Hereford Enterprise Zone – North Magazine, Rotherwas Industrial Estate, Hereford HR2 6ST

Phase 1 Geo-Environmental Desk Study Report

Skylon Park

Environmental Management Solutions – EMS Geotech

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SUMMARY REPORT

SUBJECT	COMMENTS
CURRENT USE & DESCRIPTION	Irregular in plan, the site is relatively flat, covers roughly 8.19 hectares and is generally covered in undergrowth, rough vegetation, and bare ground. Historically the site formed part of the Hereford Royal Ordnance Factory (Hereford ROF) northern (Lyddite) factory. It is devoid of historical buildings and structures apart from a recently constructed access road and the former munitions barn floor slab. Various sporadic stockpiles of soil, broken concrete and tree remains are located across the site. Skylon Bund No. 3, trees and rough vegetation containing old blast walls, roadways and railway buildings delineate the north-eastern boundary with open fields beyond. Trees and rough vegetation with Fir Tree Lane, a sewage works and units forming the Skylon Park development bound the site to the east / southeast. Trees and Skylon Bund No. 1 partially delineate the southwest boundary beyond which is Festival Way, Plot N26 and various commercial / light-industrial units. To the northwest the site is delineated by Skylon Park Bunds No.1 and No. 2, beyond which are the Hereford Shell Store and Plot N24 sites, a large pool, and open fields.
PROPOSED USE	It is proposed to divide the site into several plots (Plots 1 to 12) and develop each individually for commercial / light industrial use. The proposed development will include raising existing ground levels for future drainage purposes.
HISTORICAL SUMMARY	Prior to 1912 the site and surrounding area comprised open ground and tree covered areas belonging to the Lubienski-Bodenham family, Rotherwas Estate. Between 1916 and 1967 the site and immediate surrounding area operated as the Hereford Royal Ordnance Factory (Hereford ROF) northern (Lyddite) factory filling artillery shells for the war effort. In 1975, Herefordshire County Council bought 93 hectares of the former ROF facility, including the site, to develop into the Rotherwas Industrial Estate. Clearance works to remove historical structures and buildings were undertaken from 2008 to 2011 and flood alleviation works to raise on-site ground levels were undertaken in 2012. The site has remained undeveloped since this time.
PUBLISHED GEOLOGY	Published maps show superficial granular primary River Terrace Deposits directly underlying the site, which in turn overlie Raglan Mudstone Formation bedrock.
COAL MINING AND MINERAL EXTRACTION	The site is not situated within an area of coal mining or mineral extraction

GROUND STABILITY	The site is unlikely to be affected by ground instability hazards.
RADON GAS	No radon protection measures are required in the proposed development.
HYDROGEOLOGY	The underlying superficial River Terrace Deposits and the Raglan Mudstone Bedrock are classed as Secondary A Aquifers. The site is not located within a Groundwater Source Protection Zone (SPZ).
HYDROLOGY	A natural pool is present on-site, and the nearest recorded surface water body is the pond located approximately 100m northwest and associated with the Shell Store site. The site is identified as being in a medium to high (Flood Zone 2 to 3) area. However, site levels were raised in 2012 as part of flood alleviation works and on-site observations indicate that the flood risk is low.
PREVIOUS GROUND REPORTS	Previous investigation works conducted on-site, by Geotechnics in 2012, and for the munitions barn floor slab, by EMS, in 2020. Previous investigation works have been undertaken for Plots N24, N26 and the Shell Store situated immediately south and northwest of the site by EMS and third parties. These investigation findings were presented in separate individual reports that should be read in conjunction with this report. Previous investigation reports undertaken on-site are referenced as: • 'Soil Contamination and Concrete Investigation: Hereford Enterprise Zone – Plot N1, Munitions Barn Slab, Rotherwas Industrial Estate, Hereford HR2 6JT', EMS Letter Report E16889, dated 26th March 2020. • 'Ground Investigation at North Magazine Site, Rotherwas' Factual and Interpretative Report, Geotechnics Project Number: PC125103, dated February 2013.

PRELIMINARY CONTAMINATION RISK ASSESSMENT	
A potentially moderate / low risk has been highlighted from this assessment associated with the presence of contaminated Made Ground from the historical use of the site as part of the former Hereford ROF facility. A variable moderate to high risk has also been identified towards human health, particularly construction workers, from low asbestos levels on-site. A potentially moderate / low risk for ground gases has been identified for the North Magazine site, potentially associated with the infilled pond located within the south-eastern site corner.	
PRELIMINARY GEOTECHNICAL ASSESSMENT	
The design and construction of shallow foundations at this site is likely to be complicated due to disturbed ground, potentially deep Made Ground; compressible soils; variations of soil type, i.e. clay rich to granular and shallow groundwater. Aggressive ground conditions may also lead to the attack of buried concrete. Foundation design will also depend on how much existing ground levels are raised as part of future flood alleviation works. Where geotechnical constraints complicate foundation design and construction, consideration will be required to adopting a deep solution such as ground improvement or piles. It is anticipated that ground conditions are likely to vary across the site and, therefore, it is recommended that foundation designs are considered on a plot-by-plot basis.	
RECOMMENDATIONS	
Phase 2 Contamination Assessment	It is recommended to undertake Phase 2 Intrusive investigation works in the order to assess the presence, nature, and contamination potential for this site.
Geotechnical Ground Investigation	As part of any future intrusive works, it is recommended that geotechnical testing of on-site soils is undertaken to characterise the underlying ground conditions and to aid with foundation design.

1. Introduction

1.1 General

Environmental Management Solutions Limited (EMS) has been commissioned to undertake a Phase 1 Geo-Environmental Desk Study for the former North Magazine site, located within the northern part of the Skylon Park development. North Magazine is situated on the developments' northern periphery at Rotherwas Industrial Estate, Hereford HR2 6ST. Hereafter, referred to as 'the site'. The works have been commissioned directly by Skylon Park (the Client).

It is understood that the client intends to develop the site for commercial / light industrial purposes.

The purpose of this Phase 1 Geo-Environmental desk study is to assess the likely contamination constraints associated with the proposed development in order to meet with likely planning conditions. The report also provides a preliminary assessment of ground conditions in terms of likely geotechnical constraints that could impact on the proposed development.

As part of the ongoing Rotherwas Industrial Estate development the site and immediate surrounding area (including the neighbouring Shell Store, Plot N24 and N26), have been subjected to previous investigation works. Two previous investigations were previously undertaken for the site itself by Geotechnics Limited, in November / December 2012, and EMS in February 2020. The findings were presented in a ground investigation and letter report that should be read in conjunction with this report and are referenced as:

- 'Soil Contamination and Concrete Investigation: Hereford Enterprise Zone – Plot N1, Munitions Barn Slab, Rotherwas Industrial Estate, Hereford HR2 6JT', EMS Letter Report E16889, dated 26th March 2020.
- 'Ground Investigation at North Magazine Site, Rotherwas' Factual and Interpretative Report, Geotechnics Project Number: PC125103, dated February 2013.

1.2 Scope of Works

The agreed scope of work was:

- Purchase of a Landmark Envirocheck report and historical Ordnance Survey Maps.
- Interpretation of the geological, hydrogeological, hydrological and environmental site setting.
- Undertaking a site walkover by a suitably experienced Geo-Environmental Engineer involving the inspection of the site and the surrounding area for indications of contamination and other ground related issues.
- Provide information relating to the past and current uses of the site and surrounding area and the nature of any related hazards and physical constraints.

- Identification of current and likely future receptors, potential sources of contamination and likely pathways, and any features of immediate concern, including those that could be introduced in future.

- Production of a preliminary conceptual model for the site along with a preliminary contamination risk assessment in accordance with the Environment Agency and Department for Environment Food and Rural Affairs (DEFRA) document 'Model Procedures for the Management of Land Contamination' Contaminated Land Report (CLR) 11, dated 2004.

- Assessment of likely geotechnical ground that could potentially impact the proposed development.

This report represents the findings of the first stage of the site investigation process for the works commissioned by the Client. Recommendations for follow-on Phase 2 intrusive investigation works where required are provided within this report. The findings of all Phase 2 investigation works will be reported separately.

1.3 Management Limitations

- This report has been prepared under the express instructions and solely for the use of the Client and the Client's agents in performance of EMS's duties under its contract with the Client. Should the Client wish to release this report to a Third Party for that party's reliance, EMS agree to such release provided that EMS assumes no duties, liabilities or obligations to the Third Party, that the Third Party does not acquire any rights whatsoever against EMS, and EMS accepts no responsibility for any loss incurred by the Client through the Client's release of the report to the Third Party.

- Copyright of this report is held by EMS.

- The findings of this report represent the professional opinion of experienced contaminated land consultants. EMS relied on the accuracy of Third Party documentary information contained in the consulted and is in no circumstances responsible for the accuracy of such information or data supplied. When considering this report due regard should be given to the terms and conditions of EMS's contract with the Client under which the report was prepared.

- EMS does not provide legal advice and the advice of legal professionals may also be required. All advice, opinions or recommendations within this report should be read and relied upon only in the context of the report as a whole. The advice within the report is based upon the information made available to EMS within the financial and timeframe constraints imposed.

- All work carried out in preparing this report has utilised and is based upon EMS's current professional knowledge and understanding of current relevant UK standards and codes, technology and legislation. Changes in this legislation and guidance may occur at any time in the future and cause any conclusions to become inappropriate or incorrect. EMS does not accept responsibility for advising the Client or other interested parties of the facts or implications of any such changes.

- The report is limited to the site boundaries identified by the Client and confirmed within this report. All boundary lines depicted on plans included within this report are approximate only and do not imply legal land ownership.

- The extent of the investigation was designed in-line with the Client's budget, which is considered suitable, and not limiting, for the proposed development.

- The recommendations, interpretations and conclusions within this report are based solely on desk study information and a site walkover. This report represents the conditions and findings on the date of desk study. Over time, site conditions may alter.

- All observations relating to tree species, asbestos containing materials within structures or invasive weeds, such as Japanese Knotweed, does not constitute a formal survey of such features. The identification of such features is therefore tentative only. The report does not consider whether sensitive ecology or archaeology is present as these require consideration by professionals specialising in these matters. It should be recognised that the collection of desk study information may not be exhaustive and that other information pertinent to the site may be available.

- It is emphasised that a desk study and walkover can only indicate the potential for risks relating to on-site contamination, certain types of ground conditions and geotechnical hazards. This study aims to highlight potential pollutant linkages and / or ground related risks in line with current guidance.

- Only through undertaking intrusive investigation works can the plausibility of pollution linkages and other ground related risks be proven. The scope of this investigation excludes a formal slope stability study and any observations made regarding slopes are for information only.

- Following final issue of this report, EMS has no further obligation to advise the Client on any matters such as changes in legislation or codes of practice that may affect the advice contained within the report.

2. Land Use and Setting

2.1 Site Location

The site is situated approximately 2km southwest of Hereford City Centre within the north-western corner of the Rotherwas Industrial Estate, Hereford HR2 6ST.

The National Grid Reference (NGR) for the site is E: 352710, N: 238500.

Plans showing the site location and it's location within the wider Skylon Park development are included in Appendix A.

2.2 Site Description

Irregular in plan, the North Magazine site is relatively flat, covers roughly 8.19 hectares and is generally covered in undergrowth, rough vegetation, and bare ground. Historically the site formed part of the northern (Lyddite) factory located within the northern section of the Hereford Royal Ordnance Factory (Hereford ROF) facility. However, it is currently devoid of historic buildings and structures. A recently constructed tarmac access road is situated centrally on-site running from northeast to southwest towards the southwest boundary. Immediately northwest of the access road is the remaining floor slab to the former munitions barn that formed part of the factory.

For development purposes the site has been split into several plots (Plots 1 to 12), which it is understood will be developed separately. Plots 1 to 3 cover the northeast quarter of the site and Plots 4 to 6 the southeast quarter. Plots 7 and 8 are located within the southwest quarter and Plots 9 to 12 cover the north-western quarter.

Trees, rough vegetation, and chain link fencing delineate the northeast and southeast site boundaries. The south-western boundary is partly open, delineated with some trees and bounded by festival way and the access road to the Hereford Shell Store development, located immediately northwest of the site. Skylon bunds - Southern Bund No.1, Central Bund No.2 and Northern Bund No.3, partially delineate the site along its southwest, northwest and north-eastern boundaries. Open fields and a sewage works bound the site immediately to the north and northeast. Fir tree Lane, leading to the sewage works, bounds the site to the east, beyond which are various as yet undeveloped Skylon Park Plots. Beyond Festival Way and the Shell Store access road is Skylon Park Plot N26 and various commercial and light-industrial units including P. J. E. Driver Training and Consultancy Services, 'CleanMy Ltd', ACL Metal Ltd and the Thorn Business Park. To the northwest the site is bounded by the Shell Store development and Skylon Park Plot N24.

The Rotherwas Industrial Estate is located on the southern edge of the River Wye floodplain. The site is elevated at just over 50m Above Ordnance Datum (AOD) with the local topography sloping very gently towards the north and the River Wye. To the east and south the ground is initially relatively flat before rising gently and eventually climbing steeply to 137m AOD and the summit of Dinedor Hill, situated approximately 1.2km to the southeast.

Plans showing the existing site and proposed plot layouts are included in Appendix A.

2.3 Site Walkover

An EMS Geo-Environmental Engineer undertook a site walkover on 24th June 2020. During the walkover the following observations were made:

- The site was confirmed to be relatively flat, covered with rough vegetation and devoid of buildings.
- The existing access road was observed centrally on-site.
- The Skylon Bunds were observed along the southwest, northwest, and northern site peripheries and were covered with rough vegetation.
- At the toe of Skylon Bund – Northern Bund No.3 a pool had formed and become naturally vegetated.
- Thick vegetation and tree cover was present immediately beyond the northeast site periphery and Northern Bund No.3. Within this area were various concrete and low red brick structures and old concrete trackways, with a bituminous surface dressing. These features are understood to represent former blast walls, perimeter railway buildings and roadways associated with the former factory.
- At the time of the walkover the southeast half of the site (Plots 1 to 6), were undergoing vegetation clearance and regrading works. A stockpile of broken up concrete and one containing tree branches / roots were situated within the northeast part of this area. Two soil stockpiles were situated towards to the southwest periphery. Sporadic mature trees were also dotted across this area. It is understood that all stockpiles in this area will be removed as part of the preliminary site clearance works once development commences.
- A disused pipe entry was observed immediately south of Northern Bund No. 3.
- A topsoil stockpile being stored for use on the Shell Store site was situated on the former munitions barn floor slab. It is understood that these soils will be removed for use elsewhere on the Rotherwas Industrial Estate development.
- A stockpile of soils sourced from the central Skylon Park Plots was positioned adjacent to the Skylon Bund – Southern Bund No.1 western site corner. Samples for chemical analysis were taken from this stockpile during the walkover and the results show no significantly elevated chemical concentrations for these soils. It is understood that these soils are earmarked for use elsewhere on the Skylon Park development and will be removed from site.
- Given the findings of investigation works on adjoining sites, such as Plot N24, the Shell Store and Plot N26, a sitewide Made Ground presence is anticipated.
- Subsequently walking the site with an EMS Asbestos engineer, in August 2020, revealed sporadic asbestos containing material, such as cement and bituminous material, fragments scattered sitewide. Asbestos Containing Materials (ACMs) were also observed associated with the stockpile containing broken up concrete in the north-eastern area of the site.

Photographs of the site and surrounding area taken during the walkover are included in Appendix B.

2.4 Site History

Copies of historical Ordnance Survey Maps contained within the Envirocheck Report, reference 247715231_1_1, are included in Appendix C. The maps have been used to determine the historical use of the site and surrounding area, which is summarized in the following table:

MAPPED HISTORY		
DATE RANGE	**ON-SITE**	**SURROUNDING AREA**
1886 to 1905	The site was shown as open ground with a field boundary crossing through it centrally from east to west. The eastern periphery was shown as covered with trees that continued eastwards.	Open ground surrounded the site on to the north, south and west and to the north it was labelled as 'Liable to Floods'. The River Wye being situated approximately 300m to the north. Woodland was shown immediately east of the site and Rotherwas House, Chapel and an old gravel pit approximately 500m east. A long roughly northwest to southeast orientated pool, labelled 'Fish Pond', was present approximately 100m to the east. The Hereford, Ross and Gloucester (GWR) railway trended northwest to southeast parallel and approximately 50m from the southwest site boundary, where the existing Festival Way and Shell Store Access Road is located. Rotherwas Junction was located approximately 500m to the northwest.

MAPPED HISTORY		
DATE RANGE	**ON-SITE**	**SURROUNDING AREA**
1928 to 1964	The site was shown as blanked out, disguising the presence of military (former ROF Hereford) land. A large pool (or pond) was shown within the southeast corner of the site.	The Hereford, Ross and Gloucester (GWR) railway was relabelled the Grange Court & Hereford (GWR) Railway. Rotherwas house was no longer shown on maps dated 1930 onwards and the chapel was shown as disused. Maps dated 1929 onwards show the 'Fish Pond' to the east as marshland and silted up. A small pool was shown to the north of the 'Fish Pond' approximately 250m east and a large pool / pit was shown approximately 300m southwest. A sewage disposal works was shown approximately 500m to the west. The immediate surrounding area was generally blanked out to disguise the presence of military (former ROF Hereford) land.
1970 to 1973	Various structures, including the former munitions barn (identified as a works), earth mounds associated with former bunkers, trackways, small buildings and structures understood to be blast walls, all associated with the Lyddite factory complex, were shown across the northern and central parts of the site.	Open ground, a patrolling path, a perimeter railway and various unidentified structures associated with the former Lyddite factory were shown to the north, east and south of the site. Immediately to the northwest was the Shell Store site and structures formerly associated with Plot N24. The Grange Court & Hereford (GWR) railway was identified as a mineral railway and a perimeter railway bounded the site to the north and east. The railway was shown as dismantled on maps dated 1972 onwards.

MAPPED HISTORY		
DATE RANGE	**ON-SITE**	**SURROUNDING AREA**
1977 to 2006	Earlier factory buildings had been removed and only the foundations / bases, blast walls and trackways were shown. The pond within the southeast corner was no longer shown on maps dated 1988 onwards. The aerial image for 1999 shows the site covered with trees and rough vegetation. Traces of trackways, the former perimeter railways and foundations associated with the former factory are also visible.	From 1977 onwards the former ROF Hereford facility buildings and structures surrounding the site had been removed. The former mineral and perimeter railway was shown as dismantled. Newer light industrial units (works), a depot and car parking corresponding to the existing Thorn Business Park, were shown to the south and southwest. The Sewage works had been constructed to the east. The existing Fir Tree Lane is shown running parallel to the southeast site boundary, to the sewage works, from this time. Maps dated 1985 onwards show the former 'Fish Pond' located to the east as reduced in size and filled with water. The 1999 aerial image shows traces of the former trackways, mineral railway and structures / building foundations associated with the former factory. The sewage works to the west was no longer shown on maps dated 2006 onwards.
2020	The site was shown as cleared of all earlier features such as the trackways, blast walls old foundations and structures.	Skylon View / Festival Way and the Shell Store access road was shown bounding the site to the southwest. Various existing light industrial units were shown to the east. To the northwest of the Shell Store, approximately 100m from the site, a large existing pool was shown.

Information published in a conservation statement (July 2013) and anecdotal evidence from online sources indicate that prior to 1912, the land that includes the site and surrounding Rotherwas Industrial Estate belonged to the Lubienski-Bodenham family, Rotherwas Estate. The Ministry of Munitions acquired 100 ha of the former estate in June 1916 and constructed the Hereford Royal Ordnance Factory (Hereford ROF) facility for filling artillery shells. The explosives

used to fill the shells included Lyddite (picric acid or 2,4,6-trinitrophenol) and Amatol (a mixture of trinitrotoluene and ammonium). In 1918, the facility was supplied with dichloroethyl sulphide to produce mustard gas to fill shells. Shell filling continued until 1926 and from the late 1930s the Royal Navy used the facility for filling sea mines. The facility continued to be used for shell filling through the second world war and with ever decreasing production it closed in 1967.

Documentary information contained within the Gifford & Partners Report (Gifford Report) and the JS Conservation Management & Town Planning, Conservation Statement, shows that the former ROF facility comprised 370 buildings and was split into three sections (North, Central and South). The northern section was situated north of the existing B4399, The Straight Mile and was used for filling shells with Picric Acid (Lyddite or 2,4,6 trinitrophenol). Hence it was also known as the Lyddite Factory. The southern section of the facility was to the south of the B4399, The Straight Mile and was used to fill shells with Amatol, hence it was known as the Amatol Factory. Between the Northern and Southern Sections was a Central (Administration) Section that was used for administration, welfare and various workshops including painting and joinery.

The site itself covered the central and eastern parts of the former Lyddite (Northern) Factory to the southeast of the Shell Store and Plot N24. Information contained within the Gifford Report indicates that whilst the site operated as part of the former Lyddite (Northern) Factory it was used for filling empty shells with explosive compounds and chemical warfare agents. Most on-site structures were small melting and filling sheds surrounded by blast walls, the remains of which were observed beyond the northwest site periphery during the walkover and served by a network of roadways called 'clean ways'. This section also included air raid shelters and bunkers. During the 1960s most associated railway lines were removed long with the melting and filling sheds within the concrete blast walls and other on-site structures.

The movement of materials around this part of the factory are not shown in the Gifford Report. However, it is anticipated that these processes and materials movements were similar to those at the Shell Store and on Plot N24. Empty shells being transported onto site from the former Munitions Barn building to the south, filled with explosives / chemical warfare agents and then moved to the transit sheds located within the northern parts of the site. The Picric Acid and mustard gas used to fill the shells was stored off-site to the northwest of the Shell Store and dispensed via an off-site expense store. From the expense store the chemicals were transported onto site via rail to the melting and filling sheds. The filled shells were finally transported via a perimeter railway from the transit sheds to Army Ordnance Department Stores located within the northeast corner of the Rotherwas industrial estate.

Plans showing the Hereford ROF Facility and former Lyddite (Northern) Factory layouts along with indicated movements of shells and chemicals across the site are included in Appendix A.

Following the closure of the former Hereford ROF Facility, Herefordshire County Council bought 93 hectares in 1975 and began redeveloping it into the Rotherwas Industrial Estate.

Between 2008 and 2011 it is understood that Owen Pell, on behalf of Amey, undertook on-site clearance works to initially remove trees but also all blast walls, buildings, bunkers, roadways, and pipework, associated with the former factory. These works are documented in a Materials Management Plan (MMP) undertaken by Peter Brett Associates, (Ref: 31077/3503, Rev 02), dated November 2017.

Between August 2009 and November 2011 EMS Asbestos undertook several site walkovers, on behalf of Owen Pell and during the site clearance works to identify potential on-site asbestos sources. The EMS surveys initially targeted buried and lagged pipework but also identified thermal insulation, millboard debris, bituminous felt and cement debris associated with on-site buildings and infrastructure. It is understood that the bituminous debris provided a surface dressing to a roadway network that carried trolleys between the melting and filling sheds behind the blast walls. The bituminous layer acting as an anti-sparking layer. The buried pipework was used to carry hot steam between the meting and filling sheds and so was thermally lagged. The EMS Asbestos survey findings were included in several reports EMS2027, EMS2049, EMS3035, EMS3132 and EMS3204.

According to Owen Pell, during the clearance works, Hereford Asbestos Services (HAS) were on-site to hand pick visible ACMs prior to removing them off-site. However, apart from targeting specifically identified structures and areas, the scope of these works is unknown. Whilst every effort was made to clear all ACMs off-site, it is understood that buried services / structures may be present outside unsurveyed areas and, at the time, were potentially obscured by thick vegetation. Therefore, it cannot be guaranteed that the site is free of all ACMs and pockets may still exist.

Following the clearance works, Owen Pell undertook flood alleviation works across the site in 2012. The works included excavating the existing pool to the northwest of the Shell Store building and placing the excavated soils across the site to build up the ground levels. It is understood that soils excavated from the Yazor Brook Flood Alleviation works, conducted around the same time, were also placed on-site. An e-mail and information from Owen Pell's website relating to these works are included in Appendix D.

The original flood alleviation works are referred to in the Peter Brett MMP. This document also indicates that soils removed as part of the earlier clearance works and left over from the flood alleviation works were stockpiled in the southeast corner of the site. Over the infilled former pond. The stockpile (identified as Mound A) was estimated to be 200m long and comprise 36,000m^3 of soil. Chemical analysis indicated that the stockpile was relatively free of significant chemical contamination but did contain elevated quantities of asbestos. The MMP indicated that the stockpile soils would be removed off-site for placement elsewhere on the Skylon Park development. However, before being removed these soils would require treatment in the form of hand picking to removed visible asbestos fragments. It is understood that treatment and removal of this soil stockpile off-site was undertaken by Wye Valley Demolition Ltd between 2018 and 2020.

The earliest Google Earth images showing the site and surrounding area, dated between December 2001 and December 2006, show the site and surrounding area as disused and overgrown with trees and thick vegetation. Traces of the old roadways serving the blast walls, remaining blast walls and the former munitions barn floor slab are also visible. The outline to the former perimeter railway can also be made out. The existing sewage works is shown to the east of the site and accessed via Fir Tree Lane and the Thorn Industrial Estate can be seen to the south.

Images dated July and December 2009 show the southeast parts of the site cleared of vegetation and several structures within the eastern part of the site, and the munitions barn slab are exposed.

Images dated April to July 2017 show the site cleared of vegetation with several tracks crossing it. Blast walls and other structures on earlier images are no longer shown but the blast walls beyond northeast site periphery are just visible. A long tear-drop shaped grass covered area is shown along the eastern site periphery that is anticipated to correspond with the soil stockpile referred to in the Peter Brett MMP. Skylon View and the access road to the Shell Store are shown along the southwest site boundary and the existing access leading onto the site. The Skylon Bunds are shown along the southwest and northwest site perimeters. The large pool located to the northwest of the Shell Store building is also shown.

Images dated September 2018 to May 2020 show the existing topsoil stockpile for the Shell Store on the Munitions Barn floor slab, which is also being used for parking. The site generally looks as it currently appears with clearance / regrading works going on across the eastern half and several stockpiles across it. The image for 2018 shows works commencing to clear the stockpile on the eastern periphery. The stockpile being much reduced in size on the image dated May 2020.

2.5 Proposed Development

It is proposed to divide the site into several plots (Plots 1 to 12) and develop each individually for commercial / light industrial use with associated access and parking. It is understood that in order to aid with future on-site drainage, the preliminary site works will include raising existing sitewide ground levels by approximately 1.00m to 1.50m. The proposed layout for Plots 1 to 12 has yet to be finalised.

A plan showing the proposed plot locations is included in Appendix A.

2.6 Geology

Published geological and topographic information indicates the site to be situated within relatively flat, low-lying ground on the southern edge of the Wye Valley.

The BGS map (Sheet 215: Ross-on-Wye, solid and drift) shows the site to be immediately underlain by superficial Primary River Terrace Deposits forming the River Wye floodplain. These deposits are generally described by the BGS Lexicon as comprising 'sand and gravel, locally with lenses of silt, clay or peat'. A broad strip and area of Alluvial Deposits associated with the River Wye are shown approximately 120m north and 400m west of the site.

The presence of Made Ground on-site is not shown on the BGS map. However, given the site and surrounding area's historical use and third-party information Made Ground is known to be present.

The bedrock geology underlying these superficial deposits is shown as the Raglan Mudstone Formation, which is borderline Silurian / Devonian in age. This stratum is likely to have been derived from cyclic deposition over deltaic mudflats at the mouth of a river with periodic marine inundations. It is generally described by the BGS as 'Sandstones, generally silty or argillaceous, fine- to medium-grained, bright orange-red to dark brick-red, with subordinate siltstone and mudstone; pebbles rare'.

Numerous historical BGS borehole records are located between 10m and 370m east of the site. For the nearest records encountered, ground conditions included a thin topsoil layer, typically

0.10m thick, overlying superficial River Terrace Deposits and Raglan Mudstone Formation bedrock. The River Terrace Deposits included clay rich soils overlying granular soils. The clay rich soils, generally described as soft to stiff brown silty and sandy clay, were recorded to between 0.91m and 3.35m depth. The underlying granular deposits, generally described as sand or gravel with varying quantities of sand and clay, were recorded to between 5.13m and 6.99m depth. The underlying Raglan Mudstone Formation bedrock was generally described as dark brown, grey, and maroon micaceous mudstone, sandstone, and shale. This stratum, 2.60m was recorded to the maximum depth of the boreholes at 9.70m. Groundwater was recorded at between 2.20m and 2.60m depth associated with the granular River Terrace Deposits.

There are no recorded faults or other major geological structures present on-site or within 250m of the site.

A summary of the geological information presented within the Envirocheck Report is included in Appendix E.

2.7 Hydrogeology

A summary of the hydrogeological, hydrological, and environmental information for the site is contained within the Envirocheck Report included in Appendix F.

The site is situated on the southern edge of the Wye Valley floodplain. Ground elevations rising gently towards the south prior to rising sharply at Dinedor Hill. Based on the local hydrological conditions, topography of the area and published geological information it is anticipated that shallow / perched groundwater maybe present associated with the granular River Terrace Deposits. Otherwise groundwater is anticipated to occur at depth, flow towards the north and east in hydraulic continuity with the River Wye and is likely to be subjected to seasonal fluctuations.

Both the underlying superficial River Terrace Deposits and the Raglan Mudstone Bedrock have been classed by the Environment Agency as Secondary A Aquifers.

The site is not located within a Groundwater Source Protection Zone (SPZ).

There are no recorded groundwater abstraction entries within 250m of the site.

The underlying River Terrace Deposits are identified as being a high vulnerability, secondary aquifer. This is to be anticipated given their predominantly granular nature and, therefore, likely high permeability

2.8 Hydrology

The site is relatively flat and low lying with exterior areas generally comprising vegetated / bare ground. It is anticipated that drainage will be generally directed straight into the ground.

During the site walkover it was observed that a large pool had formed and become naturally vegetated at the toe of Skylon Bund – Northern Bund No.3. It is understood that this will remain intact as part of the proposed development. The nearest recorded surface water feature is the large pool situated approximately 100m northwest of the site and adjacent to the Shell Store

building. The River Wye is the nearest water course flowing eastwards approximately 370m north of the site.

There are no recorded surface water discharge consents or licensed surface water abstraction entries within or within 250m of the site.

Most of the site is identified as being located within an area designated by the Environment Agency as Flood Zone 1 and Flood Zone 2 (https://flood-map-for-planning.service.gov.uk). That is land and property with a low to medium potential risk from flooding. However, the northeast periphery is shown to be within a Flood Zone 3 designated area where there is a high potential risk from flooding.

Owen Pell undertook flood alleviation works, on behalf of Amey, across the North Magazine and adjacent Shell Store site in 2012. These works included excavating the pond to the northwest of the Shell Store building and elevating on-site ground levels using the soils from the pond. It should be noted that during the 2020 floods, the site was unaffected. It is understood that in for future drainage purposes, existing ground levels will be raised which will also help to protect the site from flooding.

2.9 Mining and Mineral Extraction

The site is not located within an area likely to have been affected by coal mining and there are no mineral extraction entries recorded either on-site or within 250m of the site.

2.10 Ground Stability

The potential risk for the site to be impacted by shrinking or swelling clays, ground dissolution, compressible ground is recorded as no hazard. For landslides, collapsible ground and running sands the recorded risk is very low.

2.11 Radon

The site is situated within a lower probability radon area (where less than 1% of homes are estimated to be at or above the action Level). Therefore, no radon protection measures are required in the construction of new dwellings or extensions.

2.12 Soil Geochemistry

The site is situated within an area where elevated natural background concentration of metals have been recorded for chromium (60 – 90 mg/kg) and nickel (15 – 30 mg/kg).

2.13 Landfills and Infilled Land

No entries for historical or registered landfill sites are recorded on-site or within 250m of the site.

Two licensed waste management facility entries are recorded within 250m of the site. The nearest is located 35m southeast and associated with a waste reclamation centre operated by Beacon Waste, the status of which is shown as surrendered since 9th July 2012. The second entry is

located 141m east and associated with Quickskip Hereford Limited, the status of which is given as issued.

A single entry for potentially infilled land (water) is recorded on site and a single entry is recorded within 250m of the site. The on-site entry is for unknown filled ground (Pond, marsh, river, stream, dock etc), which was last mapped in 1964. Included maps indicate that this entry is associated with the former large pond located within the south-eastern site corner and shown on historical maps dated 1928 to 1985. The second entry is for unknown filled ground (Pond, marsh, river, stream, dock etc) last mapped in 1890 and located approximately 94m southeast of the site. This entry coincides with the former elongate fishpond shown on historical maps dated 1886 onwards.

Two registered waste transfer site entries are recorded within 250m of the site. Both records are for the same entry located 60m to the southeast on Fir tree Lane and associated with Beacon Waste Ltd and Hereford and Worcester CC. Authorised waste includes bulky household waste, empty waste oil containers, liquid propane gas cylinders, oil contaminated materials, scrap batteries, unwanted household chemicals – pharmaceuticals, cosmetics and trade-named, and waste oil. The status given is operational as far as known / operational. Given the nature of the waste handled it is considered unlikely that it would impact on the proposed development.

2.14 Contemporary Trade Directories and Fuel Sites

There are 25 recorded contemporary trade directory entries within 250m of the site, of which ten are identified as being active and 15 as inactive. The contemporary trade directory entries identified and their distance / direction from the site are presented in the following table:

Trade Entry	Distance / Direction from the Site
Active Entries:	
Commercial Vehicle Repairs - Commercial Vehicle Servicing, Repairs, Parts & Accessories	107m S
Ski Tyres - Tyre Dealers	152m S
The Sash Restoration Co Hereford Ltd - Window Frame Manufacturers	138m SW
Bishop & Smith - Stainless Steel Manufacturers	198m W
R S S A C Ltd - Refrigeration Equipment - Commercial	211m W
Hereford Rewinds Ltd - Engine Rebuilding & Reconditioning	223m SW
West Mercia Air Conditioning Ltd - Air Conditioning & Refrigeration Contractors	233m W
West Mercian Lifting Specialists Ltd - Lifting Equipment	237m W
H F T Forklifts - Fork Lift Trucks	243m S
Mike Brooks Transport Ltd - Road Haulage Services	245m W
Inactive Entries:	
Hereford Powder Coating - Powder Coatings	53m E
C S C S - Blast Cleaning	53m E
Severn Waste Services - Waste Disposal Services	82m S
A C L Sheet Metal Ltd - Sheet Metal Work	92m S
Arrowmight - Metal Products - Fabricated	103m S

Modular Systems & Developments - Laboratory Equipment	107m S
Jj'S Motorcycles Mot Station - Mot Testing Centres	110m S
Polyford (Plastics) Ltd - Polythene & Plastic Sheeting Supplies	152m S
G P J - Sheet Metal Work	213m SW
Mike Brookes Transport Ltd - Road Haulage Services	233m W
D & T Engineering Ltd - Aluminium Fabricators	237m W
Priority Technical Services Ltd - Tool Design, Manufacturers & Makers	248m SW
Brewery Plastics Ltd - Brewery Supplies	250m S
Money For Scrap Cars Vans Hereford - Salvage Dealers	250m S

There are no recorded fuel station entries within 250m of the site.

By their nature these entries are likely to use potentially contaminative substances as part of their on-site operations that could potentially be subjected to leakages and spillages. However, any spills and leaks are likely to be small scale and localised. Therefore, given their distance from the site it is considered unlikely that these entries would pose a risk to the proposed development.

2.15 Registered Hazardous Sites

A single registered hazardous sites entry is recorded within 250m of the site. Associated with North Site on Fir Tree Lane the entry is situated approximately 18m southeast of the site and recorded as an explosive site. The entry status is given as not active.

2.16 Pollution Incidents to Controlled Waters

There are two recorded pollution incidents to controlled water entries within 250m of the site. The entries are located 9m and 13m southeast and associated with Polyford Plastics and Confluence With, Down Ditch, respectively. The pollutant for both entries is unknown, the receiving water not given, and the incident severity is Category 3 – Minor Incident.

2.17 Ecologically Sensitive Land Uses

There are no recorded ecologically sensitive land-use entries either on-site or within 250m of the site.

2.18 Unexploded Ordnance

According to the ZeticaUXO website (https://zeticauxo.com) the site is located within an area identified as a Luftwaffe Target. However, it is recorded as being at low risk (15 bombs per 1000 acres or less) from unexploded ordnance.

According to the Conservation Statement (July 2013), the southern section of the munition's factory suffered serious damage following a bombing raid in 1942. However, the northern section of the facility that includes the site remained untouched.

2.19 Previous Investigations

Two previous intrusive investigations have been undertaken for the site itself and several within the surrounding area, including the Shell Store, Plot N24 and Plot N26). The two investigations most pertinent to the site were undertaken by Geotechnics Limited, in November / December 2012, and EMS in February 2020. The findings were presented in a ground investigation and letter report that should be read in conjunction with this report and are referenced as:

- 'Soil Contamination and Concrete Investigation: Hereford Enterprise Zone – Plot N1, Munitions Barn Slab, Rotherwas Industrial Estate, Hereford HR2 6JT', EMS Letter Report E16889, dated 26th March 2020.

- 'Ground Investigation at North Magazine Site, Rotherwas' Factual and Interpretative Report, Geotechnics Project Number: PC125103, dated February 2013.

2.19.1 EMS Hereford Enterprise Zone – Plot N1, Munitions Barn Slab Soil Contamination and Concrete Investigation February 2020.

Localized investigation works for the munitions barn floor slab were undertaken by EMS between 12th and 13th February 2020.

The investigation works included 6No. trial pits (TP01 to TP06) using a mechanical excavator, to between 1.90m and 3.10m depth, around the floor slab and 6 No. concrete cores from the floor slab itself. During excavation of the trial pits soil samples were collected for logging purposes and laboratory analysis.

Encountered ground conditions included a Made Ground / Made Ground Topsoil cover, to between 0.85m and 2.20m depth, overlying clay rich and granular River Terrace Deposits. The Made Ground / Made Ground Topsoil was generally described as soft brown and dark brown gravelly clay and clayey / silty gravel, which also included brick, concrete, plastic liner, linoleum, a metal wheel / coil, plant remains, wood, clinker, fabric, coal, cement, metal and pipe fragments, tiles and bottles. The underlying clay rich River Terrace Deposits, encountered to between 1.90m and 3.10m depth, were generally described as soft light brown gravelly clay. The underlying granular River Terrace Deposits were generally described as reddish brown very sandy gravel and encountered to the full investigation depth at 3.10m. The underlying Raglan Mudstone bedrock and groundwater were not encountered during the investigation works.

Five selected Made Ground samples were subjected to chemical analysis for heavy metals, total cyanide, phenols, organic matter content, water soluble, sulphate, total sulphate, total sulphur and pH, speciated polycyclic aromatic, hydrocarbons (PAH), banded total petroleum hydrocarbons (TPH) and asbestos in soils / quantification, explosive compounds and chemical warfare agents (CWAs).

During the investigation works no significant heavy metal, inorganic, hydrocarbon, explosive compounds or CWA concentrations were recorded. However, moderate to large quantities of asbestos (loose Chrysotile fibres, Chrysotile and Amosite insulation and Chrysotile cement), between 0.052% wt/wt and 0.121% wt/wt were recorded in three Made Ground samples.

Extracts of the Plot N1 Munitions Barn investigation works, including an exploratory hole location plan, logs and chemical analytical results are included in Appendix G.

2.19.2 Geotechnics Ltd North Magazine Site, Rotherwas Ground Investigation February 2013.

Geotechnics Ltd undertook sitewide ground investigation works between 26th November and 13th December 2012. The investigation included 14 No. deep boreholes (BH1 to BH13 and BH13A) using cable percussion and rotary methods. It should be noted that four boreholes were undertaken on next door sites that included Plot N24 (BH1 and BH2) and Plot N26 (BH11 and BH12). The boreholes undertaken on-site were sunk to between 15.07m and 20.46m depth. During drilling samples were taken for logging purposes and laboratory chemical analysis and geotechnical testing. Upon completion, four boreholes (BH3, BH5, BH8 and BH9) were installed with groundwater and ground gas monitoring standpipes to between 6.00m and 20.30m depth. All other boreholes on-site were backfilled with arisings on completion.

Encountered ground conditions included a general site wide Made Ground cover overlying clay rich and granular superficial River Terrace Deposits. In boreholes BH3 to BH10 recorded sitewide Made Ground depths were between 1.20m and 3.00m. This material generally being described as firm brown sandy gravelly clay, clayey / silty sandy gravel, and gravelly sand with occasional fine gravel size organic pockets. The Made Ground also included roots, rootlets, brick, concrete, and clinker.

In boreholes BH13 and BH13A, Made Ground described as soft and firm brown mottled reddish and blackish brown sandy gravelly clay and clayey sandy gravel was encountered to 5.30m depth. This material also included brick, concrete, coal, plastic, wood, and glass fragments and coincides with the former pond within the south-eastern site corner was located. Underlying the Made Ground in boreholes BH5 and BH8, to between 1.65m and 1.80m depth, soils described as firm brown occasionally dark brown and black silty and slightly sandy slightly gravelly clay were encountered. These soils also contained roots and rootlets and are anticipated to represent a buried Topsoil layer, which would be anticipated where site levels were built up as part of the flood alleviation works.

Underlying the Made Ground and Buried Topsoil in boreholes BH5, BH9 and BH10, superficial clay rich River Terrace Deposits were encountered to between 1.90m and 3.00m depth. These deposits were generally described as firm to stiff dark brown and brown mottled greenish grey silty and sandy slightly gravelly clay. Granular River Terrace Deposits were encountered underlying the clay rich deposits and the Made Ground (BH13A) to between 5.80m and 7.00m depth. These deposits were generally described as dense grey and brown slightly clayey sandy to very sandy gravel.

Underlying the River Terrace Deposits, clay rich strata belonging to the Raglan Mudstone Formation bedrock was encountered to the maximum 20.46m borehole depth in boreholes BH3 to BH10 and BH13A. This stratum was generally described as Stiff reddish brown and light greenish grey clay with occasional lithorelicts grading into extremely weak to weak reddish brown mudstone.

Groundwater was encountered in boreholes BH5, BH6, BH8 and BH10 between 2.30m and 6.70m depth associated with the granular River Terrace Deposits. In boreholes BH13 and

BH13A, ground was recorded at 3.80m depth and associated with the Made Ground. Recorded groundwater depths during four follow-on monitoring visits of boreholes BH3, BH5, BH8 and BH9, were between 1.13m and 2.83m, associated with the Made Ground. Groundwater is likely to seasonally fluctuate with the River Wye and it is noted that levels were recorded during December and January when higher rainfall and river levels are likely. The report recommends that further monitoring is undertaken in order to better assess the long-term variation in groundwater levels across the site.

Selected Made Ground samples from eight on-site boreholes (BH3 to BH10) and a Made Ground sample from BH13 were subjected to laboratory chemical analysis. The chemicals analyzed for included heavy metals, including manganese and vanadium, organic matter, total organic carbon, pH, polycyclic aromatic hydrocarbons (PAH), extractable petroleum hydrocarbons (EPH), phenols and asbestos. The results were compared to in-house soil guideline values (SGVs) for an industrial land use.

The results indicating that, with the exception of Chromium VI, no excessively elevated concentrations were recorded above their respective SGVs. A single Chromium VI result (BH4 at 1.00m depth) recorded an elevated concentration (36 mg/kg) that just exceeded the SGV of 35 mg/kg. No asbestos was reported within the samples analyzed. However, given what is known about this and neighbouring sites, where elevated metal concentrations and asbestos have been recorded, it is considered questionable how representative these results are. It is also noted that no analysis was undertaken for explosive compounds or CWAs.

On-site boreholes BH3 to BH10 were monitored for ground gas (methane and carbon dioxide) on four occasions between 12th December 2012 and 11th January 2013. No elevated methane concentrations were recorded over the monitoring period and carbon dioxide varied between 0.1% and 1.6%. Recorded flow rates varied between 0.0 l/hr and 12.7 l/hr giving calculated Gas Screening Values (GSVs) equal to 0.000 l/hr (methane) and from 0.000 l/hr to 0.1270 l/hr (carbon dioxide). The recorded values corresponding to a very low to low gas risk and a Characteristic Gas Situation generally of CS1. However, for the highest carbon dioxide GSV (0.1270 l/hr) a characteristic situation of CS2 would be considered more appropriate. The report concluded that as no ground gas concentrations were above the threshold values for methane (1%) and carbon dioxide (5%) a characteristic situation of CS1 was appropriate for the site and no gas remediation would be required.

However, the report indicates a lack of permanently consistent flows over time and that monitoring was undertake at times of no significant atmospheric pressure drop below 1000mb. This combined with the time of year that monitoring was undertaken, and that the monitoring period was very short introduces a degree of uncertainty to the gas regime and the resulting building protection conclusions. It is also noted that the wells monitored are located within the central parts of the site and none are within the vicinity of the former pond located within the southeast corner.

Extracts of the Geotechnics Ltd North Magazine site investigation works, including an exploratory hole location plan, logs and chemical analytical results are included in Appendix H.

2.19.3 Plots N24, N26 and the Hereford Shell Store

Several investigations have been undertaken for Plots N24, N26 and the Shell Store situated immediately south and northwest of the site by EMS and third parties. These findings of these investigations were presented in separate individual reports that should be read in conjunction with this report, referenced as:

- 'Phase 2 Geo-Environmental Site Investigation Report: Hereford Enterprise Zone – Plot N24, Rotherwas Industrial Estate, Hereford HR2 6ST', EMS Report E16284-SI, dated 27th April 2020.
- 'Additional Contamination Investigation and Ground Gas Assessment – Hereford Enterprise Zone, Plot N24. Rev 1', EMS Letter Report E16284, dated 16th July 2020.
- 'Phase 2 Contamination Site Investigation Report: Hereford Enterprise Zone – Plot N26, Festival Way, Rotherwas, Hereford HR2 6ST', EMS Report E14453-SI, dated 9th March 2020.
- 'Phase 2 Contamination Site Investigation Report, Hereford Shell Store, Rotherwas Industrial Estate, Hereford HR2 6JT', EMS ref E12402-SI, dated 14th August 2019.
- 'Hereford Shell Store, Rotherwas Industrial Estate, Hereford HR2 6JT, Made Ground and Asbestos Investigation', EMS Letter Report ref E12402, dated 20th February 2019.
- 'Additional Site Investigation and Revised Contamination Risk Assessment - Hereford Shell Store, Rotherwas, Hereford HR2 6JT', EMS Letter Report ref E12402, dated 11th December 2019.

The intrusive investigation works generally included machine excavated trial pits, windowless sample boreholes and deep boreholes using cable percussion and rotary techniques. Soil samples were collected for logging purposes and laboratory geotechnical testing and chemical analysis. Upon completion selected boreholes were installed with groundwater and ground gas monitoring standpipes. All other exploratory holes were backfilled with arisings on completion.

During the investigation works the encountered ground conditions include a variable Topsoil / Made Ground Topsoil and Made Ground cover to between 0.10m and 2.80m depth overlying clay rich and granular River Terrace Deposits. The clay rich River Terrace Deposits were generally encountered to between 0.30m and 3.00m. The base of the granular deposits was encountered in deep boreholes on Plot N24 only at 6.05m depth. The underlying Raglan Mudstone Bedrock was also encountered in deep boreholes on Plot N24 to the maximum depth of the investigation works at 15.70m. Groundwater was recorded at between 1.85m and 4.85m depth and associated with the granular River Terrace Deposits.

Selected Made Ground samples from each site were subjected to laboratory chemical analysis, which included heavy metals, various inorganic compounds (total cyanide, phenols, organic matter content, water soluble, sulphate, total sulphate, total sulphur and pH), speciated PAH, banded TPH and asbestos in soils / quantification. Chemical analysis also included explosive compounds and chemical warfare agents (CWAs).

For the Made Ground samples analyzed, elevated lead concentrations were recorded on the Shell Store site and very low asbestos levels were recorded on the Shell Store and plot N24 sites. Explosive residual concentrations for Picric Acid, TNT and Tetryl were also recorded for the Shell Store site. No elevated inorganic compounds, PAH, TPH of CWAs were recorded for the Made Ground samples analyzed from these three sites. Apart from a groundwater sample taken on Plot N24 (BH02) where elevated TPH (hydrocarbon chains C12 to C16) was recorded, no other chemical contamination was recorded for these three sites.

Ground gas monitoring results showed no elevated methane concentrations for Plot N26 and a maximum concentration of 0.1% for Plot N24. Measured carbon dioxide concentrations ranged from 0.1% to 6.4% (Plot N24) and 5.2 % to 11.3% (Plot N26). Flow rates ranged from -0.1 l/hr and 0.1 l/hr (Plot N24) and -0.1 l/hr and 4.0 l/hr (Plot N26). Calculated Gas Screening Values were 0.000 l/hr for methane on both sites and ranged from 0.000 l/hr to 0.004 l/hr (Plot N24) and from -0.005 l/hr to 0.032 l/hr (Plot N26). The results corresponding to a very low to low gas risk and Characteristic Gas Situation of CS1. However, given that recorded carbon dioxide concentrations exceeded the 5% threshold limit it was considered that the Characteristic Gas Situation should be raised to CS2.

3. Preliminary Contamination Risk Assessment

The methodology for undertaking the contamination risk assessment is included within the supplementary information at the back of this report.

3.1 Potential Contamination Sources

3.1.1 Invalid Sources

Several temporary soil stockpiles and a stockpile of cleared tress were observed during the site walkover. It is understood that these are either being stored ready for re-use elsewhere on the ongoing Skylon Park development or will be removed as part of preliminary site works.

Several active contemporary trade entries have been identified within 250m of the site that may act as potential contaminative sources. However, given that any contamination is likely to be relatively small scale and localised combined with their location and distance from the site, they are not considered to pose a significant risk to the proposed development.

The Skylon bunds delineating the southwest, northwest, and northern site peripheries contain soils from elsewhere on the Rotherwas Industrial Estate. These soils contain very low quantities of asbestos. In order to prevent these soils becoming mobile within the wider environment, the bunds have been remediated with an engineered cap comprising and orange marker membrane and 300mm of clean soils. Therefore, it is considered that the potential for these soils to pose a risk to the proposed development is very low.

3.1.2 On-site Sources

Historically the site and surrounding area formed part of the Lyddite factory within the northern part of the Hereford ROF munitions facility. On-site operations included filling artillery shells, initially with picric acid (or 2,4,6 trinitrophenol) and later mustard gas (dichloroethyl sulphide), in melting and filling sheds contained within pairs of blast walls. Historical daily operations are also likely to have used and stored fuels, solvents, lubricants and other unknown chemicals, which may have been the subject of leaks and spillages, although potentially small scale and localised. Such potential contaminants may be sources of heavy metals, Polycyclic Aromatic Hydrocarbons (PAHs) and Petroleum Hydrocarbons that could have impacted shallow and near surface soils.

The factory complex ceased operating in 1967. Historical buildings and structures were cleared from the site in 2011 and on-site ground levels elevated as a part of flood alleviation works in 2012. Previous investigation works in 2013 and around the munitions barn floor slab indicate that Made Ground and potentially buried topsoil is still present on-site from the time when the factory was in operation. Within the site's southeast corner is a former infilled pond. Made Ground and buried Topsoil from when the factory was operating may have been impacted by spilled or leaked chemicals and substances used as part of the factory's daily operations. Therefore, it is considered that these soils could potentially act as contaminant source of heavy metals, inorganic compounds, PAHs and Petroleum Hydrocarbons, asbestos, explosive compounds, and / or chemical warfare agents (CWAs).

The melting and filling sheds were serviced by a network of roadways and buried pipelines that carried hot steam. The roadways were covered with a bituminous layer that contained asbestos to prevent sparking from the trolleys used to carry shells between the sheds. Asbestos lagging was also used around the pipelines for insulation purposes. ACMs also served many purposes within various buildings and bunkers on-site. Clearance works were conducted between 2008 and 2011 to remove old buildings, structures and asbestos associated with the former factory, off-site. However, it cannot be fully guaranteed that all ACMs were removed, and asbestos may occur as pockets, fibres and other microscopic particles on-site. Potentially ACMs may also have been trafficked across the site during follow-on groundworks. Sitewide fragmentary asbestos containing materials, such as cement and bituminous material, were observed at surface and associated with the stockpiled broken up concrete located within the north-eastern area of the site during recent siteworks. Low asbestos levels and ACMs have also been encountered within the Made Ground associated with the munitions barn floor slab and on neighbouring sites. Therefore, it is considered that low sitewide asbestos levels are present, which pose a variable risk across the site.

3.1.3 Off-site Sources

Historically the site formed part of the larger former Northern (Lyddite) Factory complex. However, since the former Hereford ROF facility was decommissioned most historical buildings and structures have been removed. Some contamination to near surface soils may have occurred. However, it is considered very unlikely that significant potential off-site contaminative sources associated with the former factory complex would pose a risk to the proposed development.

Previous investigation works on the adjacent Shell Store and Plot N24 sites have identified low / residual concentrations of lead, asbestos and explosive compounds in shallow Made Ground. However, as part of their ongoing development these sites are either being covered with hardstanding or remediated with an engineered cap of clean soils. Therefore, it is considered that the potential for these soils to pose a risk to the proposed development is very low.

3.1.4 Ground Gas

Historically a large pond was situated within the southeast corner of the site as shown on historical maps dated 1928 to 1985. This feature has since been infilled and boreholes undertaken during previous investigation works indicate that the infilling material includes soft and firm brown mottled reddish and blackish brown sandy gravelly clay and clayey sandy gravel that reaches up to 5.30m depth. This material also including brick, concrete, coal, plastic, wood, and glass fragments. It is unknown how much and what organic or other putrescible waste is contained with this infill material. Biodegradation of such waste means it is likely to act as a ground gas (methane and carbon dioxide) source with a low to moderate generation potential. Ground gas volumes and rates will likely be affected by the amount of organic material within the infilling material and the length of time since the last waste was deposited. According to the CIRIA C665 Guidance this is likely to reduce over time.

According to the CIRIA C665 guidance, pressure differences between the atmosphere and those in the ground will act as the main driving force to move ground gases from a source and along an identified pathway. This driving force being measured as a flow rate in l/hr. Winds crossing the ground surface can increase pressure differentials and encourage ground gas to migrate from soil to the atmosphere. Vegetation cover will reduce wind speeds across the ground surface,

therefore, reducing the likelihood of gas migrating from soils to air. Changes in atmospheric pressure will either increase emission rates (falling pressure), by increasing gas volumes due to air being removed, or reduce rates (rising pressure) by driving air into the ground and diluting gas volumes.

The CIRIA C665 guidance indicates that permeable soils, such as the granular River Terrace Deposits and fractured bedrock will form natural pathways through which ground gas can migrate. Clay rich soils and groundwater blocking pore spaces will inhibit ground gas migration. Rainfall can influence ground gas migration causing it to move laterally should the surface become saturated. Gases such as carbon dioxide are likely to be soluble in groundwater and the solubility influenced by pressure and temperature variations.

The CIRIA C665 guidance indicates that man-made constructions, such as service runs, drains, foundations and piles will also create pathways along which gases can migrate. Migrating ground gases will enter buildings through cracks and gaps in solid / suspended floors, through joints formed during construction, fractures in subsurface walls, service pipes, ducts, and wall cavities. Once inside the migrating gas can accumulate overtime in confined spaces such as inspection pits, basements, roof voids, space beneath suspended floors, settlement voids, drains, soakaways and other services. Accumulating ground gases posing a potential risk not only to end-users, but also construction workers.

Significant hazards associated with accumulating ground gases include physiological effects on human health and explosion. More minor hazards include issues associated with odours and vegetation die-back.

Physiological effects are generally influenced by gas toxicity and the degree, nature and length of exposure. Gases such as carbon dioxide that result from breaking down organic matter, or microbial methane digestion, can have toxic effects when present at high enough concentrations.

Under standard air pressures and mixtures, accumulating methane in a confined space will explode at concentrations in excess of the lower explosive limit (LEL) threshold of 5%. Air composition, i.e. oxygen volumes, temperature, pressure and the nature of the surroundings will all influence ground gas flammability.

On-site ground gas monitoring undertaken during previous investigation works recorded no elevated methane concentrations and carbon dioxide varying between 0.1% and 1.6%. Recorded flow rates varied between 0.0 l/hr and 12.7 l/hr giving calculated Gas Screening Values (GSVs) equal to 0.000 l/hr (methane) and from 0.000 l/hr to 0.1270 l/hr (carbon dioxide). However, no readings were undertaken within the vicinity of the buried pool and some doubt has been cast over the reliability of these results.

However, previous ground gas monitoring undertaken on adjacent sites (Plots N24 and N26) have recorded elevated carbon dioxide concentrations that exceed the 5% threshold limit.

Therefore, with the above in mind it is considered that there remains a potential ground gas risk to the proposed development.

3.2 Potential Receptors

The assessed land use category for the site is commercial/light industrial.

The proposed development is currently in the early stages and as yet details relating to the site layout have yet to be finalized. However, it is understood that the site will be developed for commercial / light industrial purposes with associated access and parking.

3.2.1 Human Health

The most sensitive receptors with respect to human health are likely to be:

- end-users using the completed development.
- construction workers during the site development.

Use of good hygiene practice and suitable PPE, i.e. gloves, will reduce the contamination risks posed to construction workers during development. However, fragmentary ACMs are likely to be present onsite training and adequate barrier protection,

3.2.2 Controlled Waters

The underlying River Terrace Deposits and the Raglan Mudstone Bedrock have been identified as a Secondary A Aquifer. These deposits are classed as having a high potential for leaching. Potentially groundwater occurs at shallow depths within the granular River Terrace Deposits and may be subject to seasonal fluctuations. Given investigation findings on adjacent sites and the history of this plot contaminated Made Ground is likely to be present at surface that could pose a risk to groundwater.

A naturally former pool, at the toe of the Northern Skylon Bund, is present on-site which it is anticipated will remain as part of the proposed development. Therefore, given the potential for contaminated Made Ground to be present on-site, this feature is considered the most significant surface water receptor.

3.2.3 Buildings, Buried Structures and Services

Buried water service pipes and concrete associated with building foundations will form part of the proposed development.

3.3 Potential Pathways

The following pathways should be considered as methods of transferring chemicals of concern from the source to receptors:

- Ingestion, inhalation, or direct contact with contaminated soils and dust.
- Vertical migration (leaching) of contaminants.
- Horizontal migration of contamination in surface water.

- Horizontal migration, ingress, accumulation, and inhalation of ground gas.

3.4 Preliminary Conceptual Site Model

The pollutant linkages are best presented in a diagrammatic form and therefore a preliminary conceptual site model plan is presented in Appendix A. The individual pollution linkages as numbered on the preliminary conceptual site model plan are described further in section 3.5.

The preliminary conceptual model has been developed based solely on desk-based research and assessment. The only way to conclusively determine the presence or absence of contamination is with intrusive site investigation.

3.5 Preliminary Contamination Risk Assessment

The following table identifies the potential risks that exist to the receptors through each of the identified pollutant linkages in the conceptual site model. It should be noted that the numbers referred to for each of the pathways refers to the numbered pollutant linkages from the Initial Conceptual Site Model Plan, as presented in Appendix A.

Potential Sources and contaminants	Pathways (Reference from Model)	Receptors	Hazard Severity	Probability of Occurrence	Potential Risk
Made Ground on-site, associated with the former Hereford ROF factory facility: Heavy metals. Inorganic compounds. Polycyclic Aromatic Hydrocarbons (PAH).	Ingestion Inhalation Direct Contact (1)	Site end-users. and Construction Workers.	Human health effects. [Medium]	Low probability of contaminants being present within Made Ground at concentrations that could cause significant harm to human health. Employing good hygiene practice, wearing suitable PPE and precautions during construction. [Likely]	Moderate.

Potential Sources and contaminants	Pathways (Reference from Model)	Receptors	Hazard Severity	Probability of Occurrence	Potential Risk
Petroleum hydrocarbons. Acids / Alkalis. Explosive Compounds & Chemical Warfare Agents.	Vertical migration (leaching) (2)	Groundwater within the underlying granular River Terrace Deposits.	Secondary A Aquifer [Medium]	Contaminants unlikely to be in a leachable form. Clay rich superficial layers and potentially hardstanding likely to impeded contaminant migration. [Low likelihood]	Moderate / Low.
	Horizontal migration (3)	Surface water features.	On-site surface water features. [Mild]	Contaminants unlikely to be at significant concentrations. [Low likelihood]	Low.
	Direct Contact (4)	Buildings, Buried Structures and Services.	Explosion, chemical attack of buried structures and tainted water supplies. [Mild]	Contaminants unlikely to be at significant concentrations. [Low likelihood]	Low.
Asbestos Containing Materials at surface and within underlying Made Ground.	Ingestion Inhalation Direct Contact (5)	Site end-users. and Construction Workers.	Human health effects. [Medium]	Low levels of ACMs likely to be present in Made Ground sitewide. [Likely to High]	Moderate to High.

Potential Sources and contaminants	Pathways (Reference from Model)	Receptors	Hazard Severity	Probability of Occurrence	Potential Risk
Infilled large pond within southeast corner of the site and degassing on-site soils. Ground Gas (Methane / Carbon Dioxide)	Vertical and Horizontal migration, Ingress & Accumulation. Inhalation (6)	Site end-users and Construction Workers.	Human health effects. [Medium]	Potential for ground gases associated with the infilled pond and on-site soils to migrate and ingress / accumulate in buildings via foundations / services. [Likely]	Moderate.
	Vertical and Horizontal migration, Ingress & Accumulation. (7)	Proposed Buildings and Structures.	Structural damage from explosions caused by build-up of ground gas. [Mild]	Potential for ground gases associated with the nearby infilled pond to migrate through the granular River Terrace Deposits and ingress / accumulate in buildings via foundations / services. [Likely]	Moderate / Low.

3.6 Recommendations

A potentially moderate / low risk has been highlighted from this assessment associated with the presence of contaminated Made Ground from the historical use of the site as part of the former Hereford ROF facility. A variably moderate to high risk has also been identified towards human health, particularly construction workers, from low asbestos levels on-site. A potentially moderate / low risk for ground gases has been identified for the North Magazine site, potentially associated with the infilled pond located within the south-eastern site corner.

Therefore, it is considered that Phase 2 Intrusive investigation works are required in order to better assess the presence, nature, and contamination potential of historical on-site Made Ground and

ACMs. Intrusive works will also aid with a better assessment of the ground gas risk and refine the preliminary contamination risk assessment.

It is recommended that this desk study report is passed to the relevant Environmental Health Department for comment as soon as possible.

4. Preliminary Geotechnical Assessment

4.1 Geotechnical Considerations

Several potential geotechnical hazards have been identified that are likely to have an impact upon the proposed development, including:

- The potential for sitewide disturbed ground associated with the removal of historical buried / on-site structures.
- Potentially deep Made Ground is anticipated particularly within the area of the infilled pond located within the south-eastern corner of the site, which is likely to vary in strength and nature.
- The upper clay rich River Terrace Deposits could be low bearing and may be subject to moisture content fluctuations resulting in shrinkage and swelling.
- The granular River Terrace Deposits are likely to include seasonally fluctuating shallow groundwater.
- Variations in soil type, i.e. clay rich to granular, over short distances could potentially lead to differential settlements when loaded.
- Aggressive chemical environments for concrete e.g. high sulphate soils, may affect the design and construction of sub-surface structures.

4.2 Preliminary Assessment of Geotechnical Risks

The design and construction of shallow foundations at this site is likely to be complicated due to disturbed ground, potentially deep Made Ground; compressible soils; variations of soil type, i.e. clay rich to granular and shallow groundwater. Aggressive ground conditions may also lead to the attack of buried concrete. Foundation design will also depend on how much existing ground levels are raised as part of drainage works. Where geotechnical constraints complicate foundation design and construction, consideration will be required to adopting a deep solution such as ground improvement or piles. It is anticipated that ground conditions are likely to vary across the site and, therefore, it is recommended that foundation designs are considered on a plot-by-plot basis.

Given the potential for contaminated and deep Made Ground, potentially clay rich superficial deposits and shallow groundwater at the site, soakaways are not considered feasible.

Therefore, it is recommended that an intrusive ground investigation is undertaken in order to confirm the nature and extent of the underlying ground conditions and to aid with foundation design for the proposed structures. Intrusive ground investigation works have been undertaken by EMS and the results will be reported separately.

4.3 Construction Considerations

As with any construction site, if any anomalous or asbestos containing material is encountered during the redevelopment then expert environmental advice should be sought.

Historically ACMs have been used across the site associated with the former factory and clearance works to remove these materials were undertaken between 2008 and 2011. However, it cannot be guaranteed that all ACMs were removed off-site and pockets, fibres and fragments are likely to remain in on-site soils all be it at relatively low levels. Fragmentary ACMs have also been observed at surface across the site. Where present ACMS are most likely to pose a variable moderate to high risk to construction and maintenance depending on the friability of ACM discovered and the nature of the planned work activities. It is recommended that the quantity, type and form of asbestos present is evaluated and tested on a plot-by-plot basis.

During the development construction contractors will need to allow for dealing with asbestos impacted soils within their health and safety documents and incorporate appropriate measures for dealing with it accordingly.

References

- British Geological Survey sheet 215 "Ross-on-Wye" Solid and Drift edition (1:50,000) published 2000.
- Gifford and Partners, 'Rotherwas Royal Ordnance Factory Management Study,' Volumes 1 and 2, Document No. B2664.R02 Rev B, dated April 2000.
- 'North Site, Rotherwas, Hereford, Asbestos Sampling', Letter Report, EMS 2027, dated 20th August 2009.
- 'Rotherwas Futures, North Site, Hereford, Asbestos Investigation – Blast Walls 1 – 5', Letter Report, EMS 2049, dated 24th September 2009.
- 'Rotherwas Futures, North Site, Hereford, Asbestos Walk Over Survey – Blast Walls 6 - 14, Letter Report', EMS 2049, dated 24th September 2009.
- 'Type 3 Asbestos Survey of Blast Walls 1 - 19 Rotherwas Futures, Hereford', EMS 2050, dated October 2009.
- 'Demolition Asbestos Survey of 13 Specified Buildings at Rotherwas North Site, Hereford', EMS 3035, dated July 2011.
- 'Demolition Asbestos Survey of Rotherwas North Site, Hereford', EMS 3132, dated October 2011.
- 'Demolition Asbestos Survey of Bunker at Rotherwas North Site, Hereford', EMS 3204, dated November 2011.
- JS Conservation Management & Town Planning, 'Conservation Statement: Northern Shell Store, Former Munitions Factory, Hereford', dated July 2013.
- Amey, 'Rotherwas Flood Alleviation Scheme, Munitions Shell Store – Structural Appraisal Report', Document reference: 551564-RP-0001 Revision 1 – Final, dated 01 February 2013.
- CL:AIRE, 'CAR-SOIL Control of Asbestos Regulations 2016, Interpretation for Managing and Working with Asbestos in Soil and Construction and Demolition Materials: Industry Guidance'. 2016.
- Peter Brett Associates, 'N3 Spoil Heap, Skylon Park, Hereford Enterprise Zone (Former Rotherwas ROF) Materials Management Plan', Doc Reference 31077/3503 MMP Rev 02 (Issue 03), dated November 2017.
- 'Soil Contamination and Concrete Investigation: Hereford Enterprise Zone – Plot N1, Munitions Barn Slab, Rotherwas Industrial Estate, Hereford HR2 6JT', EMS Letter Report E16889, dated 26th March 2020.

- 'Additional Contamination Investigation and Ground Gas Assessment – Hereford Enterprise Zone, Plot N24. Rev 1', EMS Letter Report E16284, dated 16th July 2020.
- 'Phase 2 Geo-Environmental Site Investigation Report: Hereford Enterprise Zone – Plot N24, Rotherwas Industrial Estate, Hereford HR2 6ST', EMS Report E16284-SI, dated 27th April 2020.
- 'Phase 2 Contamination Site Investigation Report: Hereford Enterprise Zone – Plot N26, Festival Way, Rotherwas, Hereford HR2 6ST', EMS Report E14453-SI, dated 9th March 2020.
- 'Hereford Shell Store, Rotherwas Industrial Estate, Hereford HR2 6JT, Made Ground and Asbestos Investigation', EMS Letter Report E12402, dated 20th February 2019.
- 'Phase 2 Contamination Investigation Report Hereford Shell Store, Rotherwas Industrial Estate, Hereford', EMS Report E12402, dated 14th August 2019.
- 'Additional Site Investigation and Revised Contamination Risk Assessment - Hereford Shell Store, Rotherwas, Hereford HR2 6JT', EMS Letter Report, EMS12402, dated 11th December 2019.

SUPPORTING INFORMATION

This section provides background details of a generic nature together with specific technical approaches adopted by EMS and details of the guidance documents that are commonly referenced in the report. The section also includes explanations of technical terms to assist non-specialist readers in understanding the Technical Report. It should be noted that not all the information within this section is necessarily applicable to this specific report.

SITE CHARACTERISTICS

The site characteristics are collated from various information sources, including but not limited to Ordnance Survey, British Geological Survey (BGS), GOV.UK / DATA.GOV.UK websites and local authorities.

EMS generally commission the Landmark Information Group to produce an Envirocheck Report for study sites and where employed this is included in the Appendices. It should be noted that some of the data provided in the Envirocheck report is not considered within EMS's interpretation for the site characteristics as it is not relevant, including:

- *Nitrate Sensitive Zones and Nitrate Vulnerable Zones are ignored as these are only applicable to agricultural activities relating to the application of manure and fertilisers to land.*
- *River Quality is ignored as at this preliminary stage of risk assessment as all surface water bodies are considered equally sensitive to contamination risks.*

In assessing site characteristics, EMS also consider the area within a surrounding 250m buffer zone extending from the site boundary.

HISTORY

Mapped History

The site history summarises the changes in use or layout of the site over time and is largely developed from a study of available Ordnance Survey maps. It should be noted that changes to the site may have occurred between the editions of the maps employed to assess the history of the site. Historical information of relevance within the 250m surrounding the site is also discussed in a separate section. The historical plans referred to in the text are generally included in an Appendix.

Aerial photography

As a minimum, current and historical aerial images of the site and surrounding areas are studied from the Google Earth program. Where additional historic aerial photographs have been purchased then these are referenced within the technical report.

Internet Searches

A simple search of the internet for relevant material relating to the use or history of the site is made. Information obtained from internet searches has been accepted as fact without

validation by EMS except for ensuring the source is reputable. It should be recognised that due to programme and budgetary constraints the search conducted may not have revealed all the information available.

GEOLOGY

The geology relating to the site is assessed using information contained within the Envirocheck report and / or reference to the relevant British Geological Survey (BGS) 1:50,000 scale sheet in Bedrock and Superficial (historically Solid and Drift) edition. Many of these geological maps are relatively old with superseded terminology and descriptions. EMS therefore employ the BGS Open Geoscience website to determine current nomenclature of strata and to assist in determining geological boundaries against current topographic features. EMS also employ BGS Regional Geology Guides to assist in understanding the geological context of the site.

Ground Stability Hazards

Ground stability hazards caused by mining, ground dissolution, landslide potential, collapsible ground and natural cavities are identified by the Envirocheck database search of records held by The Coal Authority, British Geological Survey and studies completed by Ove Arup and Peter Brett Associates.

The Envirocheck database ground stability hazard entries for compressible ground, running sands and shrinking or swelling clays are not discussed directly. This is because these hazards are very common and are considered within the preliminary geotechnical assessment where necessary.

Radon

Radon is a naturally occurring colourless and odourless gas that is radioactive. It is formed by the radioactive decay of radium which in turn is derived from the radioactive decay of uranium, both of which are minerals that can be found in many soil types. Whilst it is recognised that the air inside every house contains radon, some houses built in certain defined areas of the country might have unacceptably high concentrations and require special precautions to be taken during construction to reduce this risk.

Radon can move through cracks and fissures in the soil into the atmosphere or into dwellings via basements and/or underfloor voids. If radon enters the living space of dwellings its concentration can potentially increase and provide a risk to human health as the inhalation of the radioactive decay products of radon gas can increase the risk of developing lung cancer.

The maps contained within BRE211:2007 'Radon: guidance on protective measures for new buildings' identify areas where no radon protection measures are necessary or where higher concentrations are present that either basic or full radon protection measures are required to be fitted to all new dwellings. However, some local authorities have local bylaws, that EMS may not be aware of, that insist on radon protection to all new dwellings within their area regardless of the recommendations of the BRE211 Radon report.

Basic radon protection measures comprise incorporation of a continuous gas resistant membrane sealed at joints and around service entries into the floor construction and extended across the cavity tray.

Full radon protection measures comprise incorporating a continuous gas resistant membrane into the floor construction together with a ventilated sub-floor void through either the use of

suspended floor construction or a 'radon sump'. The membrane is sealed at joints and around service entries into the floor and extended across the cavity tray.

BRE211 should be referred to for detail on the construction of the protective measures.

HYDROGEOLOGY

Aquifer Designations

The Environment Agency's Groundwater Protection Policy uses designations that reflect the importance of aquifers in terms of groundwater as a drinking water resource, but also their role in supporting surface water flows and wetland ecosystems.

In defining groundwater vulnerability, both the superficial (drift) deposits and bedrock (solid) geology are considered separately with the following aquifer designations:

- *Principal Aquifers: These are layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale.*
- *Secondary Aquifers: These include a wide range of rock layers or drift deposits with an equally wide range of water permeability and storage. Secondary aquifers are subdivided into two types:*
    - *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.*
    - *Secondary B - predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering.*
- *Secondary Undifferentiated - has been assigned in cases where it has not been possible to attribute either category A or B to a rock type.*
- *Unproductive Strata: These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.*

Source Protection Zones

The Environment Agency (EA) has defined Source Protection Zones for groundwater sources, such as boreholes and springs, that are used for public water supply. The EA uses the zones to target pollution prevention measures and monitor the activities of potential polluters within the affected area. There are three types Source Protection Zone:

- *Zone 1(Inner Protection Zone) is the most sensitive area within which pollution could reach the borehole within 50 days. Alternatively it is defined by a minimum 50m radius around the borehole.*
- *Zone 2 (Outer Protection Zone) are defined by the area within which pollution could reach the borehole within 400 days or 25% of the total catchment area.*

- *Zone 3 (Total Catchment) are defined by the total area required to support the removal of water from the borehole.*

HYDROLOGY

Flooding

The Environment Agency has zoned England and Wales in respect of the risk from flooding from 'highly unlikely' in Zone 1 to 'likely' in Zone 3. The zones ignore the presence of flood defences or certain other manmade structures and channel improvements.

National Planning Policy Framework, Department for Communities and Local Government, dated March 2012 states "A site-specific flood risk assessment is required for proposals of 1 hectare or greater in Flood Zone 1; all proposals for new development (including minor development and change of use) in Flood Zones 2 and 3, or in an area within Flood Zone 1 which has critical drainage problems (as notified to the local planning authority by the Environment Agency); and where proposed development or a change of use to a more vulnerable class may be subject to other sources of flooding".

ENVIRONMENTAL ASPECTS

Landfill

The database of the Environment Agency of active and historic landfills is searched for all sites. Sometimes additional historic landfill data is available from the British Geological Society and local authorities to identify nearby landfill sites. It should be noted that landfill sites that closed prior to 1974 and unlicensed disposal activities will not necessarily be revealed by this search.

Pollution Incidents

The Environment Agency ceased recording 'Pollution Incidents to Controlled Waters' in 2000, when they commenced the replacement 'Substantiated Pollution Incident Register'. EMS do not consider any 'Category 3 – Minor Incident' on the 'Pollution Incidents to Controlled Waters' database as relevant to assessing the site due to the time elapsed and the low level of impact that occurred. Again, due to the time elapsed and the fact that remedial measures would have been undertaken at the time, 'Category 1 – Major Incident' and 'Category 2 – Significant Incident' are only considered relevant if the impacted controlled water was on or immediately adjacent to the site.

On the 'Substantiated Pollution Incident Register', EMS approach to this information in the following manner:

- *Pollution incidents impacting 'air' only are not considered relevant.*
- *Pollution incidents to 'water' are only considered where the surface water impacted is either on, flows through or is immediately adjacent to the site.*
- *Pollution incidents to 'land' are only considered where these are on or immediately adjacent to the site unless there are grounds to consider that the incident had the potential to impact groundwater that may have migrated beneath the site.*

- *Category 4 potential pollutant incidents are recorded, but upon investigation were found to have had no impact and accordingly are not considered relevant.*

Ecologically Sensitive Land Use

The land uses that are identified as ecologically sensitive are those identified as Sites of Special Scientific Interest (SSSI), Special Areas of Conservation, Special Protection Areas, Ramsar sites, Natural Parks, Natural Nature Reserves, Marine Nature Reserves, Local Nature Reserves, Green Belt, Forest Parks, Environmentally Sensitive Areas, or Areas of Outstanding Natural Beauty.

Unexploded Ordnance

Guidance in CIRIA C681 'Unexploded Ordnance, A Guide for the Construction Industry' recommends that a preliminary risk assessment, comprising desk-based consideration of factors that affect the potential for unexploded ordnance (UXO) to be present, is undertaken at all sites at an early stage. This assessment ascertains whether specialist advice is required prior to ground disturbing activities. The assessment involves consideration of the site's location, history and planned investigation activities. The aim of the assessment is principally to avoid loss of life or injury in the rare event that unexploded ordnance is encountered. However, it is also extremely useful to consider this issue at an early stage to avoid costly delays in construction programmes later down the line.

At the date of publication of this CIRIA document there have been no recorded deaths in the UK resulting from UXO in recent decades (although there have been some fatalities in Europe). However, it is estimated that 15,000 items of ordnance (5 % estimated to be live) were removed from UK construction sites between 2006 and 2008.

The following table summarises the risk factors for a site against the potential for UXO to be present:

		LOW	Potential for aerial delivered UXO to be present		HIGH
Indicators of potential aerial delivered UXO hazards					
Data item	**Site location**	Rural	Small towns	Brownfield sites Large towns	Cities
	Site description and historical land use	Greenfield site or agricultural land only	Near to wartime site of: Previous military use Railway marshalling yard Power station Gas works Port Industrial centre	Adjacent to wartime site of: Previous military use Railway marshalling yard Power station Gas works Port Industrial centre	Site of previous military use: Former wartime Site of previous military use Railway marshalling yard Power station Gas works Port Industrial centre
	History of WWII bombardment	No history of WWII bombing	Near to area of known WWII bombing	Area of known WWII bombing	Area of high intensity WWII bombing
Post-war development and the potential to remove aerial delivered UXO hazards					
Nature of development		Wholesale excavation			
		Significant post-war development			
		Moderate post-war development			
			Minimal post-war development		
			No evidence of post-war development		
Construction activities and the potential to encounter aerial delivered UXO					
Activity		Borehole drilling			
		Shallow trial pits			
		Excavations for services			
		Low density driven piles			
		Shallow excavations over extended area			
			Sheet piling		
			Deep excavations over limited area		
				High density piles	
				Deep excavation over extended area	

Notes: 1. Adapted from CIRIA C681.

Reference to the ZeticaUXO website (https://zeticauxo.com) also provides additional information with respect to the risk of unexploded ordnance beneath a site.

CONTAMINATION ASSESSMENT METHODOLOGY

UK Policy

The UK Government's policy in relation to land affected by historic contamination is based on a 'suitable for use' approach. The approach recognises that the risks presented by any given level of contamination will vary greatly according to the use of the land and a wide range of other factors, such as the underlying geology of the site. Contamination risks therefore need to be assessed on a site-by-site basis. The 'suitable for use' approach limits requirements for

remediation to the work necessary to prevent unacceptable risks to human health or the environment in relation to either the current use or future use of the land.

The three main drivers for contamination assessment and remediation are:

- *Voluntary action.*
- *Development as part of the planning regime.*
- *Regulatory action to mitigate unacceptable risks e.g. Part 2A of the Environmental Protection Act 1990.*

Pollutant Linkages

For a contamination risk to exist there must be a 'pollutant linkage' from the contaminant (source) via a pathway (the route from contaminant to receptor) to a receptor (the entity that could be harmed). The absence of a contaminant, pathway or receptor breaks the pollutant linkage and therefore no contamination risk exists.

Contamination is typically present at a site (in the ground and/or in the underlying groundwater) as a result of a historic or current industrial use, usually as a result of leaks, spills or disposal of residues, wastes and excess raw materials from the industrial processes. Contamination may also be present due to:

- *The deliberate application of chemicals e.g. the spraying of herbicide/pesticide.*
- *Migration of pollutants from adjacent land.*
- *Naturally occurring processes e.g. elevated concentrations of particular heavy metals associated with specific geological strata.*

Conceptual Site Model

The conceptual site model can be defined as a textual or graphical representation of the identified pollutant linkages for a given site. The model forms the basis for designing the investigation as the aim will be to target all of the potential pollutant linkages to determine, through the subsequent phases of risk assessment, whether or not they pose an actual risk.

It is important that the conceptual site model is updated with new information as the various investigation, risk assessment and remediation works are completed.

Technical Guidance

The technical and legal framework for contamination assessment is complex. The process adopted through this report for assessing contamination risks is in general accordance with the following guidance, as listed below:

- *'Investigation of Potentially Contaminated Sites - Code of Practice - BS 10175: 2011+A2:2017', BSi, 2017.*
- *'Model Procedures for the management of Land Contamination - CLR Document No. 11', Environment Agency, 2004.*

- *'Guidance for the safe development of housing on land affected by contamination - R&D66: 2008', NHBC/Environment Agency, 2008.*

Risk Assessment Methodology

In line with the technical guidance, the contamination risk assessment follows a series of phased stages for each particular site:

PHASE	DESCRIPTION	RISK ASSESSMENT STAGE
PHASE1	*Generally limited to desk based research and a site walkover survey to develop an initial conceptual site model and identify what risks, if any, are likely to be presented by the site.*	*Hazard Identification and Assessment* *A preliminary stage of risk assessment concerned with identifying and characterising the hazards that may be associated with a particular site and identifying potential pollutant linkages.*
PHASE 2	*This phase is concerned with establishing whether contamination is present, usually through intrusive ground investigation, and then evaluating the degree and magnitude of the associated risks.*	*Risk Estimation* *A stage concerned with estimating the likelihood that receptors will suffer adverse effects if they come into contact with, or are otherwise affected by, a hazardous substance or agent under defined conditions.* *Risk Evaluation* *A stage of risk assessment concerned with evaluating the acceptability of estimated risks, taking into account the nature and scale of the risk estimates, any uncertainties associated with the assessment and the broad costs and benefits of taking action to mitigate risks.*
PHASE 3	*The appraisal and selection of remediation techniques, their implementation and verification.*	*Risk Management* *The process whereby decisions are made to accept a known or assessed risk and/or the implementation of action to reduce the consequences or probabilities of occurrence.*

Risk Classification

The objective of risk assessment is to identify the nature and magnitude of the potential risks and should be based on a consideration of both:

- *The likelihood/probability of an event [taking into account both the presence of the hazard and receptor and the integrity of the pathway].*
- *The severity of the potential consequence [taking into account both the potential severity of the hazard and the sensitivity of the receptor].*

There is a need for a logical, transparent and repeatable system in defining the categories of severity of consequence and likelihood as well as for the risk itself and therefore the following risk rating matrix is employed:

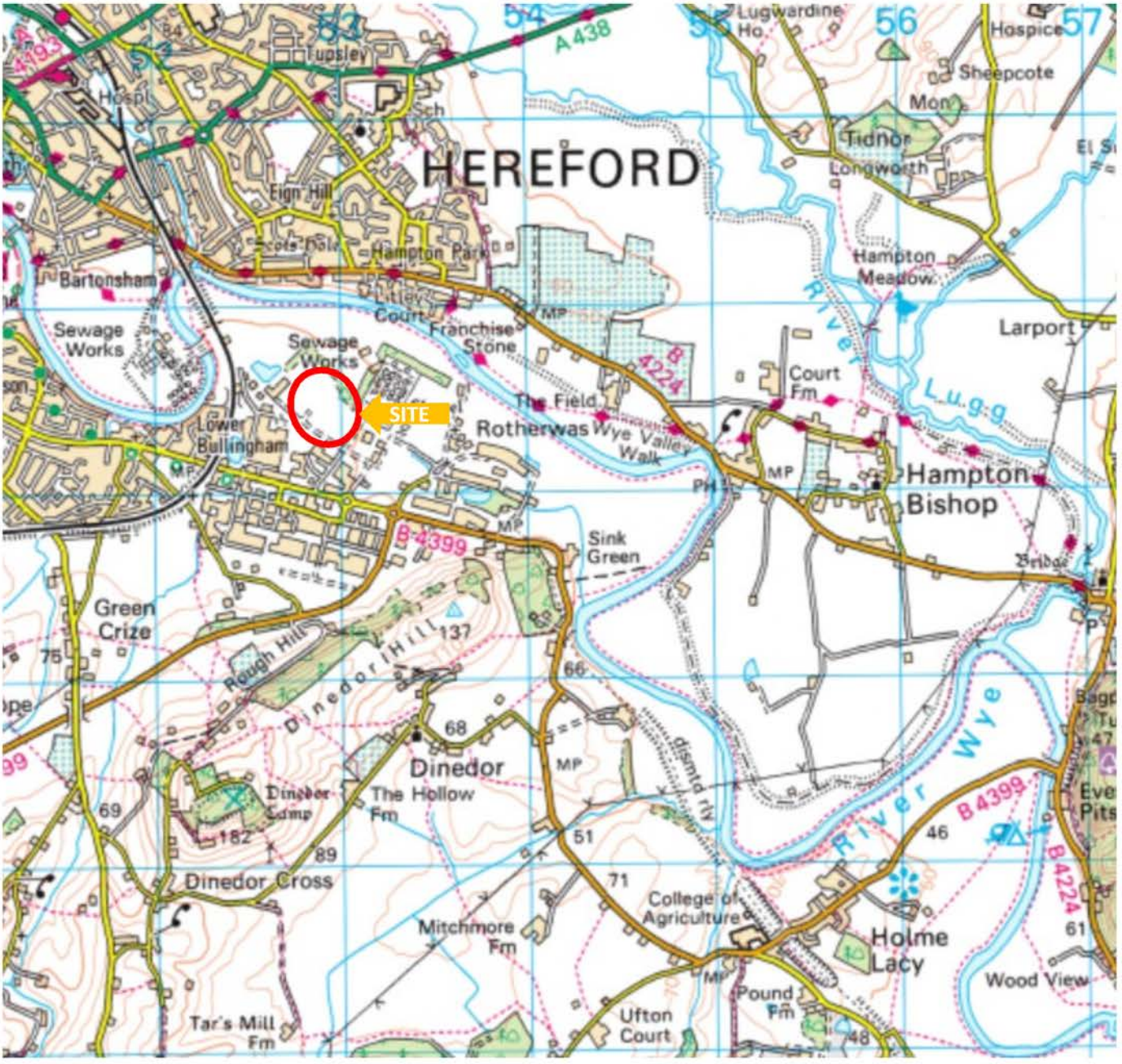
		SEVERITY OF CONSEQUENCE			
		SEVERE	**MEDIUM**	**MILD**	**MINOR**
PROBABILITY	**HIGH LIKELIHOOD**	Very High Risk	High Risk	Moderate Risk	Moderate/Low Risk
	LIKELY	High Risk	Moderate Risk	Moderate/Low Risk	Low Risk
	LOW LIKELIHOOD	Moderate Risk	Moderate/Low Risk	Low Risk	Very Low Risk
	UNLIKELY	Moderate/Low Risk	Low Risk	Very Low Risk	Very Low Risk

These risk classifications are defined as follows:

- *Very High Risk - There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without appropriate remediation action.*
- *High Risk - Harm is likely to arise to a designated receptor from an identified hazard at the site without appropriate remediation action.*
- *Moderate Risk - It is possible that without appropriate remediation action harm could arise to a designated receptor. It is relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely that such harm would be relatively mild.*
- *Low Risk - It is possible that harm could arise to a designated receptor from an identified hazard. It is likely that, at worst if any harm was realised any effects would be mild.*
- *Negligible Risk - The presence of an identified hazard does not give rise to the potential to cause harm to a designated receptor.*

This preliminary risk assessment matrix and classification system is based on guidance produced by Department for Environment, Food and Rural Affairs (Defra) and the Environment Agency in connection with contaminated land assessment.

Appendix A – Drawings and Plans



0 km 2

Approximate Scale:

KEY:

Site Location

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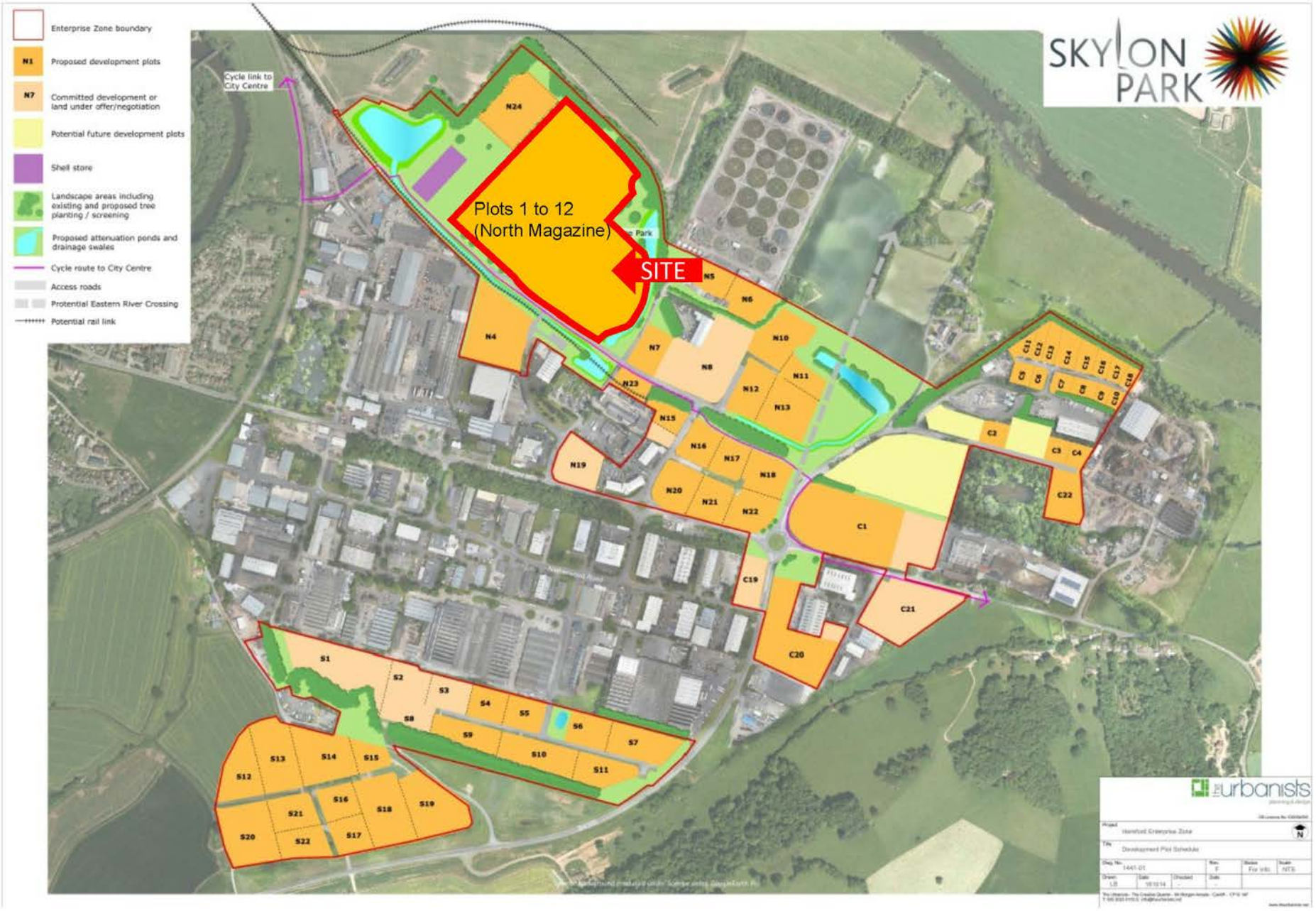
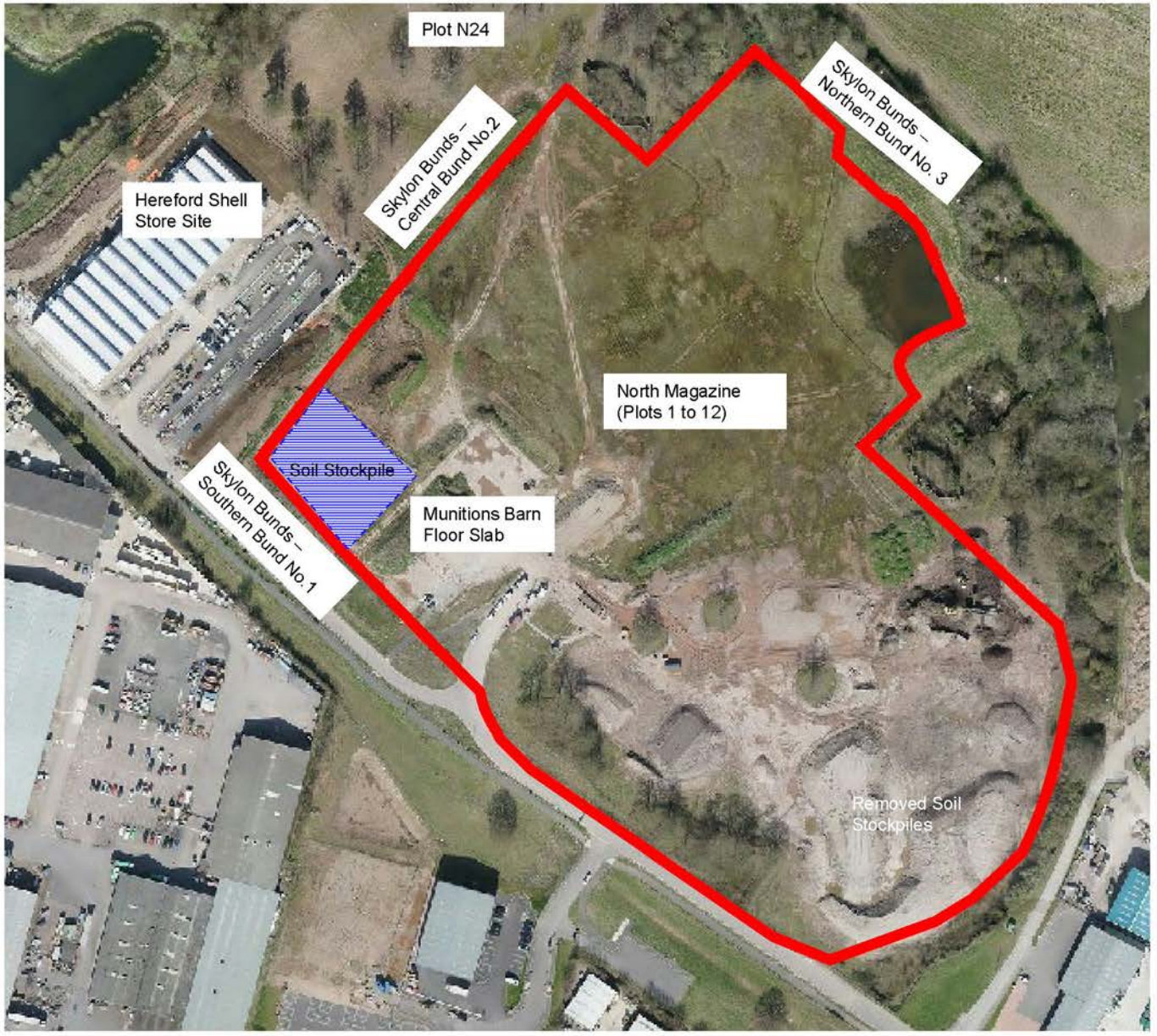
EMSgeotech	Project Number:	E17879
	Site:	Hereford Enterprise Zone – North Magazine, Rotherwas Industrial Estate, Hereford HR2 6ST
	Drawing Title:	Site Location Plan



Extract taken from 'the Urbanists – Hereford Enterprise Zone,' Drawing No. 1441-01, dated October 2014.

EMS geotech	Project Number:	E17879
	Site:	Hereford Enterprise Zone – North Magazine, Rotherwas Industrial Estate, Hereford HR2 6ST
	Drawing Title:	Skylon Park Layout and Site Location Plan



Key:

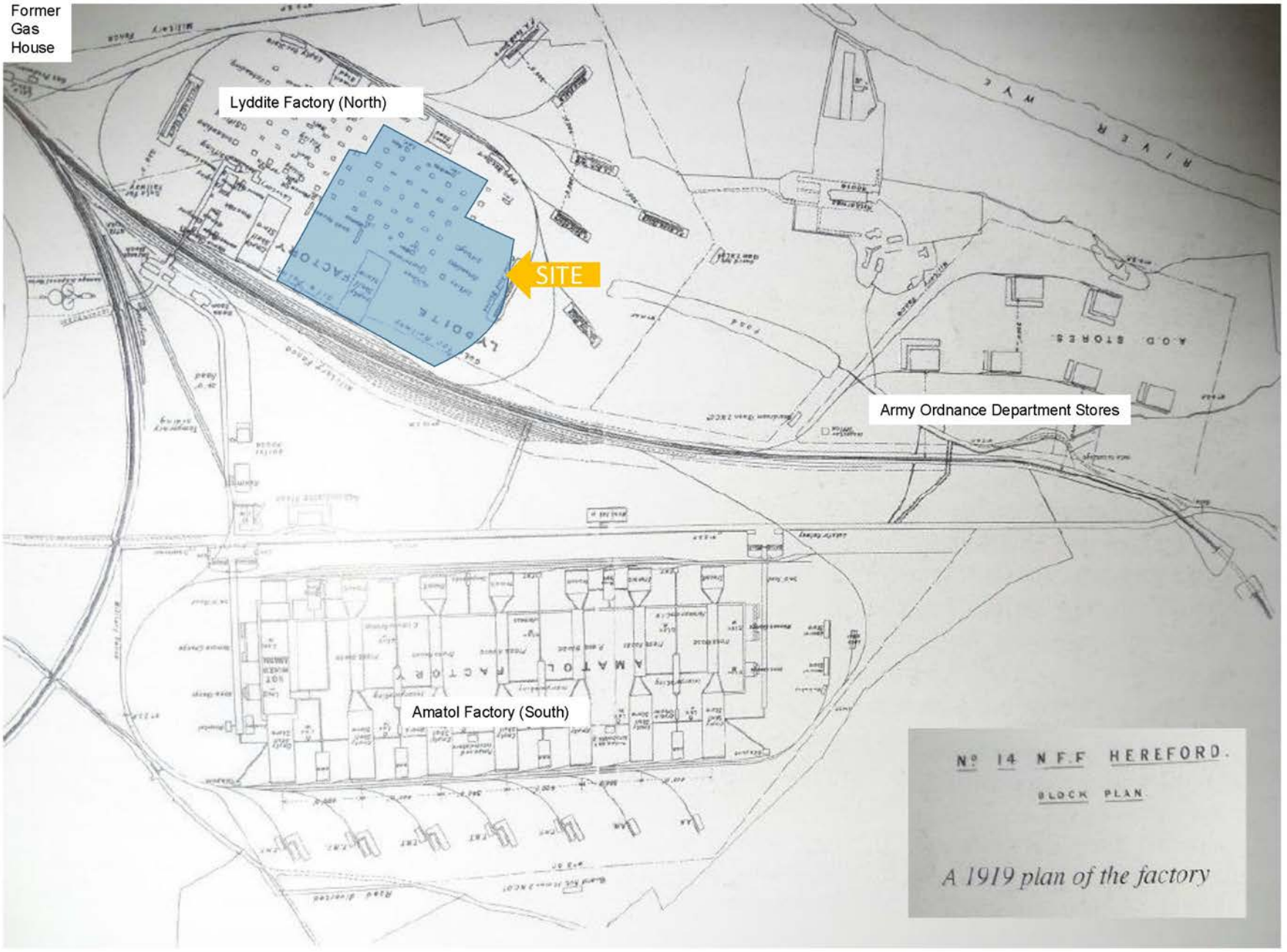
Site Boundary

0 200m

Approximate Scale

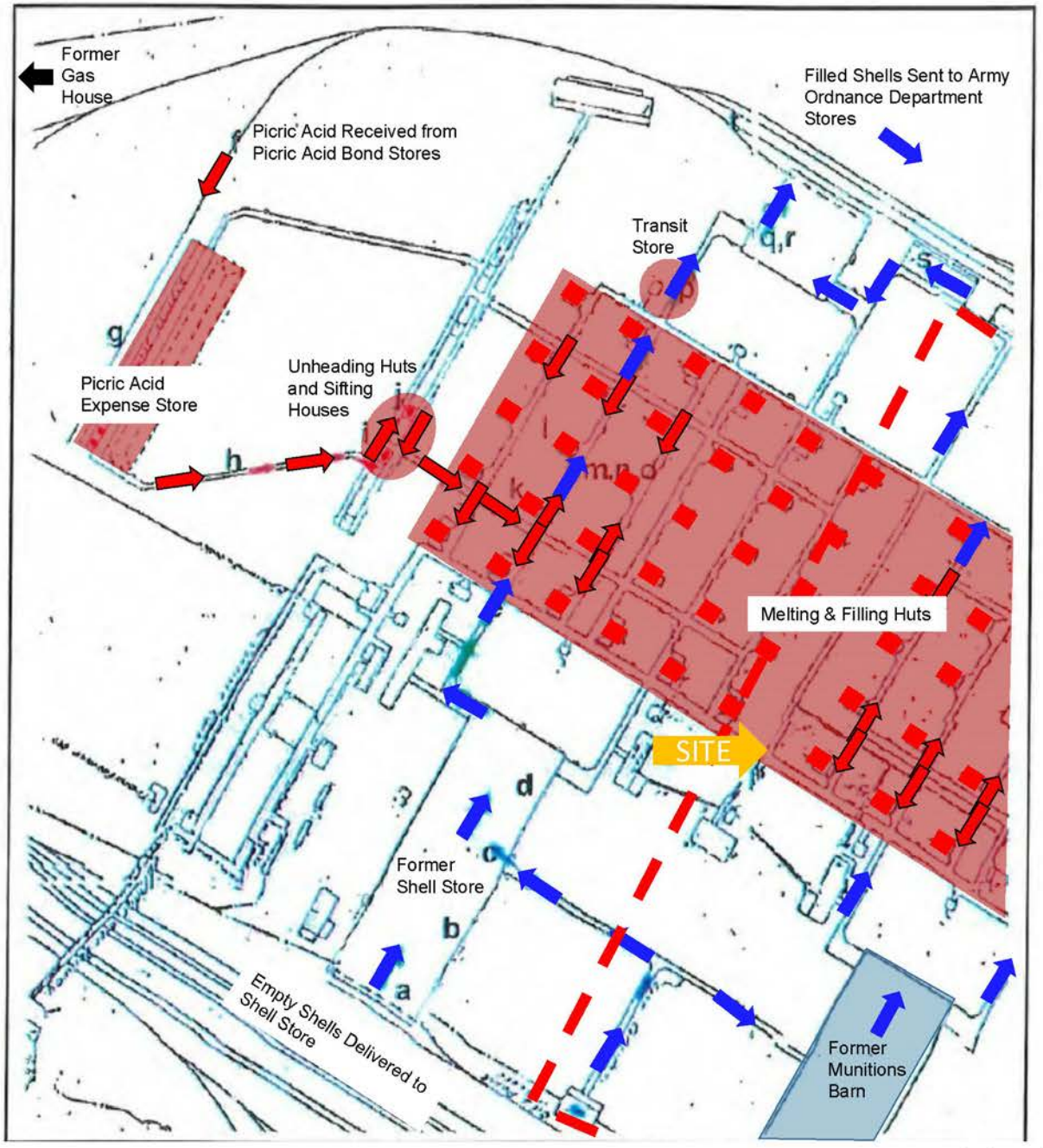
Extract taken from Google Maps.

EMSgeotech	Project Number:	E17879
	Site:	Hereford Enterprise Zone – North Magazine, Rotherwas Industrial Estate, Hereford HR2 6ST
	Drawing Title:	Existing Site Layout Plan



Extract taken from 'Conservation Statement: Northern Shell Store, Former Munitions Factory, Hereford,' JS Conservation Management & Town Planning, dated July 2013.

EMSgeotech	Project Number:	E17879
	Site:	Hereford Enterprise Zone – North Magazine, Rotherwas Industrial Estate, Hereford HR2 6ST
	Drawing Title:	Former ROF Factory Layout



Key:

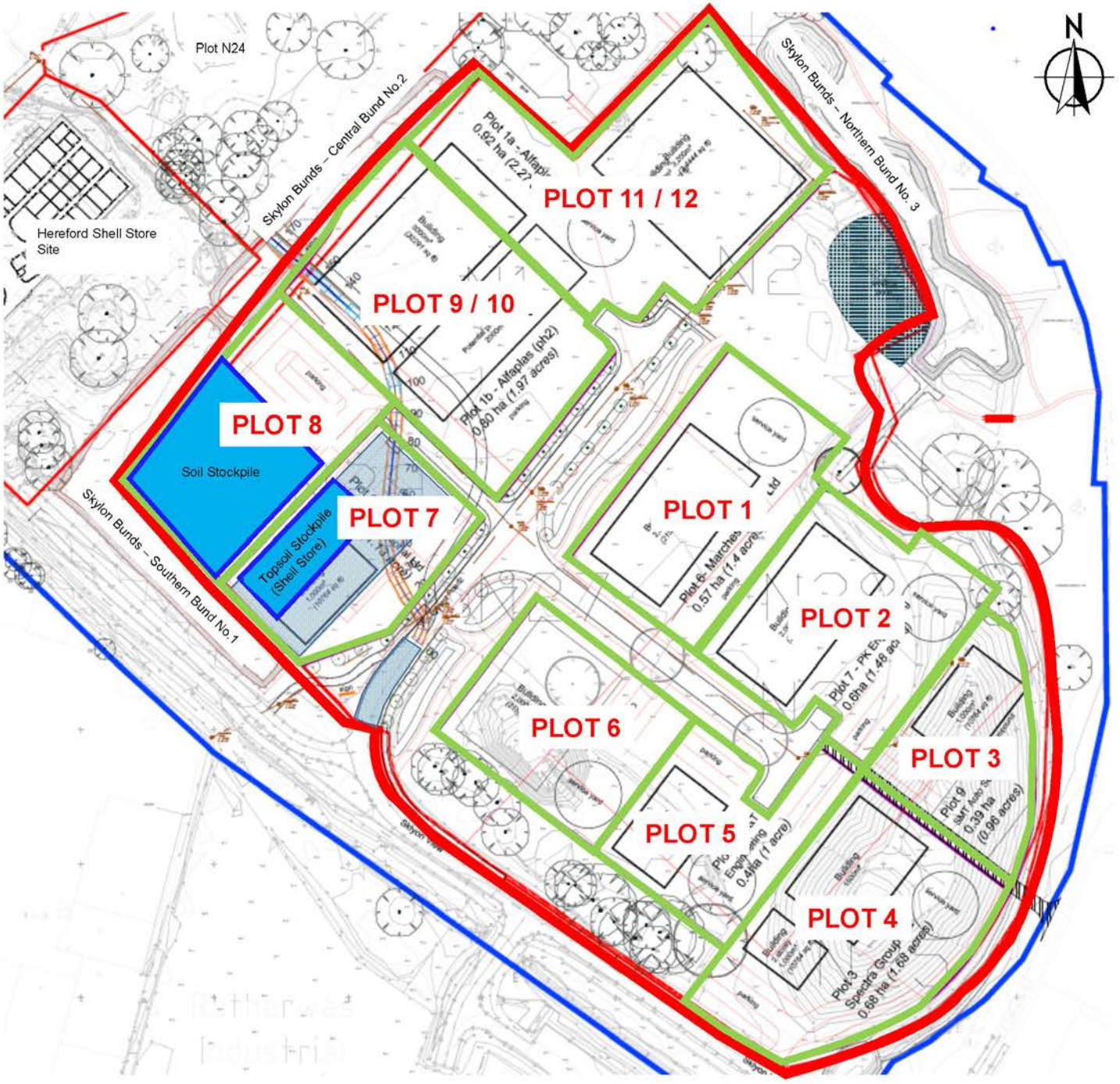
- Site Boundary
- Route of Empty / Filled Artillery Shells
- Route of (Lyddite) Picric Acid

Extract taken from Rotherwas Royal Ordnance Factory Management Study, Volume 1, Gifford and Partners Document No. B2664.RO2 Rev B, Dated 23rd February 2000.

EMSgeotech	Project Number:	E17879
	Site:	Hereford Enterprise Zone – North Magazine, Rotherwas Industrial Estate, Hereford HR2 6ST
	Drawing Title:	Flow Diagram of the Lyddite Factory

Key:

- North Magazine Site Boundary.
- Plot Boundary (Plots 1 to 12).
- Existing Hardstanding.

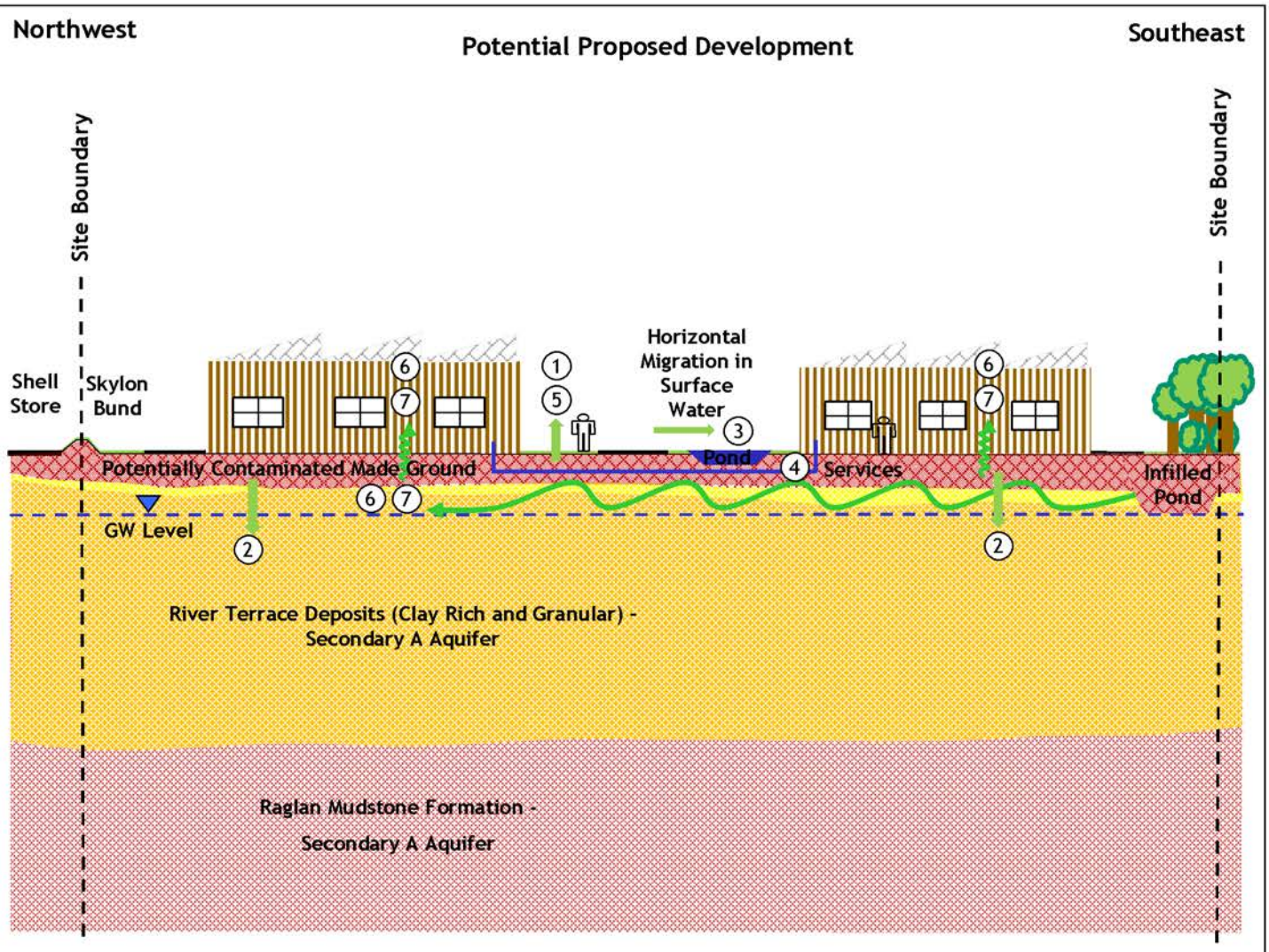


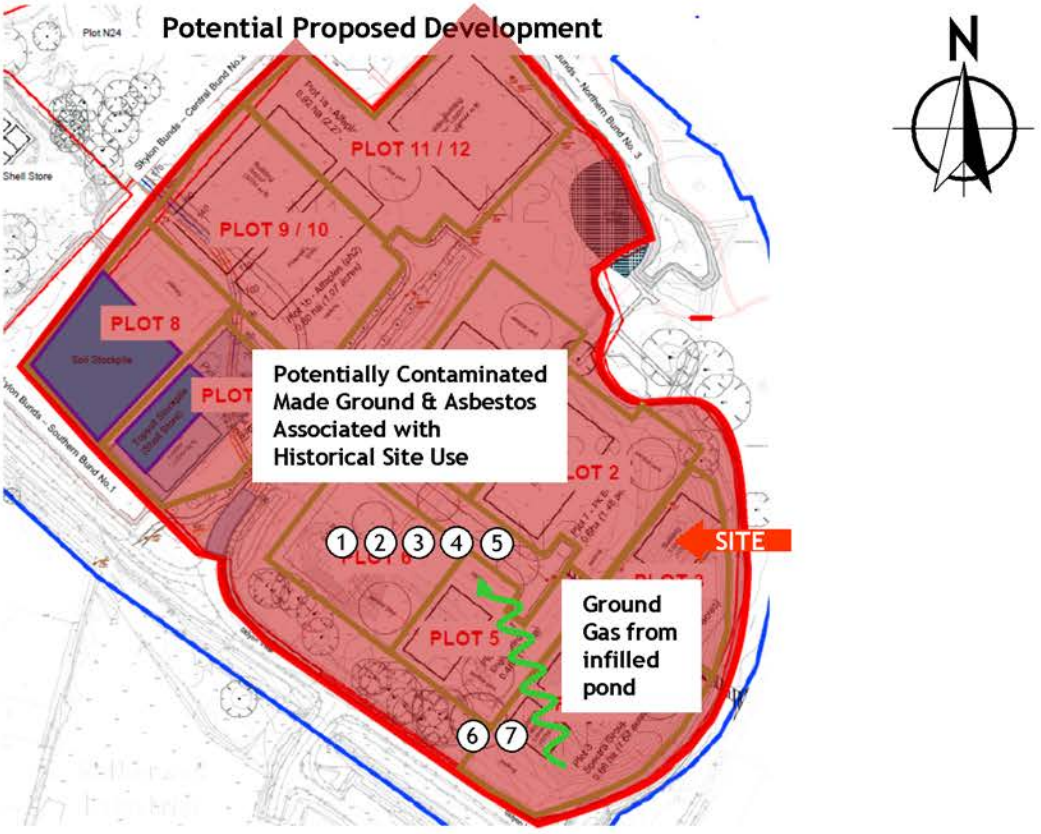
0 100m

Approximate Scale

Extract taken from HCC Plot Configuration Drawing.

EMS geotech	Project Number:	E17879
	Site:	Hereford Enterprise Zone – North Magazine, Rotherwas Industrial Estate, Hereford HR2 6ST
	Drawing Title:	Proposed Plot Layout Plan





Job Title: Hereford Enterprise Zone - North Magazine, Rotherwas Industrial Estate, Hereford HR2 6ST

Job Number: E17879

Drawing Title: Preliminary Conceptual Site Model

EMSgeotech

Appendix B – Photographic Record - Site Walkover

Photo 1: North Magazine looking north across Plots 7 to 12.

Photo 2: View east across Plots 11/12.

Photo 3: Skylon Bunds, Southern Bund (No.1) and Central Bund (No.2).

Photo 4: Skylon Bund - Northern Bund (No.3).

Photo 5: Munitions Barn floor slab and topsoil stockpile.

Photo 6: Soil stockpile on Plots 7 and 8.

Photo 7: Former blastwalls off northwest site perimeter

Photo 8: Former blast walls on northwest site periphery.

Photo 9: Overgrown old buildings off-site from northwest boundary.

Photo 10: Bituminous covered roadway adjacent to northwest site perimeter.

Photo 11: Bituminous ACM fragments used as roadway surface dressing.

Photo 12: Concrete rubble stockpile in northeast quarter of the site (Plots 2 / 3) for off-site removal.

Photo 13: Stockpile of tree, branch and plant debris fro removal off-site.

Photo 14: Pool at the toe of Skylon Bund - North Bund (No.3).

Photo 15: View southeast across Plots 1 to 6.

Photo 16: View east across Plots 4, 5 and 6.

Photo 17: Infilled former pond in southeast part of site (Plot 4).

Photo 18: Central part of site looking southwest.

Appendix C – Envirocheck Report - Historical Maps

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
•285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads (Fenced / Un-Fenced)
Minor Roads (Fenced / Un-Fenced)
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy County Burgh Boundary (Scotland)
RD. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water: Shingle, Sand
Glasshouse
Sloping Masonry
Pylon / Pole — Electricity Transmission Line
Cutting / Embankment — Standard Gauge Multiple Track
Road Under / Road Over / Level Crossing / Foot Bridge — Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency — Shown only when not coincident with other boundaries
Civil Parish — Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

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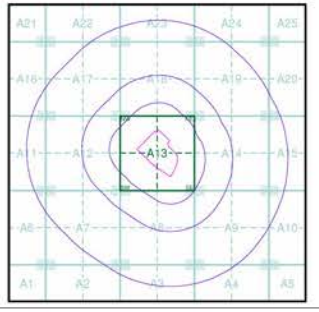
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Herefordshire	1:10,560	1886 - 1887	2
Herefordshire	1:10,560	1905	3
Herefordshire	1:10,560	1930 - 1931	4
Herefordshire	1:10,560	1938 - 1953	5
Herefordshire	1:10,560	1952 - 1953	6
Ordnance Survey Plan	1:10,000	1964	7
Ordnance Survey Plan	1:10,000	1970	8
Ordnance Survey Plan	1:10,000	1985	9
10K Raster Mapping	1:10,000	2000	10
10K Raster Mapping	1:10,000	2006	11
VectorMap Local	1:10,000	2020	12

Historical Map - Slice A



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Order Details

Order Number: 247715231_1_1
Customer Ref: E17879
National Grid Reference: 352900, 238470
Slice: A
Site Area (Ha): 8.19
Search Buffer (m): 1000

Site Details

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Herefordshire

Published 1886 - 1887

Source map scale - 1:10,560

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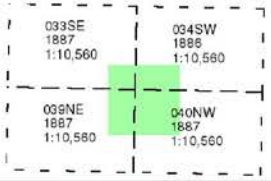
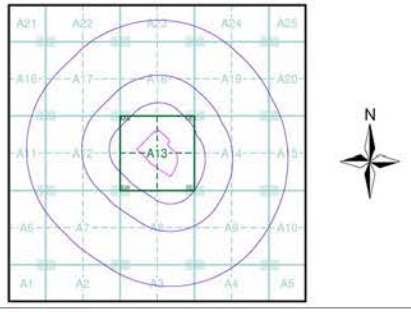
Map Name(s) and Date(s)



Historical Map - Slice A



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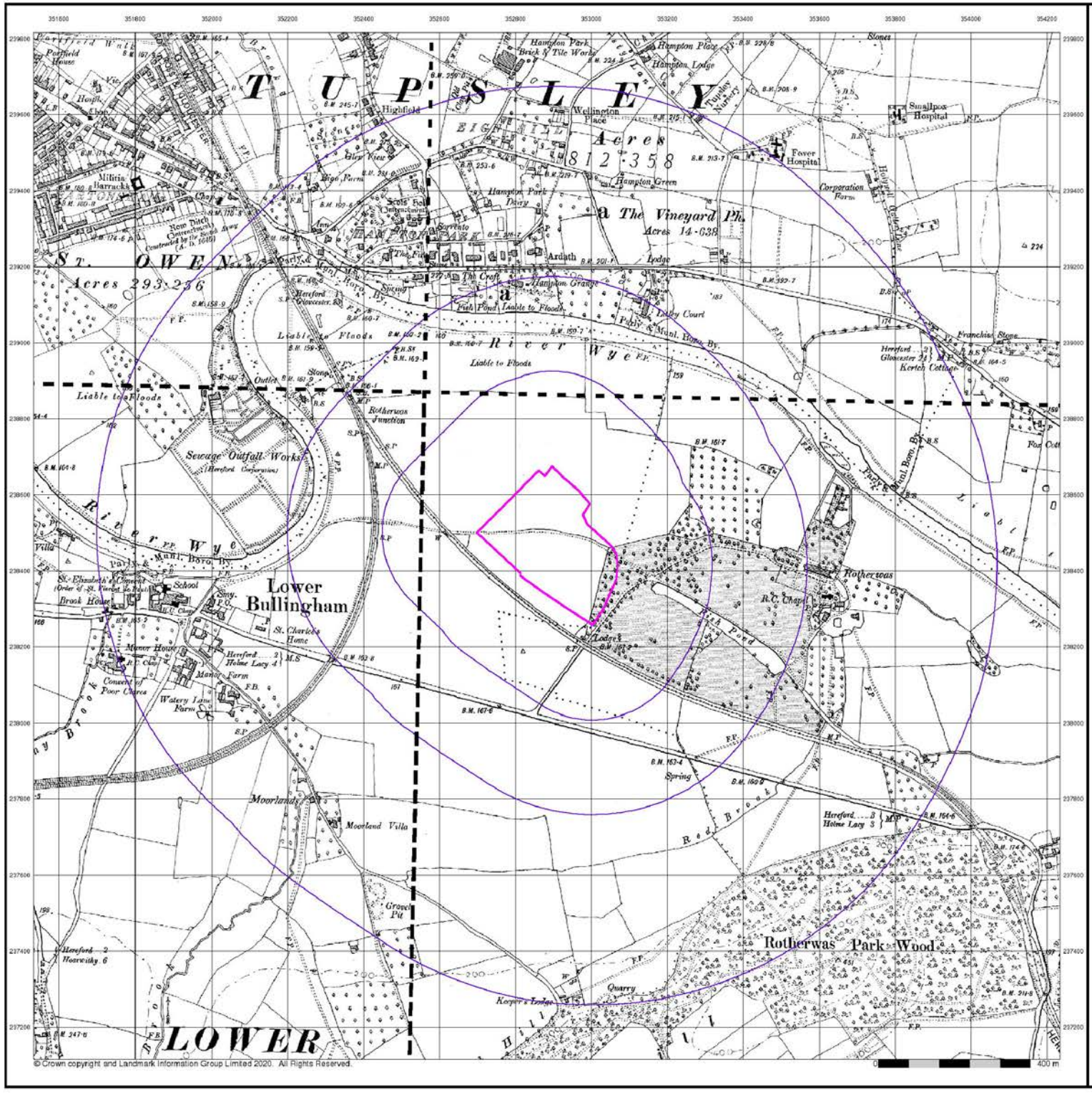

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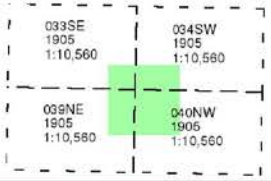

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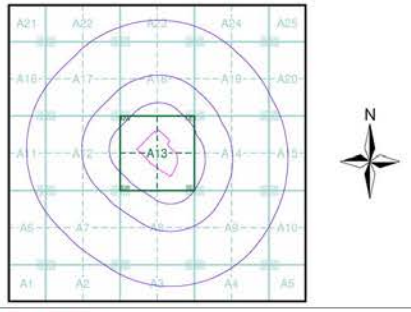

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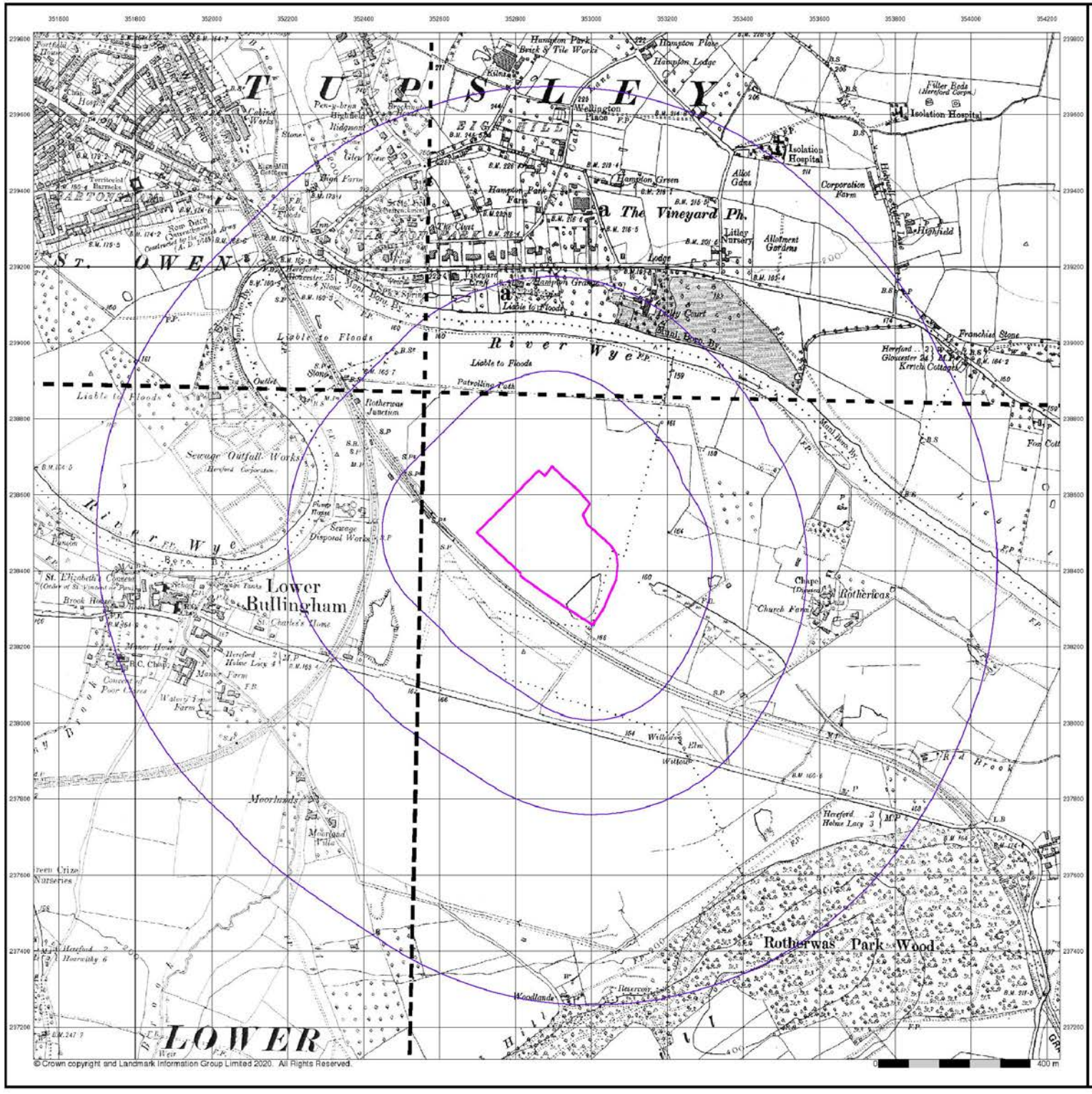

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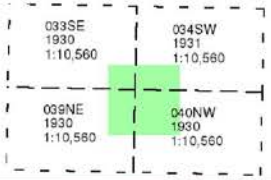

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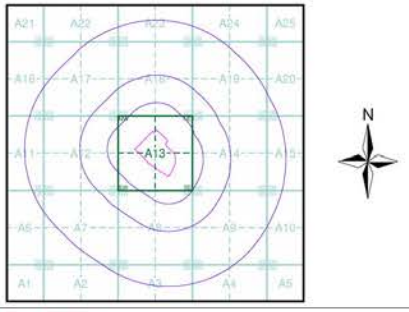

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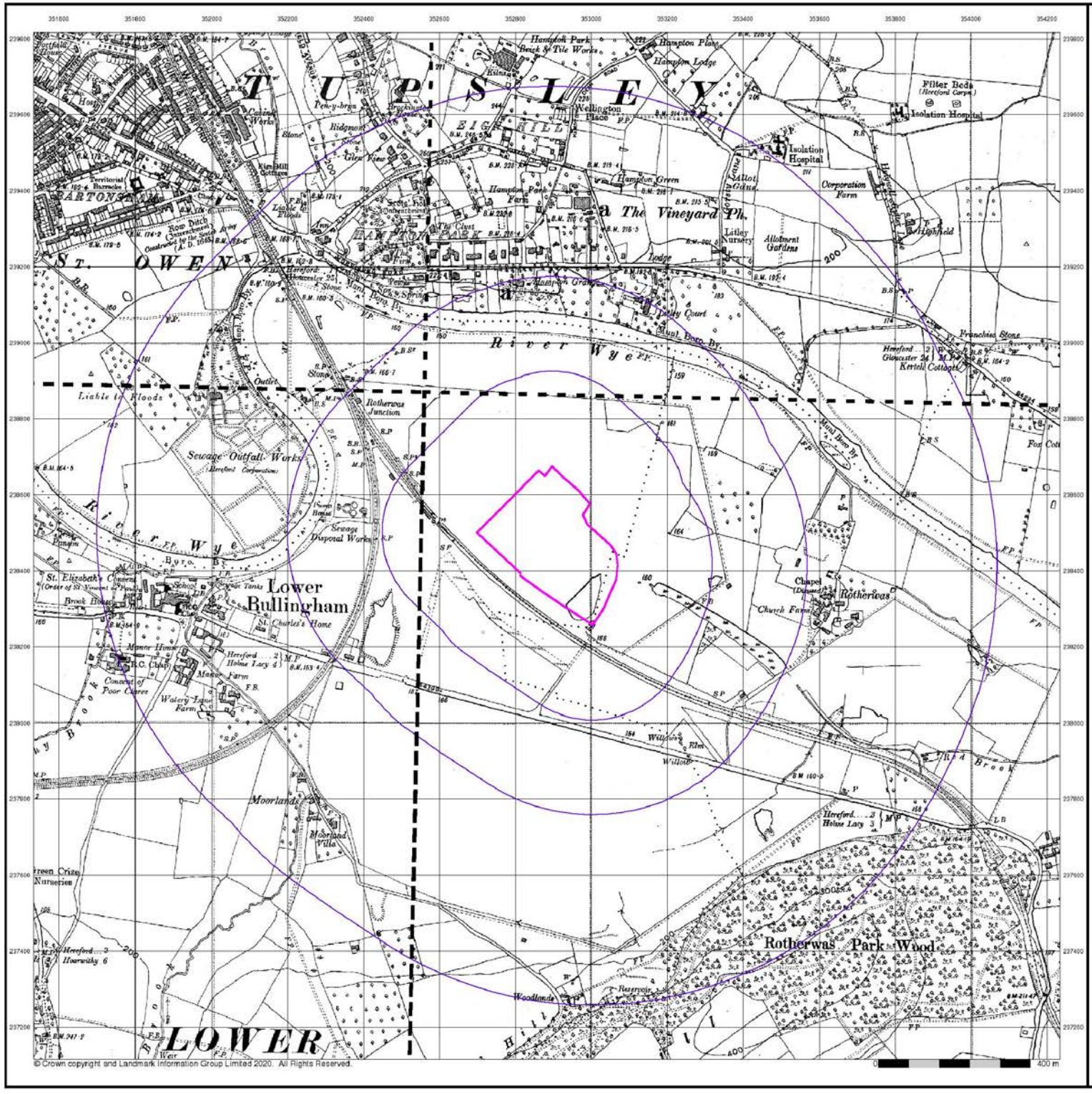

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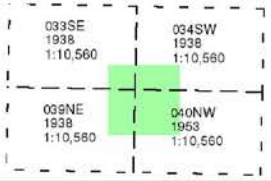
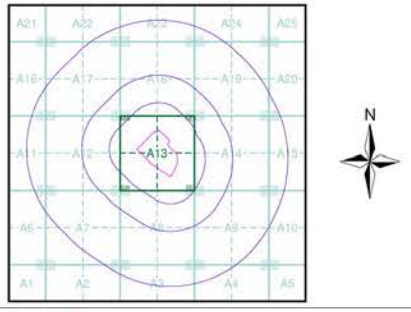


Historical Map - Slice A



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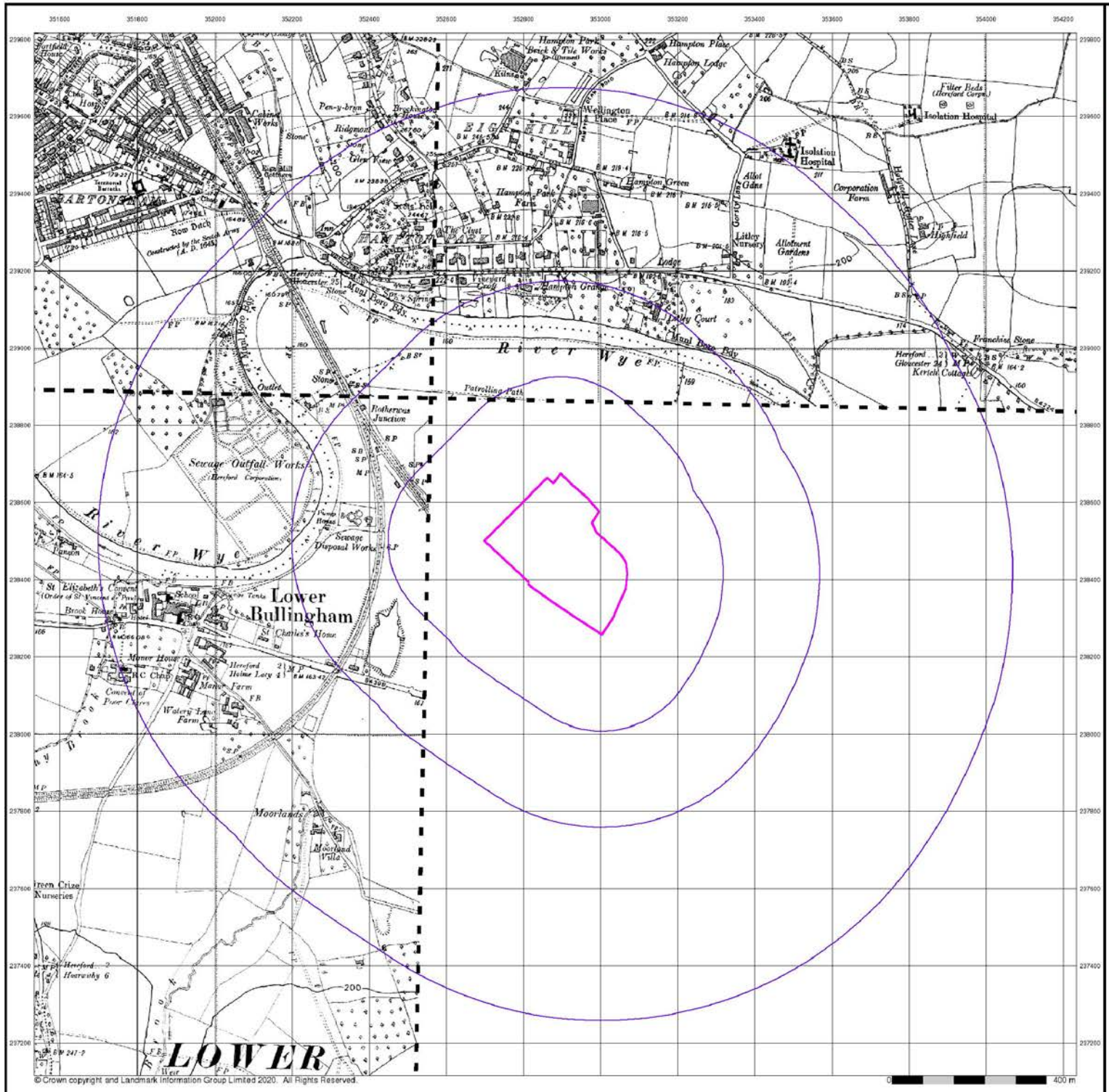

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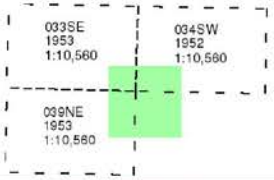
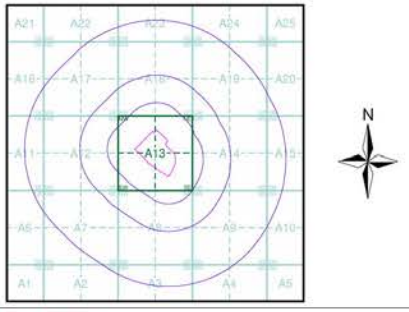


Historical Map - Slice A



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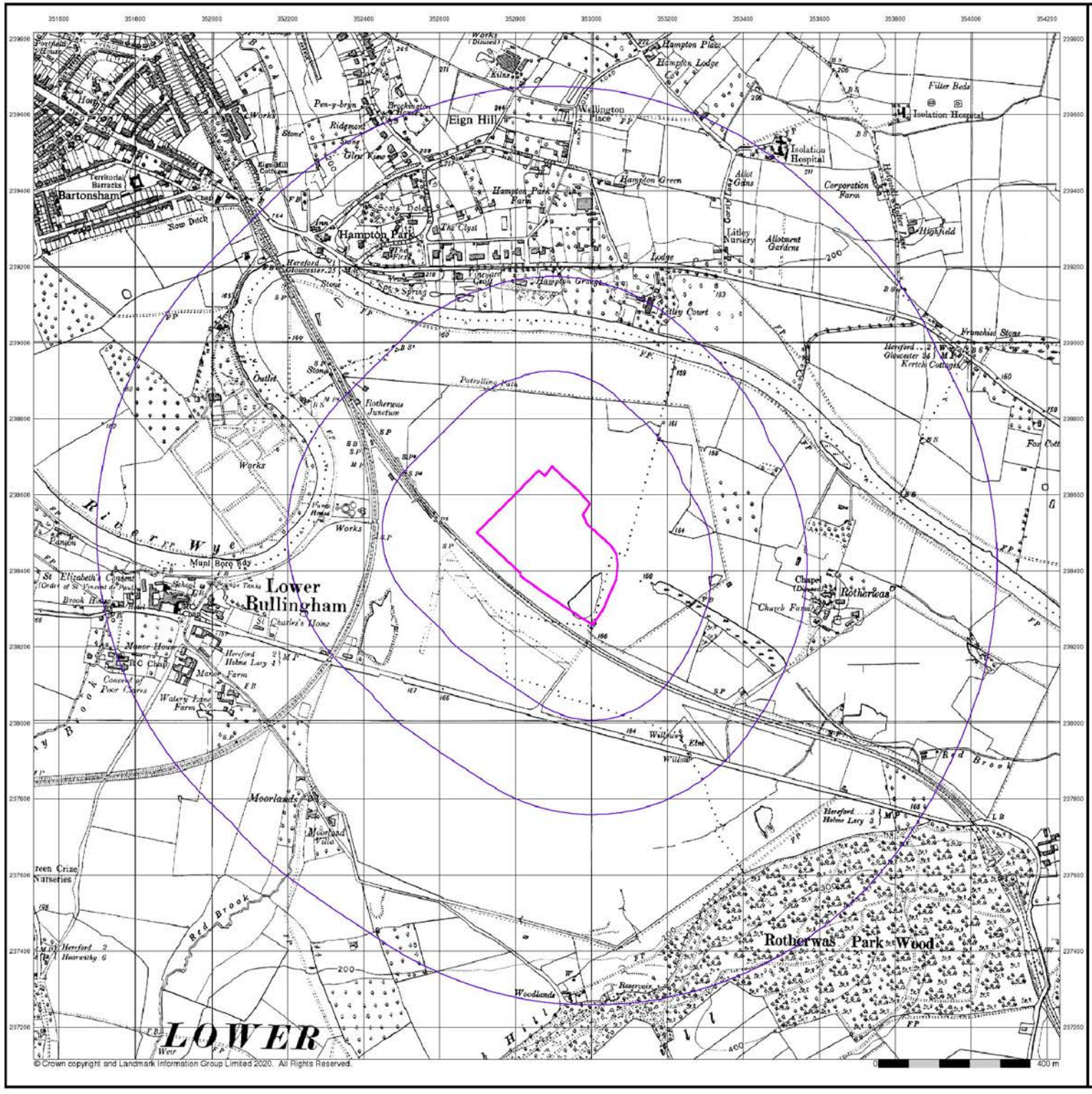

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Ordnance Survey Plan

Published 1964

Source map scale - 1:10,000

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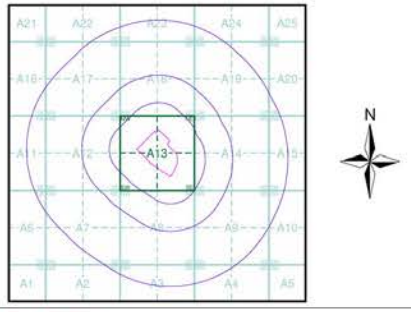
Map Name(s) and Date(s)

Historical Map - Slice A



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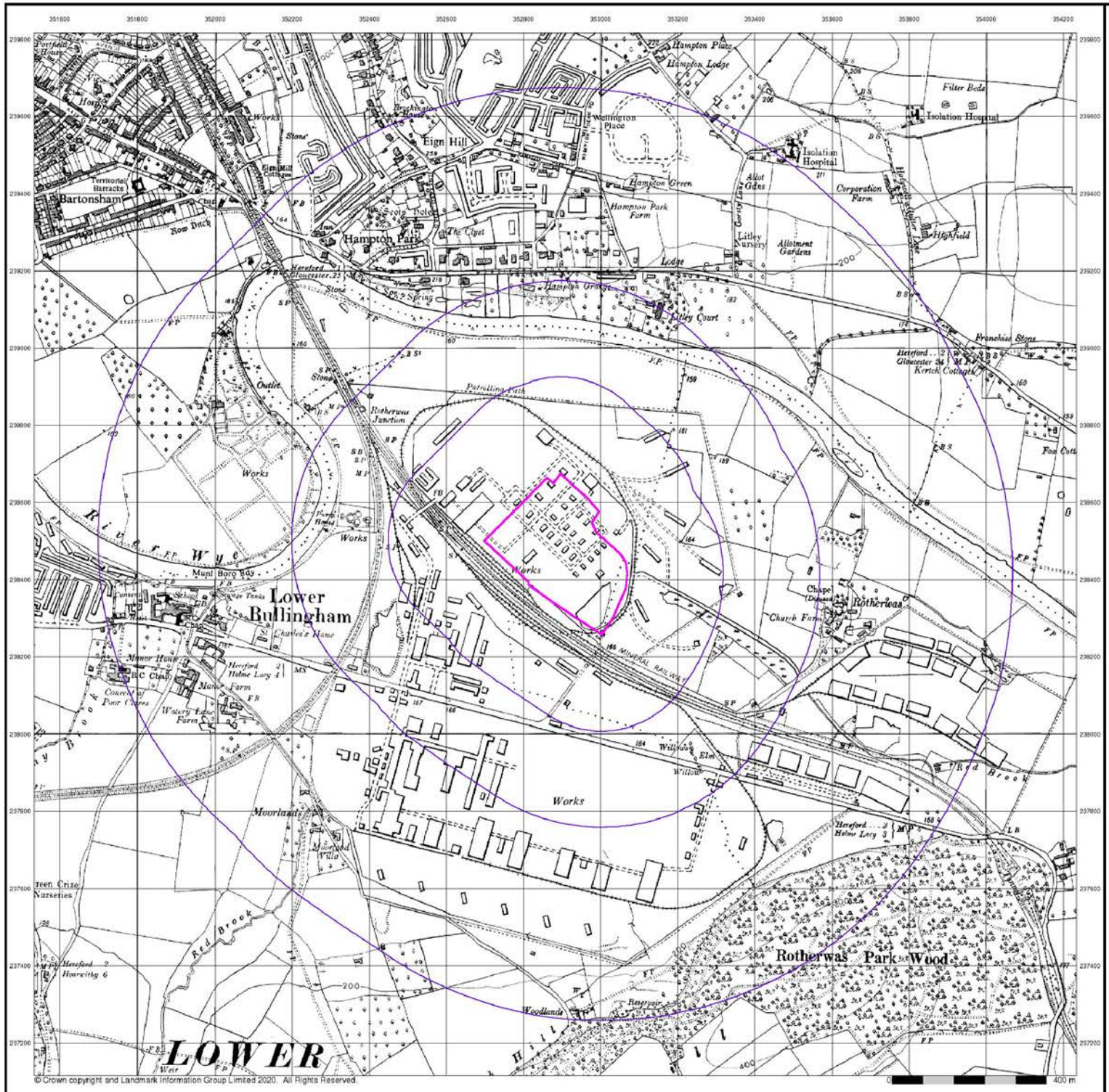

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Ordnance Survey Plan

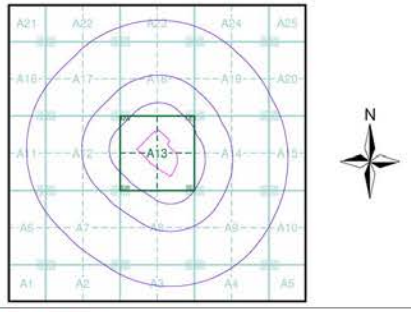
Published 1970

Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

Historical Map - Slice A



Order Details

Order Number:	247715231_1_1
Customer Ref:	E17879
National Grid Reference:	352900, 238470
Slice:	A
Site Area (Ha):	8.19
Search Buffer (m):	1000

Site Details

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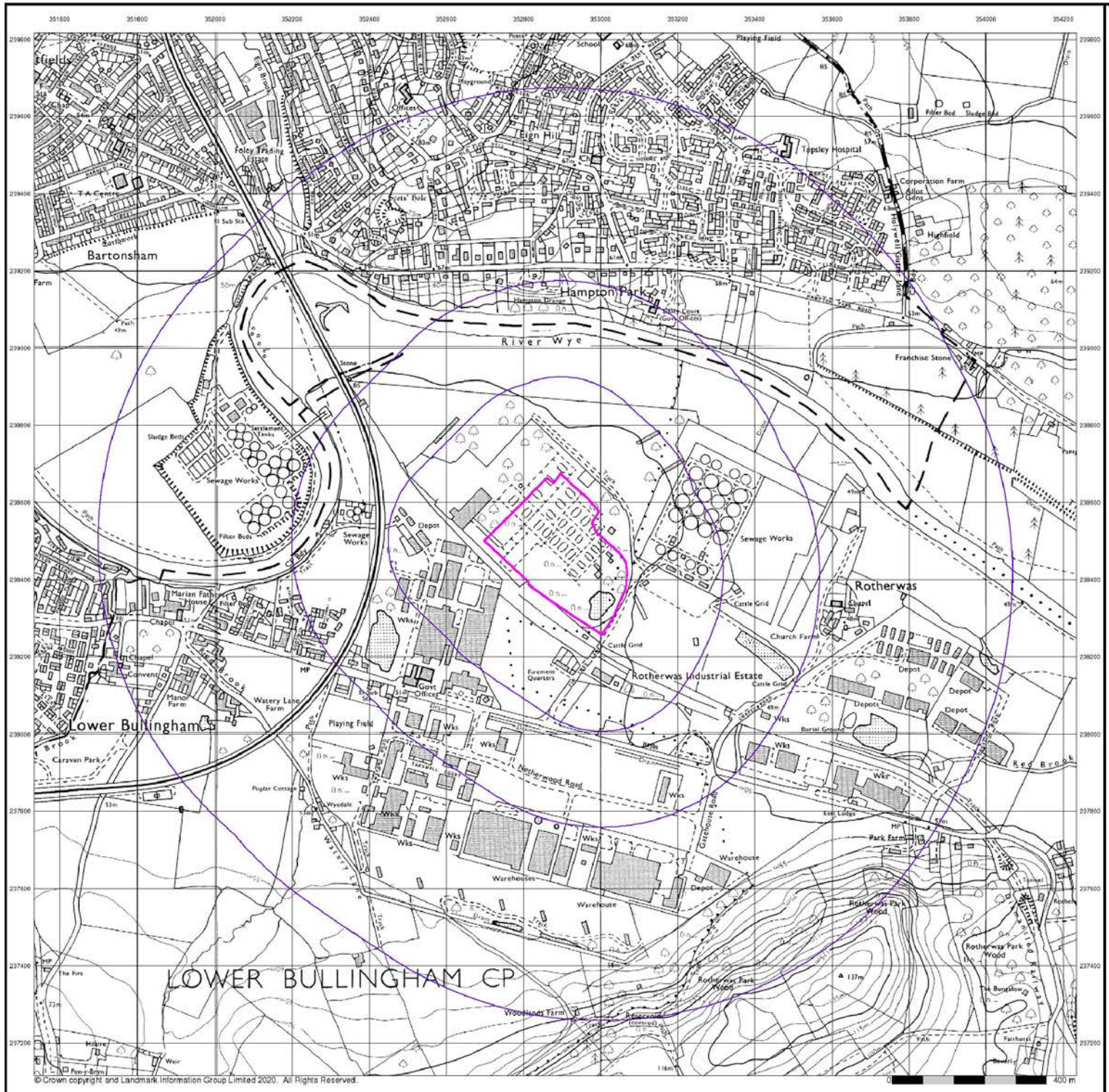

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Ordnance Survey Plan

Published 1985

Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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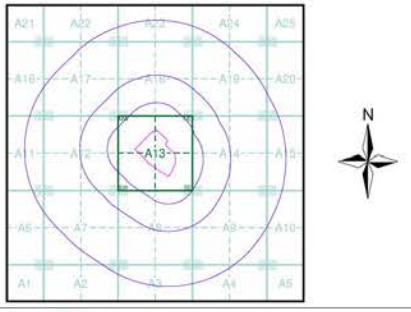

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10k Raster Mapping

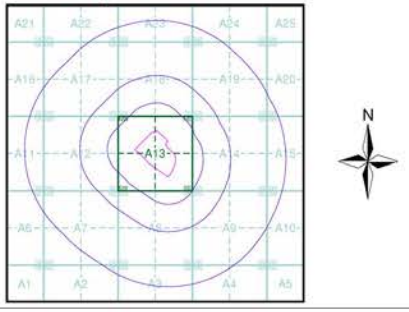
Published 2000

Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

Historical Map - Slice A



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10k Raster Mapping

Published 2006

Source map scale - 1:10,000

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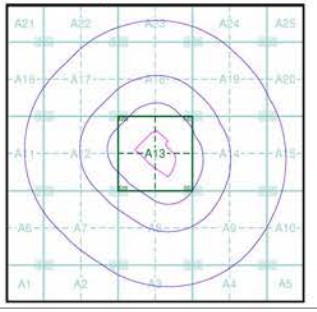

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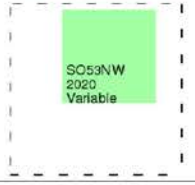
VectorMap Local

Published 2020

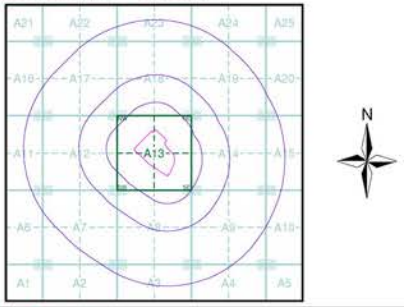
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice A



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Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500

Quarry
Gravel Pit
Sand Pit
Clay Pit
Shingle
Refuse Heap
Sloping Masonry
Flat Rock
Marsh
Reeds
Osiers
Rough Pasture
Furze
Wood
Mixed Wood
Brushwood
Orchard
Fir
Ford
Stepping Stones
Ferry
Waterfall
Lock
Trig. Station
507 Altitude at Trig. Station
B.M.325·9 Bench Mark
342 Surface Level
Arrow denotes flow of water
Antiquities (site of)
Cutting
Embankment
Railway crossing Road
Level Crossing
Road crossing Railway
Railway crossing River or Canal
Road over single stream
Road over River or Canal

County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	Sl.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250

Inactive Quarry, Chalk Pit or Clay Pit
Active Quarry, Chalk Pit or Clay Pit
Rock
Boulders
Cliff
Slopes
Top
Roofed Building
Glazed Roof Building
Sloping Masonry
Archway
Non-Coniferous Tree (surveyed)
Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed)
Coniferous Trees (not surveyed)
Orchard Tree
Scrub
Bracken
Coppice, Osier
Reeds
Marsh, Saltings
Rough Grassland
Heath
Culvert
Direction of water flow
Bench Mark
Antiquity (site of)
Cave Entrance
Triangulation Station
Electricity Pylon
Electricity Transmission Line

County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250

Cliff
Slopes
Top
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Positioned Boulder
Scree
Non-Coniferous Tree (surveyed)
Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed)
Coniferous Trees (not surveyed)
Orchard Tree
Scrub
Bracken
Coppice, Osier
Reeds
Marsh, Saltings
Rough Grassland
Heath
Culvert
Direction of water flow
Triangulation Station
Antiquity (site of)
Electricity Transmission Line
Electricity Pylon
BM 231.50m Bench Mark
Buildings with Building Seed
Roofed Building
Glazed Roof Building

Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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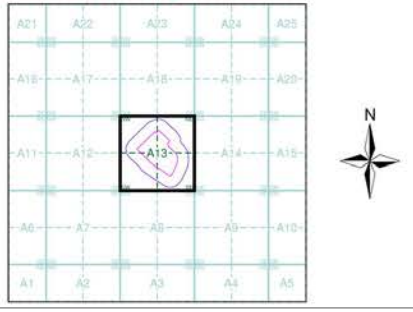
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Herefordshire	1:2,500	1888	2
Herefordshire	1:2,500	1904	3
Herefordshire	1:2,500	1928 - 1929	4
Ordnance Survey Plan	1:2,500	1973	5
Additional SIMs	1:2,500	1977 - 1983	6
Ordnance Survey Plan	1:2,500	1988	7
Additional SIMs	1:1,250	1992	8
Large-Scale National Grid Data	1:2,500	1993	9
Large-Scale National Grid Data	1:1,250	1993	10
Large-Scale National Grid Data	1:2,500	1996	11
Historical Aerial Photography	1:2,500	1999	12

Historical Map - Segment A13



Order Details

Order Number: 247715231_1_1
Customer Ref: E17879
National Grid Reference: 352900, 238470
Slice: A
Site Area (Ha): 8.19
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Site Details

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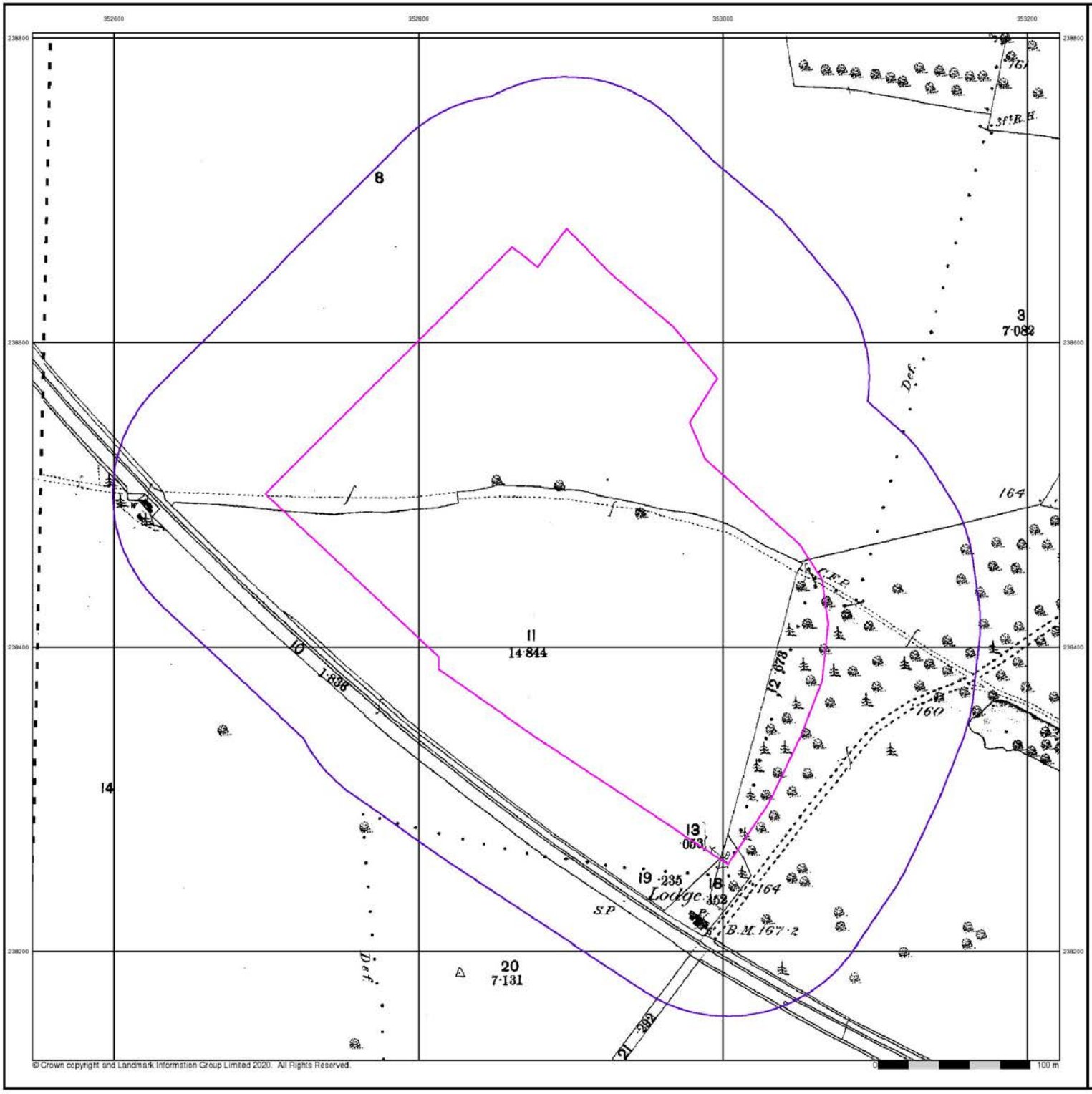

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Herefordshire

Published 1888

Source map scale - 1:2,500

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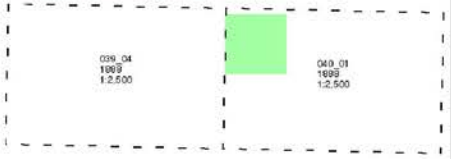
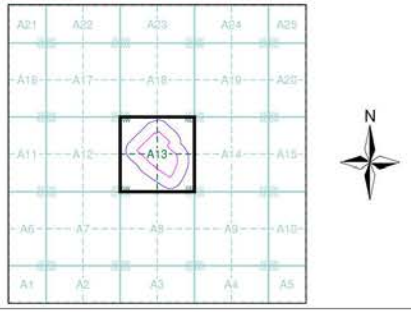
Map Name(s) and Date(s)



Historical Map - Segment A13



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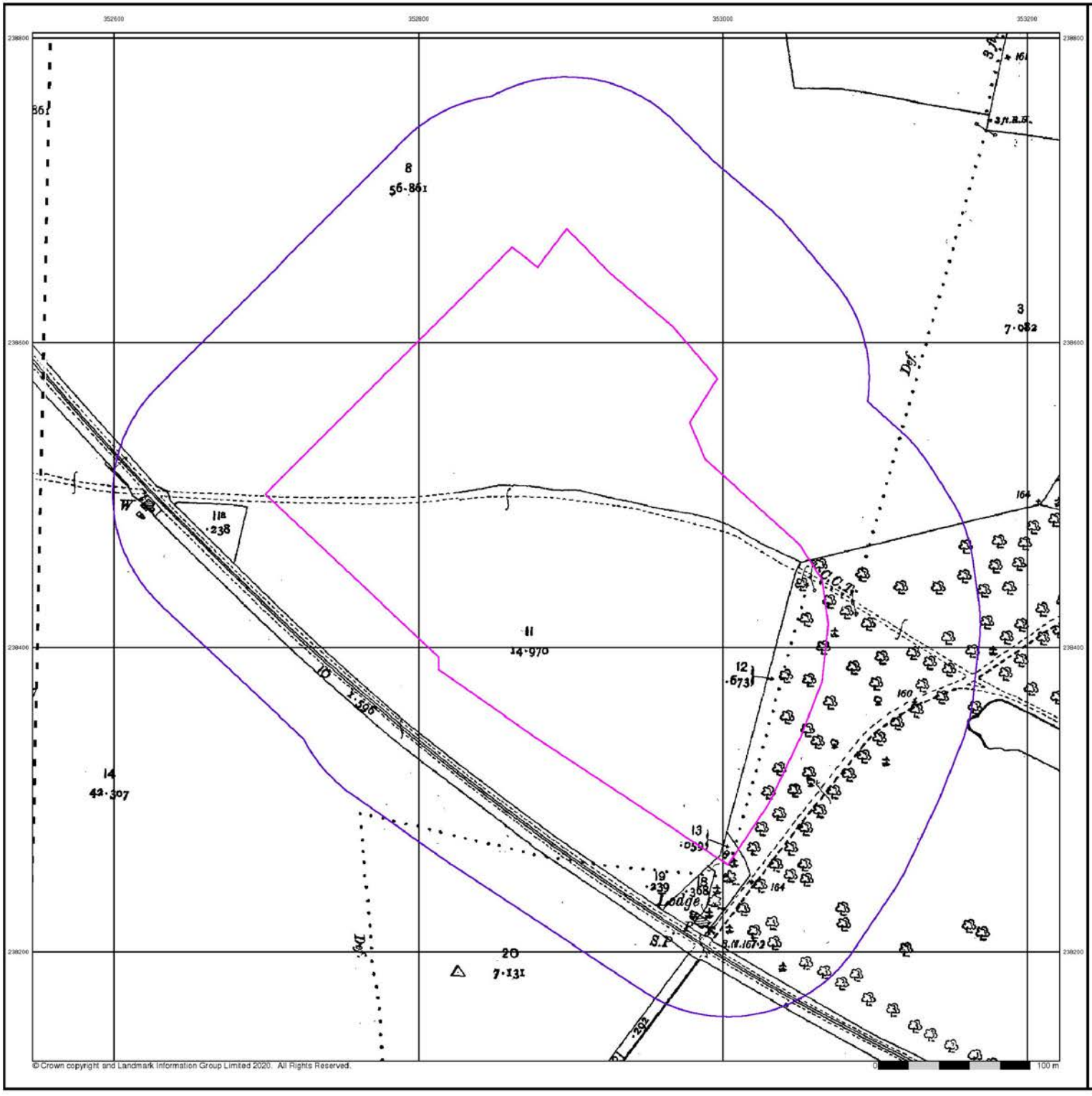

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Herefordshire

Published 1904

Source map scale - 1:2,500

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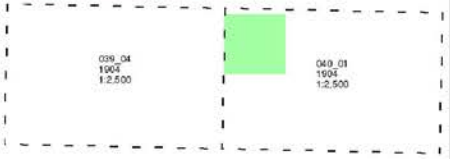
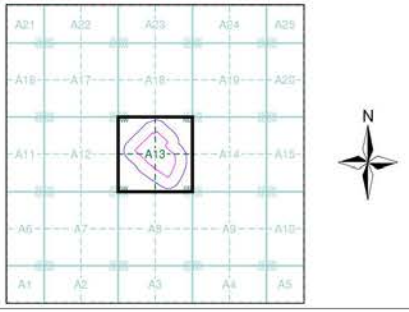


Historical Map - Segment A13



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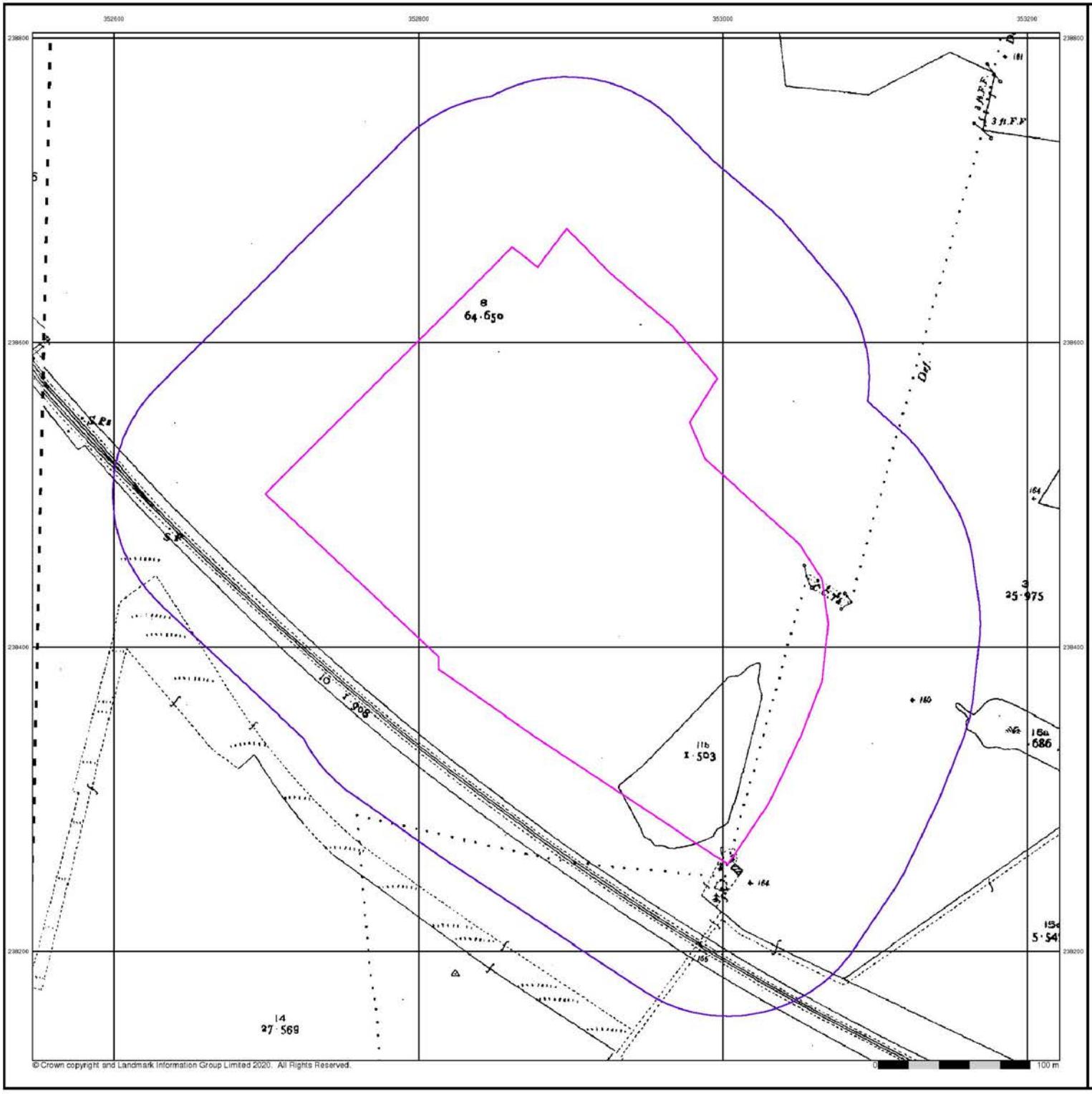

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Herefordshire

Published 1928 - 1929

Source map scale - 1:2,500

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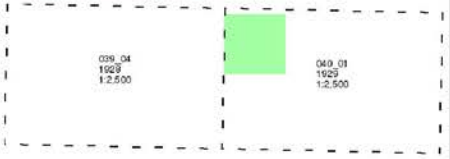
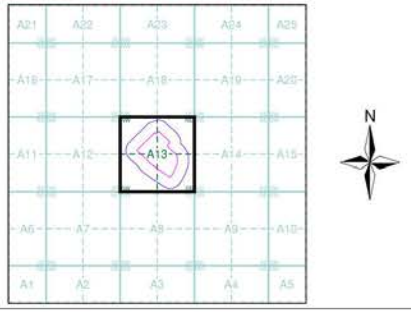


Historical Map - Segment A13



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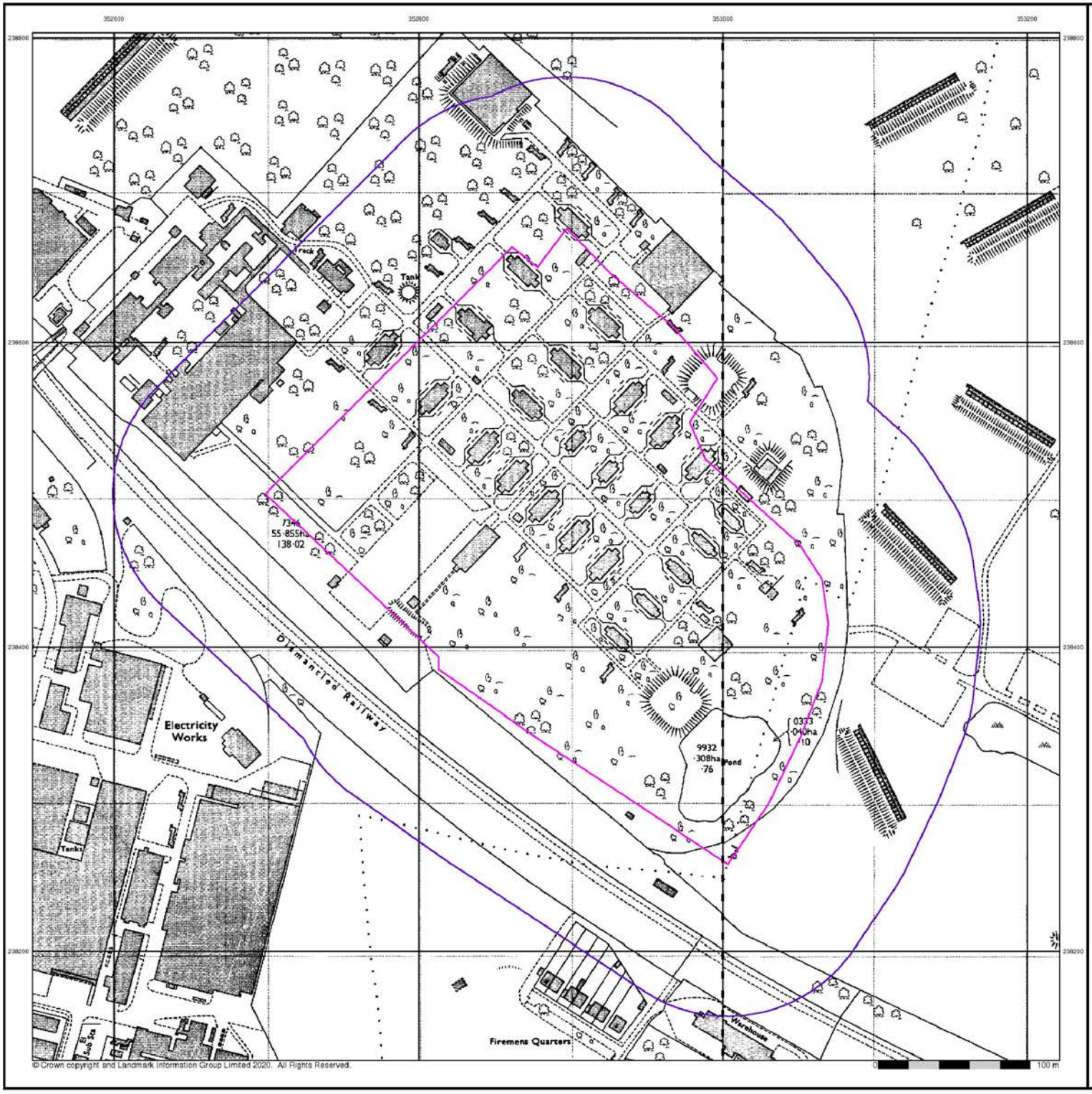

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Ordnance Survey Plan

Published 1973

Source map scale - 1:2,500

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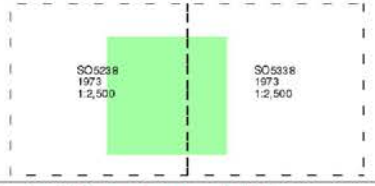
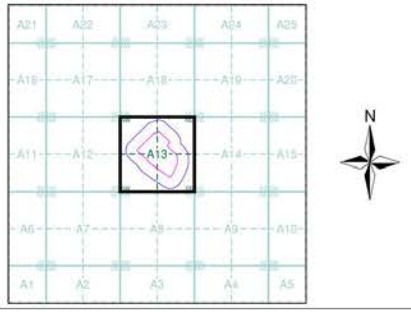


Historical Map - Segment A13



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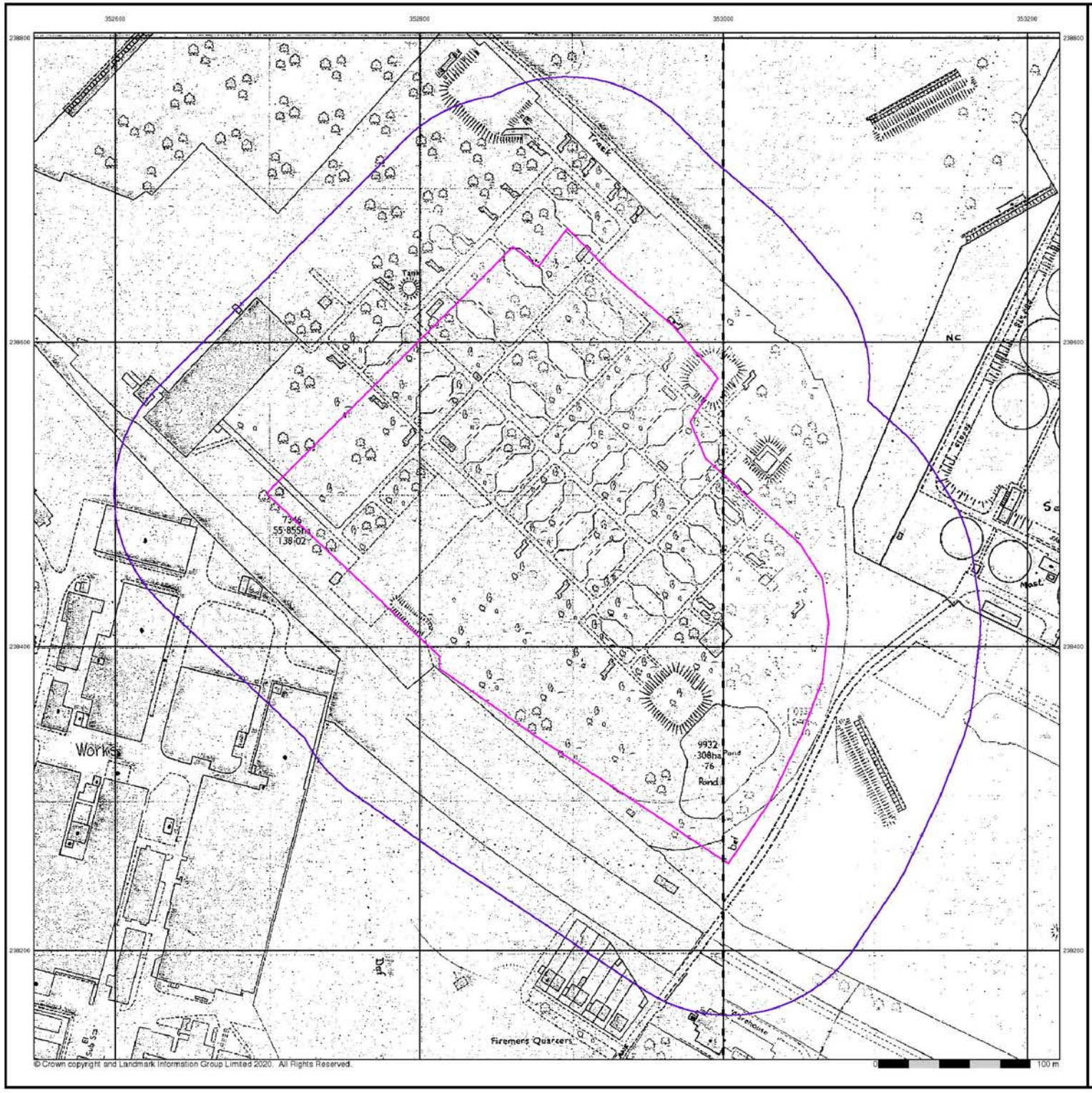

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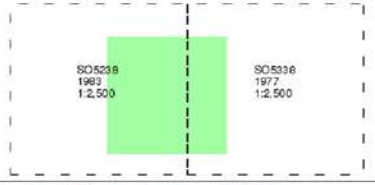
Additional SIMs

Published 1977 - 1983

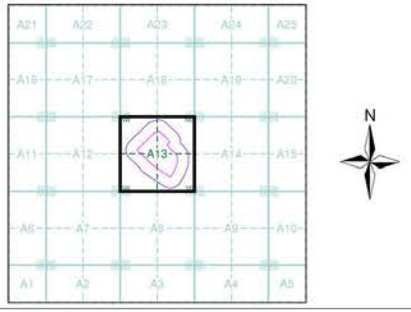
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	247715231_1_1
Customer Ref:	E17879
National Grid Reference:	352900, 238470
Slice:	A
Site Area (Ha):	8.19
Search Buffer (m):	100

Site Details

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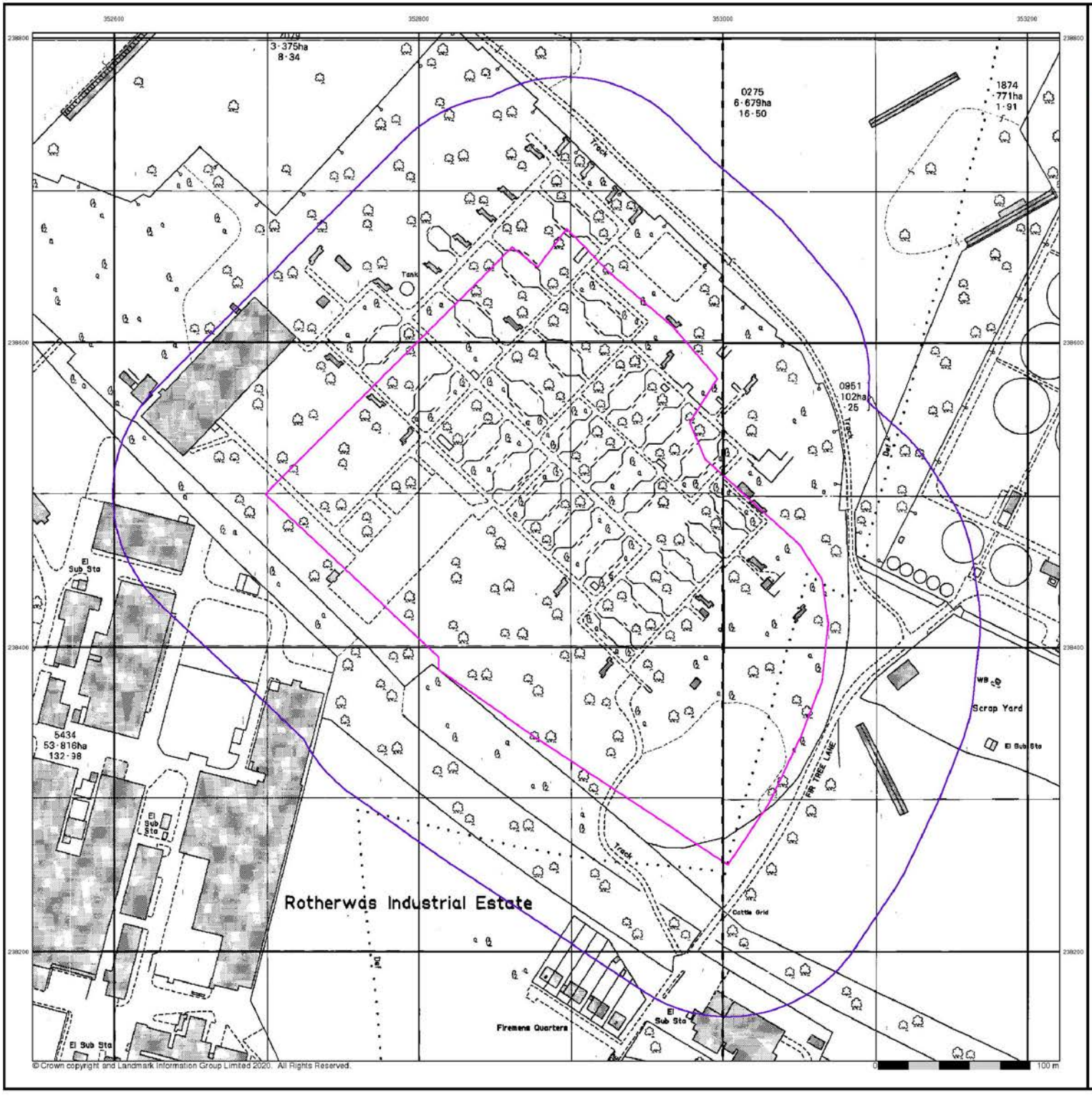

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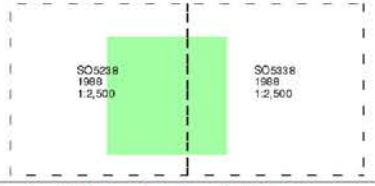
Ordnance Survey Plan

Published 1988

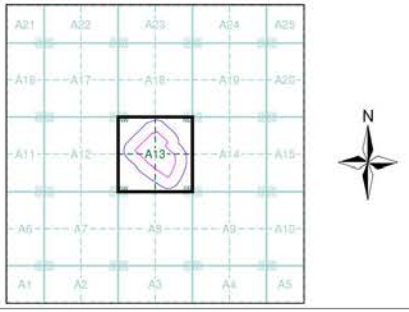
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



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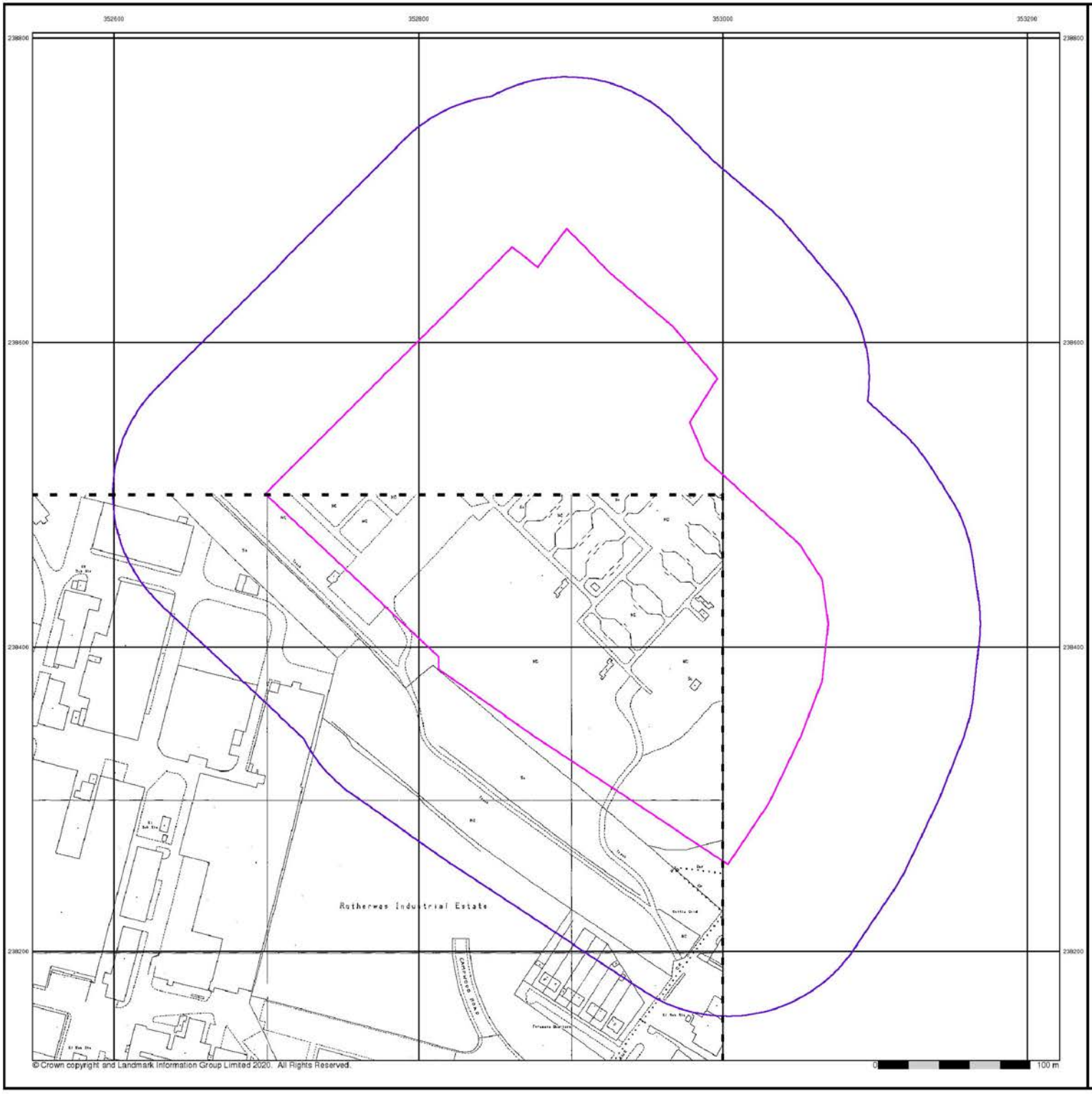

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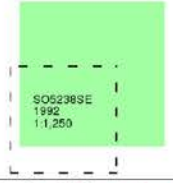
Additional SIMs

Published 1992

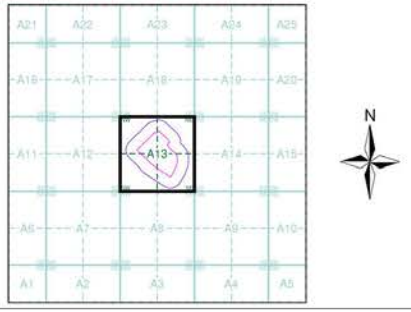
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



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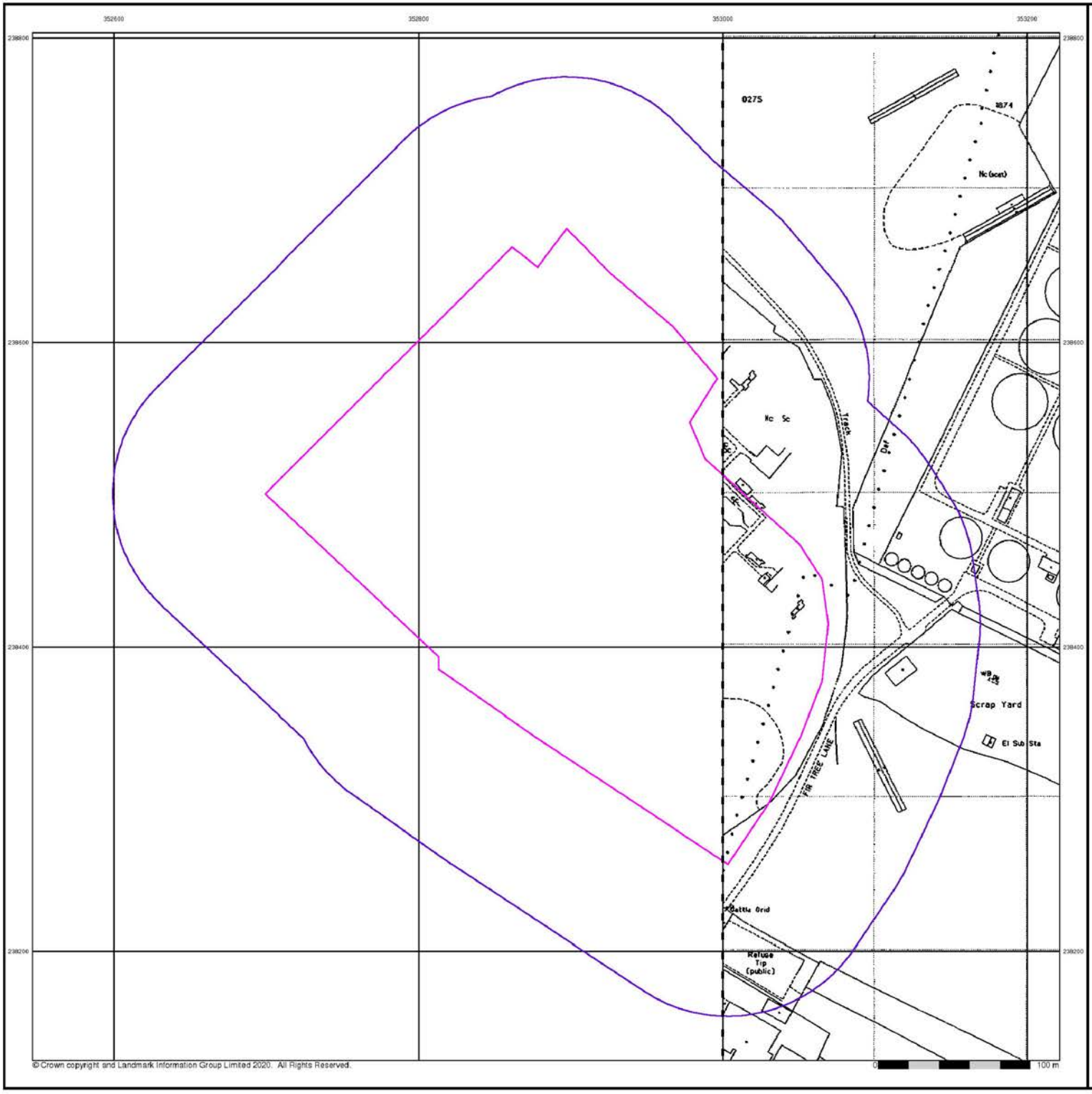

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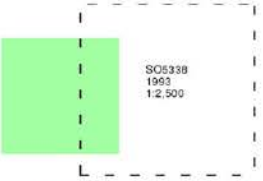
Large-Scale National Grid Data

Published 1993

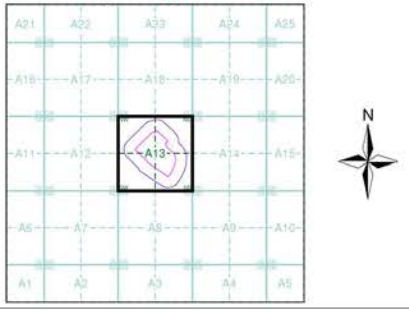
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



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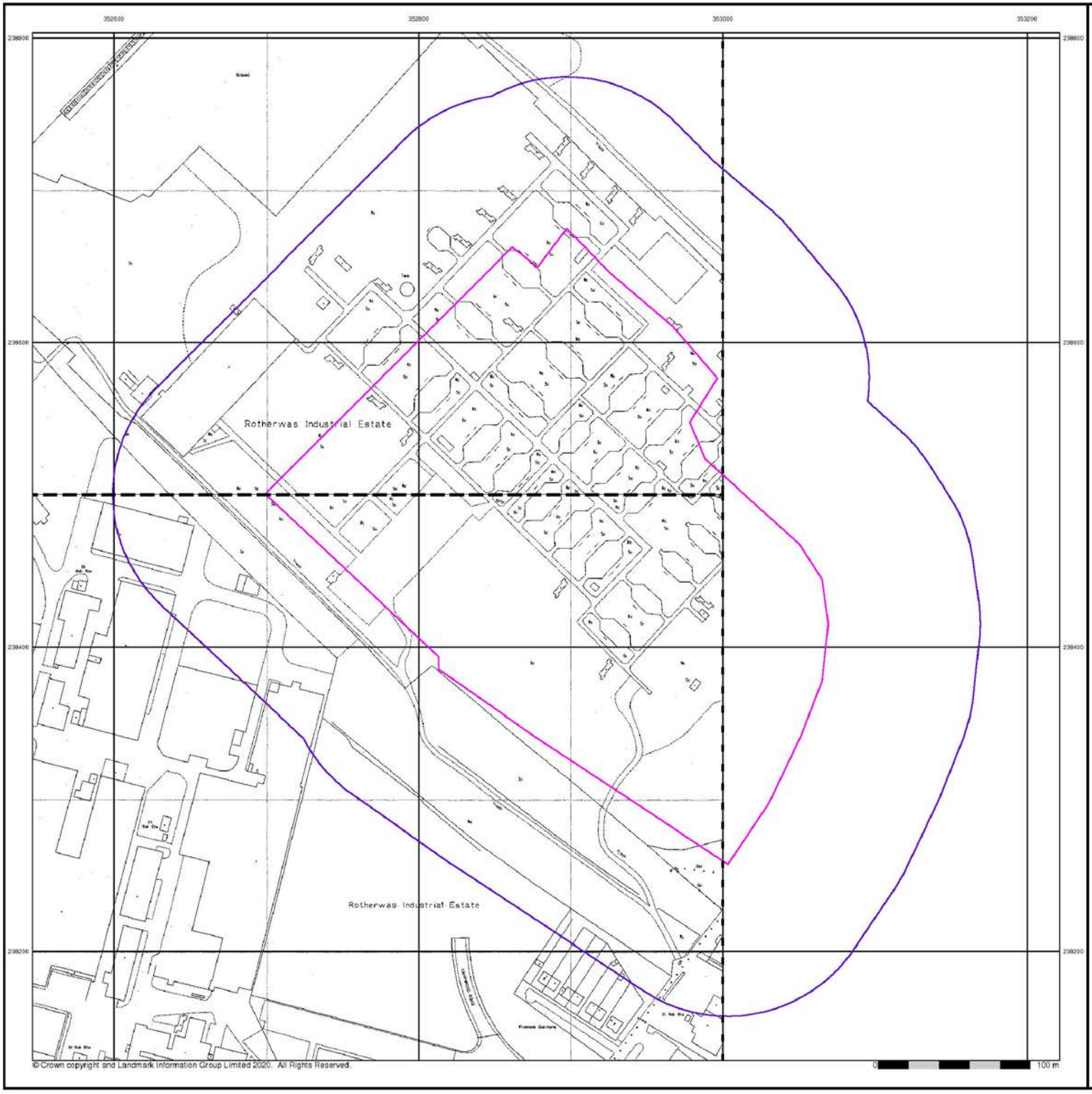

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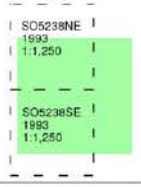
Large-Scale National Grid Data

Published 1993

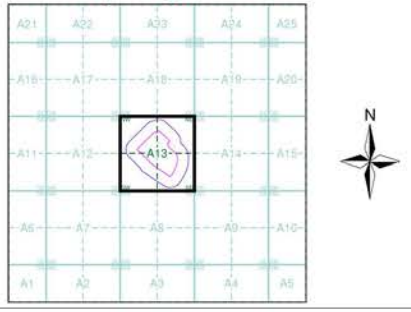
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



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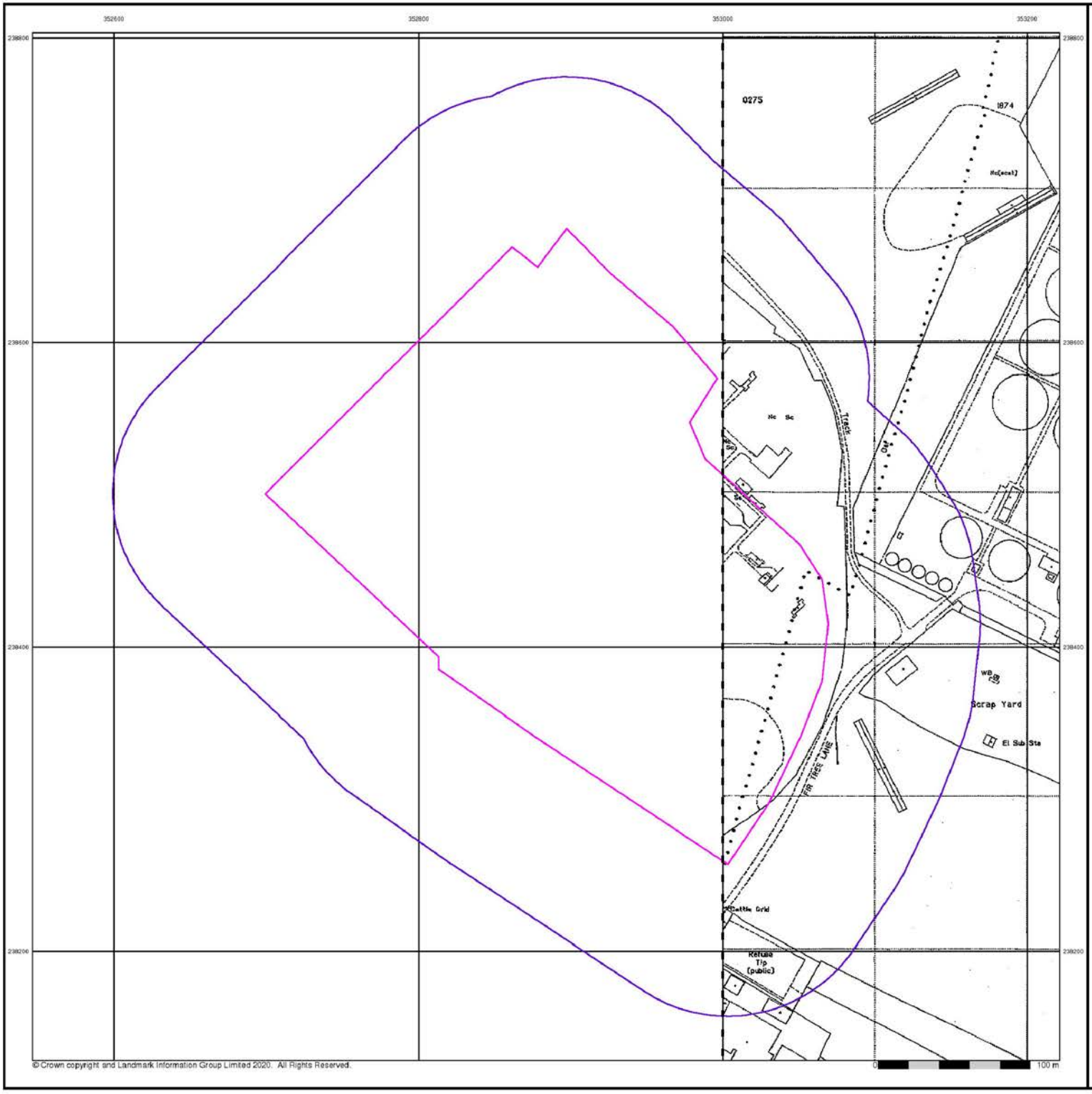

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Large-Scale National Grid Data

Published 1996

Source map scale - 1:2,500

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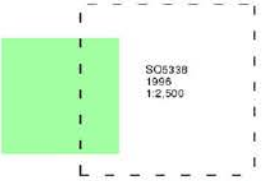
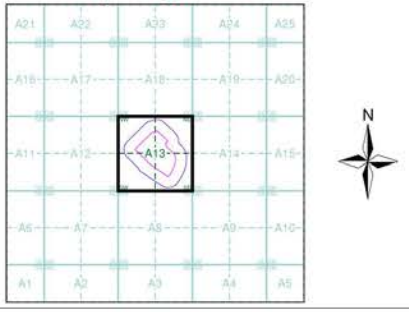


Historical Map - Segment A13



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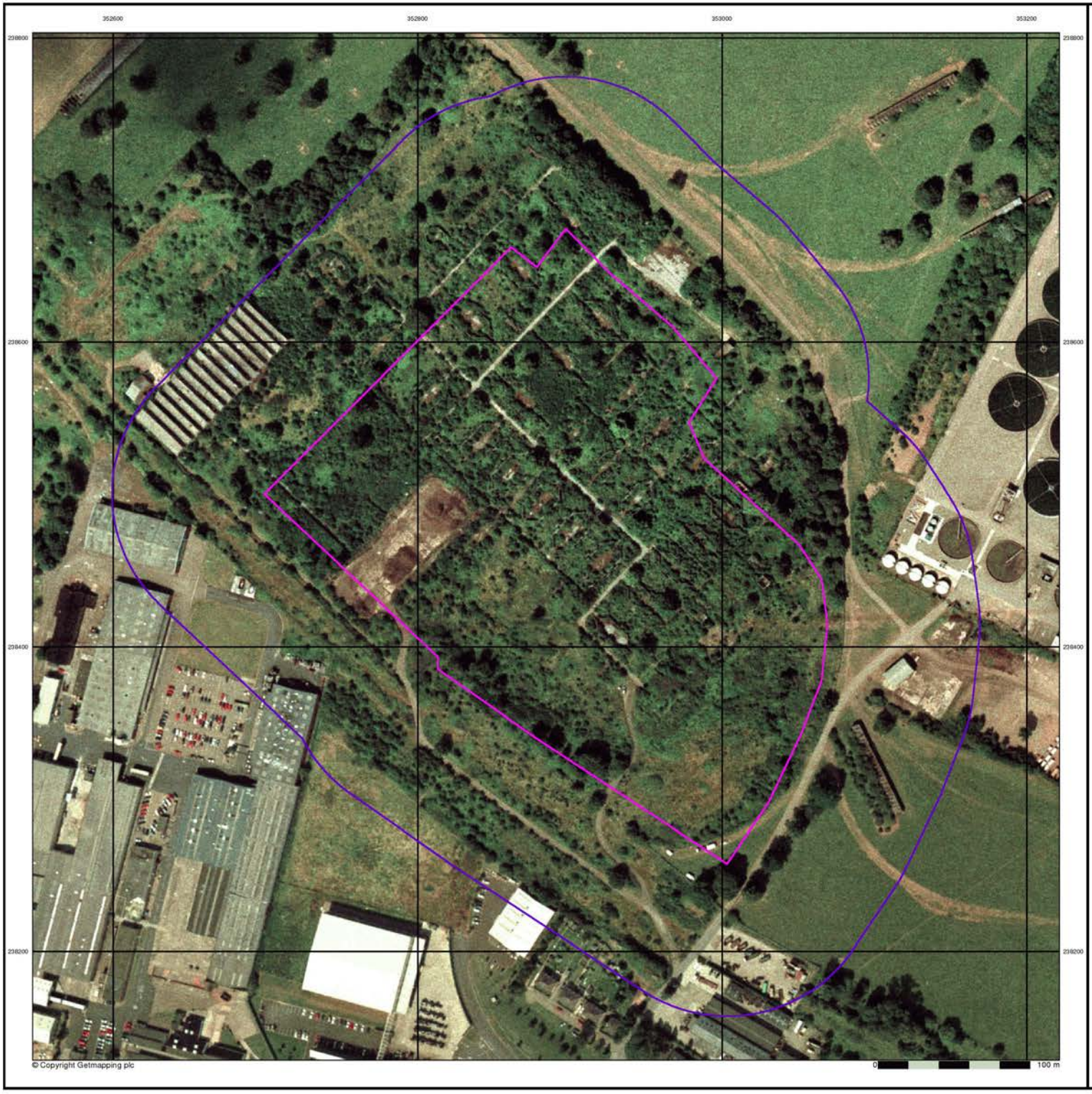

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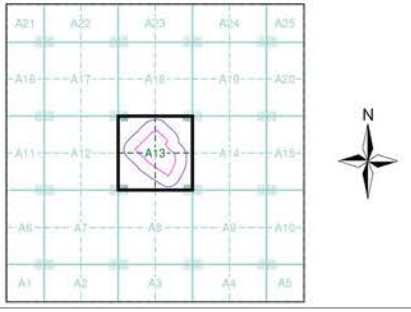
Historical Aerial Photography

Published 1999

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



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Appendix D – Owen Pell Information

From:	andyprice@owenpell.co.uk
To:	Andrew Harrison
Cc:	Andrew Palmer
Subject:	RE: E17879 - HEZ N. Magazine 2011 Site Clearance and 2012 Flood Alleviation Works
Date:	28 January 2021 16:53:32
Attachments:	image020.png image021.png image013.png image014.png

---

Hi Andrew,

I really can't remember, however it must have been during the better weather, due to the amount of soil being moved.

Regards,

Andy

From: Andrew Harrison <Andrew.harrison@ems-geotech.co.uk>
Sent: 28 January 2021 16:51
To: andyprice@owenpell.co.uk
Cc: Andrew Palmer <apalmer@owenpell.co.uk>
Subject: RE: E17879 - HEZ N. Magazine 2011 Site Clearance and 2012 Flood Alleviation Works

Good afternoon Andy

Thank you for the information. That's great. I don't suppose you can remember roughly when in 2011 and 2012 you undertook the works?

Regards

Andrew

Andrew Harrison BSc. MSc. FGS
Senior Geo-Environmental Engineer

(T) Hereford: 01432 263333
(T) Worcester: 01905 953 780
(M): 07584 209321
Email: andrew.harrison@ems-geotech.co.uk

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From: andyprice@owenpell.co.uk <andyprice@owenpell.co.uk>
Sent: 28 January 2021 16:41
To: Andrew Harrison <Andrew.harrison@ems-geotech.co.uk>
Cc: Andrew Palmer <apalmer@owenpell.co.uk>
Subject: RE: E17879 - HEZ N. Magazine 2011 Site Clearance and 2012 Flood Alleviation Works

Hi Andrew,

After your surveys we undertook asbestos removal with Hereford Asbestos Services, who disposed of all of the hazardous material. We then built up the site levels with a mixture of excavated material from the pond, as you suggested, and imported material from the Council / Amey. I think the imported material came from the Yazor Brook Flood Alleviation scheme, undertaken by Dawnus/Amey/Herefordshire Council.

Regards,

Andy

From: Andrew Palmer <apalmer@owenpell.co.uk>
Sent: 28 January 2021 16:08
To: andyprice@owenpell.co.uk
Subject: FW: E17879 - HEZ N. Magazine 2011 Site Clearance and 2012 Flood Alleviation Works

Andy,

Please see email from EMS below

Can you remember the detail ?

Andrew

From: Andrew Harrison <Andrew.harrison@ems-geotech.co.uk>
Sent: 28 January 2021 15:28
To: apalmer@owenpell.co.uk
Subject: E17879 - HEZ N. Magazine 2011 Site Clearance and 2012 Flood Alleviation Works

Good afternoon Andrew

Hope you are well and had a good Christmas and Happy New Year.

I am in the process of pulling together our site investigation reports for the Skylon Park, North Magazine site, which I spoke to you about when we were on site last December doing the haul road / bund works.

I have some queries relating to the clearance and flood alleviation works undertaken by Owen Pell in 2011 and 2012 that hopefully you can answer.

Looking through our EMS Asbestos reports it is apparent that they attended site in August and September 2009 and between July and November 2011. During these visits various asbestos containing materials (ACMs) including pipe lagging, bituminous felt debris, cement debris, millboard debris and thermal insulation were identified. These were associated with the pipework serving the blast walls, roadways, various unidentified buildings and a bunker on-site.

It was recommended that the more serious ACMs, such as the thermal insulation, were removed by licensed specialist contractor and that surface hand picking was undertaken to remove ACM debris across the site.

Can you confirm when in 2011 Owen Pell undertook the site clearance works, whether ACMs were removed licensed contractors and what happened to the ACMs removed off-site?

It is understood that once the clearance works were completed in 2011, Owen Pell undertook flood Alleviation works in 2012 which included raising the sitewide ground levels.

I was speaking with one of your guys on-site during the haul road / bund works who was involved with the flood alleviation works. He informed me that the soil excavated to create the pond to the northwest of the Shell Store was used to raise the ground levels on North Magazine as part of the flood alleviation works.

Can you confirm that this was the case and weather any other soils were brought to site for this purpose? If so where were they sourced from?

Can you also confirm when in 2012 Owen Pell undertook the flood alleviation works?

Hope to speak soon.

Regards

Andrew

Andrew Harrison BSc. MSc. FGS
Senior Geo-Environmental Engineer

(T) Hereford: 01432 263333
(T) Worcester: 01905 953 780
(M): 07584 209321
Email: andrew.harrison@ems-geotech.co.uk

(W): www.emsgroupuk.com

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Clearance of Old Munitions Factory / Rotherwas Futures Enterprise Zone

Client: Herefordshire Council
Date: 2011
Duration: 3 Months
Contract Value: £1.5M

Demolition and clearance of WW1 and WW2 munitions factorybuildings and roadways including crushing/recycling, removal of metals and hazardous materials, bulk earthworks, tree clearance and asbestos removal.

Related Work

Flood Defences

Cycle and Foot Path

Industrial Estate Roads

Hereford Futures Access Roads

Contact Us

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Building & Civil Engineering Contractors
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Rotherwas,
Hereford
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- Roads
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- Timber Cladding
- Industrial Buildings
- Refurbishment
- Ofiice Builds
- Landscaping
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- Agricultural
- Swales
- Housing Estates
- Factory Buildings
- Eco Buildings
- Hereford Builders

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Flood Alleviation/ Rotherwas

Client: Herefordshire Council
Date: 2012
Contract Value: £500K

Bulk earthworks, pond construction and swales to minimise flooding of new enterprise park in South Hereford.

Related Work

Credenhill Ccycleway and Footway

New Roads

Holmer Cycleway

Greenway Foot and Cycle Path

Contact Us

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Refurbishment
Ofiice Builds

Landscaping
Footpaths
Agricultural
Swales
Housing Estates
Factory Buildings
Eco Buildings
Hereford Builders

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Appendix E – Envirocheck Report - Geological Data

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	RG	Raglan Mudstone Formation	Sandstone	Not Supplied - Pridoli
		Faults		

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	GFSDD	Glaciofluvial Sheet Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Not Supplied - Quaternary
	RTD2	River Terrace Deposits, 2	Sand and Gravel	Not Supplied - Quaternary
	RTD3	River Terrace Deposits, 3	Sand and Gravel	Not Supplied - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary
	RTD4	River Terrace Deposits, 4	Sand and Gravel	Not Supplied - Quaternary
	LUG4	River Terrace Deposits, 4 (Lugg)	Sand and Gravel	Not Supplied - Quaternary
	LUG3	River Terrace Deposits, 3 (Lugg)	Sand and Gravel	Not Supplied - Quaternary
	LUG1	River Terrace Deposits, 1 (Lugg)	Sand and Gravel	Not Supplied - Quaternary
	LUG2	River Terrace Deposits, 2 (Lugg)	Sand and Gravel	Not Supplied - Quaternary
	ALF	Alluvial Fan Deposits	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SMG	St Maughans Formation	Sandstone	Not Supplied - Early Devonian
	SMG	St Maughans Formation	Argillaceous Rocks and [Subequal/Subordinate] Sandstone, Interbedded	Not Supplied - Early Devonian
	RG	Raglan Mudstone Formation	Siltstone and Mudstone, Interbedded	Not Supplied - Pridoli

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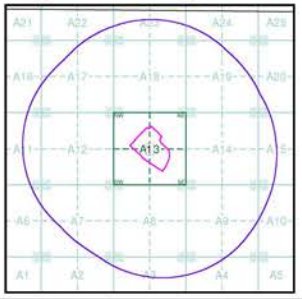
Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	215
Map Name:	Ross on Wye
Map Date:	2000
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



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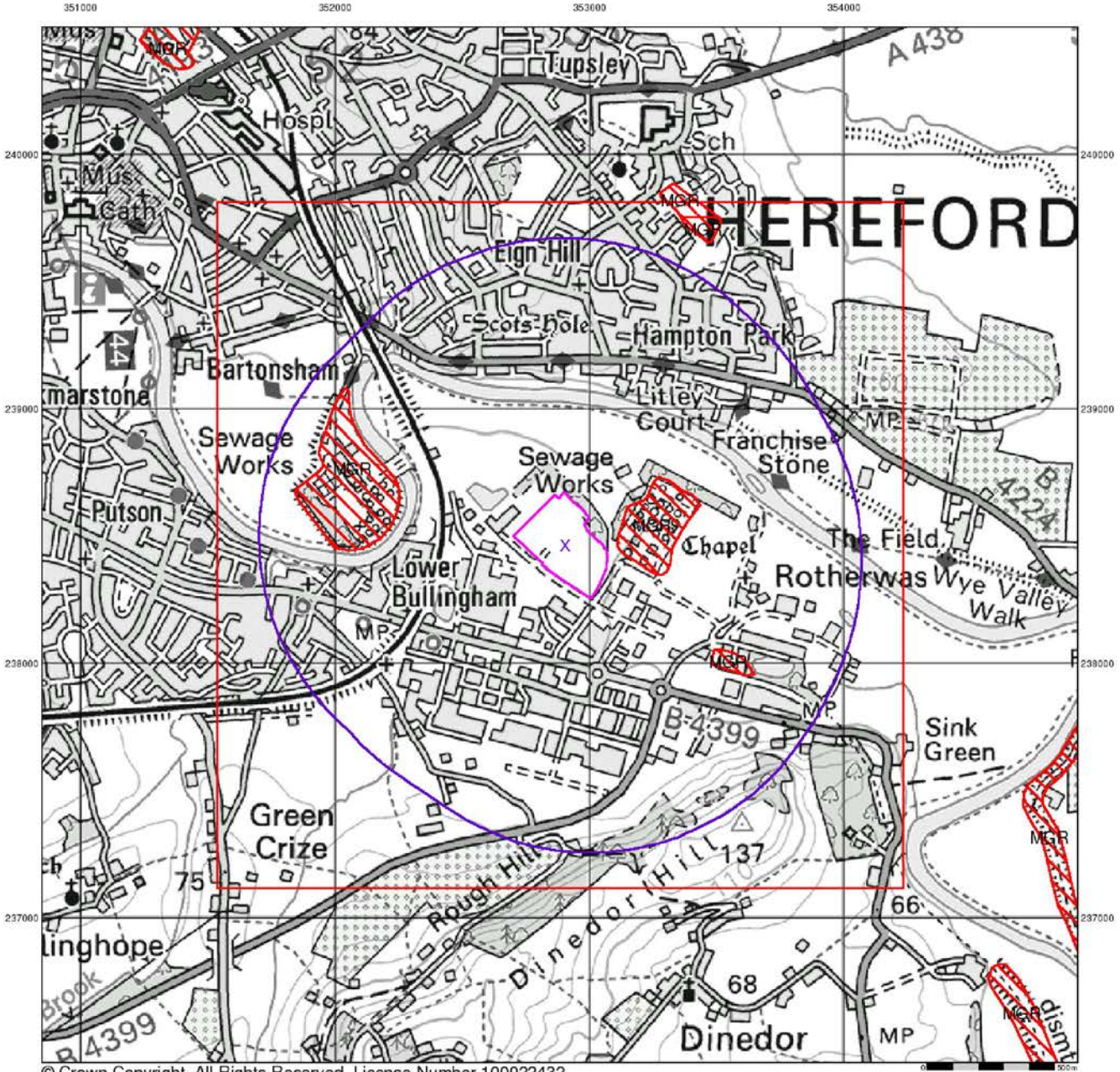
Order Details:

Order Number:	247715231_1_1
Customer Reference:	E17879
National Grid Reference:	352900, 238470
Slice:	A
Site Area (Ha):	8.19
Search Buffer (m):	1000

Site Details:

HEZ - North Magazine, Rotherwas Industrial Estate, HEREFORD, HR2 6ST



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Artificial Ground and Landslip

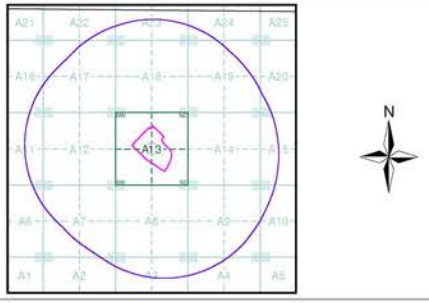
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



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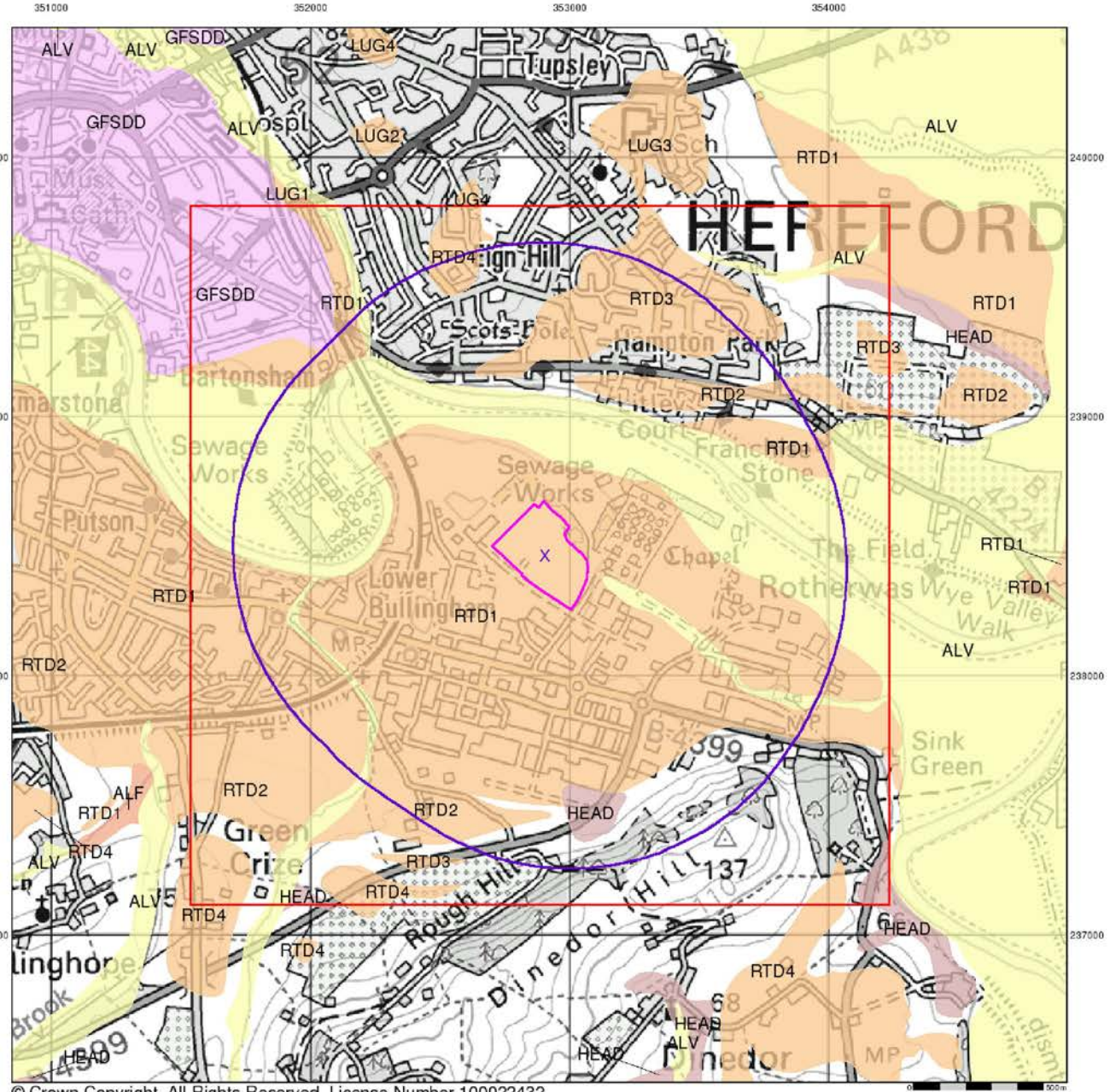

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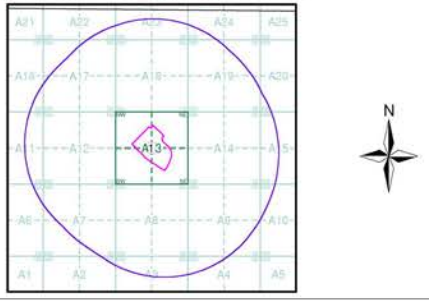
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



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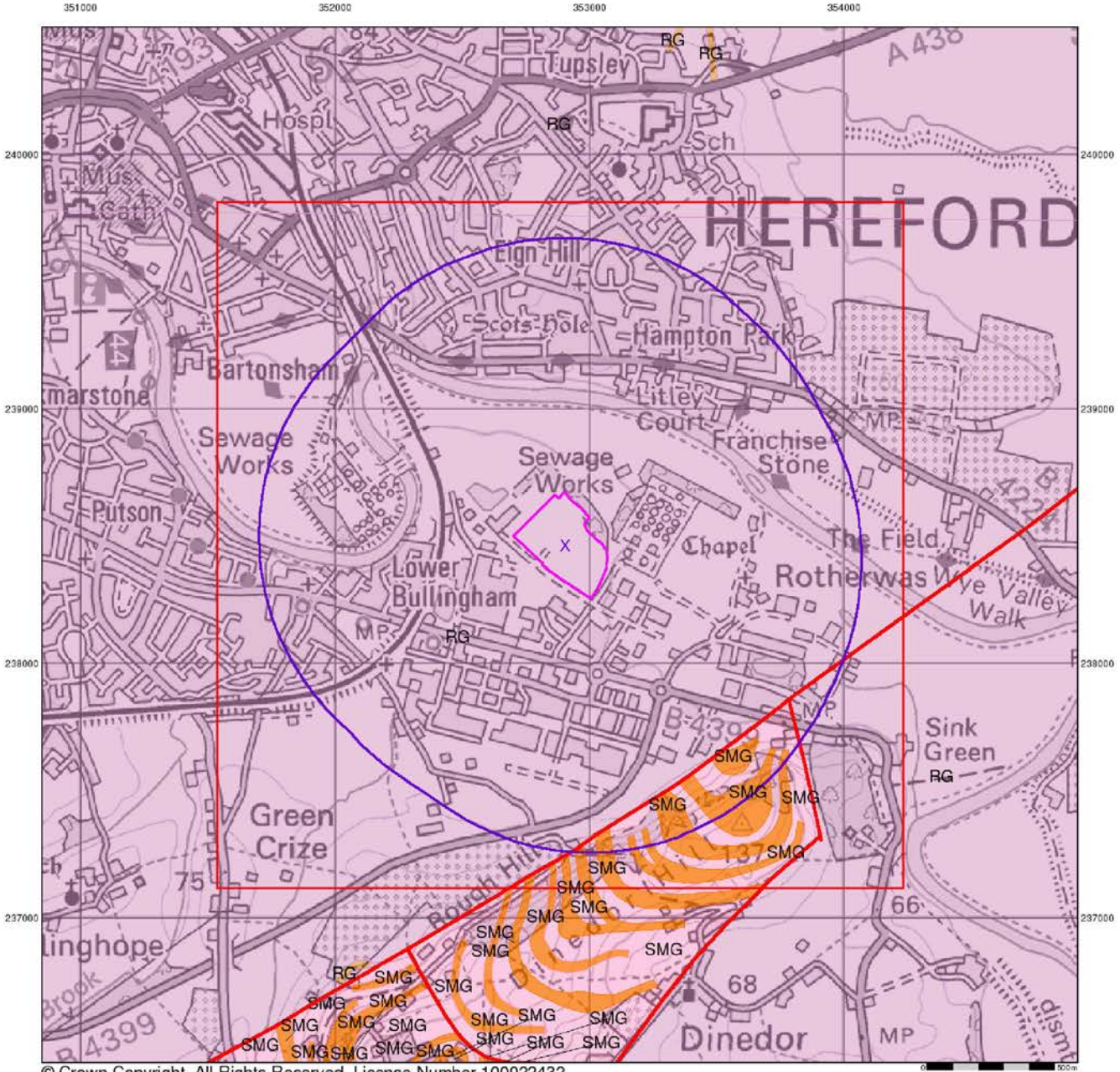

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Bedrock and Faults

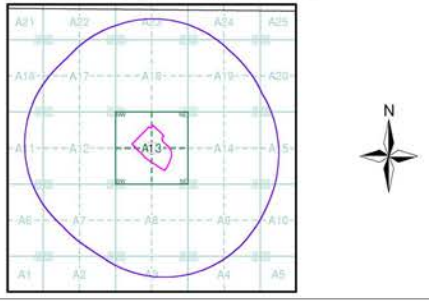
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



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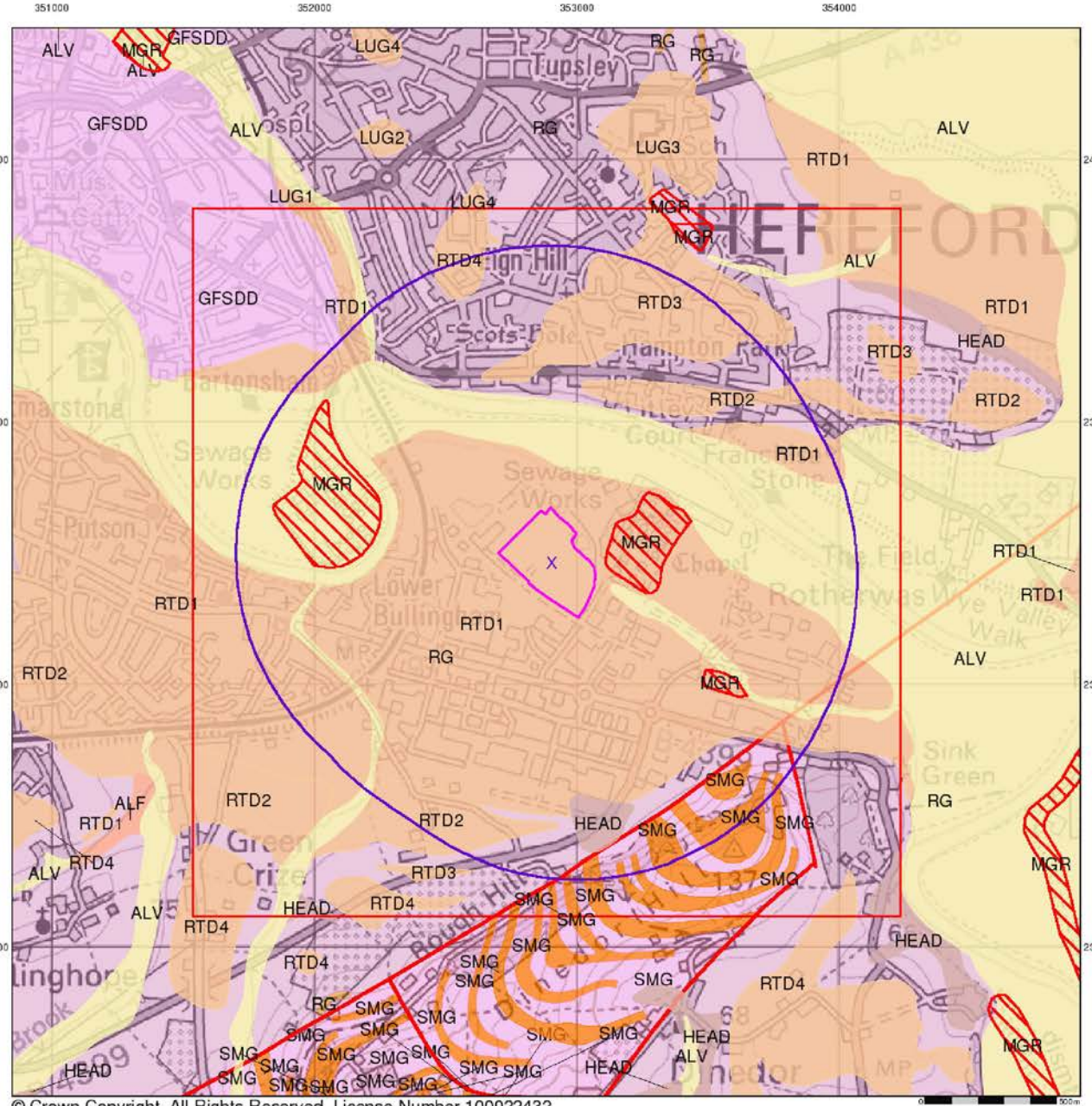

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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

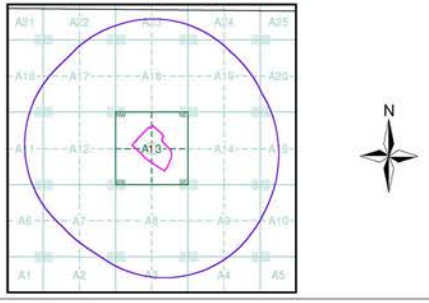
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details:

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National Grid Reference:	352900, 238470
Slice:	A
Site Area (Ha):	8.19
Search Buffer (m):	1000

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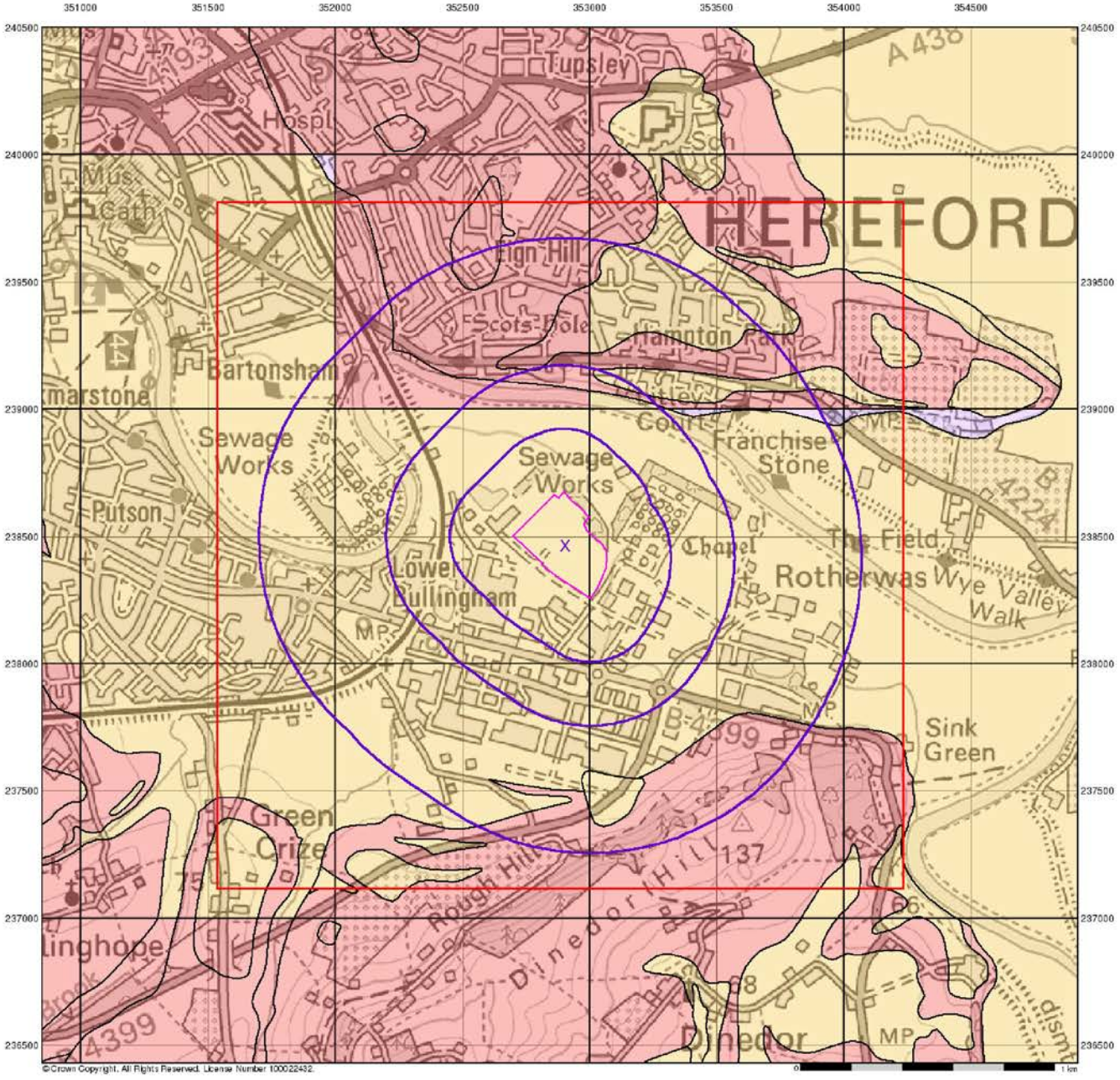
Appendix F – Envirocheck Report - Environmental Data



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Groundwater Vulnerability

General

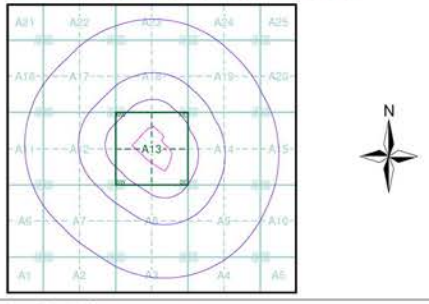
Specified Site
Specified Buffer(s)
Bearing Reference Point
Slice
Map ID

Agency and Hydrological

Bedrock Aquifers	Superficial Aquifers
High Vulnerability, Principal Aquifer	High Vulnerability, Principal Aquifer
High Vulnerability, Secondary Aquifer	High Vulnerability, Secondary Aquifer
Medium Vulnerability, Principal Aquifer	Medium Vulnerability, Principal Aquifer
Medium Vulnerability, Secondary Aquifer	Medium Vulnerability, Secondary Aquifer
Low Vulnerability, Principal Aquifer	Low Vulnerability, Principal Aquifer
Low Vulnerability, Secondary Aquifer	Low Vulnerability, Secondary Aquifer

Unproductive Aquifer
Soluble Rock

Site Sensitivity Context Map - Slice A



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Customer Ref:	E17879
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Slice:	A
Site Area (Ha):	8.19
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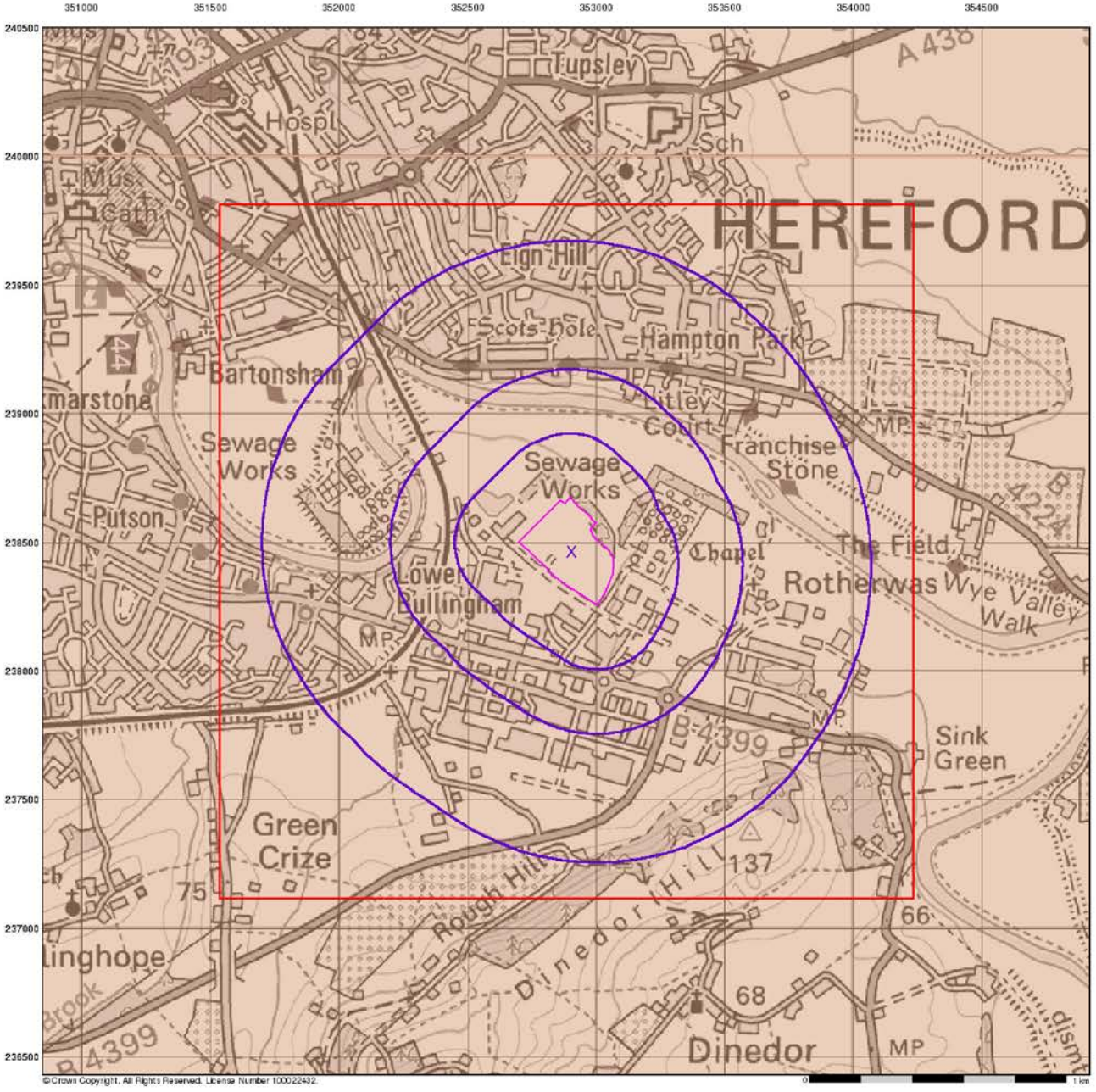

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Bedrock Aquifer Designation

General

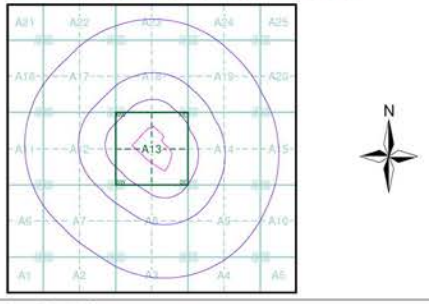
Specified Site
Specified Buffer(s)
Bearing Reference Point
Slice
Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



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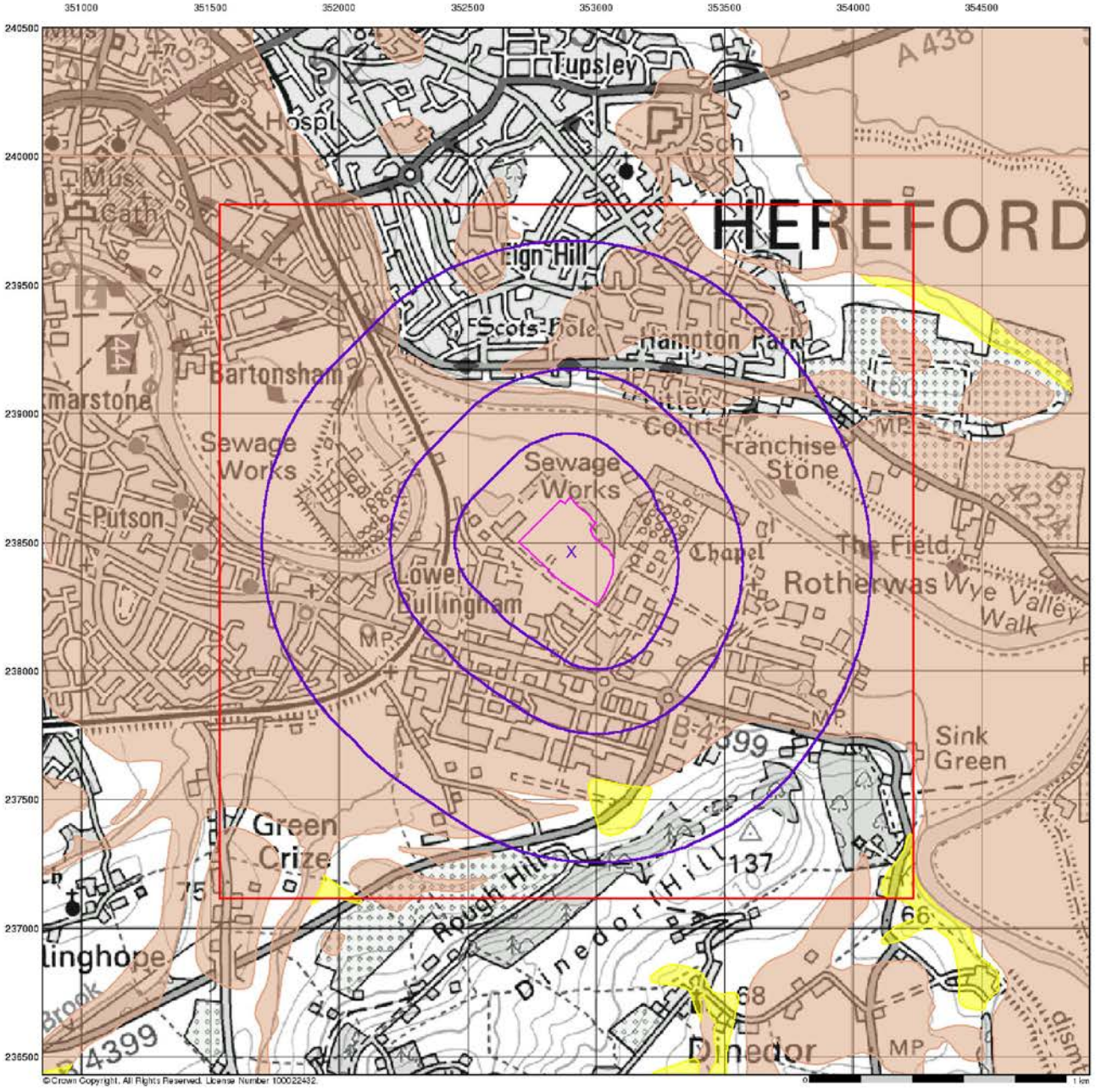

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Superficial Aquifer Designation

General

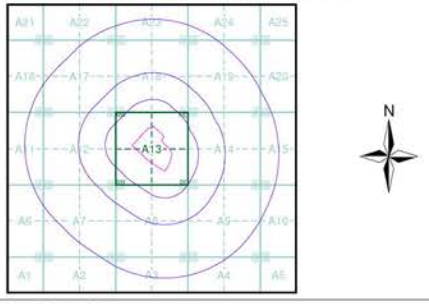
Specified Site
Specified Buffer(s)
Bearing Reference Point
Slice
Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



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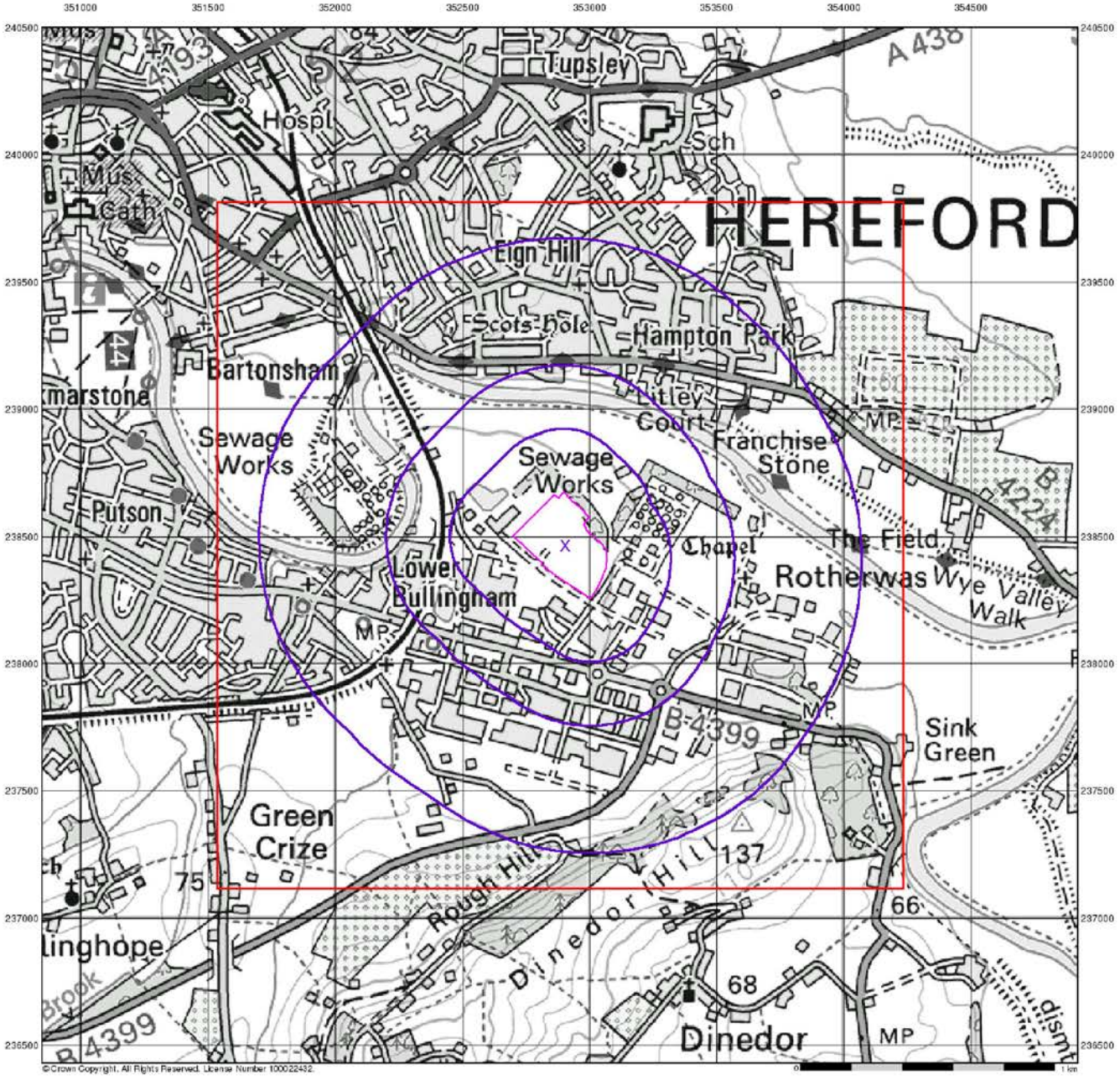

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Source Protection Zones

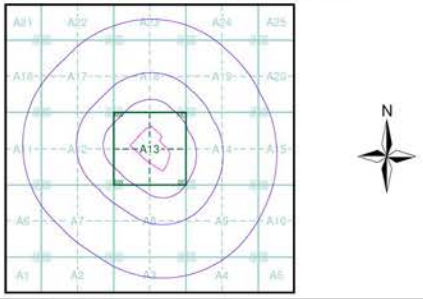
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



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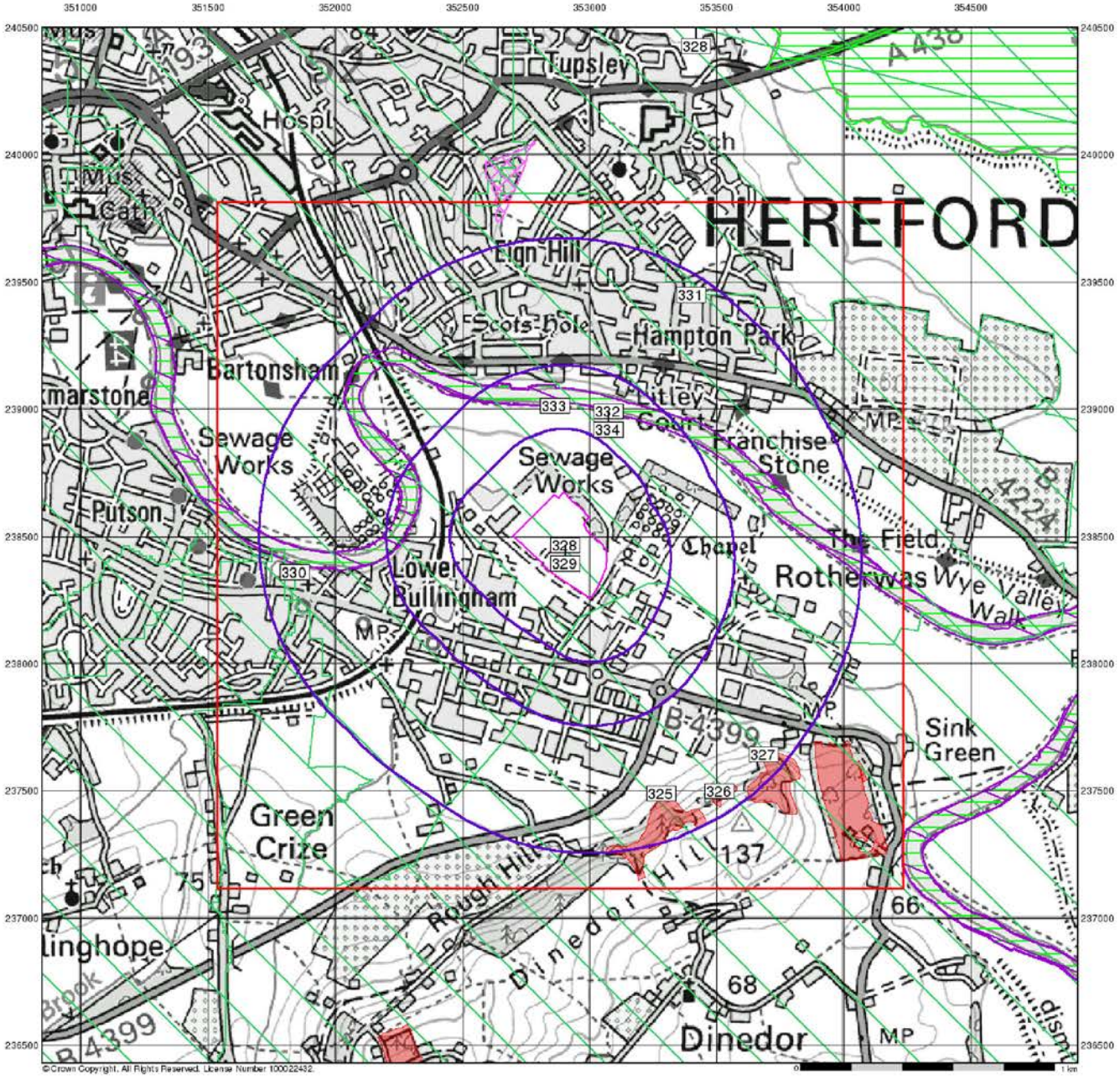

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Sensitive Land Uses

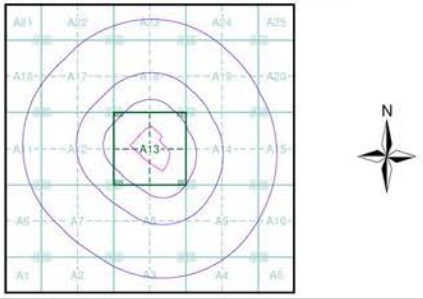
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



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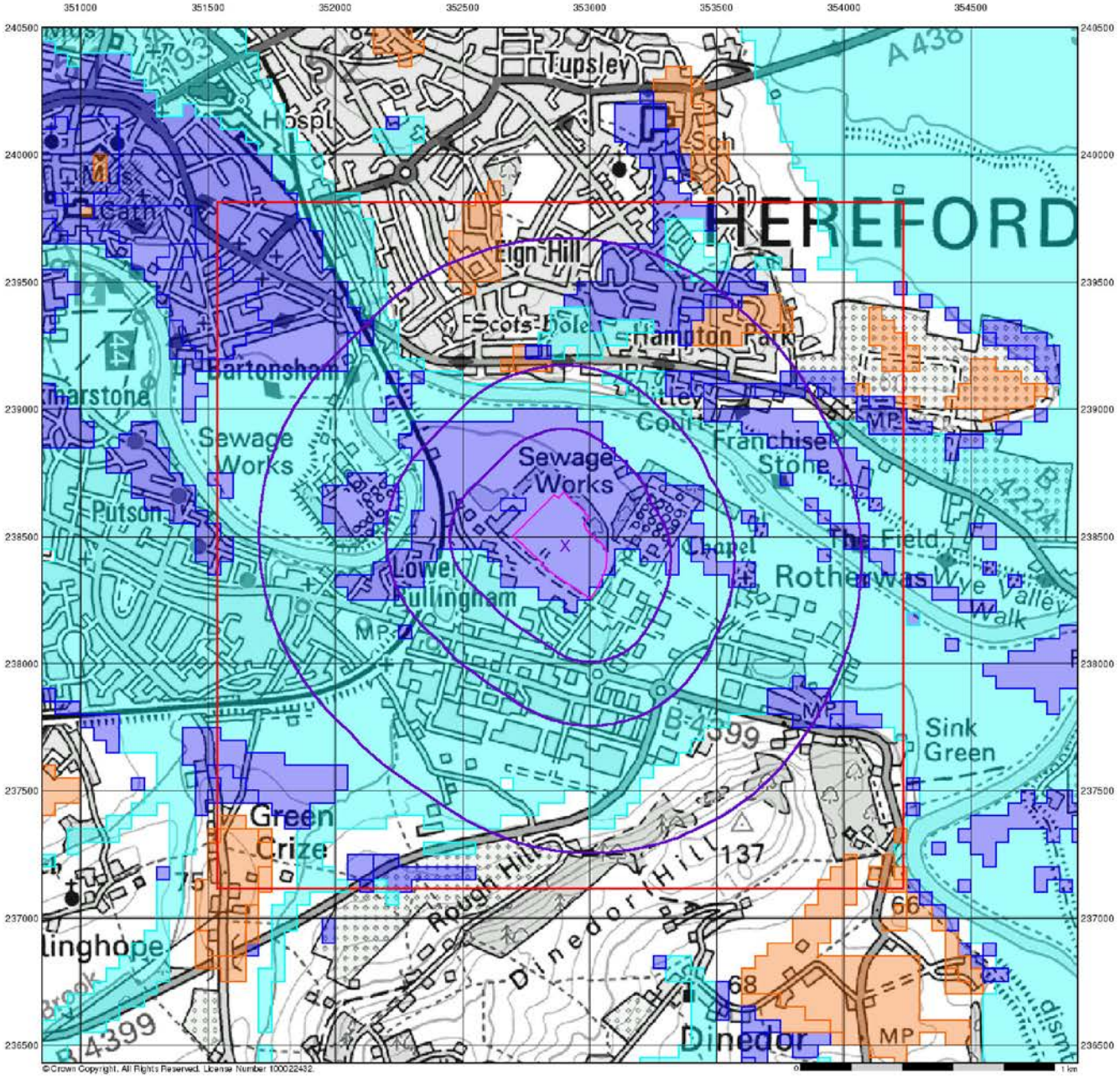

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BGS Flood GFS Data

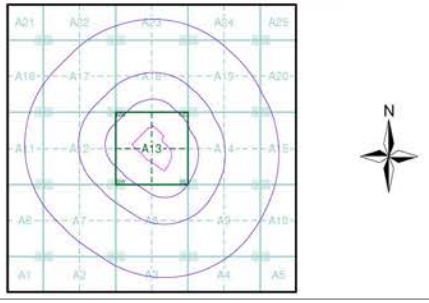
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



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Datasheet

Order Details:

Order Number:
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Site Area (Ha):
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1000

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Client Details:

Mr J Perkins
EMS (Environmental Management Solutions)
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Herefordshire
HR2 6BQ

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Contents

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Geological	64
Industrial Land Use	67
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Data Currency	97
Data Suppliers	102
Useful Contacts	103

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.
In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			12	92
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 27			1	
Integrated Pollution Prevention And Control	pg 27				5
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 28		5	8	5
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 30		Yes		
Pollution Incidents to Controlled Waters	pg 31		2	1	40
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 38			2	1
River Quality Biology Sampling Points	pg 38				1
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 38	1		1	4
Water Abstractions	pg 39			1	1 (*20)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 45	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 45	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 45	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 45	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 47	Yes		n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 47			5	48

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 54				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 54		2	3	10
Local Authority Landfill Coverage	pg 57	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 57				4
Potentially Infilled Land (Water)	pg 58	1	1	1	7
Registered Landfill Sites	pg 58				1
Registered Waste Transfer Sites	pg 59		2		4
Registered Waste Treatment or Disposal Sites	pg 61				2
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 63				1
Explosive Sites	pg 63		1		1
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 64	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 64	Yes			Yes
BGS Recorded Mineral Sites	pg 64			1	3
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 65	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 65	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 65		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 65	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 65	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 65		Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 66	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 67		25	60	123
Fuel Station Entries	pg 85			1	
Points of Interest - Commercial Services	pg 86		10	11	32
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 90		5	2	16
Points of Interest - Public Infrastructure	pg 92		3	8	18
Points of Interest - Recreational and Environmental	pg 95				7
Gas Pipelines					
Underground Electrical Cables					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 96				3
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 96	2			2
Ramsar Sites					
Sites of Special Scientific Interest	pg 96			1	
Special Areas of Conservation	pg 96			2	
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SW)	0	1	352903 238465
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (SE)	0	1	353050 238350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	35	1	352750 238600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	461	1	352250 238600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18NW (N)	478	1	352850 239150
1	**Discharge Consents** Operator: Thorn Lighting Ltd Property Type: Undefined Or Other Location: Rotherwas Estate - Smart & Bro Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: Ah4005001 Permit Version: 1 Effective Date: 10th October 1975 Issued Date: 10th October 1975 Revocation Date: 15th October 1992 Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Wye River **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	356	2	352500 238200
1	**Discharge Consents** Operator: Thorn Lighting Ltd Property Type: Undefined Or Other Location: Rotherwas Estate - Smart & Bro, Unknown, Unknown, Unknown Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah4005001 Permit Version: 1 Effective Date: 10th October 1975 Issued Date: 10th October 1975 Revocation Date: 15th October 1992 Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: Wye River **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	356	2	352500 238200
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Rotherwas Ind Estate Stw Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: Ah1001301 Permit Version: 1 Effective Date: 30th January 1985 Issued Date: 30th January 1985 Revocation Date: 5th April 1995 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Wye River **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	408	2	352300 238580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rotherwas Ind Estate Stw, Unknown, Unknown, Unknown Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001301 Permit Version: 1 Effective Date: 30th January 1985 Issued Date: 30th January 1985 Revocation Date: 5th April 1995 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Wye River **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	408	2	352300 238580
3	**Discharge Consents** Operator: Mr And Mrs James A Griffith Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 78 Hampton Park Road Hereford 78 Hampton Park Road, Hereford, Herefordshire, England, Hr1 1tj Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0365901 Permit Version: 1 Effective Date: 12th July 2004 Issued Date: 12th July 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A18SE (N)	412	2	353055 239055
3	**Discharge Consents** Operator: Mr And Mrs James A Griffith Property Type: Domestic Property (Single) Location: 78 Hampton Park Road Hereford, Herefordshire, England, Hr1 1tj Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: An0365901 Permit Version: 1 Effective Date: 12th July 2004 Issued Date: 12th July 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A18SE (N)	412	2	353055 239055
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Nimrod Drive Pumping Station, Gortsy Lane, Hereford, Herefordshire, Hr1 1un Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0078301 Permit Version: 3 Effective Date: 26th July 2017 Issued Date: 26th July 2017 Revocation Date: 13th March 2020 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	477	2	353244 239001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Siddons Road Sewage Pumping Station Siddons Road, Hereford, ., Herefordshire, Hr1 1xd Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0078701 Permit Version: 5 Effective Date: 31st March 2020 Issued Date: 27th March 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	478	2	353246 239001
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Siddons Road Sewage Pumping Station Siddons Road, Hereford, ., Herefordshire, Hr1 1xd Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0078701 Permit Version: 4 Effective Date: 27th March 2018 Issued Date: 27th March 2018 Revocation Date: 30th March 2020 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	478	2	353246 239001
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Siddons Road Sewage Pumping Station Siddons Road, Hereford, ., Herefordshire, Hr1 1xd Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0078701 Permit Version: 3 Effective Date: 26th July 2017 Issued Date: 26th July 2010 Revocation Date: 26th March 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	480	2	353250 239000
4	**Discharge Consents** Operator: Hereford City Council Property Type: Livestock Production, Food Production Location: The Park Hampton Park Road Herefor, Hampton Park Road Hereford Here, Hereford Herefordshire Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: An0012801 Permit Version: 1 Effective Date: 26th August 1986 Issued Date: 26th August 1986 Revocation Date: 17th January 1995 Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Wye River **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	500	2	353280 239000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Hereford City Council Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: The Park Hampton Park Road Herefor The Park Hampton Park Road Here, Hampton Park Road Hereford Here, Hereford Herefordshire, Hereford Herefordshire, Herefordsh Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0012801 Permit Version: 1 Effective Date: 26th August 1986 Issued Date: 26th August 1986 Revocation Date: 17th January 1995 Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: Wye River **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	500	2	353280 239000
5	**Discharge Consents** Operator: Property Services Agency Property Type: Undefined Or Other Location: Property Services Agency Building 2, Building 214/215 Holme Lacy Road, Holme Lacy Road Rotherwas Herefo, Rotherwas Hereford Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: Ah4004801 Permit Version: 1 Effective Date: 1st April 1974 Issued Date: 1st April 1974 Revocation Date: 19th October 1992 Discharge Type: Unspecified Discharge Environment: Into And/Or Watercourse Receiving Water: Un Named Trib **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A8SE (S)	558	2	353000 237700
5	**Discharge Consents** Operator: Property Services Agency Property Type: Undefined Or Other Location: Property Services Agency Building 2 Property Services Agency Buildin, Building 214/215 Holme Lacy Road, Holme Lacy Road Rotherwas Herefo, Rotherwas Hereford, Hereford Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah4004801 Permit Version: 1 Effective Date: 1st April 1974 Issued Date: 1st April 1974 Revocation Date: 19th October 1992 Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: Un Named Trib **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A8SE (S)	558	2	353000 237700
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rotherwas Stw Fir Tree Lane Hfd Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001201 Permit Version: 11 Effective Date: 24th August 2010 Issued Date: 24th August 2010 Revocation Date: 30th November 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rotherwas Stw Fir Tree Lane Hfd Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001201 Permit Version: 12 Effective Date: 1st December 2010 Issued Date: 24th August 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Rotherwas Stw Fir Tree Lane Hfd, Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001201 Permit Version: 11 Effective Date: 24th August 2010 Issued Date: 24th August 2010 Revocation Date: 30th November 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Rotherwas Stw Fir Tree Lane Hfd, Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001201 Permit Version: 12 Effective Date: 1st December 2010 Issued Date: 24th August 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rotherwas Stw Fir Tree Lane Hfd Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001201 Permit Version: 10 Effective Date: 31st March 2010 Issued Date: 31st March 2010 Revocation Date: 30th June 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Rotherwas Stw Fir Tree Lane Hfd, Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001201 Permit Version: 10 Effective Date: 31st March 2010 Issued Date: 31st March 2010 Revocation Date: 24th August 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Rotherwas Stw Fir Tree Lane Hfd, Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001201 Permit Version: 9 Effective Date: 1st July 2010 Issued Date: 30th March 2010 Revocation Date: 23rd August 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rotherwas Stw Fir Tree Lane Hfd Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001201 Permit Version: 9 Effective Date: 1st July 2010 Issued Date: 17th November 2009 Revocation Date: 23rd August 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rotherwas Stw Fir Tree Lane Hfd Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001201 Permit Version: 8 Effective Date: 1st January 2010 Issued Date: 26th June 2009 Revocation Date: 30th March 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Rotherwas Stw Fir Tree Lane Hfd, Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001201 Permit Version: 8 Effective Date: 1st January 2010 Issued Date: 26th June 2009 Revocation Date: 30th March 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rotherwas Stw Fir Tree Lane Hfd Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001201 Permit Version: 7 Effective Date: 1st January 2007 Issued Date: 1st January 2007 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Rotherwas Stw Fir Tree Lane Hfd, Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001201 Permit Version: 7 Effective Date: 1st January 2007 Issued Date: 1st January 2007 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rotherwas Stw Fir Tree Lane Hfd Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001201 Permit Version: 6 Effective Date: 8th September 2006 Issued Date: 8th September 2006 Revocation Date: 31st December 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Rotherwas Stw Fir Tree Lane Hfd, Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001201 Permit Version: 6 Effective Date: 8th September 2006 Issued Date: 8th September 2006 Revocation Date: 31st December 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rotherwas Stw Fir Tree Lane Hfd Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001201 Permit Version: 5 Effective Date: 28th April 2006 Issued Date: 28th April 2006 Revocation Date: 8th September 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Rotherwas Stw Fir Tree Lane Hfd, Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001201 Permit Version: 5 Effective Date: 28th April 2006 Issued Date: 28th April 2006 Revocation Date: 8th September 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rotherwas Stw Fir Tree Lane Hfd Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001201 Permit Version: 4 Effective Date: 19th July 2002 Issued Date: 18th July 2002 Revocation Date: 27th April 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Rotherwas Stw Fir Tree Lane Hfd, Rotherwas Sewage Treatment Works, Fir Tree Lane, Rotherwas, Hereford Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001201 Permit Version: 4 Effective Date: 19th July 2002 Issued Date: 18th July 2002 Revocation Date: 27th April 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	567	2	353505 238825
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rotherwas Stw Fir Tree Lane Rotherwas Stw, Fir Tree Lane, Rotherwas Hereford, , Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001201 Permit Version: 3 Effective Date: 1st April 1998 Issued Date: 31st March 1998 Revocation Date: 18th July 2002 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	573	2	353510 238830
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Rotherwas Stw Fir Tree Lane, Rotherwas Hereford Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: AH1001201 Permit Version: 3 Effective Date: 1st April 1998 Issued Date: 31st March 1998 Revocation Date: 18th July 2002 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	573	2	353510 238830
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 13 Effective Date: 12th September 2017 Issued Date: 12th September 2017 Revocation Date: 30th March 2018 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	568	2	352214 238795

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 14 Effective Date: 31st March 2018 Issued Date: 12th September 2017 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	568	2	352214 238795
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 11 Effective Date: 24th August 2010 Issued Date: 24th August 2010 Revocation Date: 30th November 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 11 Effective Date: 24th August 2010 Issued Date: 24th August 2010 Revocation Date: 30th November 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 12 Effective Date: 1st December 2010 Issued Date: 24th August 2010 Revocation Date: 11th September 2017 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 12 Effective Date: 1st December 2010 Issued Date: 24th August 2010 Revocation Date: 11th September 2017 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Eign Stw Outfall Works Road Hfd, Eign Sewage Treatment Works, Outfall Works Road, Hereford, Herefordshire Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001101 Permit Version: 12 Effective Date: 1st December 2010 Issued Date: 24th August 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Eign Stw Outfall Works Road Hfd, Eign Sewage Treatment Works, Outfall Works Road, Hereford, Herefordshire Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001101 Permit Version: 11 Effective Date: 24th August 2010 Issued Date: 24th August 2010 Revocation Date: 30th November 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 9 Effective Date: 31st March 2010 Issued Date: 31st March 2010 Revocation Date: 30th June 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Eign Stw Outfall Works Road Hfd, Eign Sewage Treatment Works, Outfall Works Road, Hereford, Herefordshire Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001101 Permit Version: 9 Effective Date: 31st March 2010 Issued Date: 31st March 2010 Revocation Date: 30th June 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 10 Effective Date: 1st July 2010 Issued Date: 25th March 2010 Revocation Date: 23rd August 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 10 Effective Date: 1st July 2010 Issued Date: 25th March 2010 Revocation Date: 23rd August 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Eign Stw Outfall Works Road Hfd, Eign Sewage Treatment Works, Outfall Works Road, Hereford, Herefordshire Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001101 Permit Version: 10 Effective Date: 1st July 2010 Issued Date: 25th March 2010 Revocation Date: 25th August 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 8 Effective Date: 1st January 2010 Issued Date: 26th June 2009 Revocation Date: 30th March 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Eign Stw Outfall Works Road Hfd, Eign Sewage Treatment Works, Outfall Works Road, Hereford, Herefordshire Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001101 Permit Version: 8 Effective Date: 1st January 2010 Issued Date: 26th June 2009 Revocation Date: 30th March 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 7 Effective Date: 1st January 2007 Issued Date: 1st January 2007 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Eign Stw Outfall Works Road Hfd, Eign Sewage Treatment Works, Outfall Works Road, Hereford, Herefordshire Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001101 Permit Version: 7 Effective Date: 1st January 2007 Issued Date: 1st January 2007 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 6 Effective Date: 8th September 2006 Issued Date: 8th September 2006 Revocation Date: 31st December 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Eign Stw Outfall Works Road Hfd, Eign Sewage Treatment Works, Outfall Works Road, Hereford, Herefordshire Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001101 Permit Version: 6 Effective Date: 8th September 2006 Issued Date: 8th September 2006 Revocation Date: 31st December 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 5 Effective Date: 28th April 2006 Issued Date: 28th April 2006 Revocation Date: 7th September 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Eign Stw Outfall Works Road Hfd, Eign Sewage Treatment Works, Outfall Works Road, Hereford, Herefordshire Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001101 Permit Version: 5 Effective Date: 28th April 2006 Issued Date: 28th April 2006 Revocation Date: 7th September 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 4 Effective Date: 19th July 2002 Issued Date: 18th July 2002 Revocation Date: 27th April 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Eign Stw Outfall Works Road Hfd, Eign Sewage Treatment Works, Outfall Works Road, Hereford, Herefordshire Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001101 Permit Version: 4 Effective Date: 19th July 2002 Issued Date: 18th July 2002 Revocation Date: 27th April 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	581	2	352194 238786
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Stw Outfall Wks Road Hereford Eign Stw Outfall, Works Road, Hereford, , Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 3 Effective Date: 1st April 1998 Issued Date: 31st March 1998 Revocation Date: 18th July 2002 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A12NW (NW)	583	2	352200 238800
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Eign Stw Outfall Wks Road Hereford, Works Road Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: AH1001101 Permit Version: 3 Effective Date: 1st April 1998 Issued Date: 31st March 1998 Revocation Date: 18th July 2002 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A12NW (NW)	583	2	352200 238800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Eign Stw Outfall Wks Road Hereford, Works Road Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: Ah1001101 Permit Version: 2 Effective Date: 24th August 1989 Issued Date: 24th August 1989 Revocation Date: 31st March 1998 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A12NW (NW)	583	2	352200 238800
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Stw Outfall Wks Road Hereford Eign Stw Outfall, Works Road, Hereford, , Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 2 Effective Date: 24th August 1989 Issued Date: 24th August 1989 Revocation Date: 31st March 1998 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A12NW (NW)	583	2	352200 238800
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Eign Stw Outfall Wks Road Hereford, Works Road Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: Ah1001101 Permit Version: 1 Effective Date: 21st April 1983 Issued Date: 21st April 1983 Revocation Date: 23rd August 1989 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A12NW (NW)	583	2	352200 238800
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Stw Outfall Wks Road Hereford Eign Stw Outfall, Works Road, Hereford, , Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 1 Effective Date: 21st April 1983 Issued Date: 21st April 1983 Revocation Date: 23rd August 1989 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A12NW (NW)	583	2	352200 238800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Discharge Consents** Operator: Environment Quality Scientist Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Leymans Field Ps Braemar Gardens Leymans Field Ps Res Devmt, Braemar Gdns (Adj Hampton Pk Rd), Hereford, ,, , Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0270801 Permit Version: 1 Effective Date: 14th May 1997 Issued Date: 14th May 1997 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	615	2	353530 238880
8	**Discharge Consents** Operator: Environment Quality Scientist Property Type: Sewerage Network - Pumping Station - Water Company Location: Leymans Field Ps Braemar Gardens, Leymans Field Ps Res Devmt, Braemar Gdns (Adj Hampton Pk Rd), Hereford Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: AN0270801 Permit Version: 1 Effective Date: 14th May 1997 Issued Date: 14th May 1997 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	615	2	353530 238880
9	**Discharge Consents** Operator: Trevor Oakley Transport Ltd Property Type: Undefined Or Other Location: Trevor Oakley Transport Rotherwas E, Rotherwas Est Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: Ah4004901 Permit Version: 1 Effective Date: 25th July 1974 Issued Date: 25th July 1974 Revocation Date: 8th April 1994 Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Trib **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	632	2	353300 237700
9	**Discharge Consents** Operator: Trevor Oakley Transport Ltd Property Type: Undefined Or Other Location: Trevor Oakley Transport Rotherwas E Trevor Oakley Transport Rotherwa, Rotherwas Est, Unknown, Unknown Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah4004901 Permit Version: 1 Effective Date: 25th July 1974 Issued Date: 25th July 1974 Revocation Date: 8th April 1994 Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Trib **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	632	2	353300 237700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Nimrod Drive Pumping Station, Gortsy Lane, Hereford, Herefordshire, Hr1 1un Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0078301 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: 25th July 2017 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	661	2	353270 239220
10	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Nimrod Drive, Hereford, Hereford - Nimrod Drive, Hr1 1ug Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: An0078301 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	661	2	353270 239220
10	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Nimrod Drive Pumping Station, Gortsy Lane, Hereford, Herefordshire, Hr1 1un Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0078301 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 7th September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Wye **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	661	2	353270 239220
10	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Nimrod Drive, Hereford, Hereford - Nimrod Drive, Hr1 1ug Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: AN0078301 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 7th September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Wye **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	661	2	353270 239220

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Eign 1b Combined Sewer Overflow Eignsewage Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1tg Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0315201 Permit Version: 2 Effective Date: 9th August 2017 Issued Date: 9th August 2017 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	668	2	352130 238850
11	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Eign 1b Combined Sewer Overflow Eignsewage Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1tg Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0315201 Permit Version: 1 Effective Date: 20th December 2001 Issued Date: 20th December 2001 Revocation Date: 8th August 2017 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	668	2	352130 238850
11	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso 1b Eign Stw Outfall Works Rd, Hereford, Herefordshire, Hr1 1tg Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: An0315201 Permit Version: 1 Effective Date: 20th December 2001 Issued Date: 20th December 2001 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	668	2	352130 238850
11	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 13 Effective Date: 12th September 2017 Issued Date: 12th September 2017 Revocation Date: 30th March 2018 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	670	2	352132 238857

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Eign Wastewater Treatment Works, Outfall Works Road, Hereford, Herefordshire, Hr1 1ry Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001101 Permit Version: 14 Effective Date: 31st March 2018 Issued Date: 12th September 2017 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	670	2	352132 238857
12	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Rotherwas Stw Fir Tree Lane, Rotherwas Hereford Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Ah1001201 Permit Version: 2 Effective Date: 24th February 1989 Issued Date: 24th February 1989 Revocation Date: 31st March 1998 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A14NE (NE)	668	2	353630 238800
12	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rotherwas Stw Fir Tree Lane Rotherwas Stw, Fir Tree Lane, Rotherwas Hereford, , Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001201 Permit Version: 2 Effective Date: 24th February 1989 Issued Date: 24th February 1989 Revocation Date: 31st March 1998 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A14NE (NE)	668	2	353630 238800
12	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Rotherwas Stw Fir Tree Lane, Rotherwas Hereford Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: Ah1001201 Permit Version: 1 Effective Date: 21st April 1983 Issued Date: 21st April 1983 Revocation Date: 23rd February 1989 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A14NE (NE)	668	2	353630 238800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rotherwas Stw Fir Tree Lane Rotherwas Stw, Fir Tree Lane, Rotherwas Hereford, , Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah1001201 Permit Version: 1 Effective Date: 21st April 1983 Issued Date: 21st April 1983 Revocation Date: 23rd February 1989 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A14NE (NE)	668	2	353630 238800
13	**Discharge Consents** Operator: 'The Occupier' Property Type: Sewage Disposal Works - Water Company Location: Lower Bullingham Stw Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: Ah2000601 Permit Version: 1 Effective Date: 15th May 1967 Issued Date: 15th May 1967 Revocation Date: 1st May 1995 Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Wye River **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A12SW (W)	707	2	352000 238400
13	**Discharge Consents** Operator: 'The Occupier' Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Lower Bullingham Stw, Unknown, Unknown, Unknown Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah2000601 Permit Version: 1 Effective Date: 15th May 1967 Issued Date: 15th May 1967 Revocation Date: 1st May 1995 Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: Wye River **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A12SW (W)	707	2	352000 238400
14	**Discharge Consents** Operator: Marian Fathers Property Type: CHURCH/MONASTERY/ABBEY/RELIGIOUS RETREAT/ASSOCIATION HQ Location: St Rafaels Church Lower Bullingham St Rafaels Church Lower Bullingh, Lower Bullingham Hereford Heref, Hereford Herefordshire, Hereford Herefordshire, Herefordsh Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah5000101 Permit Version: 1 Effective Date: 10th April 1953 Issued Date: 10th April 1953 Revocation Date: 13th February 2009 Discharge Type: Unknown Discharge Environment: Land/Soakaway Receiving Water: To Land **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A12SW (W)	728	2	352000 238300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**Discharge Consents** Operator: Marian Fathers Property Type: Recreational & Cultural Location: St Rafaels Church Lower Bullingham, Lower Bullingham Hereford Heref, Hereford Herefordshire Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: AH5000101 Permit Version: 1 Effective Date: 10th April 1953 Issued Date: 10th April 1953 Revocation Date: 13th February 2009 Discharge Type: Unspecified Discharge Environment: Onto Land Receiving Water: To Land **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A12SW (W)	728	2	352000 238300
15	**Discharge Consents** Operator: Mr N Nauth Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: The Manor Rest Home Lower Bullingha The Manor Rest Home, Lower Bullingham Lane, Hereford, Herefordshire, Hr2 6ep Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Aj0002001 Permit Version: 1 Effective Date: 11th August 1982 Issued Date: 17th May 1982 Revocation Date: Not Supplied Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: Red Brook **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A12SW (W)	762	2	352000 238200
15	**Discharge Consents** Operator: Mr N Nauth Property Type: Domestic Property (Multiple) Location: The Manor Rest Home Lower Bullingha, Lower Bullingham Lane, Hereford, Herefordshire, Hr2 6ep Authority: Environment Agency, Welsh Region Catchment Area: Not Given Reference: AJ0002001 Permit Version: 1 Effective Date: 11th August 1982 Issued Date: 17th May 1982 Revocation Date: Not Supplied Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Red Brook **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A12SW (W)	762	2	352000 238200
16	**Discharge Consents** Operator: Elizabeth Cottages Management Co Ltd Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Elizabeth Cottages Lwr Bullingham Elizabeth Cottages, Lower Bullingham, Hereford, ,, Herefordsh Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0059201 Permit Version: 2 Effective Date: 22nd April 1993 Issued Date: 22nd April 1993 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Red Brook **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A12SW (W)	824	2	351900 238300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Discharge Consents** Operator: Elizabeth Cottages Management Co Ltd Property Type: Domestic Property (Multiple) Location: Elizabeth Cottages Lwr Bullingham, Lower Bullingham, Hereford, Herefordsh Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: AN0059201 Permit Version: 2 Effective Date: 22nd April 1993 Issued Date: 22nd April 1993 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Red Brook **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A12SW (W)	824	2	351900 238300
16	**Discharge Consents** Operator: Elizabeth Cottages Management Co Ltd Property Type: Domestic Property (Multiple) Location: Elizabeth Cottages Lwr Bullingham, Lower Bullingham, Hereford, Herefordsh Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: An0059201 Permit Version: 1 Effective Date: 8th February 1988 Issued Date: 8th February 1988 Revocation Date: 21st April 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Red Brook **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A12SW (W)	824	2	351900 238300
16	**Discharge Consents** Operator: Elizabeth Cottages Management Co Ltd Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Elizabeth Cottages Lwr Bullingham Elizabeth Cottages, Lower Bullingham, Hereford, ,, Herefordsh Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0059201 Permit Version: 1 Effective Date: 8th February 1988 Issued Date: 8th February 1988 Revocation Date: 21st April 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Red Brook **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A12SW (W)	824	2	351900 238300
17	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Undefined Or Other Location: Rotherwas Ind Est (New Surface Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: Ah4004701 Permit Version: 1 Effective Date: 23rd May 1974 Issued Date: 23rd May 1974 Revocation Date: 21st February 1994 Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Wye River **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A15SW (E)	831	2	353900 238400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Undefined Or Other Location: Rotherwas Ind Est (New Surface, Unknown, Unknown, Unknown Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah4004701 Permit Version: 1 Effective Date: 23rd May 1974 Issued Date: 23rd May 1974 Revocation Date: 21st February 1994 Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Wye River **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A15SW (E)	831	2	353900 238400
18	**Discharge Consents** Operator: Mr Andrew Wood Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 108 Hampton Park Road Hereford 108 Hampton Park Road, Hereford, Herefordshire, England, Hr1 1tl Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0256101 Permit Version: 1 Effective Date: 14th February 1995 Issued Date: 14th February 1995 Revocation Date: Not Supplied Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	869	2	353500 239300
18	**Discharge Consents** Operator: Mr Andrew Wood Property Type: Domestic Property (Single) Location: 108 Hampton Park Road Hereford, Herefordshire, England, Hr1 1tl Authority: Environment Agency, Welsh Region Catchment Area: Not Given Reference: AN0256101 Permit Version: 1 Effective Date: 14th February 1995 Issued Date: 14th February 1995 Revocation Date: Not Supplied Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	869	2	353500 239300
19	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Siddons Road Sewage Pumping Station Siddons Road, Hereford, ., Herefordshire, Hr1 1xd Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0078701 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: 25th July 2017 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A23SE (N)	879	2	353170 239510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Siddons Road, Hereford, Hereford - Siddons Road, Hr1 1xd Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: An0078701 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A23SE (N)	879	2	353170 239510
19	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Siddons Road Sewage Pumping Station Siddons Road, Hereford, ., Herefordshire, Hr1 1xd Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0078701 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 7th September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Wye **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A23SE (N)	879	2	353170 239510
19	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Siddons Road, Hereford, Hereford - Siddons Road, Hr1 1xd Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: AN0078701 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 7th September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Wye **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A23SE (N)	879	2	353170 239510
20	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Hereford - Adjacent To Eign Ro Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: An0085601 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1988 Revocation Date: 4th March 1994 Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Wye **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A17NW (NW)	884	2	352180 239230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Hereford - Adjacent To Eign Ro, Unknown, Unknown, Unknown Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: An0085601 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1988 Revocation Date: 4th March 1994 Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: Wye **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A17NW (NW)	884	2	352180 239230
21	**Discharge Consents** Operator: Texaco Service Station Property Type: Undefined Or Other Location: Hereford - Ledbury Rd Texaco S Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: Ah4003901 Permit Version: 1 Effective Date: 21st October 1967 Issued Date: 21st October 1967 Revocation Date: 2nd May 1995 Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Eign Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	919	2	352200 239300
21	**Discharge Consents** Operator: Texaco Service Station Property Type: Undefined Or Other Location: Hereford - Ledbury Rd Texaco S, Unknown, Unknown, Unknown Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah4003901 Permit Version: 1 Effective Date: 21st October 1967 Issued Date: 21st October 1967 Revocation Date: 2nd May 1995 Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: Eign Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	919	2	352200 239300
22	**Discharge Consents** Operator: The Wye Inn Property Type: FOOD+BEVERAGE SERVICES/CAFE/RESTAURANT/PUB Location: The Wye Inn Holme Lacy Road Lower B The Wye Inn Holme Lacy Road Lowe, Holme Lacy Road Lower Bullingham, Lower Bullingham Hereford Herefo, Hereford Herefordshire, Herefordsh Authority: Environment Agency, Midlands Region Catchment Area: River Wye to River Lugg Reference: Ah2000701 Permit Version: 1 Effective Date: 3rd January 1978 Issued Date: 3rd January 1978 Revocation Date: Not Supplied Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: Withey Brook **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A11SE (W)	925	2	351780 238400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Discharge Consents** Operator: The Wye Inn Property Type: Public Houses & Bars Location: The Wye Inn Holme Lacy Road Lower B, Holme Lacy Road Lower Bullingham, Lower Bullingham Hereford Herefo, Hereford Herefordshire Authority: Environment Agency, Welsh Region Catchment Area: River Wye Reference: AH2000701 Permit Version: 1 Effective Date: 3rd January 1978 Issued Date: 3rd January 1978 Revocation Date: Not Supplied Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Withey Brook **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A11SE (W)	925	2	351780 238400
23	**Integrated Pollution Controls** Name: Thorn Lighting Ltd Location: Rotherwas, HEREFORD, HR2 6JS Authority: Environment Agency, Midlands Region Permit Reference: AQ0513 Dated: 8th February 1995 Process Type: Provisional Application Description: Not Given **Status: Application received by HMIP but is not yet authorised** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	302	2	352646 238134
24	**Integrated Pollution Prevention And Control** Name: Dwr Cymru (Welsh Water) Location: Eign Wwtw, Eign Waste Water Treatment Works, Outfall Works Road,,, Hereford, Herefordshire, HR1 1RY Authority: Environment Agency, Midlands Region Permit Reference: RP3534ZD Original Permit Ref: Up3735gh Effective Date: 27th March 2013 **Status: Effective** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: Y	A12NW (W)	707	2	352000 238600
25	**Integrated Pollution Prevention And Control** Name: Dwr Cymru (Welsh Water) Location: Eign Wwtw, Eign Waste Water Treatment Works, Outfall Works Road,,, HEREFORD, Herefordshire, HR1 1RY Authority: Environment Agency, Welsh Region Permit Reference: UP3735GH Original Permit Ref: Up3735gh Effective Date: 11th August 2009 **Status: Effective** Application Type: Application App. Sub Type: New Positional Accuracy: Manually positioned to the address or location Activity Code: 1.1 A(1) (B) (III) Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: Y	A17SW (W)	727	2	352045 238816
25	**Integrated Pollution Prevention And Control** Name: Dwr Cymru (Welsh Water) Location: Eign Wwtw, Eign Waste Water Treatment Works, Outfall Works Road,,, Hereford, Herefordshire, HR1 1RY Authority: Environment Agency, Midlands Region Permit Reference: UP3735GH Original Permit Ref: Up3735gh Effective Date: 11th August 2009 **Status: Superseded By Variation** Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 1.1 A(1) (B) (III) Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: Y	A17SW (W)	727	2	352045 238816

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Integrated Pollution Prevention And Control** Name: Dragon Recycling Solutions Ltd Location: Mercury Retort, Unit 4 & 5, Holme Lacy Road,Sigeric Business Park,, HEREFORD, Herefordshire, HR2 6BQ Authority: Environment Agency, Midlands Region Permit Reference: RP3035HA Original Permit Ref: Rp3035ha Effective Date: 28th January 2011 **Status: Superseded By Variation** Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 2.2 A(1) (F) Activity Description: Non-Ferrous Metals; Producing Etc Cadmium/Mercury And Alloys Containing Greater Than 0.05 Percent Primary Activity: Y	A9NE (SE)	824	2	353720 237847
26	**Integrated Pollution Prevention And Control** Name: Dragon Recycling Solutions Limited Location: Mercury Retort, Unit 4, Sigeric Business Park,,, Hereford, HR2 6BQ Authority: Environment Agency, Midlands Region Permit Reference: PP3831VN Original Permit Ref: Rp3035ha Effective Date: 3rd July 2014 **Status: Surrender Effective** Application Type: Surrender App. Sub Type: Whole Positional Accuracy: Automatically positioned to the address Activity Code: 2.2 A(1) (F) Activity Description: Non-Ferrous Metals; Producing Etc Cadmium/Mercury And Alloys Containing Greater Than 0.05 Percent Primary Activity: Y	A9NE (SE)	858	2	353751 237833
27	**Local Authority Pollution Prevention and Controls** Name: Longma Bio Fuels Ltd Location: Yeld Farm, Lyonshall, Hr2 6jt Authority: Herefordshire Council, Environmental Health Department Permit Reference: 1.1/B.c/002 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/5 Compression ignition engines, 20-50MW net rated thermal input **Status: Application exempt from APC** Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	123	3	352705 238327
28	**Local Authority Pollution Prevention and Controls** Name: Bathgate Flooring Ltd Location: Fir Tree Lane, Rotherwas Industrial Estate, Hereford, HR2 Authority: Herefordshire Council, Environmental Health Department Permit Reference: 6.4/A/002 Dated: 17th October 2006 Process Type: Local Authority Pollution Prevention and Control Description: PG6/32 Adhesive coating **Status: Permitted** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (S)	132	3	352941 238142
29	**Local Authority Pollution Prevention and Controls** Name: Polyford Plastics Ltd Location: Fir Tree Lane, Rotherwas Industrial Estate, HEREFORD, Herefordshire, HR2 6LA Authority: Herefordshire Council, Environmental Health Department Permit Reference: 065 Dated: 16th March 2000 Process Type: Local Authority Air Pollution Control Description: PG6/17 Printing of flexible packaging **Status: Site Closed** Positional Accuracy: Automatically positioned to the address	A8NE (S)	152	3	352984 238107
29	**Local Authority Pollution Prevention and Controls** Name: Bathgate Flooring Ltd Location: Fir Tree Lane, Rotherwas Industrial Estate, Rotherwas, HR2 Authority: Herefordshire Council, Environmental Health Department Permit Reference: 6.2/007 Dated: 17th October 2006 Process Type: Local Authority Pollution Prevention and Control Description: PG6/2 Manufacture of timber and wood-based products **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A8NE (S)	164	3	353009 238094

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	**Local Authority Pollution Prevention and Controls** Name: Quickskip Hereford Ltd Location: Unit 18 Thorn Business Park, Rotherwas, Hereford, HR2 6JT Authority: Herefordshire Council, Environmental Health Department Permit Reference: PPC/3.5/M4 Dated: 10th September 2003 Process Type: Local Authority Pollution Prevention and Control Description: PG3/16 Mobile screening and crushing processes **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A12NE (W)	199	3	352518 238581
31	**Local Authority Pollution Prevention and Controls** Name: Thorn Lighting Ltd Location: Rotherwas, HEREFORD, HR2 6JS Authority: Herefordshire Council, Environmental Health Department Permit Reference: 003 Dated: 25th June 1993 Process Type: Local Authority Air Pollution Control Description: PG2/4 Iron, steel and non-ferrous metal foundry processes **Status: Site Closed** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	296	3	352651 238139
31	**Local Authority Pollution Prevention and Controls** Name: Thorn Lighting Ltd Location: Rotherwas, HEREFORD, HR2 6JS Authority: Herefordshire Council, Environmental Health Department Permit Reference: 013 Dated: 15th October 1993 Process Type: Local Authority Air Pollution Control Description: PG6/31 Powder coating processes (including sheradizing) **Status: Site Closed** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	304	3	352651 238129
32	**Local Authority Pollution Prevention and Controls** Name: Barton Aluminium Location: Rotherwas, HEREFORD, Herefordshire, HR2 6JS Authority: Herefordshire Council, Environmental Health Department Permit Reference: 003 Dated: 25th June 1993 Process Type: Local Authority Air Pollution Control Description: PG2/6 Aluminium and aluminium alloy processes **Status: Authorised** Positional Accuracy: Manually positioned within the geographical locality	A8NW (SW)	336	3	352691 238061
32	**Local Authority Pollution Prevention and Controls** Name: Barton Aluminium Location: Rotherwas, HEREFORD, Herefordshire, HR2 6JS Authority: Herefordshire Council, Environmental Health Department Permit Reference: 003 Dated: 25th June 1993 Process Type: Local Authority Air Pollution Control Description: PG2/4 Iron, steel and non-ferrous metal foundry processes **Status: Authorised** Positional Accuracy: Manually positioned within the geographical locality	A8NW (SW)	346	3	352666 238067
33	**Local Authority Pollution Prevention and Controls** Name: Rotherwas Service Station Ltd Location: Holme Lacy Road, HEREFORD, Herefordshire, HR2 6BQ Authority: Herefordshire Council, Environmental Health Department Permit Reference: P33 Dated: 14th November 2001 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A8NE (S)	352	3	353112 237923
34	**Local Authority Pollution Prevention and Controls** Name: Thorn Lighting Ltd Location: Rotherwas, ROTHERWAS, HR2 6JS Authority: Herefordshire Council, Environmental Health Department Permit Reference: 017 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG2/9 Metal decontamination processes **Status: Authorisation revoked** Positional Accuracy: Manually positioned within the geographical locality	A8NW (SW)	380	3	352567 238096

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	**Local Authority Pollution Prevention and Controls** Name: Keg Services Ltd Location: Netherwood Road, Rotherwas Industrial Estate, HEREFORD, HR2 6JU Authority: Herefordshire Council, Environmental Health Department Permit Reference: 069 Dated: 2nd April 2001 Process Type: Local Authority Air Pollution Control Description: PG6/35 Metal and other thermal spraying processes **Status: Site Closed** Positional Accuracy: Manually positioned to the address or location	A8NE (SE)	432	3	353166 237858
36	**Local Authority Pollution Prevention and Controls** Name: Kgd Industrial Services Location: Netherwood Road, Rotherwas Industrial Estate, Hereford, Hr2 6ju Authority: Herefordshire Council, Environmental Health Department Permit Reference: 2.3/001 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG4/1 Processes for the surface treatment of metals **Status: Application exempt from APC** Positional Accuracy: Manually positioned to the address or location	A8SE (S)	473	3	352947 237788
37	**Local Authority Pollution Prevention and Controls** Name: Atlas Access Flooring Ltd Location: Twyford Road, ROTHERWAS, Hereford, HR2 6JR Authority: Herefordshire Council, Environmental Health Department Permit Reference: 072 Dated: 1st July 2002 Process Type: Local Authority Air Pollution Control Description: PG6/2 Manufacture of timber and wood-based products **Status: Application Refused Or Cancelled** Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	556	3	352439 237975
38	**Local Authority Pollution Prevention and Controls** Name: Hereford Car And Commercial Services Location: Reynard Close, Rotherwas Industrial Estate, Hereford, Hr2 6jh Authority: Herefordshire Council, Environmental Health Department Permit Reference: 1/1/013 Dated: 26th January 2009 Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	609	3	353558 237995
39	**Local Authority Pollution Prevention and Controls** Name: Elite Plastics Ltd Location: Twyford Road, Rotherwas Industrial Estate, HEREFORD, Herefordshire, HR2 6JR Authority: Herefordshire Council, Environmental Health Department Permit Reference: 6.4/P/002 Dated: 31st March 1994 Process Type: Local Authority Pollution Prevention and Control Description: PG6/17 Printing of flexible packaging **Status: Authorisation has varied** Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	609	3	352407 237933
39	**Local Authority Pollution Prevention and Controls** Name: Atlas Access Flooring Location: Twyford Road, Rotherwas Industrial Estate, Lower Bullingham, ROTHERWAS, Herefordshire, HR2 6JR Authority: Herefordshire Council, Environmental Health Department Permit Reference: 010 Dated: 15th October 1993 Process Type: Local Authority Air Pollution Control Description: PG6/32 Adhesive coating **Status: Application Refused Or Cancelled** Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	638	3	352400 237900
40	**Local Authority Pollution Prevention and Controls** Name: Alfaplas Ltd Location: Unit 1 Ramsden Road, Rotherwas Industrial Estate, HEREFORD, Herefordshire, HR2 6LR Authority: Herefordshire Council, Environmental Health Department Permit Reference: IPPC/6.4/P/002 Dated: 16th October 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG6/17 Printing of flexible packaging **Status: Transferred to IPPC** Positional Accuracy: Automatically positioned to the address	A8SW (S)	624	3	352663 237735
	Nearest Surface Water Feature	A13SE (S)	33	-	352963 238245

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Polyford Plastics, ROTHERWAS Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 3rd April 1992 Incident Reference: 3660 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	9	2	353000 238250
41	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Confluence With, Town Ditch Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 3rd April 1992 Incident Reference: 3660 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	13	2	353000 238245
42	**Pollution Incidents to Controlled Waters** Property Type: Warehouses Location: Rotherwas Industrial Estate, HEREFORD Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 25th August 1994 Incident Reference: 21497 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	496	2	353460 238050
43	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: ROTHERWAS Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Inadequate Design/Capacity Incident Date: 20th September 1996 Incident Reference: 30038 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	521	2	352600 237900
44	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Down Stream Of Sewage Treatment Works, Near Wye Invader Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 4th May 1997 Incident Reference: 32609 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	552	2	353500 238800
45	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Near Rotherwas Sewage Treatment Works, Off B224 Road Authority: Environment Agency, Welsh Region Pollutant: Foam/Soap Suds Note: River Wye; Effluent Quality Incident Date: 15th May 1998 Incident Reference: 35822 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	557	2	353600 238600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Sewage Treatment Works Location: Eign Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Mechanical Failure Incident Date: 6th June 1991 Incident Reference: 1301 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Burst Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (NW)	576	2	352205 238795
46	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Opposite Eign Outlet Authority: Environment Agency, Welsh Region Pollutant: Washery Effluent Note: Not Supplied Incident Date: 5th May 1995 Incident Reference: 23748 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (NW)	580	2	352200 238795
47	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Sewage Treatment Works Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 9th April 1996 Incident Reference: 27862 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	632	2	352100 238700
48	**Pollution Incidents to Controlled Waters** Property Type: Waste Handling Facilities Location: Rotherwas Industrial Estate, HEREFORD Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Poor Operational Practise Incident Date: 9th March 1992 Incident Reference: 3502 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	639	2	353200 237650
48	**Pollution Incidents to Controlled Waters** Property Type: Waste Handling Facilities Location: Rotherwas Industrial Estate, HEREFORD Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Poor Operational Practise Incident Date: 9th March 1992 Incident Reference: 3502 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	641	2	353205 237650
48	**Pollution Incidents to Controlled Waters** Property Type: Waste Handling Facilities Location: Rotherwas Industrial Estate, HEREFORD Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Poor Operational Practise Incident Date: 9th March 1992 Incident Reference: 3502 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	644	2	353200 237645

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	**Pollution Incidents to Controlled Waters** Property Type: Waste Handling Facilities Location: Rotherwas Industrial Estate, HEREFORD Authority: Environment Agency, Welsh Region Pollutant: Oils - Other Oil Note: Poor Operational Practise Incident Date: 9th March 1992 Incident Reference: 3502 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	645	2	353205 237645
49	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Rosemarket Stw Authority: Environment Agency, Welsh Region Pollutant: Sullage Note: Poor Management Control Incident Date: 28th October 1996 Incident Reference: 30549 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	643	2	353600 238000
50	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Industrial Estate Drain Near Chapel, ROTHERWAS Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 9th March 1997 Incident Reference: 31517 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	654	2	353700 238600
51	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Jws Transport, Rotherwas Industrial Estate, HEREFORD Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 20th June 1995 Incident Reference: 24497 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	722	2	353300 237600
52	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Down Stream Of Rotherwas, Chapel Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 20th May 1996 Incident Reference: 28476 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	736	2	353800 238495
52	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Bunch Of Carrots, HAMPTON BISHOP Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 15th February 1996 Incident Reference: 27581 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	736	2	353800 238500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: By Bunch Of Carrots, HAMPTON BISHOP Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 15th February 1996 Incident Reference: 27581 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	741	2	353805 238495
53	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Surface Water Outfall Location: ROTHERWAS Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 28th October 1994 Incident Reference: 21495 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A15SW (E)	831	2	353900 238400
54	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Opposite Sewage Works, WYE Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 16th March 1991 Incident Reference: 265 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	834	2	352120 239100
55	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Bottom Of Hampton Park Road Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Eign Bl ; Spillage Incident Date: 16th February 1998 Incident Reference: 34771 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	841	2	352205 239195
55	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Eign Brook; Spillage Incident Date: 6th March 1998 Incident Reference: 35038 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Inadequate Design/Capacity Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	845	2	352195 239190
55	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Near Hampton Bishop Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Eign Bl ; Spillage Incident Date: 16th February 1998 Incident Reference: 34771 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	845	2	352200 239195

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Eign Bl ; Spillage Incident Date: 16th February 1998 Incident Reference: 34771 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	845	2	352205 239200
55	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Near Shop Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Eign Bl ; Spillage Incident Date: 16th February 1998 Incident Reference: 34771 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	848	2	352200 239200
55	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Eign Hill At, Hampton Park Road, HEREFORD Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Eign Bl ; Spillage Incident Date: 16th February 1998 Incident Reference: 34771 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	848	2	352195 239195
55	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Between Safeway And, County Hospital Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Eign Bl ; Spillage Incident Date: 16th February 1998 Incident Reference: 34771 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	852	2	352200 239205
55	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Eign Hill, Hampton Park Road, HEREFORD Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Eign Bl ; Spillage Incident Date: 16th February 1998 Incident Reference: 34771 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	852	2	352195 239200
55	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Ledbury Road, HEREFORD Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Eign Bl ; Spillage Incident Date: 16th February 1998 Incident Reference: 34771 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	855	2	352195 239205

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	**Pollution Incidents to Controlled Waters** Property Type: Private Sewage (Non-PLC): Other Location: 100 Yards On Left, After Wye Hotel Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Neglect Incident Date: 6th September 1994 Incident Reference: 20933 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11SE (W)	905	2	351800 238400
57	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Works Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 2nd August 1991 Incident Reference: 587 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	912	2	352105 239195
57	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Works Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Inorganic Note: Not Supplied Incident Date: 2nd August 1991 Incident Reference: 587 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	915	2	352100 239195
57	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Works Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Vehicle Washings And De Waxing Note: Not Supplied Incident Date: 2nd August 1991 Incident Reference: 587 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	915	2	352105 239200
57	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Outfall Works Road, HEREFORD Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Wye Incident Date: 26th November 1997 Incident Reference: 34232 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	919	2	352105 239205
57	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Storm Overflow Location: Hereford Down Stream Of, Eign Sewage Treatment Works Authority: Environment Agency, Welsh Region Pollutant: Stagnant Water Note: Emergency Overflow Incident Date: 9th May 1992 Incident Reference: 4309 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	919	2	352100 239200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Confluence With River Wye Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 14th January 1996 Incident Reference: 27106 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	915	2	352200 239295
58	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Confluence, With River Wye Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 14th January 1996 Incident Reference: 27106 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	919	2	352200 239300
59	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: River Wye; Overflow Incident Date: 20th August 1997 Incident Reference: 33390 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Weather Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11NE (W)	922	2	351800 238700
60	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: 1 Mile Up Stream Of, Carrots Pub, HEREFORD Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Unknown; River Wye Incident Date: 21st October 1998 Incident Reference: 37003 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A15NW (E)	935	2	354000 238500
61	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Wye Inn, Rotherwas, HEREFORD Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 29th April 1991 Incident Reference: 792 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11NE (W)	950	2	351750 238470
62	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Rear Of Neils Plastic Company, Fluer De Lys, Eign Mill Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Poor Management Control Incident Date: 4th March 1996 Incident Reference: 27582 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	987	2	352200 239395

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	**Pollution Incidents to Controlled Waters** Property Type: Warehouses Location: Neils Plastic Co, Foley Trading Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Poor Operational Practise Incident Date: 4th March 1996 Incident Reference: 27582 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	991	2	352200 239400
	River Quality Name: Wye GQA Grade: River Quality B Reach: Nr.Dinedor Court - Conf.Eign Bk Estimated Distance (km): 4.3 Flow Rate: Flow less than 80 cumecs Flow Type: River Year: 2000	A18SE (NE)	278	2	353098 238887
	River Quality Name: Wye GQA Grade: River Quality A Reach: Conf.Eign Bk. - Conf.Cage Bk. Estimated Distance (km): 8.6 Flow Rate: Flow less than 80 cumecs Flow Type: River Year: 2000	A12NE (W)	497	2	352210 238585
	River Quality Name: Eign Bk GQA Grade: River Quality C Reach: Conf.Wye - Above S.S.O Estimated Distance (km): .4 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A17NW (NW)	890	2	352088 239147
63	**River Quality Biology Sampling Points** Name: Wye Reach: Nriver Dinedor Court To Confluence Eign Brook Estimated Distance: 4.30 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade B - Good Year: 1995 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2000 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2002 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2003 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2004 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2005 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2006 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2007 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2008 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2009 GQA Grade: River Quality Biology GQA Grade A - Very Good	A17NW (NW)	848	2	352200 239200
64	**Substantiated Pollution Incident Register** Authority: Environment Agency - Midlands Region, West Area Incident Date: 1st December 2015 Incident Reference: 1407822 Water Impact: Category 3 - Minor Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Asbestos Waste Pollutant: Contaminated Material : Soils & Sub-soils	A13NW (N)	0	2	352880 238557

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	**Substantiated Pollution Incident Register** Authority: Environment Agency - Midlands Region, West Area Incident Date: 27th May 2015 Incident Reference: 1340243 Water Impact: Category 4 - No Impact Air Impact: Category 3 - Minor Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Specific Waste Materials: Contaminated Construction & Demolition Material & Waste	A14SW (E)	441	2	353507 238365
66	**Substantiated Pollution Incident Register** Authority: Environment Agency - Midlands Region, West Area Incident Date: 26th May 2015 Incident Reference: 1339963 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Specific Waste Materials: Vehicles And Vehicle Parts	A14SE (E)	732	2	353785 238248
67	**Substantiated Pollution Incident Register** Authority: Environment Agency - Midlands Region, West Area Incident Date: 15th August 2012 Incident Reference: 1026527 Water Impact: Category 4 - No Impact Air Impact: Category 1 - Major Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Inorganic Chemicals : Acids	A10NW (E)	937	2	353964 238114
68	**Substantiated Pollution Incident Register** Authority: Environment Agency - Midlands Region, West Area Incident Date: 28th May 2013 Incident Reference: 1116693 Water Impact: Category 3 - Minor Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Inert : Construction / Demolition Material Pollutant: Inert Materials And Wastes: Soils And Clay	A10NW (SE)	949	2	353926 237974
69	**Substantiated Pollution Incident Register** Authority: Environment Agency - Midlands Region, West Area Incident Date: 2nd December 2012 Incident Reference: 1064838 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Smoke	A10NW (SE)	1000	2	353963 237931
70	**Water Abstractions** Operator: Thorn Lighting Ltd Licence Number: 19/55/18/0391 Permit Version: 100 Location: River Wye At Rotherwas Industrial Estate Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: R.Wye; Status: Revoked; Lapsed Or Cancelled Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st August 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (W)	422	2	352280 238540

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	**Water Abstractions** Operator: H P Bulmer & Co Ltd Licence Number: 19/55/18/0376 Permit Version: 100 Location: Reach On The River Wye Near Field Farm Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Wye; Status: Revoked; Lapsed Or Cancelled Authorised Start: 01 March Authorised End: 31 August Permit Start Date: 1st March 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	614	2	353540 238860
	Water Abstractions Operator: H P Bulmer & Co Ltd Licence Number: 19/55/18/0321 Permit Version: 100 Location: Well Near Field Farm Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Revoked; Lapsed Or Cancelled Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	1034	2	353820 239200
	Water Abstractions Operator: Bulmers Licence Number: 19/55/18/0321 Permit Version: 101 Location: Well Near Field Farm Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1034	2	353820 239200
	Water Abstractions Operator: Jones Bros Licence Number: 19/55/18/0110 Permit Version: 100 Location: Well At Sink Green Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Revoked; Lapsed Or Cancelled Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10SW (SE)	1323	2	354210 237700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr E Peyton Licence Number: 19/55/18/0197 Permit Version: 100 Location: Well At Prospect House Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Revoked; Lapsed Or Cancelled Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st June 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4SE (SE)	1362	2	353570 237020
	Water Abstractions Operator: H P Bulmer & Co Ltd Licence Number: 19/55/18/0321 Permit Version: 100 Location: Well At Field Farm Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Revoked; Lapsed Or Cancelled Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NE (E)	1433	2	354490 238600
	Water Abstractions Operator: Bulmers Licence Number: 19/55/18/0321 Permit Version: 101 Location: Well At Field Farm Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1433	2	354490 238600
	Water Abstractions Operator: T S Matthews & Son Licence Number: 19/55/15/0001 Permit Version: 100 Location: Borehole At Bartonsham Farm Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th March 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16NW (NW)	1490	2	351390 239210

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: T S Matthews & Son Licence Number: 19/55/15/0001 Permit Version: 100 Location: Borehole At Bartonsham Farm Authority: Natural Resources Wales Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Revoked; Lapsed Or Cancelled Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th March 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16NW (NW)	1490	4	351390 239210
	Water Abstractions Operator: T S Matthews & Son Licence Number: 19/55/15/0446 Permit Version: 100 Location: Borehole At Bartonsham Farm Authority: Natural Resources Wales Abstraction: Food And Drink: General Washing/Process Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Jan to 31-Dec Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16NW (NW)	1496	4	351360 239165
	Water Abstractions Operator: T S Matthews & Son Licence Number: 19/55/15/0446 Permit Version: 100 Location: Borehole At Bartonsham Farm Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16NW (NW)	1498	2	351360 239170
	Water Abstractions Operator: T S Matthews & Son Licence Number: 19/55/15/0446 Permit Version: 100 Location: Borehole At Bartonsham Farm Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: General Washing/Process Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16NW (NW)	1498	2	351360 239170

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: T S Matthews & Son Licence Number: 19/55/15/0446 Permit Version: 100 Location: Borehole At Bartonsham Farm Authority: Natural Resources Wales Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Well Or Borehole; Status: Revoked; Lapsed Or Cancelled Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16NW (NW)	1498	4	351360 239170
	Water Abstractions Operator: Mr J Cleland Licence Number: 19/55/18/0047 Permit Version: 100 Location: Well At Glebe Farm Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Revoked; Lapsed Or Cancelled Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1613	2	353420 236700
	Water Abstractions Operator: Mrs M Thomas Licence Number: 19/55/18/0131 Permit Version: 100 Location: Borehole At Pen-Y-Bryn Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Revoked; Lapsed Or Cancelled Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A1NE (SW)	1706	2	351670 237120
	Water Abstractions Operator: Herefordshire Council Licence Number: 19/55/15/0352 Permit Version: 101 Location: River Wye At Victoria Bridge Authority: Environment Agency, Welsh Region Abstraction: Private Non-Industrial Amenity: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th March 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16NW (NW)	1716	2	351270 239450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Herefordshire Council Licence Number: 19/55/15/0352 Permit Version: 101 Location: River Wye At Victoria Bridge Authority: Natural Resources Wales Abstraction: Private Non-Industrial Amenity: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Wye At Victoria Bridge To Castle Pond; Status: Revoked; Lapsed Or Cancelled Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th March 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16NW (NW)	1716	4	351270 239450
	Water Abstractions Operator: H P Bulmer & Co Ltd Licence Number: 19/55/18/0376 Permit Version: Not Supplied Location: Reach On The River Wye Near, Field Farm Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 981 Yearly Rate (m3): 13638 Details: Licenced from 01-Mar to 31-Aug Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1871	2	354930 238230
	Water Abstractions Operator: Mr S Weir Licence Number: 19/55/15/0469 Permit Version: 2 Location: Borehole At 41 St Owen Street, Hereford. Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Property Named 41 St Owen Street, Hereford. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21NW (NW)	1944	2	351320 239870
	Water Abstractions Operator: Mr S Weir Licence Number: 19/55/15/0469 Permit Version: 2 Location: Borehole At 41 St Owen Street, Hereford. Authority: Natural Resources Wales Abstraction: Food And Drink: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Property Named 41 St Owen Street, Hereford. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21NW (NW)	1944	4	351320 239870

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr T J Swindells Licence Number: 19/55/15/0469 Permit Version: 1 Location: Borehole At 41 St Owen Street, Hereford. Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The property named 41 St Owen Street, Hereford. Licenced from 01-Jan to 31-Dec Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th November 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21NW (NW)	1944	2	351320 239870
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: High	A13SE (SW)	0	5	352903 238465
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Medium	A13SE (E)	0	5	353000 238465
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (SW)	0	5	352903 238465
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (SW)	0	5	352903 238465
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (W)	0	2	352809 238464
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (SE)	0	2	353034 238294
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (SE)	0	2	353039 238344
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SW)	0	2	352903 238465

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A13NW (W)	0	2	352798 238496
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A13SE (SE)	0	2	353018 238306
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A13SW (SW)	0	2	352795 238412
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (NE)	13	2	353012 238576
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (W)	21	2	352752 238420
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (SW)	35	2	352762 238394
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (SE)	56	2	353116 238356
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (SE)	64	2	353102 238300
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (N)	65	2	352864 238730
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (E)	70	2	353136 238442
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (E)	83	2	353112 238522
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (E)	103	2	353148 238506
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (SW)	109	2	352682 238368
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (NW)	116	2	352680 238644
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (SE)	130	2	353048 238136
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A8NE (S)	157	2	353044 238106

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (NW)	166	2	352614 238660
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (W)	174	2	352550 238588
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (NE)	185	2	353106 238732
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A14SW (E)	196	2	353264 238392
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A8NE (SE)	204	2	353144 238110
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A8NE (SE)	223	2	353116 238066
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A14SW (E)	239	2	353304 238370
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (E)	0	2	352962 238465
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 112.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A8NW (S)	294	6	352788 238013
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 244.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A8NW (S)	323	6	352778 238016
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1599.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Gwy Catchment Name: Wye Primacy: 1	A18SE (N)	382	6	353084 239022

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 414.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A8NW (SW)	403	6	352553 238079
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1083.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Gwy Catchment Name: Wye Primacy: 1	A12NE (W)	421	6	352297 238622
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 272.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A9SW (SE)	569	6	353262 237752
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 40.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A12SW (W)	610	6	352095 238412
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 74.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Gwy Catchment Name: Wye Primacy: 1	A12SW (W)	611	6	352095 238412
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 146.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Gwy Catchment Name: Wye Primacy: 2	A14NE (E)	667	6	353687 238684
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 164.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Gwy Catchment Name: Wye Primacy: 1	A14NE (E)	670	6	353685 238696
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 144.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Red Brook Catchment Name: Wye Primacy: 1	A12SW (W)	685	6	352021 238403
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 217.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Gwy Catchment Name: Wye Primacy: 1	A12SW (W)	685	6	352021 238403

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1248.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Gwy Catchment Name: Wye Primacy: 1	A14NE (E)	725	6	353775 238591
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 326.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Red Brook Catchment Name: Wye Primacy: 1	A7NW (SW)	746	6	352145 237998
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 57.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Red Brook Catchment Name: Wye Primacy: 1	A7NW (SW)	748	6	352182 237953
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.0 Watercourse Level: Underground Permanent: True Watercourse Name: Red Brook Catchment Name: Wye Primacy: 1	A7NW (SW)	753	6	352189 237946
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 152.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Red Brook Catchment Name: Wye Primacy: 1	A7NW (SW)	754	6	352189 237946
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 76.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A8SE (S)	770	6	353153 237503
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.7 Watercourse Level: Underground Permanent: True Watercourse Name: Red Brook Catchment Name: Wye Primacy: 1	A12SW (W)	784	6	351947 238284
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 111.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A7SE (SW)	786	6	352352 237749
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 114.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A7SE (SW)	786	6	352352 237749

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Red Brook Catchment Name: Wye Primacy: 1	A12SW (W)	791	6	351941 238276
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.6 Watercourse Level: Underground Permanent: True Watercourse Name: Red Brook Catchment Name: Wye Primacy: 1	A7NE (SW)	794	6	352262 237814
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.2 Watercourse Level: Underground Permanent: True Watercourse Name: Red Brook Catchment Name: Wye Primacy: 1	A12SW (W)	796	6	351939 238269
96	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 47.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A8SW (S)	798	6	352721 237510
97	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 7.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A8SW (S)	798	6	352766 237496
98	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 20.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A8SW (S)	798	6	352766 237496
99	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 869.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Red Brook Catchment Name: Wye Primacy: 1	A7NE (SW)	800	6	352256 237812
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Red Brook Catchment Name: Wye Primacy: 1	A12SW (W)	802	6	351935 238257
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A8SW (S)	805	6	352783 237484

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 271.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A7SE (SW)	806	6	352507 237574
103	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 104.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A8SW (S)	807	6	352850 237465
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: Underground Permanent: True Watercourse Name: Red Brook Catchment Name: Wye Primacy: 1	A12SW (W)	816	6	351929 238235
105	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 179.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A3NE (S)	821	6	352950 237439
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A3NE (S)	824	6	353115 237442
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A3NE (S)	839	6	353121 237427
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A3NE (S)	839	6	353121 237427
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 939.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Eign Brook Catchment Name: Wye Primacy: 1	A17NE (NW)	840	6	352226 239215
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A7SE (SW)	844	6	352486 237585

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A7SE (SW)	844	6	352507 237574
112	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 76.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A7SE (SW)	853	6	352447 237603
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A3NE (S)	860	6	353079 237401
114	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 61.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A3NE (S)	863	6	353059 237396
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A7SE (SW)	864	6	352511 237548
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 244.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A7SE (SW)	870	6	352512 237539
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 148.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Red Brook Catchment Name: Wye Primacy: 1	A9NE (SE)	892	6	353840 237926
118	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1743.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Gwy Catchment Name: Wye Primacy: 1	A11SE (W)	893	6	351809 238437
119	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Withy Brook Catchment Name: Wye Primacy: 1	A11SE (W)	893	6	351809 238437

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Withy Brook Catchment Name: Wye Primacy: 1	A11SE (W)	911	6	351794 238407
121	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 156.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Withy Brook Catchment Name: Wye Primacy: 1	A11SE (W)	913	6	351792 238406
122	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 133.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wye Primacy: 1	A9NE (SE)	939	6	353864 237867
123	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: Underground Permanent: True Watercourse Name: Withy Brook Catchment Name: Wye Primacy: 1	A11SE (W)	988	6	351734 238291
124	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 680.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Withy Brook Catchment Name: Wye Primacy: 1	A11SE (W)	992	6	351732 238281

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
125	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Withy Brook, Hereford, Herefordshire Name: Lower Bullingham Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD24190 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: 1.019.00, 3200/0421	A6NE (W)	991	2	351821 238040
126	**Licensed Waste Management Facilities (Locations)** Licence Number: 30085 Location: Waste Reclamation Centre, Fir Tree Lane, Rotherwas Ind Est, Hereford, Herefordshire, HR2 6LA Operator Name: Beacon Waste Ltd Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, West Area Site Category: Household, Commercial And Industrial Transfer Stations **Licence Status: Surrendered** Issued: 2nd March 1993 Last Modified: 17th May 2010 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 9th July 2012 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	35	2	353099 238370
127	**Licensed Waste Management Facilities (Locations)** Licence Number: 401273 Location: Unit 285, Fir Tree Lane, Rotherwas Ind Est, Hereford, Herefordshire, HR2 6LA Operator Name: Quickskip Hereford Limited Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, West Area Site Category: Treatment of waste to produce soil <75,000 tpy **Licence Status: Issued** Issued: 17th April 2014 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SE (E)	141	2	353204 238359
128	**Licensed Waste Management Facilities (Locations)** Licence Number: 30271 Location: Unit 18, Thorn Business Park, Rotherwas, Hereford, Herefordshire, HR2 6JT Operator Name: Lively Joseph Henry Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, West Area Site Category: Special Waste Transfer Stations **Licence Status: Modified** Issued: 15th October 2002 Last Modified: 13th August 2014 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	295	2	352648 238142

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
129	**Licensed Waste Management Facilities (Locations)** Licence Number: 100581 Location: Land Adjacent To Unit 3, Thorn Business Park, Rotherwas Ind Estate, Hereford, Herefordshire, HR2 6JT Operator Name: Balfour Beatty Living Places Ltd Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, West Area Site Category: Physical Treatment Facilities **Licence Status: Transferred** Issued: 30th June 2009 Last Modified: 28th July 2011 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (W)	300	2	352400 238500
130	**Licensed Waste Management Facilities (Locations)** Licence Number: 30203 Location: Rotherwas Transfer Facility, Chapel Road, Hereford, Herefordshire, HR2 6LD Operator Name: Beacon Waste Ltd Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, West Area Site Category: Household, Commercial And Industrial Transfer Stations **Licence Status: Modified** Issued: 13th January 1998 Last Modified: 7th March 2003 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	476	2	353429 238039
131	**Licensed Waste Management Facilities (Locations)** Licence Number: 30233 Location: Rotherwas Household Waste Stn, Chapel Road, Rotherwas Ind Est, Hereford, Herefordshire, HR2 6LD Operator Name: Mercia Waste Management Ltd Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, West Area Site Category: Special Waste Transfer Stations **Licence Status: Modified** Issued: 20th July 2000 Last Modified: 12th May 2012 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	504	2	353356 237898
132	**Licensed Waste Management Facilities (Locations)** Licence Number: 30026 Location: Quickskip Transfer Stn, Reynard Close, Rotherwas Ind Est, Hereford, Herefordshire, HR2 6JH Operator Name: Lively Joseph Henry Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, West Area Site Category: Household, Commercial And Industrial Transfer Stations **Licence Status: Modified** Issued: 28th April 1989 Last Modified: 1st February 2005 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	604	2	353557 238002

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	**Licensed Waste Management Facilities (Locations)** Licence Number: 30129 Location: Eign Waste Treatment Centre, Outfall Road, Hereford, Herefordshire, HR1 1TG Operator Name: Welsh Water Organic Waste Limited Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, West Area Site Category: Treatment - Biological **Licence Status: Transferred** Issued: 26th May 1994 Last Modified: 9th April 2015 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (W)	643	2	352090 238704
134	**Licensed Waste Management Facilities (Locations)** Licence Number: 400043 Location: Outfall Works Road, Hereford, Herefordshire, HR1 1RY Operator Name: Dwr Cymru (Welsh Water) Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, West Area Site Category: Landfill Gas Engine (<3 mW) **Licence Status: Issued** Issued: 27th March 2013 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NW (W)	707	2	352000 238600
135	**Licensed Waste Management Facilities (Locations)** Licence Number: 30129 Location: Eign Waste Management Centre, Outfall Road, Hereford, Herefordshire, HR1 1TG Operator Name: Welsh Water Industrial Services Operator Location: Alexandra Gate, P O Box 295, Rover Way, Cardiff, CF24 5UE Authority: Environment Agency Wales, South East Area Site Category: Treatment - Biological **Licence Status: Issued** Issued: 26th May 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (W)	715	2	352028 238746
136	**Licensed Waste Management Facilities (Locations)** Licence Number: 402983 Location: Quickskip Hereford Limited, Land Off Chapel Road, Rotherwas Industrial Est, Hereford, Herefordshire, HR2 6LD Operator Name: Quickskip Hereford Ltd Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, West Area Site Category: Treatment of waste to produce soil <75,000 tpy **Licence Status: Issued** Issued: 9th March 2016 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SE (E)	837	2	353882 238197

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	**Licensed Waste Management Facilities (Locations)** Licence Number: 30137 Location: City Spares, Watery Lane, Lower Bullingham, Herefordshire, HR2 6JW Operator Name: Hardman Clive Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, West Area Site Category: Metal Recycling Sites (Vehicle Dismantlers) **Licence Status: Transferred** Issued: 6th July 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	934	2	352425 237521
138	**Licensed Waste Management Facilities (Locations)** Licence Number: 400738 Location: Eastside Recycling Facility, Fordshill Road, Rotherwas Ind Est, Hereford, Herefordshire, HR2 6NS Operator Name: Avalon Metals Limited Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, West Area Site Category: Metal Recycling Sites (Vehicle Dismantlers) **Licence Status: Issued** Issued: 28th January 2014 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NW (SE)	973	2	353950 237970
138	**Licensed Waste Management Facilities (Locations)** Licence Number: 30391 Location: Lloyd George House, Fordshill Road, Rotherwas Ind Est, Hereford, Herefordshire, HR2 6NS Operator Name: Eastside 2000 Limited Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, West Area Site Category: Special Waste Transfer Stations **Licence Status: Modified** Issued: 1st December 2006 Last Modified: 17th June 2016 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NW (SE)	973	2	353950 237970
139	**Licensed Waste Management Facilities (Locations)** Licence Number: 30109 Location: Greenapple Sludge, Fordshill Road, Rotherwas Ind Est, Hereford, Herefordshire, HR2 6NS Operator Name: Greenapple Sludge Ltd Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, West Area Site Category: Household, Commercial And Industrial Transfer Stations **Licence Status: Surrendered** Issued: 14th September 1993 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 27th May 2011 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NW (SE)	988	2	353935 237901
	Local Authority Landfill Coverage Name: Herefordshire Council - Has not been able to supply Landfill data		0	7	352903 238465
140	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1985	A14SE (E)	587	-	353642 238268
141	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1985	A7SE (SW)	875	-	352451 237574

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1985	A23SW (N)	955	-	352662 239600
143	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1985	A3NE (S)	989	-	353055 237270
144	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A13SE (SE)	0	-	353004 238374
145	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1890	A13SE (SE)	94	-	353156 238356
146	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A18SW (N)	490	-	352669 239113
147	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1890	A8SW (S)	520	-	352879 237753
148	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A18SW (NW)	541	-	352585 239127
149	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1890	A8SE (S)	625	-	353058 237636
150	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1890	A9NE (SE)	641	-	353581 237950
151	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A19NW (NE)	654	-	353270 239211
152	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1930	A9SW (SE)	679	-	353448 237746
153	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1931	A23SE (N)	852	-	353082 239505
154	**Registered Landfill Sites** Licence Holder: Welsh Water Authority Licence Reference: 1/052/01 Site Location: Hereford Sewage Works, Eign, Hereford, Herefordshire Licence Easting: 352000 Licence Northing: 238600 Operator Location: Reay House, 49 Bodenham Road, HEREFORD, Herefordshire, HR1 2T Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st February 1982 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Excavated Natural Materials $ Hardcore And Rubble	A12NW (W)	707	2	352000 238600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
155	**Registered Waste Transfer Sites** Licence Holder: Beacon Waste Ltd Licence Reference: 1.056.38 Site Location: Fir Tree Lane W.R.C, Rotherwas.Industrial Estate, Hereford, Herefordshire Operator Location: 106 High Street, EVESHAM, Worcestershire, WR11 4EZ Authority: Environment Agency Wales, South East Area Site Category: Civic Amenity Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 2nd March 1993 Preceded By Licence: R. 3 Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Bulky Houshold Waste, Empty Waste Oil Containers, Liquid Propane Gas Cylinders, Oil Contaminated Materials, Scrap Batteries, Unwanted H'Hld Chems = Pharms/Cosmetic, Unwanted H'Hld Chems = Trade-Named, Waste Oil Prohibited Waste: Clinical Wastes, Difficult Waste N.O.S. As In W.M.P.26, Food Waste, Liquid/Sludge Waste N.O.S., Obnoxious Wastes, Trade Or Business Waste	A13SE (SE)	60	2	353020 238200
155	**Registered Waste Transfer Sites** Licence Holder: Hereford & Worcs C.C. Licence Reference: R. 3 Site Location: Fir Tree Lane, Rotherwas, Hereford, Herefordshire Operator Location: County Hall, Spetchley Road, WORCESTER, Worcestershire, WR5 2NP Authority: Environment Agency Wales, South East Area Site Category: Civic Amenity Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Licence Status: Record supersededSuperseded Dated: Not Supplied Preceded By Licence: Not Given Superseded By Licence: 1.056.38 Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Awkward/Bulky Houshold Waste, Waste Engine Oil	A13SE (SE)	60	2	353020 238200
156	**Registered Waste Transfer Sites** Licence Holder: Cunliffe & Lively T/A Quickskip Ltd Licence Reference: 1.056.22 Site Location: Reynard Close, Rotherwas Industrial Estate, HEREFORD, Herefordshire, HR2 6JH Operator Location: Reynard Close, Rotherwas Industrial Estate, HEREFORD, Herefordshire, HR2 6JH Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 28th April 1989 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Positioned by the supplier Boundary Quality: Good Authorised Waste: Construction Ind. Wastes, Household Waste, Ind. Non-Haz. Waste, Max.Waste Permitted By Licence-Stated Prohibited Waste: Clinical Wastes, Difficult Wastes (As In Wmp.26), Obnoxious Wastes	A9NE (SE)	597	2	353573 238049

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
157	**Registered Waste Transfer Sites** Licence Holder: Mercia Waste Management Ltd Licence Reference: EAWML30233 Site Location: Rotherwas H.W.Station, Chapel Road, Rotherwas Industrial Estate, HEREFORD, Herefordshire, HR2 6LD Operator Location: Brook House, Oldham Road, Middleton, MANCHESTER, Greater Manchester, M24 1AY Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 20th July 2000 Preceded By Licence: 1.056.55 Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste Maximum Waste Permitted By Licence Newlicence, Wastes Not To Hand Ukw 21.00.00 Inert Materials Ukw 22.00.00 General & Biodegradable Waste Ukw 23.00.00 Metals & Discarded/Scrap Composite Equipment Ukw 26.00.00 Asbestos Waste	A14SE (E)	624	2	353650 238160
157	**Registered Waste Transfer Sites** Licence Holder: Beacon Waste Ltd Licence Reference: 1.056.55 Site Location: Rotherwas Transfer Station, Chapel Road, Rotherwas Industrial Estate, Hereford, Herefordshire, Hr2 6ld Operator Location: 106 High Street, EVESHAM, Worcestershire, WR11 4EZ Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 13th January 1998 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste Animal Bedding Difficult Wastes (As In Wmp.26) Only Comprising Drain/Interceptor Wastes Drained Road Sweepings Empty Used Containers Excavated Materials Food Processing Wastes/Starch Household & Commercial Waste Including Ind. Non-Haz. Waste Inert Waste Including Max.Waste Permitted By Licence Scrap Rubber (Including Tyres) Prohibited Waste Any Sealed Containers Clinical Wastes Contaminated Materials Difficult Waste N.O.S. Explosive/Similar Waste Flammable Waste Liquid Wastes Other Obnoxious Wastes Oxidising Waste Sludge Wastes With Moisture Content > 80%W/W Waste In Pressurised Containers Waste N.O.S. Waste Reactive With Air Or Water Waste With Ph < 4 Waste With Ph > 11.5	A14SE (E)	624	2	353650 238160

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
158	**Registered Waste Transfer Sites** Licence Holder: Greenapple Sludge Ltd Licence Reference: 1.056.45 Site Location: Fordshill Road, Rotherwas Industrial Estate, HEREFORD, Herefordshire, HR2 6NS Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 14th September 1993 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste Domestic Septic Tank & Cesspool Wastes Max.Storage In Licence Prohibited Waste Difficult Wastes (As In Wmp.26) Waste N.O.S.	A10NW (SE)	988	2	353935 237900
159	**Registered Waste Treatment or Disposal Sites** Licence Holder: Welsh Water Industrial Services Ltd Licence Reference: 1.052.07 Site Location: Eign Sewage Treatment Works, Outfall Road, Hereford, Herefordshire Operator Location: PO 295, Alexandra Gate, Rover Way, CARDIFF, South Glamorgan, CF2 2UE Authority: Environment Agency Wales, South East Area Site Category: Treatment Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 26th May 1994 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste Animal Processing Wastes Cellulose Wastes (Natural/Synth.) Fats, Waxes And Greases Food Processing Wastes/Starch Glue Wastes Ion-Exchange Resin Wastes Latex, Latex/Rubber Sol'Ns/Susp'Ns Max.Waste Permitted By Licence Mixed Inorganic Compounds Mixed Organic Compounds Other Organic Compounds Oxygen Containing Organic Compounds Paint Waste Pharmaceutical/Cosmetic Products Phenols, Analogues/Derivatives Polymeric Material, Products/Scrap Soaps & Detergents Water (Contaminated) Prohibited Waste Difficult Waste As In W.M.P.26 -N.O.S. Special Wastes	A12NW (NW)	670	2	352100 238800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Registered Waste Treatment or Disposal Sites				
160	Licence Holder: F G Morris - City Spares Licence Reference: 1.056.47(S) Site Location: Watery Lane, Lower Bullingham, HEREFORD, Herefordshire, HR2 6JW Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Scrapyard Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 6th July 1994 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste Cars/Vehicles Prohibited Waste Any Metal In Fine Powder Form Difficult Waste N.O.S. Elemental Sodium Or Potassium Liquid Waste N.O.S. Mercury Transformers/Capacitors/Rectifiers Waste Gas Cylinders	A7SE (SW)	940	2	352430 237510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
161	**Control of Major Accident Hazards Sites (COMAH)** Name: Sandling Fireworks Location: Rotherwas Industrial, HEREFORD, Hereford & Worcester, HR Reference: Not Supplied Type: Lower Tier **Status: Record Ceased To Be Supplied Under COMAH Regulations** Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	614	8	353552 237974
162	**Explosive Sites** Name: North Site, Fir Tree Lane/G E Lundegaard T/A Sandl Location: North Site, Fir Tree Lane, Rotherwas, Hereford, Hr2 6la **Status: Not Active** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (SE)	18	8	353073 238348
163	**Explosive Sites** Name: Sandling Fireworks Location: 14 Romney Huts, Chapel Road, Rotherwas Industrial Estate, Hereford, HR2 6LD **Status: Not Active** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	686	8	353696 238106

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pridoli Rocks (Undifferentiated)	A13SE (SW)	0	1	352903 238465
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SW)	0	1	352903 238465
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	518	1	353308 239000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9SW (SE)	704	1	353452 237716
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	738	1	352186 237967
164	**BGS Recorded Mineral Sites** Site Name: Lower Bullingham Gravel Pit Location: Lower Bullingham, Hereford, Herefordshire Source: British Geological Survey, National Geoscience Information Service Reference: 27655 Type: Opencast **Status: Ceased** Operator: Hereford Washed Sand & Gravel Co., Ltd. Operator Location: Not Supplied Periodic Type: Quaternary Geology: River Terrace Deposits, 1 Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	368	1	352440 238240
165	**BGS Recorded Mineral Sites** Site Name: Rotherwas Location: Rotherwas, Hereford, Herefordshire Source: British Geological Survey, National Geoscience Information Service Reference: 44505 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Silurian Geology: Raglan Mudstone Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A14SE (E)	593	1	353647 238266

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
166	**BGS Recorded Mineral Sites** Site Name: Church Farm Location: Lower Bullingham, Hereford, Hereford, Herefordshire Source: British Geological Survey, National Geoscience Information Service Reference: 44556 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: River Terrace Deposits, 2 Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	939	1	352433 237509
167	**BGS Recorded Mineral Sites** Site Name: Dinedor Location: Dinedor, Hereford, Herefordshire Source: British Geological Survey, National Geoscience Information Service Reference: 44506 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Devonian Geology: St Maughans Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A3NE (S)	990	1	353059 237270
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	352903 238465
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	352903 238465
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	58	1	353123 238375
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	352903 238465
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	48	1	353109 238465
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	58	1	353123 238375
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	352903 238465
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	352903 238465
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	352903 238465
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	58	1	353123 238375
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	352903 238465

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	58	1	353123 238375
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	353050 238426
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	352903 238465
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	353050 238426
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	352903 238465