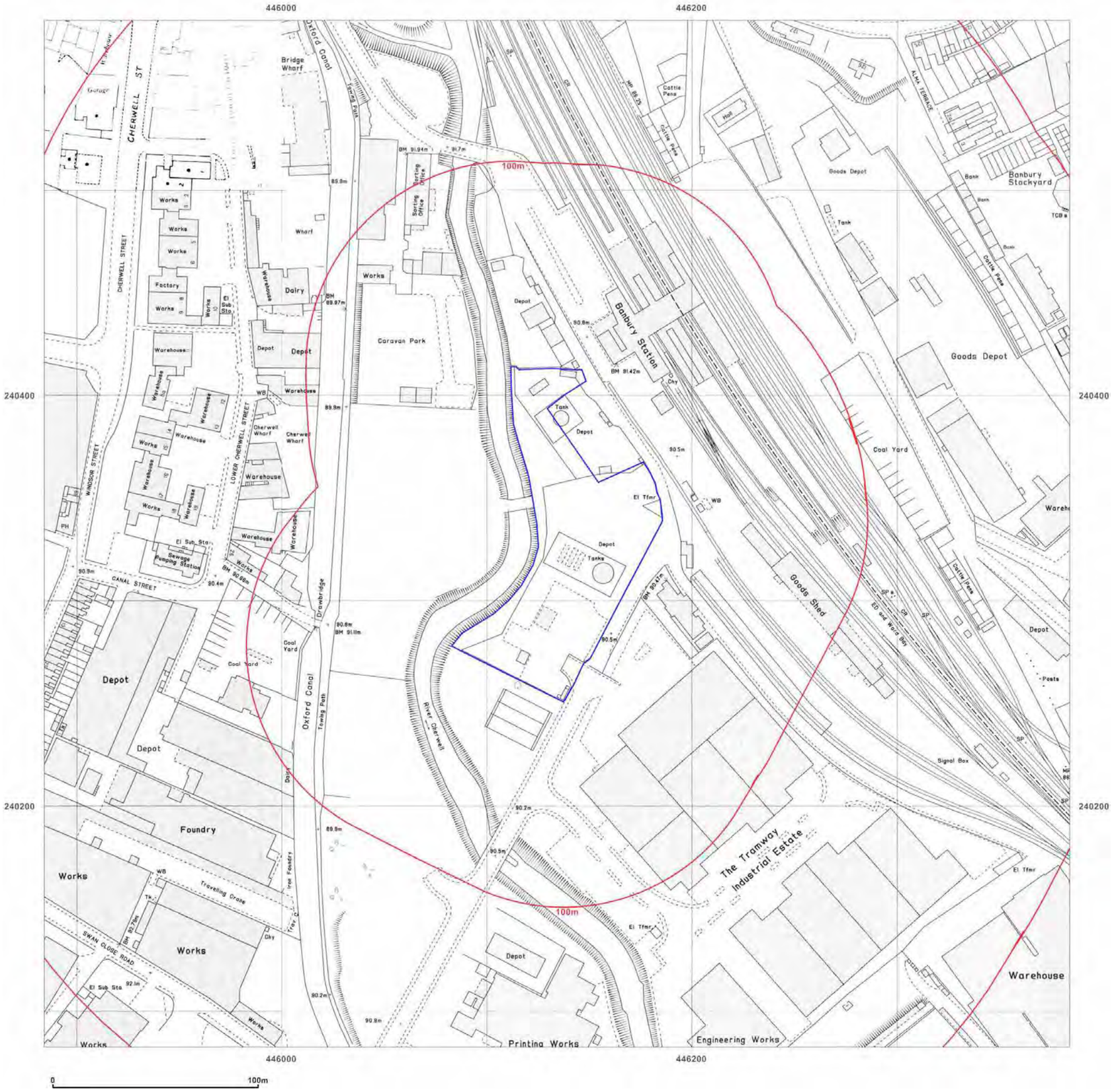

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Site Details:

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Client Ref: EMS_625510_832856
Report Ref: EMS-625510_832856
Grid Ref: 446134, 240333

Map Name: National Grid

Map date: **1976-1980**

Scale: 1:1,250

Printed at: 1:2,000

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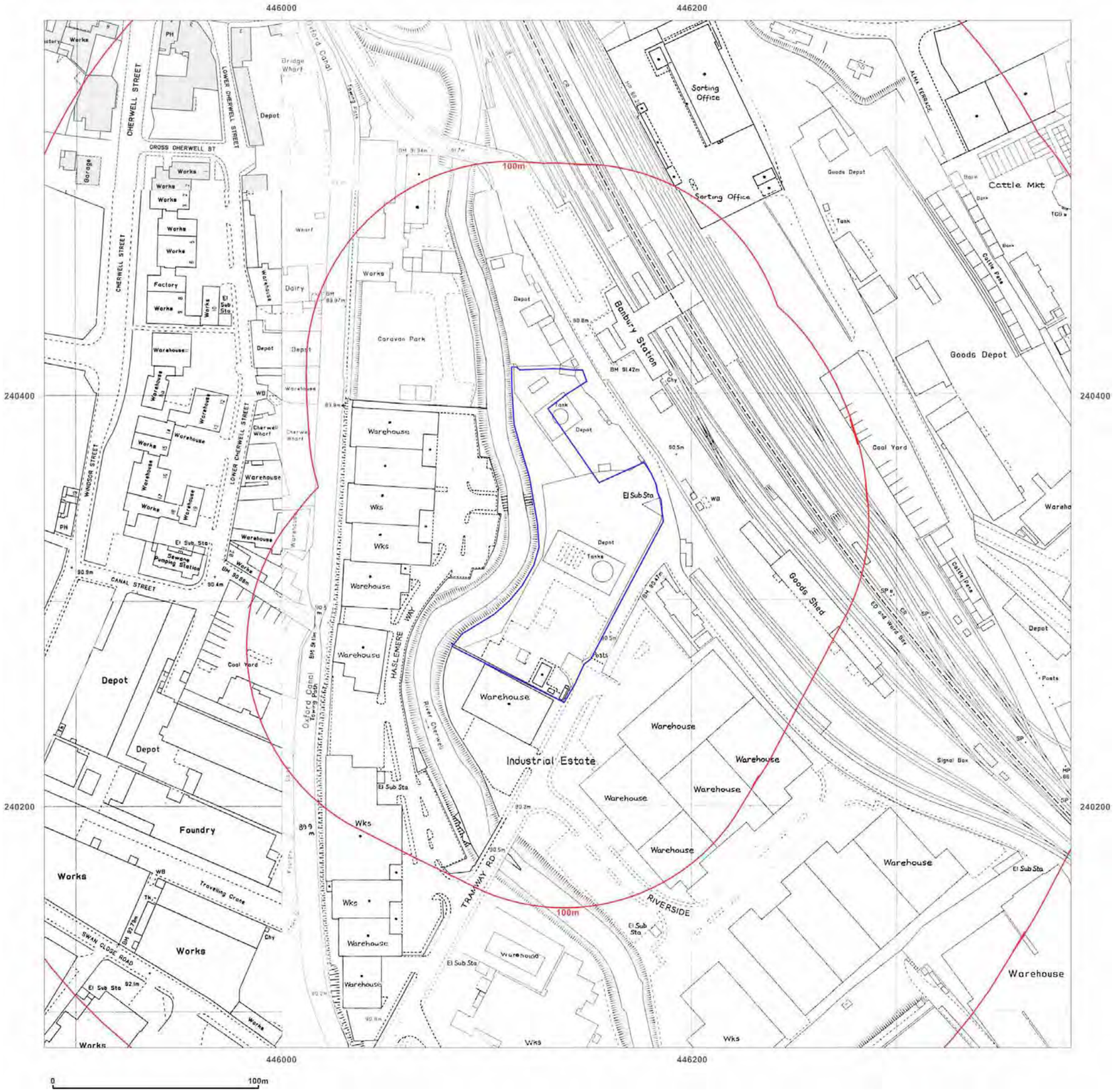

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Site Details:

Banbury Depot Site,Tramway Road,Banbury

Client Ref: EMS_625510_832856
Report Ref: EMS-625510_832856
Grid Ref: 446134, 240333

Map Name: National Grid

Map date: **1982-1985**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1965
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Edition N/A
Copyright 1985
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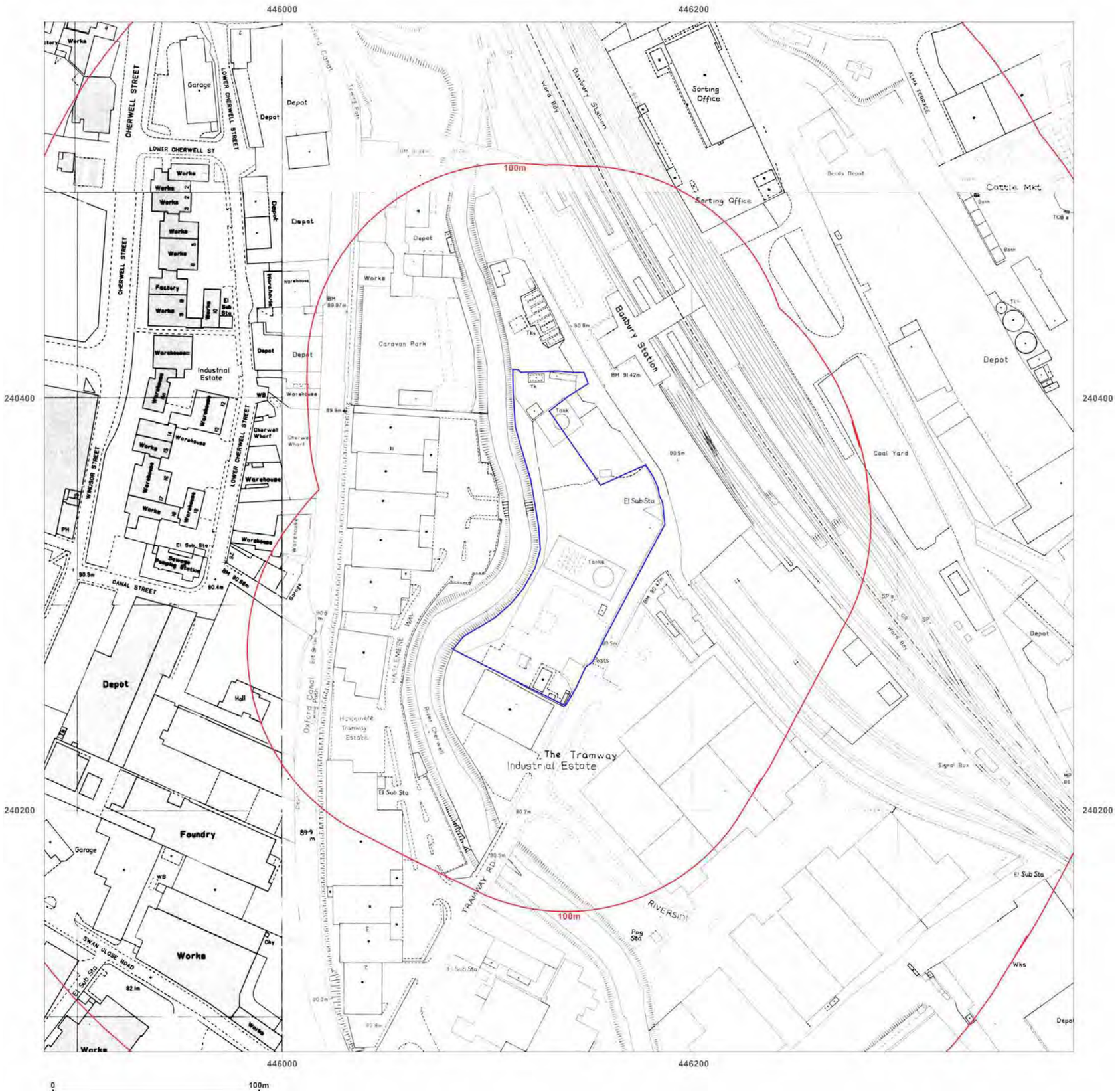

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Client Ref: EMS_625510_832856
Report Ref: EMS-625510_832856
Grid Ref: 446134, 240333

Map Name: National Grid

Map date: **1985-1990**

Scale: 1:1,250

Printed at: 1:2,000

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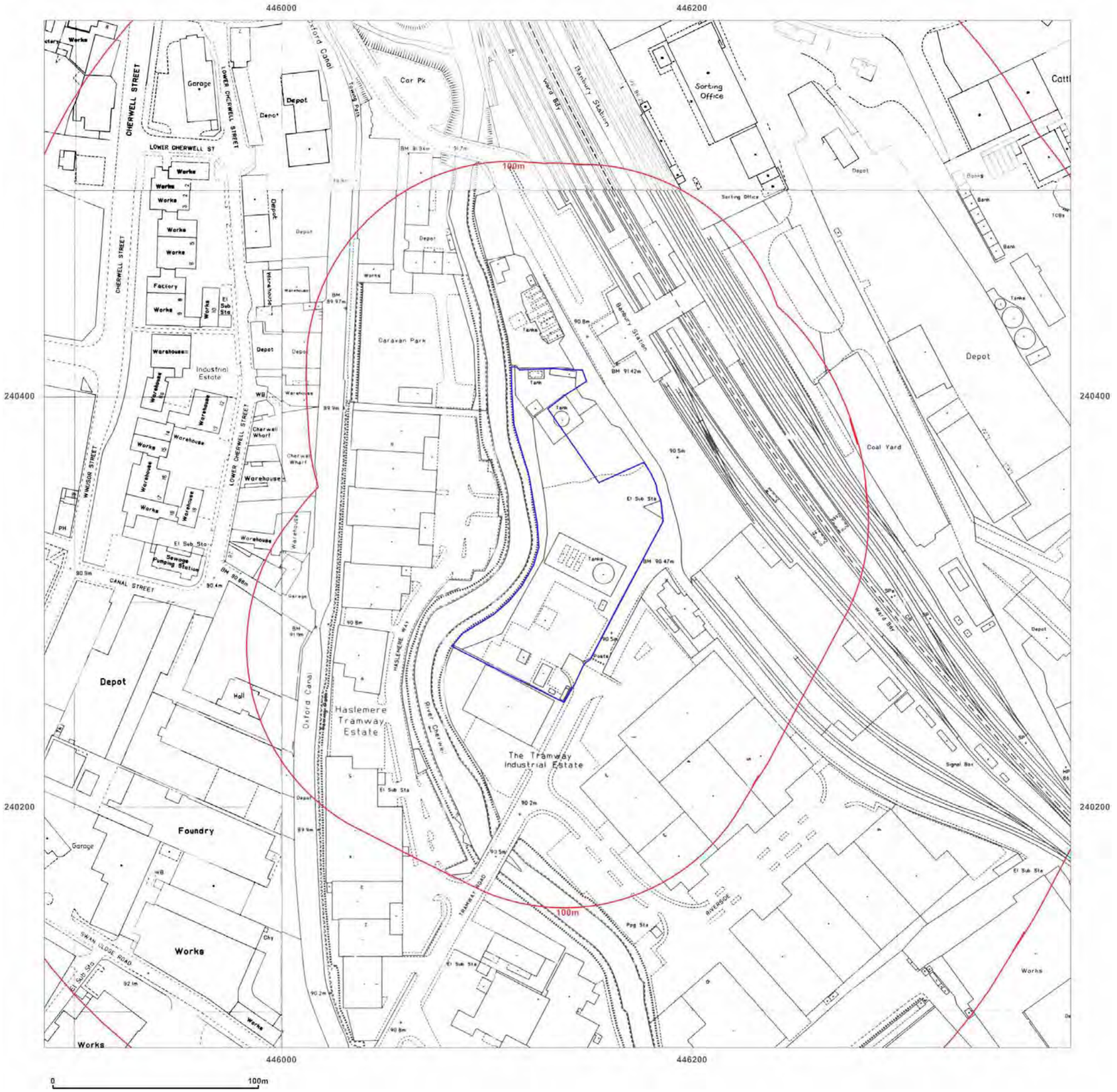

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Site Details:

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Client Ref: EMS_625510_832856
Report Ref: EMS-625510_832856
Grid Ref: 446134, 240333

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: EMS_625510_832856
Report Ref: EMS-625510_832856
Grid Ref: 446134, 240333

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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APPENDIX 03

Indicative Proposed Site Development

PLANNING

- Site boundary *(0.87ha)*
- Existing vegetation to be retained and enhanced
- Riverside Walkway
- Riverside Walkway Platforms
- Green amenity space
- Rain gardens
- Proposed green verges
- Proposed public/private realm
- Proposed OCC new roundabout configuration
- Primary site access point
- Proposed car parking
- Green roofed parking bays
- Residential development area with green/brown roofs

* *Indicative proposals outside of site boundary*

BLOCKS					
A	B	C	D	E	
3	**3**	**4**	**4**	**0**	Studio units
14	**11**	**18**	**27**	**3**	One-bed apartment
18	**3**	**17**	**5**	**3**	Two-bed apartment
2	**0**	**0**	**8**	**0**	Three-bed apartment

Blocks A-D: *Residential development with undercroft parking and services on ground floor.*

Block E: *Retail/ commercial/ community development and services on ground floor, with residential over.*
166 m2 non-residential unit on ground floor.

TOTAL UNITS IN BLOCKS A-E:
- 143 UNITS
- 95 ASSOCIATED PARKING SPACES

Rev.	Date	Description

Banbury Oil Depot
BANBURY

Illustrative Masterplan

Job ref:	Drawing number:	Revision:
255	P03	-
Scale: 1:1,000 @ A3	Date: March 2021	

part of
edge Placemaking Group Ltd
Company Reg No: 11447550 VAT No: 299072069

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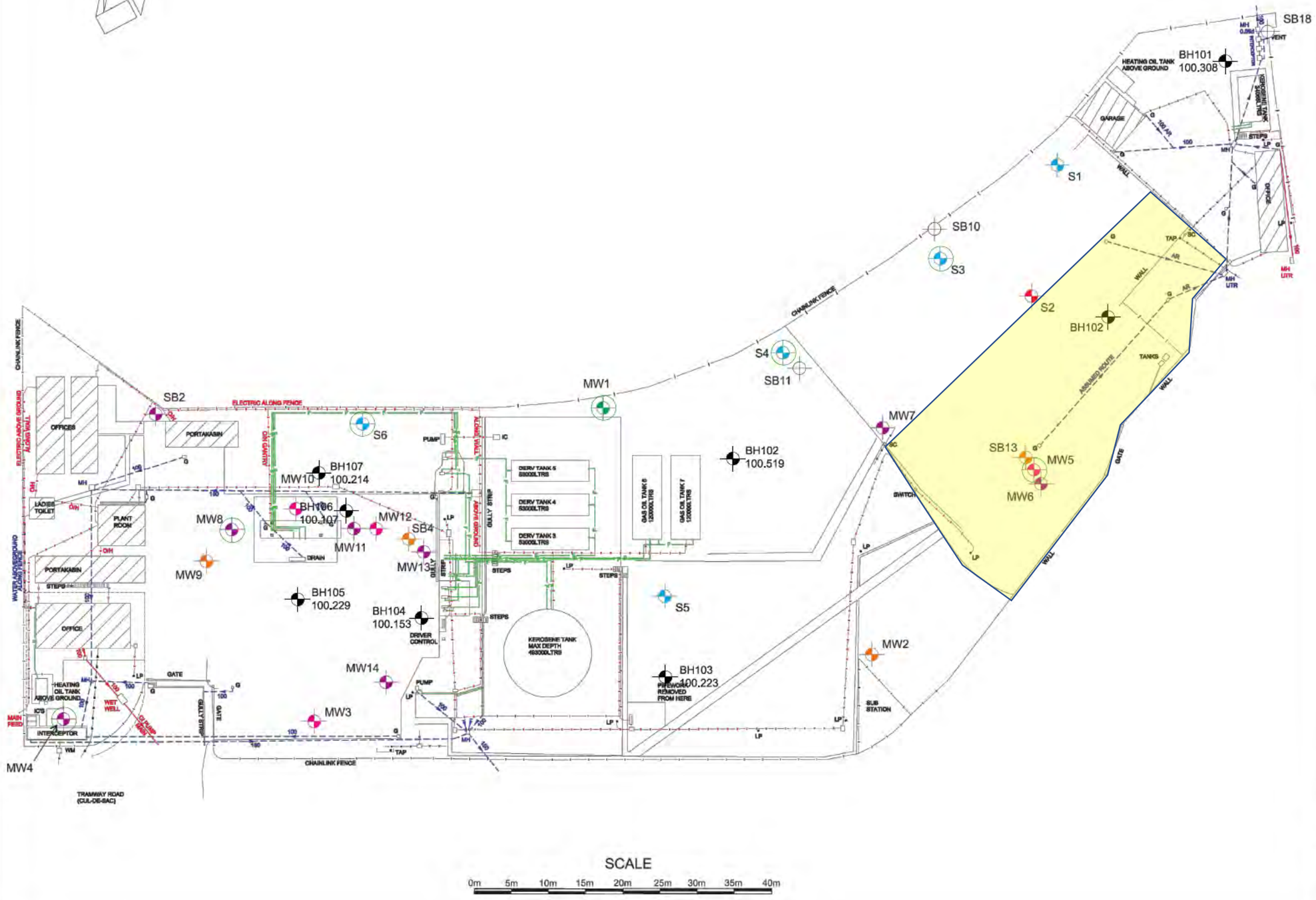
01865 522395
enquiries@edgeUD.co.uk
www.edgeUD.co.uk

APPENDIX 04

Borehole Location Plan & Site Services



OHES ENVIRONMENTAL

OHES Ltd, 1 The Courtyard, Denmark Street, Wokingham Berkshire RG40 2AZ

LEGEND

- PUMP
- PILLAR
- BUILDING
- ROOF CANOPY
- ELECTRIC CABLE
- TELECOM CABLE
- CABLE TV
- COMPRESSED AIR
- FOUL DRAINAGE
- STORM DRAINAGE
- COMBINED DRAINAGE
- WATER PIPE
- FUEL PIPE
- GAUGE LINE
- VENT PIPE
- OFF SET FILL PIPE
- VAPOUR RECOVERY
- END OF TRACE
- BOREHOLE LOCATIONS

NOTES

1. Site drawing and data supplied by SLR Consulting.

Nov 2020: Area shaded yellow is outside planning application boundary.

Site name: Fuelcare Banbury Depot

Job no.: 6696

Figure: Services and Boreholes Location Plan

Scale:	Drawing No.:	
As Shown	A3	
Date:	Drawn:	Checked:
15/01/2014	IG	CM

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