Bloor Homes Ltd et Al.

THE LAND EAST OF STATION ROAD, ELSENHAM

Preliminary Risk Assessment

70084697-301
SEPTEMBER 2022

PUBLIC

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EXECUTIVE SUMMARY

The site is approximately 11.12ha in size, its land uses has been relatively unchanged and remains as agricultural farmland.

The initial development plans will include up to 200 residential dwellings, along with landscaping, public open space and associated infrastructure works.

This report is for the purpose of establishing a comprehensive technical baseline and will inform on potential liabilities associated with the site. The report will be used to support an outline planning application.

A Preliminary Risk Assessment (PRA) has been undertaken to develop a preliminary conceptual site model (pCSM) identifying potential ground contamination risks and evaluate the likely significant risks. In addition, a preliminary assessment of geotechnical risks has been provided.

It should be noted that this executive summary does not form a standalone document and should be read in conjunction with the WSP Preliminary Risk Assessment (Ref: 70084697-301).

ENVIRONMENTAL SETTING

The ground profile of the site is predominantly topsoil with the potential for localised areas of Made Ground in the north western corners of the site relating to the disused railway line, this in turn is underlain by superficial deposits which comprise Head Deposits in the western area of the site and Lowestoft Formation predominantly located in the far north western corner, central and eastern areas of the site. These deposits overlie the Kesgrave Catchment Subgroup which is typically noted to be present across the site and also outcrops in the central and western parts of the site.

The underlying bedrock comprises the London Clay Formation located across the site with the exception of the north western corner of the site, the London Clay is underlain by the Thanet Formation and Lambeth Group which is anticipated to be underlain by the White Chalk Subgroup at depth.

The Lowestoft Formation and Head Deposits are classified by the Environment Agency as Secondary Undifferentiated Aquifers, the Kesgrave Catchment Subgroup, Lambeth Group and Thanet Formation are classed as a Secondary (A) Aquifer, the White Chalk Sub-group as a Principal Aquifer and the London Clay as an Unproductive Stratum;

There are no surface water bodies present on site, the nearest features are minor drainage channels and streams situated north-west and west of the site, which flow southward into the River Stort via Stanstead Brook. To the east and south of the site, isolated irrigation ditch and a small pond can also be observed. Mapping indicates regional groundwater flow is anticipated to be south. The site and its surroundings are situated within a nitrate vulnerable zone.

POTENTIAL FOR GROUND CONTAMINATION

WSP considers that on-site sources of potential contamination are associated with the current and historical uses of the site, including agricultural land use, and ground associated with the disused railway line. Potential off-site sources of contamination include the surrounding current and historical land uses including the adjacent former sand and gravel extraction and associated infilling of the pits, agricultural land and surrounding residential and commercial development.

Plausible contaminant linkages have been identified with respect to human health including dermal contact with contaminated soils and waters and inhalation or ingestion of contaminated soils, dust or water. Plausible contaminant linkages identified to controlled waters include the possibility of leaching of contaminants, lateral migration of contaminants into surface waters off site. Plausible contaminant linkages to building structures include direct contact with contaminated soils, groundwater or immiscible contaminants.

In conclusion, the Preliminary Risk assessment indicates generally a **Low to Moderate** risk to human health, controlled waters, and site structures.

GEOTECHNICAL CONCLUSIONS

The geotechnical risks that require further consideration during subsequent stages are:

- Lateral variation of superficial soils;
- Below ground obstructions associated with the former, now dismantled railway spur in the north and north west of the site; and
- The potential for both compressible and / or desiccated soils associated with the cohesive Head and Lowestoft Formation.

WSP consider shallow footings within the Lowestoft Formation (diamicton) or Kesgrave Catchment will most likely provide appropriate foundations for low rise lightly loaded structures. A targeted intrusive ground investigation is required to inform on subsequent stages of design.

RECOMMENDATIONS

WSP recommends the following actions are undertaken:

- Complete a detailed desk study to assess and potentially zone the unexploded ordnance (UXO) hazard level on the site.
- An intrusive ground investigation should be undertaken to assess:
  - Baseline ground conditions at the site and further investigations of contaminant concentrations, ground gas and groundwater monitoring. It should be noted that this investigation could be undertaken post planning submittal;
  - Geotechnical parameters to assist subsequent design.
- Following the ground investigation, an interpretative Ground Investigation Report (GIR) should be produced including an assessment of the risk from contamination at the site and a preliminary geotechnical appraisal.

1 INTRODUCTION AND OBJECTIVES

1.1 AUTHORISATION AND PURPOSE OF ASSESSMENT

WSP was instructed by Bloor Homes Ltd and Gillian Smith, John Robert Carmichael Smith, Robert Giles Russell Smith and Andrew James Smith (the Client) to undertake a Preliminary Risk Assessment (PRA) at the Land East of Station Road (Elsenham, west of Elsenham train station), Elsenham ('the Site') as shown on **Figure 1** in **Appendix A.1.**

1.2 PROPOSED DEVELOPMENT

The site currently consists of undeveloped arable farmland. The site is bound by agricultural land to the north and east, the consented Phase 1 development to the south; and by the West Anglia Mainline Railway, Elsenham station car park and existing commercial facilities to the west. The site is approximately 11.12ha in size.

WSP understands that the initial development plans will include up to 200 residential dwellings, long with landscaping, public open space and associated infrastructure works.

This report is for the purpose of establishing a comprehensive technical baseline and will inform of potential liabilities associated with the site. The report will be used to support a planning application for the 2nd Phase of the Elsenham development known as "Land east of Station Road, Elsenham".

1.3 OBJECTIVES

The key objectives of this assessment are to:

- Develop a preliminary conceptual site model (pCSM) to identify potential ground contamination risks associated with the site;
- Evaluate the likely significance of risks associated with potential ground contamination through a contaminant linkage assessment for the proposed development; and
- Identify preliminary geotechnical risks that would need to be considered once development proposals have been produced.

1.4 SCOPE OF WORKS

The scope of works undertaken in this assessment comprises:

- A site walkover of publicly accessible areas to document the current land use and site setting;
- A review of publicly available historical maps and site plans (where available) to identify former land uses and potential contaminative activities on and surrounding the site;
- A review of previous reports completed for the site;
- A review of relevant regulatory authorities including the Environment Agency (EA), Local Council planning website, Building Control Officer (BCO), and the Contaminated Land Officer (CLO).
- A review of UXO risk at the site;
- A review of relevant publicly available information relating to hydrological features, hydrogeology, neighbouring land use, ecologically sensitive uses and geology in order to establish the environmental setting of the site and the sensitivity of the location;
- Development of a preliminary conceptual site model via the source-pathway-receptor contaminant linkage approach;

- An outline of environmental risks with respect to ground, groundwater and ground gas conditions, which may potentially arise as liabilities or constraints; and
- A preliminary desk based geotechnical assessment of existing ground conditions to identify potential ground engineering risks.

This report has been prepared in general accordance with:

- Part 2A, Environmental Protection Act 1990;
- Environment Agency Land Contamination Risk Management (LCRM) 2020; and
- The National Planning Policy Framework.

The report contains British Geological Survey (BGS) and EA information.

1.5 LIMITATIONS

This report is addressed to and may be relied upon by the client (Bloor Homes). It may not be relied upon or transferred to any other parties without the express agreement of WSP in writing. The report should be read and used in full. No responsibility will be accepted where this report is used, ether in its entirety or in part, by any other party. WSP cannot be held liable for third party information.

The limitations of this assessment are attached in **Appendix B**.

2 PREVIOUS REPORTS

Previous reports have been completed by WSP on and adjacent to the current site. A summary of each report is presented below.

ON-SITE

Preliminary Risk Assessment, Elsenham Essex (WSP) Ref:18738-001, March 2013

WSP conducted a Preliminary Risk Assessment (PRA) across the wider Elsenham development within which the current site (Elsenham Phase 2) is located in the central west portion. The findings of the PRA specific to the current site have been summarised below.

The site is underlain by a series of superficial deposits comprising Head Deposits; Lowestoft Formation (formerly reported as Glacial Till); and Kesgrave Catchment Subgroup (formerly reported as Kesgrave Sands and Gravels). The bedrock beneath the site comprises London Clay; and the Thanet Formation and Lambeth Group (undifferentiated) (formerly reported as Lambeth Group, Thanet Sand Formation and Harwich Formation).

The Environment Agency (EA) classify the Head Deposits and Lowestoft Formation as Secondary Undifferentiated Aquifers; the Kesgrave Catchment Subgroup and Lambeth Group and Thanet Sand Formation as Secondary (A) Aquifers; and the London Clay as an Unproductive Stratum.

Historical information indicates potential sources of contamination on site including the former Elsenham & Thaxted Light Railway (adjacent to northern boundary of the site) and Mineral extraction in the south east (250-300m)

Surrounding land uses of significance to ground contamination include current and former landfills (750m south east), the Greater Anglia Railway (adjacent to western boundary of site), farms (200m north), and depots (20m north west of site).

WSP identified a low to moderate risk with regard to human health, controlled waters, built structures and geotechnical constraints. Recommendations include completing an unexploded ordnance (UXO) assessment; and a ground investigation to include baseline contaminant concentrations, ground gas and groundwater information and geotechnical parameters.

Infiltration Testing Report, Elsenham Essex (WSP) Ref:18738-003, March 2013

WSP completed a ground investigation and subsequent infiltration testing across the wider Elsenham site. The initial ground investigation comprised 50no. trial pits completed during September and October 2012. Trial pits located within the current Elsenham Phase 2 site are noted to be TP27, TP28, TP31, TP32, TP33, TP34 and TP35. Following on from the initial investigation 16no. trial pits and infiltration tests were completed across the wider Elsenham site during October 2012. The infiltration pits completed within the current Elsenham Phase 2 site have been identified as TP211, TP212 and TP212A.

An extract of the exploratory hole plan taken from the previous report is presented within **Appendix A.2,** and relevant exploratory hole logs are presented within **Appendix C.1**.

The ground conditions encountered relating to the current site include:

- Topsoil located across the Phase 2 site from ground level to proven depths ranging from 0.2m to 0.35m below ground level (bgl);

- Head Deposits located in the west / north west of the Phase 2 site; and encountered from 0.3m and 0.35m bgl to a maximum unproven depth of 2.0m bgl. The deposit comprised slightly sandy slightly gravelly clay with very sand clay at increasing depth;
- Lowestoft Formation (formerly noted as Glacial Till) located in the eastern and central area of the Phase 2 site. The formation was encountered from 0.3m and 0.9m bgl to a maximum unproven depth of 3.0m bgl; and comprised slightly sandy slightly gravelly clay with chalk and flint gravel; and sandy clay deposits.
- Kesgrave Catchment Subgroup (formerly noted as Kesgrave Sands and Gravels) encountered across the Phase 2 site beneath the Lowestoft Formation; beneath the Head Deposits in the west (TP33); and beneath the topsoil in the north / northwest (TP27); from 0.2m and 3.0m bgl to a maximum unproven depth of 3.7m bgl. Deposits comprised slightly gravelly slightly clayey sand.

Groundwater seepages were noted in TP33 at 2.5m bgl within Kesgrave Catchment Subgroup; and TP211 at 2.0m bgl within the Head Deposits.

Infiltration for TP211 could not be completed due to groundwater ingress; and testing within TP212 failed to reach 25% empty, therefore a representative infiltration rate was not obtained. A more granular stratum (within the Kesgrave Catchment Subgroup) was encountered within TP212A and identified an outline infiltration rate of 1 x 10^{-5} m/s.

OFF-SITE

Preliminary Risk Assessment, East of Elsenham (WSP) Ref:11500582, November 2017

WSP conducted a PRA adjacent to the south of the current Elsenham Phase 2 comprising of 20ha of undeveloped agricultural land that has been consented to be developed into 350 dwellings. This site is regarded as Phase 1 of the Elsenham Scheme.

Potential on-site sources were noted to include Made Ground associated with former sand and gravel pits (250-300m south east), the former Elsenham and Thaxted Light Railway spur north east of Elsenham Station (50m), and the agricultural use of the site (surrounding land, north, east and south of site boundary). Off-site sources include the Greater Anglian Railway line (alongside the western boundary of the site), a depot (20m north east of the site alongside the Greater Anglian Railway line), and landfills (m south east).

Geotechnical constraints have been identified associated with the risk of lateral variability of deposits, below ground obstructions associated with the former railway, compressible ground, and desiccation of clay soils.

Overall a low to moderate risk was identified to human health, controlled waters, and geotechnical constraints.

3 SITE RECONNAISSANCE

3.1 SITE DESCRIPTION

The site location is provided as **Figure 1** (**Appendix A.1**) and a site layout plan as **Figure 2 (Appendix A.1).** A site visit was carried out by WSP on 11th October 2021 and a photographic record of key on-site observations is provided in **Appendix D**. **Figure 2** in **Appendix A.1** shows the location of each photo taken during the site visit.

Table 1 provides information relating to the site obtained from a review of Ordnance Survey (OS) mapping, online aerial photography, the site walkover, and relevant regulatory information contained within the Envirocheck Report **(Appendix E)**.

Table 1 – Site Information

Details	Description
Name and address of site	Land East of Station Road, Elsenham.
Grid reference	553600, 227080
Size	Approximately 11.12 ha
Site description and current use	The site occupied a section of a large agricultural field and was accessed from Old Mead Road adjacent to Elsenham station car park **(Photo 1)**. The site comprises agricultural land **(Photos 2 and 3)**. The northern field boundary consisted of hedgerows and semi-mature and mature trees **(Photo 4)**; The hedgerows were associated with drainage ditches (dry) on the field edge. Power lines are shown to run adjacent to the northern boundary **(Photo 5)**. The site's eastern boundary is not marked but cuts through part of the wider agricultural land. In the south and west the boundary is marked by a series of small blue posts within the field itself **(Photo 6)**. This is understood to denote the Phase 1 boundary line. The western boundary **(Photo 7)** runs alongside a hedgerow with mature trees and a drainage ditch. Older exploratory holes wells were noted adjacent to the western boundary of the site. No surface water bodies were present on site.
Ground cover	The site comprised agricultural land.
Trees and invasive species	Mature trees / hedgerows were predominantly noted along the western and northern boundary of the site. An ecological survey was not completed as part of the walkover.

Topography	Mapping indicates the site slopes down towards the west south west of the site by approximately 10m. The sites highest elevation is in the east.
Bulk material storage	No evidence of bulk material storage on site. Note a storage compound is present 75m north west of site.
Polychlorinated biphenyls (PCBs)	There were no substations noted on the site.
Waste storage	No waste storage areas were identified. A small pile of soils was noted along the western boundary near to the site entrance.
Asbestos containing materials (ACMs)	No ACMs were noted during the walkover.
Nearby features	North: Hedgerow and drainage ditch (power lines), beyond that; agricultural land, Farm and poultry houses observed. North west: Elsenham Railway station, carpark, and depot. South: Undeveloped agricultural land (to be developed in separate residential development (Phase 1)), beyond this, residential dwellings. East: Undeveloped agricultural land. West: Hedgerow and drainage ditch adjacent to boundary, behind it consists of the Greater Anglian Railway line and village of Elsenham.

4 HISTORICAL POTENTIALLY CONTAMINATIVE LAND USES

4.1 SITE HISTORY

The history of the site and surrounding area has been reviewed and determined with reference to Ordinance Survey maps contained within the Envirocheck Report (Ref: 285338568_1_1). A study into the former land uses and if they were potential contaminators has been undertaken. The following section provides a summary of this information. The Envirocheck Report is attached as **Appendix E**.

ON-SITE

Table 2 – On-site historical map review

Date of Mapping	Scale	Feature
1875-1877	1:2,500 (A10 and A11)	Mapping shows the site as undeveloped agricultural land. Site is segmented into three individual fields, boundaries between fields run north-south through the centre of the site; and east-west in the south west, joining with the north-south field boundary in the centre.
1897	1:2,500 (A10 and A11)	Removal of east-west field boundary in the south west of site. Remnants of the field boundary can be seen on the far western site boundary. Public footpath runs along the northern site boundary.
1920-1923	1:2,500 (A10) 1:10,560	Development of the Elsenham & Thaxted Light Railway line intersects the site on the northern and north-western boundaries. No apparent change to main site, land use remains as agricultural.
1951	1:10,560	North-south field boundary running through the centre of the site is partially removed in the southern portion of the site.
1966	1:10,000	Elsenham & Thaxted Light Railway line is no longer present. Site remains undeveloped agricultural land. Central field boundary running north-south is no longer noted.
1966-present day	1:10,000 1:2,500 (A10 and A11)	No apparent change. 1999 mapping shows a track/access road constructed along the north western boundary of the site associated with the train station car park.

OFF-SITE

Table 3 – Off-site historical map review (500m)

Name	Direction	Approx. Distance (m)	Years feature observed
Agricultural land	N, S and E	0-500	1875-present
Cattle Pens Depot and associated tank noted Station car park	NW	20	1920-1970 1970 to present 1994 to present
Greater Anglian Railway line & Elsenham Station	W	Adjacent 50m from western site boundary	1875 to present
Garden Nursery with Glazed Roof Buildings and associated tanks Removal of Garden Nursery with Glazed Roof Buildings and associated tanks, development of residential/commercial dwellings	NW	50	1920 to 1970 1970 to present
Agricultural Land Unnamed buildings Expansion of residential/commercial area	W W SW	50 50-150	1875-1951 1951-1966 1970-present
Agricultural Land and sparse residential properties with PH and School. Elsenham Village expansion alongside railway line	S SSE	0-500 100-500	1881-1923 1923-present day
Agricultural Land Noted as Poultry Farm and works buildings Area noted as works buildings Area noted as the Farm House and Bell House	N	75-200	1875 to 1951 1951 to 1983 1983 to 1999 1999 to present
Sand and gravel pits Pits no longer noted (potentially infilled)	SE	100-250	1951-1983 1983-Present
Sand or clay pit Pit disused Suspected infilling of pit	E	240	1875-1897 1897-2006 Between 2006-2021
Alsa Wood	W	250-500	1881 to present

5 ENVIRONMENTAL SETTING

5.1 GEOLOGY AND HYDROGEOLOGY

This report contains geological map extracts taken from the British Geological Survey (BGS) Digital Geological map of Great Britain, Map Sheet 222- Great Dunmow (1:50,000, 1990). Geological information has been reviewed and presented in **Table 4** alongside aquifer designations for the relevant geological units.

Table 4 – Geological Mapping Summary

Strata	Location	Description	Aquifer Designation
Head	Along western boundary	Clay, silt, sand, and gravel.	Secondary Undifferentiated
Lowestoft Formation	Far north western corner and in the east of the site	Diamicton – till, with flint / chalk content	Secondary Undifferentiated
Kesgrave Catchment Subgroup	Present across the stie and outcropping in the central and western portion of the site.	Sand and gravel.	Secondary (A) Aquifer
London Clay Formation	Entire site, except for the north western corner	Clay, Silt and Sand	Unproductive Stratum
Thanet Formation and Lambeth Group (undifferentiated)	Potentially beneath entire site	Clay, Silt and Sand	Secondary (A) Aquifer

In addition to the onsite geology it is noted that the Lewes Nodular Chalk Formation and Seaford Chalk Formation (White Chalk Sub-group) is adjacent to the north western site boundary overlain by the superficial deposits and should be anticipated at depth beneath the Thanet Formation and Lambeth Group (undifferentiated).

A previous investigation completed by WSP in September and October 2012 is detailed within **Section 2.** Overall, for the current site, topsoil was encountered across the site; Head Deposits were located in the west / north west; Lowestoft Formation located in the eastern and central area of the site; and the Kesgrave Catchment Subgroup located across the site beneath the Lowestoft Formation; beneath the Head Deposits in the west (TP33); and beneath the topsoil in the north / northwest (TP27). A copy of the exploratory hole logs is presented in **Appendix C.1** and the exploratory hole plan is presented in **Appendix A.2**.

One publicly available BGS borehole was present within 100m of the site. A summary of the BGS boreholes is presented in **Table 5** below and a copy of the log is presented in **Appendix C.2**.

Table 5 - BGS Borehole Summaries

Borehole	Location	Strata encountered	From – to depth (m bgl*)	Depth groundwater encountered (m bgl*)
Tl52nw93	24m north	**Topsoil**	GL to 0.6	3.8
		Kesgrave Catchment Subgroup: Medium sand and traces of fine, angular well-rounded flint gravels, discrete clay seams throughout.	0.6 to 4.6	
		Red Crag Formation (Potentially Kesgrave Catchment Subgroup): Pebbly sand, mix of course and fine gravel with well-rounded and angular flint and medium sand.	4.6 to 9	
		London Clay: Clay, silty, fine sandy, dark grey.	9 to 10 (Not Proven)	

* metres below ground level

The BGS borehole log highlights uncertainty regarding the Red Crag Formation. WSP would agree with this uncertainty and would suggest it could be part of the Kesgrave Catchment Subgroup.

5.2 HYDROLOGY

There is one surface water abstraction located 413m south west of site operated by Michael Rowley Ltd (License No 6/33/27/*s/053) for agricultural use, however this is currently revoked.

Mapping indicates the nearest surface water feature is a drainage stream situated 34m west of the site. The drain forms part of a series of drainage channels around the north-west Elsenham residential area. The drains are noted to flow south into Stansted Brook (~900m south), which subsequently flows to the south west to the River Stort (~4.5km south west). Other relevant surface water features include an isolated irrigation channel 400m east of the site, and a small, isolated pond 300m south of the site.

Mapping indicates the site has a low risk of flooding from surface water (1000-year return) along the western boundary.

5.3 HYDROGEOLOGY

No groundwater abstractions are located within 500m of the site. The site is not located within an Environment Agency Source Protection Zone (SPZ). A SPZ 3 is located 30m to the north of the site.

BGS groundwater flooding susceptibility data indicates that small areas in the east and south of the site have limited potential for groundwater flooding to occur. The central area of the site has a potential for groundwater flooding of property situated below ground level; and there is potential for groundwater flooding to occur at the surface in the west and along the western boundary of the site.

5.4 PRELIMINARY HYDROGEOLOGICAL MODEL

The ground profile of the site is predominantly topsoil with the potential for localised areas of Made Ground in the north western corners of the site relating to the disused railway line, this in turn is underlain by superficial deposits which comprise Head Deposits in the western area of the site and Lowestoft Formation predominantly located in the far north western corner, central and eastern areas of the site. These deposits overlie the Kesgrave Catchment Subgroup which is typically noted to be present across the site and also outcrops in the central and western parts of the site.

The underlying bedrock comprises the London Clay Formation located across the site with the exception of the north western corner of the site, the London Clay is underlain by the Thanet Formation and Lambeth Group which is anticipated to be underlain by the White Chalk Subgroup at depth.

Groundwater seepages were noted during the WSP ground investigation completed September and October 2012 at 2.5m bgl within Kesgrave Catchment Subgroup; and at 2.0m bgl within Head Deposits.

The BGS hydrogeological map of area between Cambridge and Maidenhead (Sheet 14; 1:100,00; 1984) indicates that groundwater depth at 65m AOD with flow direction likely to be towards the south. Mapping indicates ground level at the site ranges from 90m to 100m AOD suggesting that groundwater is between 25m and 35m bgl. It is considered that this is likely to be within the Thanet Formation and Lambeth Group or White Chalk, beneath the London Clay.

Localised shallow groundwater may be present within the granular lenses of topsoil and Made Ground (if present). A shallow groundwater body is likely to be present within the Kesgrave Catchment Subgroup and granular lenses of the Lowestoft and Head Deposits. Due to the presence of the Kesgrave Catchment Subgroup there is the potential for lateral migration across the site. Any significant vertical migration from the overlying cohesive Lowestoft Formation and Head Deposits will be limited. It is anticipated that a deeper groundwater body will be present within the Thanet Formation and Lambeth Group or White Chalk. Due to the presence of the overlying London Clay across the majority of the site any significant vertical groundwater migration will be limited with the exception of the north western corner where the London Clay is noted to be absent allowing continuity between superficial deposits and the underlying Thanet Formation and Lambeth Group; and Principal Aquifer of the White Chalk.

5.5 RADON

The site is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). No radon protection measures are necessary in the construction of new dwellings or extensions.

5.6 UNEXPLODED ORDNANCE RISK (UXO)

Publicly available bomb risk mapping supplied by Zetica and attached in **Appendix F**, indicates that the site is at a low risk of UXO.

A Pre-Desk Study Assessment (PDSA) was completed by Zetica, dated 10 November 2021 and is presented in **Appendix F**. The PDSA notes the following:

- WWI strategic targets within 5km of the site comprise transport infrastructure and public utilities.
- WWII strategic targes within 5km of the site include military camps and training areas; transport infrastructure and public utilities; Royal Air Force Stansted Mountfitchet; and Anti-Aircraft (AA) and anti-invasion defences.
- A military camp was established on land adjacent to the site.
- During WWII the site was within an area which noted High Explosive (HE) bombs with a bombing density of seven bombs per 405 hectares. Available records indicate HE bombs fell in close proximity to the site.

The PDSA has recommended that a detailed desk study is commissioned to assess, and potentially zone the UXO hazard level on the site.

5.7 MINERAL EXTRACTION

There are two recorded mineral sites within 500m of the site as summarised in **Table 6**.

Table 6 – Mineral Extraction within 500m of the site

Site Name	Location	Status	Geology (Commodity)	Type
Elsenham (Ref:6518)	388m south-east	Ceased	Kesgrave Catchment Subgroup (Sand)	Opencast
Elsenham Sand and Gravel Pit (Ref: 225975)	429m east-south-east	Ceased	Kesgrave Catchment Subgroup (Sand and Gravel)	Opencast

5.8 LANDFILLING

No historical or current landfill sites are located within 500m of the site. The nearest historic landfill is located 647m east of the site and relates to Greenham Construction, Elsenham. The last input date was noted as April 1994 and included waste comprised industrial and commercial waste.

Potentially infilled ground has been identified at two localities within 500m of the site; the first being a small disused pit 240m east; and a large disused sand and gravel pit 265m south east. Composition of the filled land unknown.

5.9 ECOLOGY

The entirety of the site is situated within a Nitrate vulnerable zone. No other land use sensitivities are recorded.

6 REGULATORY CONSULTATION

6.1 REGULATORY INFORMATION

Information relating to various regulatory controls has been taken from the Envirocheck Report, which is presented in **Appendix E**. The potential for hazardous materials to impact upon the ground conditions, surface or groundwater on-site are summarised below within **Table 7**.

Table 7 – Regulatory Information within 500m

Environmental Data	Distance from site (within 500m)	Details	Potential risk
Contaminated land register entries and notices	N/A	No entries on the contaminated land register were recorded within 500m of the site.	No
Discharge Consents	54m West	Thames Water Utilities Ltd (Ref: Temp.0914). Sewage discharge into Stansted Brook, issued November 1989. Authorisation Revoked April 2001.	No, discharge is historic and has been inactive for considerable time.
	55m West	Thames Water Utilities Ltd (Ref: Temp. .0913) Sewage discharge into Stansted Brook, issued September 2010. Surrendered under EPR 2010.	No, discharge is historic and has been inactive for considerable time.
	86m West	Willis Gambier Ltd (Ref: Prcnf14350) Trade Discharges-Site drainage (contaminated surface water, not tips) into a ditch/tributary of the River Cam, issued August 2000, Lapsed (under Environment Act 1995, Schedule 23). Revoked March 2013.	No, discharge is historic and has been inactive for considerable time.
	247m North-West	Gales A (Ref: Prcnf17494) Sewage discharge into unnamed tributary of River Cam, issued March 2005, New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)	No, discharge is historic and has been inactive for considerable time.
Local Authority Pollution Prevention and Controls	N/A	No entries on for local authority pollution prevention controls within 500m of the site.	No
Pollution Incidents to Controlled Waters	N/A	N/A	No
Substantiated Pollution Incident Register	N/A	N/A	No

Environmental Data	Distance from site (within 500m)	Details	Potential risk
Gas Pipelines	N/A	N/A	N/A
Trade Directory Entries	0m Active	N/A	N/A
	0m Inactive	N/A	N/A
	1-100m Active	N/A	N/A
	1-100m Inactive	Printers and Electronic Engineers	No
	100-500m Active	Kitchen Furniture Manufacturers, Freight Forwarders	No
	100-500m Inactive	Printers, Machinery - Industrial & Commercial, Commercial Cleaning Services, Boilers - Servicing, Replacements & Repairs, China & Glassware Manufacturers & Repairs, pump manufacturers, garage services, fax machines, rubbish clearance, Office Equipment Manufacturers & Distributors	No
Control of major accident hazards sites (COMAH)	N/A	No entries within 500m of the Site.	N/A
Registered radioactive substances	N/A	No registered radioactive substances were recorded within 500m of the Site.	N/A
Notification of installations handling hazardous substances	N/A	No entries within 500m of the Site.	N/A
Planning Hazardous Substance Consents	N/A	No entries within 500m of the Site.	N/A

6.2 PLANNING

The site to the south benefits from an outline planning consent for up to 350 dwellings.

6.3 CORRESPONDENCE

CONTAMINATED LAND OFFICER (CLO)

The Contaminated Land Officer for Uttlesford District Council was contacted on 24th September 2021.

A response was obtained on the 22nd October 2021, with the information summarised below:

- Information regarding the Greenham Construction Materials Limited landfill situated ~600m south east of the site on Henham Road, Elsenham.
- The site has no records of private water supplies or Part B Process within 500m.
- It has been stated that '*There are areas of historical land use that indicate potential contamination and we are not aware of any remediation*'.
- The mapping provided shows railway lines (marked in red) situated along the western and northern boundary of the site.
- No complaints have been received regarding this site.
- The site has not been risk rated by this Authority as contaminated land under part 2A Environmental Protection Act 1990. The site is viewed as a low priority for determination and no action is proposed for the site. No environmental issues have been associated with this site.

A copy of the full correspondence presented in Appendix G.1.

BUILDING CONTROL OFFICER (BCO)

The Building Control Officer for Uttlesford District Council was contacted on 24th September 2021. The Building Team Leader for Uttlesford District Council has stated there is no building control records on this site or any information available, and they do not have any further information.

A copy of the full correspondence presented in Appendix G.2.

ENVIRONMENT AGENCY (EA)

The EA was contacted on 24th September 2021. A response was obtained on the 10th November 2021, with the information summarised below:

- Regarding the Landfill situated 647m south-east of site; The site (landfill) was originally permitted as a non-hazardous landfill but due to its' proximity to Stanstead airport it never took food waste or anything biodegradable, mainly just building waste but not truly inert as it did accept wood and plasterboard etc. Its' permit is held by Viridor but day-to-day is run by Ingrebourne Valley Limited.
- There are no leachate or gas issues at the site.
- Four pollution incidents noted within 500m of site; crude sewage from a pipe failure below ground, asbestos and vehicle/vehicle parts from fly tipping and atmospheric pollutants from burning of waste.
- Not aware of any land contamination issues, with respect of pollution to the water environment, relating to this site or within 500m.

- There are no abstraction licences within 500m of the site. The nearest licences are approximately 1.1 km from the site in the Upper Lee area.
- We are not aware of any soil or groundwater remedial works carried out at the site or within 500m.

A copy of the full correspondence presented in Appendix G.3.

7 CONCEPTUAL SITE MODEL (CSM)

7.1 INTRODUCTION

The preliminary CSM is based upon the environmental conditions of the Site as described in the previous sections.

The methods used within this assessment follow a risk-based approach; with the potential environmental risk assessed qualitatively using the 'source-pathway-receptor' contaminant linkage concept introduced in the guidance documents (principally the EA's LCRM 2020) on the practical implementation of the Environmental Protection Act 1990.

Environmental risk can be defined as the combination of the consequence of a harmful effect and the probability of its occurrence. The existence of a contaminant linkage is primarily dependant on site usage and environmental conditions.

The environmental risk assessment has been carried out by identifying and evaluating the significance of the following:

- Potential Sources of Contamination: these include any actual or potentially contaminating materials and activities, located either on or in the vicinity of the Site;
- Potential Pathways for Contamination Migration: these are the routes or mechanisms by which contaminants may migrate from the source to the receptor; and
- Potential Receptors of Contamination: these include present or future land users, activities or persons at the Site.

The preliminary CSM was developed based on the proposed residential end use at the Site. A summary of the applicable legislative and planning framework for the assessment is presented in **Appendix H. Table 8** provides a key to the potential pathways and receptors identified at the Site. The on-site preliminary CSM is presented in **Table 9**, and the off-site CSM in **Table 10.**

Table 8 – Potential Pathways

Receptor Type	Receptors	Potential Pathways			
		On-site contaminant source	On-site ID	Off-site contaminant source	Off-site ID
Human Health	Site users (current and future maintenance workers)	▪ Dermal contact with contaminated soils and waters ▪ Inhalation of contaminated soils, waters and vapours/gas ▪ Ingestion of contaminated soils and waters	1	Inhalation/ingestion of contaminated soils in airborne dust	6
	Neighbouring site users	▪ Inhalation/ingestion of contaminated	2	- Inhalation/ingestion of contaminated soils in airborne dust	7

Receptor Type	Receptors	Potential Pathways			
		On-site contaminant source	On-site ID	Off-site contaminant source	Off-site ID
		soils in airborne dust			
Groundwater	Lowestoft Formation and Head, (Secondary Undifferentiated Aquifer). Kesgrave Catchment Subgroup and Thanet Formation and Lambeth Group (Secondary (A) Aquifer), White Chalk Sub-group (Principal Aquifer).	▪ Leaching of contaminants from soils ▪ Migration of contamination in groundwater ▪ Migration of immiscible contaminants ▪ Infiltration of contaminated surface water	3	Migration of contaminated groundwater, surface water or immiscible contaminants	8
Surface Water	Streams and drains and their associated water courses.	▪ Runoff of contaminated surface water ▪ Migration of immiscible contaminants	4	Migration of contaminated groundwater, surface water or immiscible contaminants	9
Building Structures	Buildings located around the site.	▪ Direct contact with contaminated soils, groundwater or immiscible contaminants	5	Migration of contaminated groundwater, surface water or immiscible contaminants	

Table 9 – On-site conceptual site model

Location	Source	Potential Contaminants	Pathway ID (Table)	Comment on Hazard Realisation	Risk Rating
North of site	Made Ground associated with the construction and removal of Elsenham & Thaxted Light Railway line.	A wide range of potential contaminants, depending on the source of material, but may include metals, cyanide, hydrocarbons, polycyclic aromatic hydrocarbons (PAH), asbestos, PCBs, volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs).	1-2	▪ Made Ground generated during the construction and subsequent demolition of the railway line and historical site uses may be considered a source of contamination that has had the potential to migrate into shallow groundwater in the north west / west of the site including the Secondary (A) Aquifer of the Kesgrave Catchment Subgroup. With the London clay likely to have thinned out in the northern extent of the site which would act as an aquitard, localised vertical migration may have occurred into the underlying Secondary (A) Aquifer of the Thanet Formation and Lambeth Group.	LOW to MODERATE
Entire Site	Current and historic uses of the Site, as outlined in **Tables 1 and 2** including potential for agricultural use, use of machinery and materials.	Depending on the source material potential contaminants include total petroleum hydrocarbons (TPH), PAH, hydrocarbons from machinery, VOCs, SVOCs, polychlorinated biphenyl (PCBs), agricultural chemicals including fertilisers (ammonia and ammonium) and pesticides (nitrite and nitrates).	1-4	▪ There may be the potential for fuel/chemical spills, use of pesticides and sewage sludge during the site use for agriculture and machinery linked to agricultural work. ▪ During flooding events any surface contaminants may have mobilised to the nearby surface water drainage systems off site. ▪ Localised areas of contamination may migrate into the underlying shallow groundwater within the Secondary (A) Aquifer of the Kesgrave Subgroup Catchment there may be the potential for lateral migration within the Secondary (A) Aquifer. ▪ There may be the potential for vertical migration of contaminants into the underlying Secondary (A) Aquifer of the Thanet Formation and Lambeth Group in the north west / western corner of the site. The remaining area of the site however is underlain by the Unproductive stratum (London Clay Formation) and therefore any significant vertical migration to the deeper groundwater body will be limited beneath the remaining parts of the site.	LOW to MODERATE

Table 10 – Off-site conceptual site model

Location	Source	Potential Contaminants	Pathway ID (Table 6)	Comment on Hazard Realisation	Risk Rating
Surrounding land uses within 500m of the site to include agricultural use; nearby residential and commercial development and former sand and gravel extraction and subsequent infill of excavations.	Surrounding current and historical uses (500m).	A wide range of potential contaminants depending on the source of material but may include, asbestos, metals, PCBs, hydrocarbons, PAH, VOCs and SVOCs, phenols and pathogens. agricultural chemicals including fertilisers (ammonia and ammonium) and pesticides (nitrite and nitrates).	6-9	▪ It is unknown whether good environmental management practises have been undertaken at the surrounding land uses. ▪ Potentially infilled land with an unknown composition, although downgradient from site may pose risk of ground gas migration.	LOW to MODERATE

8 GEOTECHNICAL CONSIDERATIONS

8.1 GEOTECHNICAL HAZARDS

A list of ground stability hazards and the risk, as reported by Envirocheck, on the current site are summarised in **Table** .

Table 11– Geotechnical Hazards

Ground Stability Hazard	Risk
Collapsible Ground	Very Low
Compressible Ground	No Hazard
Ground Dissolution	No Hazard to Very Low
Landslide	Very Low
Running Sand	No Hazard to Very Low
Shrinking or Swelling of Clay	No Hazard to Low

8.2 GEOTECHNICAL CONSTRAINTS

Table 12 – Geotechnical Constraints

Geotechnical Constraints	Comments
Aggressive Ground	There may be the potential for Made Ground and underlying London Clay to have the potential to exhibit aggressive ground conditions.
Below ground obstructions	A railway spur formerly crossed the site, along the northern boundary, and in the north west of the site. Obstructions may be present associated with the dismantled spur. A rising main is also believed to be present along the western boundary.
Lateral changes in geology	The superficial geology is understood to comprise the Lowestoft Formation (diamicton) and the Kesgrave Catchment. The deposits are anticipated to be laterally variable in thickness across the site. Localised Head deposits may be present adjacent to the north western / western boundaries. There may be the potential for localised deposits of Made Ground, particularly in the north / north west of the site associated with the dismantled railway spur.

Geotechnical Constraints	Comments
Ground dissolution	The chalk bedrock is overlain by both the London Clay Formation and the Thanet Sand Formation and Lambeth Group (undifferentiated); hence there is a low potential for dissolution features.
Soft/Compressible Ground	The Made Ground and cohesive deposits within the Head and Lowestoft Formation have the potential to be soft and compressible.
Excavations	Any Made Ground or superficial soils present have the potential to be soft and/or loose and the stability of unsupported excavations within these soils should not be relied on.
Shallow Groundwater	There is the potential for perched shallow groundwater to be present within the granular deposits of the Made Ground and superficial deposits. Previous investigations identified groundwater in the Head at 2.0m and in the Kesgrave Catchment at approximately 2.5m bgl.
Unexploded Ordnance (UXO)	The PDSA completed by Zetica has identified potential targets and HE bombs within close proximity to the site and recommends that a detailed desk study is completed to assess and potentially zone the UXO hazard level on site.
Slopes	The site was typically noted to gradually slope down towards the south of the site by approximately 4m. The north of the site is approximately 2m above Ordnance Datum (AOD) and the south 6m AOD.
Desiccated Soils	Head and Lowestoft Formation have the potential to be desiccated around the site boundaries where mature hedgerows were noted.

8.3 PRELIMINARY GEOTECHNICAL APPRAISAL

The current development proposals are not fixed; however, it is understood that the aim is to deliver a predominantly residential led scheme. It is anticipated that the residential units, predominantly low-rise, will be founded on shallow footings within the Lowestoft Formation or Kesgrave Catchment. If the Head deposits are found to encroach onto the development parcels, deeper foundations may be required. An intrusive ground investigation is required to inform the design of the foundations.

9 CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of this preliminary assessment, WSP makes the following conclusions in the context of the proposed residential development of the Site.

9.1 ENVIRONMENTAL SETTING

The ground profile of the site is predominantly topsoil with the potential for localised areas of Made Ground in the north western corners of the site relating to the disused railway line, this in turn is underlain by superficial deposits which comprise Head Deposits in the western area of the site and Lowestoft Formation predominantly located in the far north western corner, central and eastern areas of the site. These deposits overlie the Kesgrave Catchment Subgroup which is typically noted to be present across the site and also outcrops in the central and western parts of the site.

The underlying bedrock comprises the London Clay Formation located across the site with the exception of the north western corner of the site, the London Clay is underlain by the Thanet Formation and Lambeth Group which is anticipated to be underlain by the White Chalk Subgroup at depth.

The Lowestoft Formation and Head Deposits are classified by the Environment Agency as Secondary Undifferentiated Aquifers, the Kesgrave Catchment Subgroup, Lambeth Group and Thanet Formation are classed as a Secondary (A) Aquifer, the White Chalk Sub-group as a Principal Aquifer and the London Clay as an Unproductive Stratum;

There are no surface water bodies present on site, the nearest features are minor drainage channels and streams situated north-west and west of the site, which flow southward into the River Stort via Stanstead Brook. To the east and south of the site, isolated irrigation ditch and a small pond can also be observed. Mapping indicates regional groundwater flow is anticipated to be south. The site and its surroundings are situated within a nitrate vulnerable zone.

The site and its surroundings are situated within a nitrate vulnerable zone.

9.2 POTENTIAL FOR GROUND CONTAMINATION

WSP considers that on-site sources of potential contamination are associated with the current and historical uses of the site, including agricultural land use, and ground associated with the disused railway line. Potential off-site sources of contamination include the surrounding current and historical land uses including the adjacent former sand and gravel extraction and associated infilling of the pits, agricultural land and surrounding residential and commercial development.

Plausible contaminant linkages have been identified with respect to human health including dermal contact with contaminated soils and waters and inhalation or ingestion of contaminated soils, dust or water. Plausible contaminant linkages identified to controlled waters include the possibility of leaching of contaminants, lateral migration of contaminants into surface waters off site. Plausible contaminant linkages to building structures include direct contact with contaminated soils, groundwater or immiscible contaminants.

The potential receptors were identified as:

- Current and future site users;
- Neighbouring residents and land uses;

- Secondary Undifferentiated Aquifers (Head Deposits; and Lowestoft Formation); Secondary (A) Aquifer (Kesgrave Catchment Subgroup; and Thanet Formation and Lambeth Group), Principal Aquifer (Chalk);
- Adjacent drainage stream west of the site and associated water courses, Stanstead Brook to the south of the site (~900m) and associated water courses.

In conclusion, the Preliminary Risk assessment indicates generally a **Low to Moderate** risk to human health, controlled waters, and site structures.

9.3 GEOTECHNICAL CONCLUSIONS

The geotechnical risks that require further consideration during subsequent stages are:

- Lateral variation of superficial soils;
- Below ground obstructions associated with the former, now dismantled railway spur in the north and north west of the site; and
- The potential for both compressible and / or desiccated soils associated with the cohesive Head and Lowestoft Formation.

WSP consider shallow footings within the Lowestoft Formation (diamicton) or Kesgrave Catchment will most likely provide appropriate foundations for low rise lightly loaded structures. A targeted intrusive ground investigation is required to inform on subsequent stages of design.

9.4 RECOMMENDATIONS

WSP recommends the following actions are undertaken:

- Complete a detailed desk study to assess and potentially zone the UXO hazard level on the site.
- An intrusive ground investigation should be undertaken to assess:
  - Baseline ground conditions at the site and further investigations of contaminant concentrations, ground gas and groundwater monitoring. It should be noted that this investigation could be undertaken post planning submittal.
  - Geotechnical parameters to assist subsequent design.
- Following the ground investigation, an interpretative Ground Investigation Report (GIR) should be produced including an assessment of the risk from contamination at the site and a preliminary geotechnical appraisal.

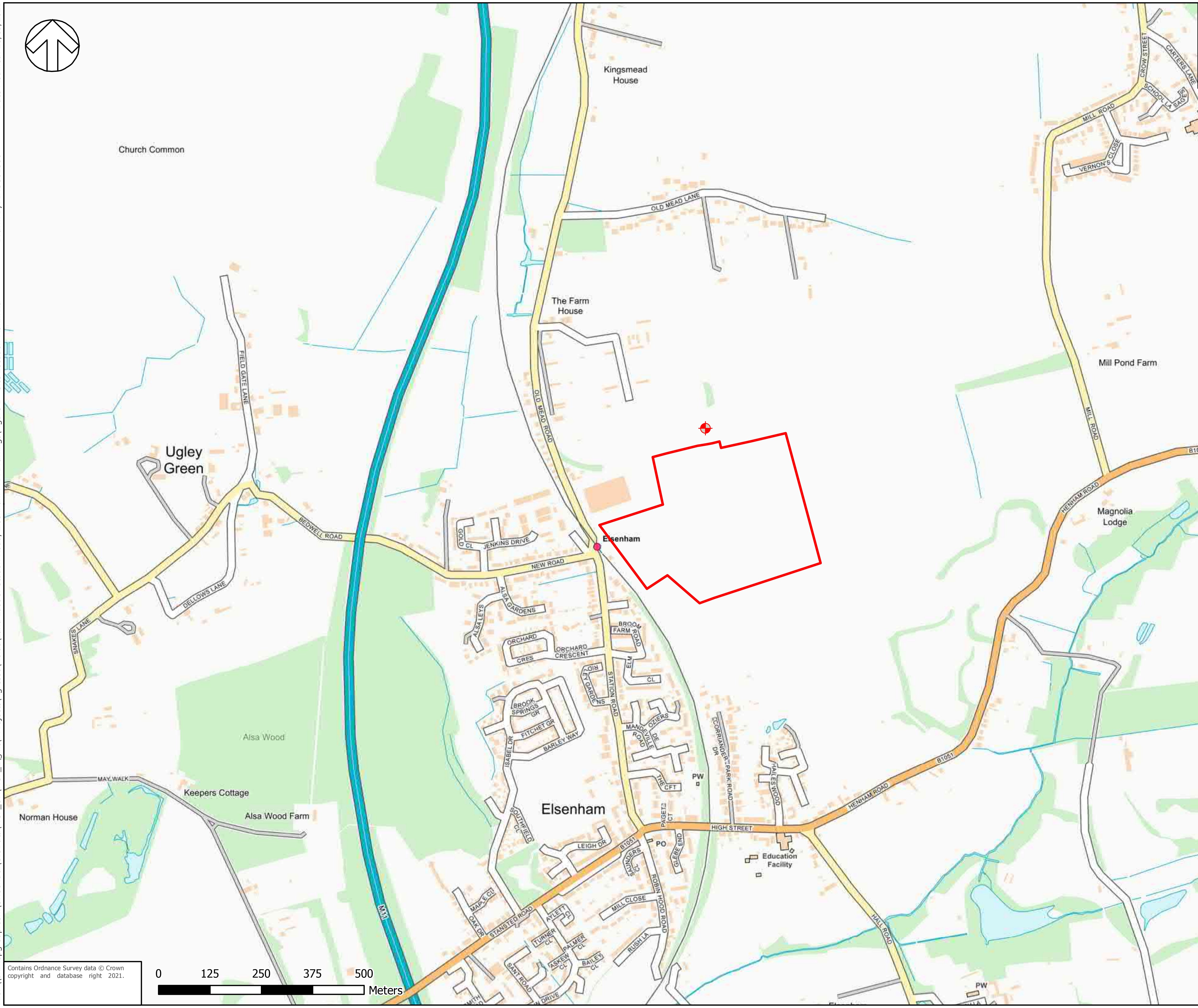
Appendix A

FIGURES

Appendix A.1

WSP FIGURES

File: \\uk.wspgroup.com\UKCentral\GISData\WSP_UK\WSP_E\gint\#Projects\Agresso\Noida\Land East of Station Road, Elsenham PRA Drawings\Figure 1 - Site Location Plan.mxd Drawn By: INSG01380 Date Modified: 23/09/2021



Kingsmead House
Church Common
OLD MEAD LANE
The Farm House
OLD MEAD ROAD
FIELD GATE LANE
Ugley Green
BEDWELL ROAD
DELLOWS LANE
SNAKES LANE
Elsenham
NEW ROAD
JENKINS DRIVE
ALSA GARDENS
ALSA LEYS
ORCHARD CRES
ORCHARD CRESCENT
BROOM FARM ROAD
STATION ROAD
BROOK SPRINGS GR
FITCHET DR
BARLEY WAY
ISABEL DR
Alsa Wood
MAY WALK
Keepers Cottage
Norman House
Alsa Wood Farm
Elsenham
SOUTHFIELD CL
LEIGH DR
STANSTED ROAD
MAPLE CL
OAK DR
M11
PW
PO
HIGH STREET
B1051
CORRANDER PARK ROAD
HALES WOOD
GLEBE END
ROBIN HOOD ROAD
MILL CLOSE
RUSH LA
HENHAM ROAD
Education Facility
HALL ROAD
Mill Pond Farm
MILL ROAD
Magnolia Lodge
Pledgdon Hall Cottages
MILL ROAD B1051
VERNON'S CLOSE
CROW STREET
CARTERS LANE
SCHOOL LA
Education Facility
Contains Ordnance Survey data © Crown copyright and database right 2021.
0 125 250 375 500 Meters

Legend

- Site Boundary
- BGS Borehole location

wsp

TITLE:

Land East of Station Road, Elsenham PRA Site Location Plan

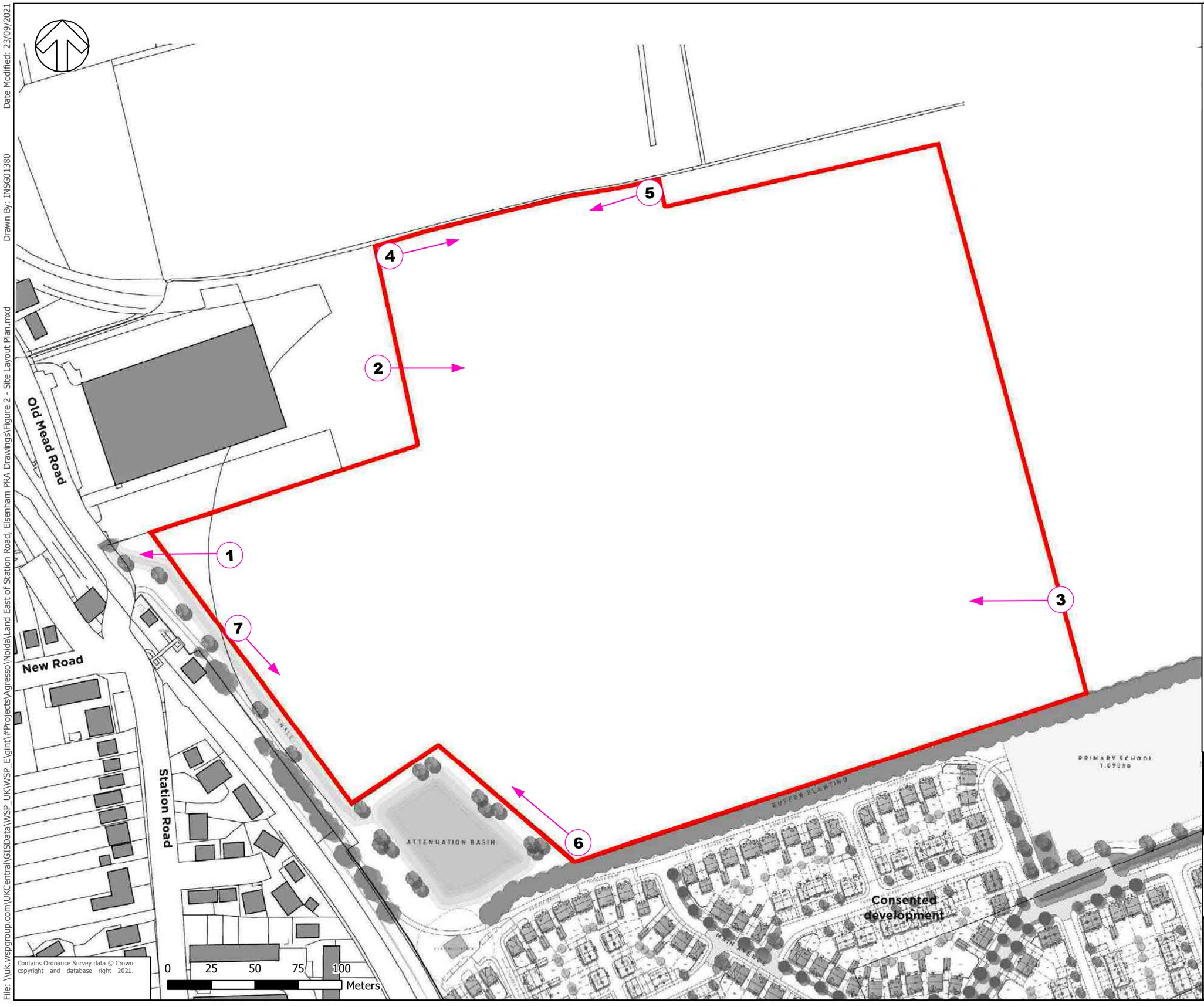
FIGURE No:

FIGURE 1

Date Modified: 23/09/2021

Drawn By: INSG01380

File: \\uk.wspgroup.com\UKCentral\GISData\WSP_UK\WSP_Elgint\#Projects\Agresso\Noida\Land East of Station Road, Elsenham PRA Drawings\Figure 2 - Site Layout Plan.mxd



Legend

- Site Boundary
- 1 → Photo Location

wsp

TITLE:

Land East of Station Road,
Elsenham PRA
Site Layout Plan

FIGURE No:

FIGURE 2

Appendix A.2

PREVIOUS REPORT FIGURE

Key

BGS Borehole Location

2012 WSP Trial Pits

Phase 1 Application Boundary

Underground Irrigation

Phase 2 Application Boundary

TP01 TP02 TP03 TP04 TP05 TP06 TP07 TP08 TP09 TP10 TP11 TP12 TP13 TP14 TP15 TP16 TP17 TP18 TP19 TP20 TP21 TP22 TP23 TP24 TP25 TP26 TP27 TP28 TP29 TP30 TP31 TP32 TP33 TP34 TP35 TP36 TP37 TP38 TP39 TP40 TP41 TP42 TP43 TP44 TP45 TP46 TP47 TP48 TP49 TP50

TP201 TP202 TP203 TP204 TP205 TP206 TP207 TP208 TP209 TP210 TP211 TP212 TP213 TP214 TP215 TP216

TL52NW93

TL529W94

Overhead power line

Hedgerow

Authorised Landfill

Former Sand/ Gravel Pits

Historical Landfills

Henham

Ugley Green

Elsenham

Mill Road

Henham Road

New Road

Station Road

High Street

Hall Road

0 500 metres

TITLE:

Elsenham

Historical Site Investigation

FIGURE No:

11500582 - Figure 2

\\uk.wspgroup.com\central data\Projects\11500xxx\11500582 ELSENHAM\02 WIP\GR Ground Risk\Drawings\Fig 2 - Historical Site Investigation.dwg

Appendix B

LIMITATIONS

REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

GENERAL

1. WSP UK Limited has prepared this report solely for the use of the Client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed and outlined in the body of the report.

2. Unless explicitly agreed otherwise, in writing, this report has been prepared under WSP UK Limited standard Terms and Conditions as included within our proposal to the Client.

3. Project specific appointment documents may be agreed at our discretion and a charge may be levied for both the time to review and finalise appointments documents and also for associated changes to the appointment terms. WSP UK Limited reserves the right to amend the fee should any changes to the appointment terms create an increase risk to WSP UK Limited.

4. The report needs to be considered in the light of the WSP UK Limited proposal and associated limitations of scope. The report needs to be read in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the report.

PHASE 1 GEO ENVIRONMENTAL AND PRELIMINARY RISK ASSESSMENTS

Coverage: *This section covers reports with the following titles or combination of titles: phase 1; desk top study; geo environmental assessment; development appraisal; preliminary environmental risk assessment; constraints report; due diligence report; geotechnical development review; environmental statement; environmental chapter; project scope summary report (PSSR), program environmental impact report (PEIR), geotechnical development risk register; and, baseline environmental assessment.*

5. The works undertaken to prepare this report comprised a study of available and easily documented information from a variety of sources (including the Client), together with (where appropriate) a brief walk over inspection of the Site and correspondence with relevant authorities and other interested parties. Due to the short timescales associated with these projects responses may not have been received from all parties. WSP UK Limited cannot be held responsible for any disclosures that are provided post production of our report and will not automatically update our report.

6. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only for the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, WSP UK Limited reserves the right to review such information and, if warranted, to modify the opinions accordingly.

7. It should be noted that any risks identified in this report are perceived risks based on the information reviewed. Actual risks can only be assessed following intrusive investigations of the site.

8. WSP UK Limited does not warrant work / data undertaken / provided by others.

INTRUSIVE INVESTIGATION REPORTS

Coverage: *The following report titles (or combination) may cover this category of work: geo environmental site investigation; geotechnical assessment; GIR (Ground Investigation reports); preliminary environmental and geotechnical risk assessment; and, geotechnical risk register.*

REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

9. The investigation has been undertaken to provide information concerning either:

- **i.** The type and degree of contamination present at the site in order to allow a generic quantitative risk assessment to be undertaken; or
- **ii.** Information on the soil properties present at the site to allow for geotechnical development constraints to be considered.

10. The scope of the investigation was selected on the basis of the specific development and land use scenario proposed by the Client and may be inappropriate to another form of development or scheme. If the development layout was not known at the time of the investigation the report findings may need revisiting once the development layout is confirmed.

11. For contamination purposes, the objectives of the investigation are limited to establishing the risks associated with potential contamination sources with the potential to cause harm to human health, building materials, the environment (including adjacent land), or controlled waters.

12. For geotechnical investigations the purpose is to broadly consider potential development constraints associated with the physical property of the soils underlying the site within the context of the proposed future or continued use of the site, as stated within the report.

13. The amount of exploratory work, soil property testing and chemical testing undertaken has necessarily been restricted by various factors which may include accessibility, the presence of services; existing buildings; current site usage or short timescales. The exploratory holes completed assess only a small percentage of the area in relation to the overall size of the Site, and as such can only provide a general indication of conditions.

14. The number of sampling points and the methods of sampling and testing do not preclude the possible existence of contamination where concentrations may be significantly higher than those actually encountered or ground conditions that vary from those identified. In addition, there may be exceptional ground conditions elsewhere on the site which have not been disclosed by this investigation and which have therefore not been taken into account in this report.

15. The inspection, testing and monitoring records relate specifically to the investigation points and the timeframe that the works were undertaken. They will also be limited by the techniques employed. As part of this assessment, WSP UK Limited has used reasonable skill and care to extrapolate conditions between these points based upon assumptions to develop our interpretation and conclusions. The assumption made in forming our conclusions is that the ground and groundwater conditions (both chemically and physically) are the same as have been encountered during the works undertaken at the specific points of investigation. Conditions can change between investigation points and these interpretations should be considered indicative.

16. The risk assessment and opinions provided are based on currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values. Specific assumptions associated with the WSP UK Limited risk assessment process have been outlined within the body or associated appendix of the report.

17. Additional investigations may be required in order to satisfy relevant planning conditions or to resolve any engineering and environmental issues.

18. Where soil contamination concentrations recorded as part of this investigation are used for commentary on potential waste classification of soils for disposal purposes, these should be classed as indicative only. Due consideration should be given to the variability of contaminant concentrations taken from targeted samples versus bulk excavated soils and the potential variability of contaminant concentrations between sampling locations. Where major waste disposal operations are considered, targeted waste classification investigations should be designed.

19. The results of the asbestos testing are factually reported and interpretation given as to how this relates to the previous use of the site, the types of ground encountered and site conceptualisation. This does not however constitute a formal asbestos assessment. These results should be treated cautiously and should not be relied

upon to provide detailed and representative information on the delineation, type and extent of bulk ACMs and / or trace loose asbestos fibres within the soil matrix at the site.

20. If costs have been included in relation to additional site works, and / or site remediation works these must be considered as indicative only and must be confirmed by a qualified quantity surveyor.

EUROCODE 7: GEOTECHNICAL DESIGN

21. On 1st April 2010, BS EN 1997-1:2004 (Eurocode 7: Geotechnical Design – Part 1) became the mandatory baseline standard for geotechnical ground investigations.

22. In terms of geotechnical design for foundations, slopes, retaining walls and earthworks, EC7 sets guidance on design procedures including specific guidance on the numbers and spacings of boreholes for geotechnical design, there are limits to methods of ground investigation and the quality of data obtained and there are also prescriptive methods of assessing soil strengths and methods of design. Unless otherwise explicitly stated, the work has not been undertaken in accordance with EC7. A standard geotechnical interpretative report will not meet the requirements of the Geotechnical Design Report (GDR) under Eurocode 7. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. The report is likely to represent a Ground Investigation Report (GIR) under the Eurocode 7 guidance.

DETAILED QUANTITATIVE RISK ASSESSMENTS AND REMEDIAL STRATEGY REPORTS

23. These reports build upon previous report versions and associated notes. The scope of the investigation, further testing and monitoring and associated risk assessments were selected on the basis of the specific development and land use scenario proposed by the Client and may not be appropriate to another form of development or scheme layout. The risk assessment and opinions provided are based on currently available approaches in the generation of Site Specific Assessment Criteria relating to contamination concentrations and are not considered to represent a risk in a specific land use scenario to a specific receptor. No liability can be accepted for the retrospective effects of any future changes or amendments to these values, associated models or associated guidance.

24. The outputs of the Detailed Quantitative Risk Assessments are based upon WSP UK Limited manipulation of standard risk assessment models. These are our interpretation of the risk assessment criteria.

25. Prior to adoption on site they will need discussing and agreeing with the Regulatory Authorities prior to adoption on site. The regulatory discussion and engagement process may result in an alternative interpretation being determined and agreed. The process and timescales associated with the Regulatory Authority engagement are not within the control of WSP UK Limited. All costs and programmes presented as a result of this process should be validated by a quantity surveyor and should be presumed to be indicative.

GEOTECHNICAL DESIGN REPORT (GDR)

26. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. All the relevant information needs to be provided to allow for a GDR to be produced.

MONITORING (INCLUDING REMEDIATION MONITORING REPORTS)

27. These reports are factual in nature and comprise monitoring, normally groundwater and ground gas and data provided by contractors as part of an earthworks or remedial works.

28. The data is presented and will be compared with assessment criteria.

Appendix C

EXPLORATORY HOLE LOGS

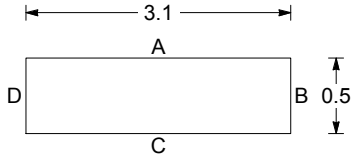
Appendix C.1

GEO-ENVIRONMENTAL LOGS

WSP Environmental Unit 9,The Chase SG13 7NN Telephone: Fax:	**TRIAL PIT LOG**	Hole No. **TP27**
	Project Elsenham	Sheet 1 of 1
Job No 18738/002	Client The Fairfield Group	Date 18-09-12

Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates ()	Ground Level (m)
Orbital	JCB-3CX	Chris Chappell	E 553543.000 N 227227.000	

SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (m)	Depth (Thick-ness)	Description	Legend	Geology	
							0.20	Topsoil comprising brown slightly gravelly slightly clayey fine and medium SAND with fine to medium flint gravel. [Topsoil]		TS	
1.00-1.50	BLK						(2.80)	Light brown to orange slightly gravelly slightly clayey medium SAND with fine to medium chalk gravel. [Kesgrave Sands and Gravels]		KGCA	
							3.00				



Length	Shoring/Support:
3.10m	
Width	
0.50m	Stability:
Orientation	
degrees from north	

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

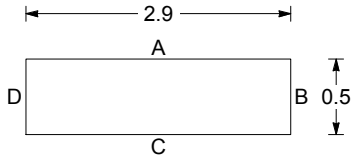
General Remarks
Trial pit collapsed at 0.9m bgl.
No Groundwater encountered.

Scale 1:31.25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

WSP Environmental Unit 9,The Chase SG13 7NN Telephone: Fax:	**TRIAL PIT LOG**	Hole No. **TP28**
	Project Elsenham	Sheet 1 of 1
Job No 18738/002	Client The Fairfield Group	Date 18-09-12

Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates ()	Ground Level (m)
Orbital	JCB-3CX	Chris Chappell	E 553754.000 N 227272.000	

SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (m)	Depth (Thick-ness)	Description	Legend	Geology	
							(0.30) 0.30	Topsoil comprising brown slightly gravelly sandy CLAY of soft consistency with fine to medium flint gravel. [Topsoil]		TS	
							(0.50) 0.80	Brown to orange slightly sandy CLAY of soft consistency. [Weathered Glacial Till]		TILL	
							(1.80) 2.60	Light brown to grey slightly sandy gravelly CLAY of soft consistency with medium to coarse chalk and flint gravels. [Glacial Till]		TILL	
							(0.50) 3.10	Light brown to grey SAND. [Kesgrave Sands and Gravels]		KGCA	
3.10-3.60	BLK						(0.70) 3.80	Yellow to grey slightly gravelly slightly clayey fine and medium SAND with fine to medium gravel. [Kesgrave Sands and Gravels]		KGCA	



Length	Shoring/Support:
2.90m	
Width	
0.50m	Stability:
Orientation	
degrees from north	

Water Strikes

Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit stable throughout.
No Groundwater encountered.

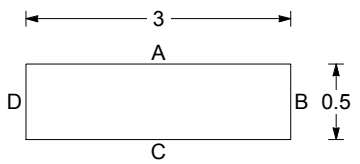
Scale 1:31.25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

WSP Environmental Unit 9,The Chase SG13 7NN Telephone: Fax:	**TRIAL PIT LOG**	Hole No. **TP31**
	Project Elsenham	Sheet 1 of 1
Job No 18738/002	Client The Fairfield Group	Date 18-09-12

Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates ()	Ground Level (m)
Orbital	JCB-3CX	Chris Chappell	E 553733.000 N 227148.000	

SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (m)	Depth (Thick-ness)	Description	Legend	Geology	
							(0.30) 0.30	Topsoil comprising brown slightly gravelly sandy CLAY of soft consistency with to medium flint gravel. [Topsoil]		TS	
							(0.60) 0.90	Brown to orange sandy CLAY of soft consistency. [Weathered Glacial Till]		TILL	
							(0.90) 1.80	Light brown to grey slightly sandy gravelly CLAY of firm consistency with fine to coarse chalk gravel. [Glacial Till]		TILL	
2.20-2.70	BLK						(1.20) 3.00	Grey slightly gravelly slightly clayey fine and medium SAND with fine to medium gravel. [Kesgrave Sands and Gravels]		KGCA	
3.00-3.20	BLK						3.20	Light brown to yellow slightly gravelly fine and medium SAND. [Kesgrave Sands and Gravels]		KGCA	



Length	Shoring/Support:
3.00m	
Width	
0.50m	Stability:
Orientation	
degrees from north	

Water Strikes

Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit stable throughout.
No Groundwater encountered.

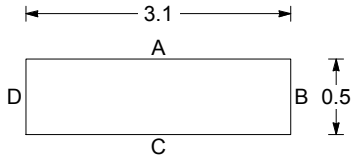
Scale 1:31.25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD 18738_ELSENHAM_25_09_12CCGINT_TRIALPITLOGS_V3.GPJ WSPETEMPLATE1.03.GDT 29/10/12

WSP Environmental Unit 9,The Chase SG13 7NN Telephone: Fax:	**TRIAL PIT LOG**	Hole No. **TP32**
	Project Elsenham	Sheet 1 of 1
Job No 18738/002	Client The Fairfield Group	Date 18-09-12

Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates ()	Ground Level (m)
Orbital	JCB-3CX	Chris Chappell	E 553692.000 N 227053.000	

SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (m)	Depth (Thick-ness)	Description	Legend	Geology	
							0.20	Topsoil comprising brown slightly sandy CLAY of soft consistency with frequent straw. [Topsoil]		TS	
							(1.00)	Brown sandy CLAY of soft consistency. [Weathered Glacial Till]		TILL	
							1.20				
1.40-1.90	BLK						(2.30)	Yellow to orange slightly clayey very gravelly fine and medium SAND. [Kesgrave Sands and Gravels]		KGCA	
							3.50				



Length	Shoring/Support:
3.10m	
Width	
0.50m	Stability:
Orientation	
degrees from north	

Water Strikes

Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit stable throughout.
No Groundwater encountered.

Scale 1:31.25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD 18738_ELSENHAM_25_09_12CCGINT_TRIALPITLOGS_V3.GPJ WSPETEMPLATE1.03.GDT 29/10/12

WSP Environmental
Unit 9,The Chase
SG13 7NN
Telephone:
Fax:

TRIAL PIT LOG

Hole No. **TP33**

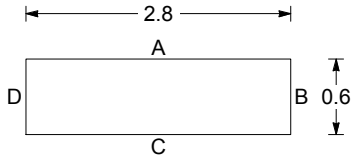
Project: Elsenham

Sheet: 1 of 1

Job No	Client	Date
18738/002	The Fairfield Group	20-09-12

Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates ()	Ground Level (m)
Orbital	JCB-3CX	Chris Chappell	E 553436.000 N 226956.000	

SAMPLES & TESTS						STRATA					
Depth	Type	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (m)	Depth (Thick-ness)	Description	Legend	Geology	Install / Backfill
							(0.30) 0.30	Topsoil comprising brown slightly gravelly sandy CLAY of soft consistency with fine to medium flint gravels and numerous straw. [Topsoil]		TS	
							(0.50) 0.80	Brown to orange sandy CLAY of soft consistency. [Head Deposits]		HD	
							(0.40) 1.20	Grey to mottled brown slightly sandy CLAY of firm consistency. [Head Deposits]		HD	
							(0.80) 2.00	Grey to brown slightly organic clayey fine SAND with rare organic matter. [Kesgrave Sands and Gravels]		KGCA	
2.00-2.50	BLK				1		(0.50) 2.50	Orange slightly gravelly clayey fine and medium SAND. [Kesgrave Sands and Gravels]		KGCA	



Length: 2.80m

Width: 0.60m

Orientation: degrees from north

Shoring/Support:

Stability:

Water Strikes

Date	Time	Strike	Minutes	Standing	Remarks
20-09-12	09.59	2.50			Seepage

General Remarks
Trial pit collapsed at 0.7m bgl.
Grounwater encountered at 2.5m bgl.

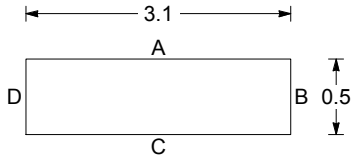
Scale 1:31.25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

WSP Environmental Unit 9,The Chase SG13 7NN Telephone: Fax:	**TRIAL PIT LOG**	Hole No. **TP34**
	Project Elsenham	Sheet 1 of 1
Job No 18738/002	Client The Fairfield Group	Date 18-09-12

Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates ()	Ground Level (m)
Orbital	JCB-3CX	Chris Chappell	E 553773.000 N 226992.000	

SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (m)	Depth (Thick-ness)	Description	Legend	Geology	
							(0.30) 0.30	Brown slightly gravelly slightly sandy CLAY of soft consistency with frequent straw. [Topsoil]		TS	
							(0.30) 0.60	Brown to orange slightly sandy CLAY of soft consistency. [Weathered Glacail Till]		TILL	
							(2.40) 3.00	Light brown to grey slightly sandy CLAY of firm consistency with medium to coarse chalk gravel. [Glacial Till]		TILL	
3.00-3.50	BLK						(0.60) 3.60	Yellow to white slightly gravelly slightly clayey fine and medium SAND. [Kesgrave Sands and Gravels]		KGCA	



Length	Shoring/Support:
3.10m	
Width	
0.50m	Stability:
Orientation	
degrees from north	

Water Strikes

Date	Time	Strike	Minutes	Standing	Remarks

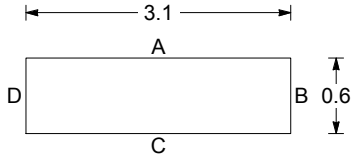
General Remarks
Trial pit stable throughout.
No Groundwater encountered.

Scale 1:31.25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

WSP Environmental Unit 9,The Chase SG13 7NN Telephone: Fax:	**TRIAL PIT LOG**	Hole No. **TP35**
	Project Elsenham	Sheet 1 of 1
Job No 18738/002	Client The Fairfield Group	Date 19-09-12

Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates ()	Ground Level (m)
Orbital	JCB-3CX	Chris Chappell	E 553710.000 N 226931.000	

SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (m)	Depth (Thick-ness)	Description	Legend	Geology	
							(0.40) 0.40	Topsoil comprising brown slightly gravelly sandy CLAY of soft consistency with fine to medium flint gravel. [Topsoil]		TS	
							0.60	Brown to orange sandy CLAY of soft consistency. [Weathered Glacial Till]		TILL	
							(0.60) 1.20	Brown to orange slightly gravelly clayey fine and medium SAND. [Kesgrave Sands and Gravels]		KGCA	
2.00-2.50	BLK						(2.50) 3.70	Yellow to orange slightly gravelly fine and medium SAND. [Kesgrave Sands and Gravels]		KGCA	



Length	Shoring/Support:
3.10m	
Width	
0.60m	Stability:
Orientation	
degrees from north	

Water Strikes

Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit stable throughout.
No Groundwater encountered.

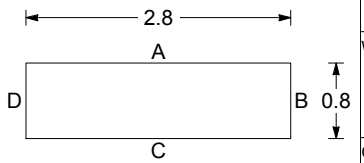
Scale 1:31.25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD 18738_ELSENHAM_25_09_12CCGINT_TRIALPITLOGS_V3.GPJ WSPETEMPLATE1.03.GDT 29/10/12

WSP Environmental Unit 9,The Chase SG13 7NN Telephone: Fax:	**TRIAL PIT LOG**	Hole No. **TP211**
	Project Elsenham Essex	Sheet 1 of 1
Job No 18738	Client The Fairfield Group	Date 11-10-12 11-10-12

Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	Ground Level (m AOD)
Orbital	JCB-3CX	Alice Waylett	E 553431.934 N 227079.373	

SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick-ness)	Description	Legend	Geology	
							(0.35) 0.35	Grey to brown slightly gravelly slightly sandy CLAY with rare rootlets. Gravel is fine flint. [Topsoil].		TS	
							(0.25) 0.60	Grey mottled orange slightly sandy slightly gravelly CLAY of soft to firm consistency with rare rootlets. Gravel is fine to coarse rounded to subangular flint. [Head Deposits].		HD	
1.50-2.00	B				1		(1.40) 2.00	Light grey to brown mottled brown to orange slightly gravelly very sandy CLAY of stiff consistency. Gravel is fine to medium flint. [Head Deposits]. 0.60 Gravel becomes rare with increasing depth.		HD	



Length	Shoring/Support:
2.80m	
Width 0.80m	Stability:
Orientation degrees from north	Good

Water Strikes

Date	Time	Strike	Minutes	Standing	Remarks
		2.00			Slight ingress.

General Remarks
Groundwater encountered at 2m below ground level (bgl). Pit not used for soakaway testing.

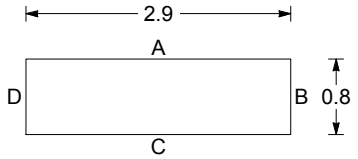
Scale 1:31.25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD 18738_12-10-22AWLOGS_ELSENHAM_SOAKAWAYS_V1.0.GPJ WSPETEMPLATE1.03.GDT 29/10/12

WSP Environmental Unit 9,The Chase SG13 7NN Telephone: Fax:	**TRIAL PIT LOG**	Hole No. **TP212**
	Project Elsenham Essex	Sheet 1 of 1
Job No 18738	Client The Fairfield Group	Date 11-10-12 11-10-12

Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	Ground Level (m AOD)
Orbital	JCB-3CX	Alice Waylett	E 553665.978 N 227066.763	

SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick-ness)	Description	Legend	Geology	
							(0.30) 0.30	Brown slightly gravelly slightly sandy CLAY with rare rootlets. Gravel is fine to medium flint. [Topsoil].		TS	
							(0.40) 0.70	Friable dark orange to brown slightly gravelly sandy CLAY of firm consistency with rare rootlets. Gravel is fine subangular flint. [Weathered Glacial Till].		TILL	
1.50-2.00	B						(1.30) 2.00	Dark brown to orange slightly gravelly very clayey fine and medium SAND. Gravel is fine to medium subrounded to angualr flint. [Kesgrave Sands and Gravels]. 0.70 Gravel becomes rare with increasing depth.		KGCA	



Length	Shoring/Support:
2.90m	
Width	
0.80m	Stability:
Orientation	Good
degrees from north	

Water Strikes

Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Pit used for soakaway testing. 10mm Gravel used to stabilise pit.

Scale 1:31.25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD 18738_12-10-22AWLOGS_ELSENHAM_SOAKAWAYS_V1.0.GPJ WSPETEMPLATE1.03.GDT 29/10/12

WSP Environmental
Unit 9,The Chase
SG13 7NN
Telephone:
Fax:

TRIAL PIT LOG

Hole No. **TP212A**

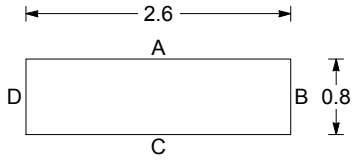
Project: Elsenham Essex

Sheet: 1 of 1

Job No	Client	Date
18738	The Fairfield Group	12-10-12 12-10-12

Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	Ground Level (m AOD)
Orbital	JCB-3CX	Alice Waylett		

SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick-ness)	Description	Legend	Geology	
							(0.30) 0.30	Brown slightly gravelly slightly sandy CLAY with rare rootlets. Gravel is fine to medium flint. [Topsoil].		TS	
							(0.80) 1.10	Friable grey brown to brown orange slightly gravel slightly sandy CLAY of firm consistency with rare rootlets and rare black organic mottling. Gravel is fine to medium flint. [Glacial Till].		TILL	
							(0.90) 2.00	Dark orange to yellow slightly gravelly fine to coarse SAND. Gravel is fine to medium rounded to subangular flint. [Kesgrave Sands and Gravels]. 1.10 Gravel becomes rare with increasing depth.		KGCA	



Length: 2.60m

Width: 0.80m

Orientation: degrees from north

Shoring/Support:

Stability: Moderate

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Pit used for soakaway testing. 10mm Gravel used to stabilise pit.

Scale 1:31.25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

Appendix C.2

BGS LOGS

TL 52 NW/93

TL 52 NW 93 **5359 2729** **Near Elsenham Station, Henham** **Block A**

Surface level +98.3 m
Water struck at +94.5 m
October 1980

Overburden 0.6 m
Mineral 8.4 m
Bedrock 1.0 m+

LOG

Geological classification	Lithology	Thickness m	Depth m
	Topsoil	0.6	0.6
Kesgrave Sands and Gravels	**a** Sand with some discrete clay seams throughout Gravel: a trace of fine, angular with well rounded flint, with some quartz and a trace of quartzite and sandstone Sand: medium with some fine and a trace of coarse subangular to subrounded quartz, and some mica, pale yellowish brown	4.0	4.6
?Red Crag	**b** Pebbly sand Gravel: coarse and fine, well rounded with angular flint, with some quartz, ironstone and quartzite, and a trace of sandstone Sand: medium with fine and coarse subangular to subrounded quartz and some mica and ironstone, orange brown	4.4	9.0
London Clay	Clay, silty, fine sandy, dark grey	1.0+	10.0

GRADING

	Mean for deposit percentages			Depth below surface (m)	percentages						
	Fines	Sand	Gravel		Fines	Sand			Gravel		
					-$\frac{1}{16}$	+$\frac{1}{16}$ -$\frac{1}{4}$	+$\frac{1}{4}$ -1	+1 -4	+4 -16	+16 -64	+64 mm
a	5	94	1	0.6-1.6	6	16	72	4	2	0	0
				1.6-2.6	7	13	76	2	2	0	0
				2.6-3.6	0	25	73	1	1	0	0
				3.6-4.6*	6	28	63	3	trace	0	0
				Mean	5	20	71	3	1	0	0
b	4	86	10	4.6-5.6*	4	28	50	12	3	3	0
				5.6-6.7*	6	15	61	11	3	4	0
				6.7-7.7*	3	22	33	15	8	19	0
				7.7-8.7*	4	10	58	26	1	1	0
				8.7-9.0*	5	7	54	31	1	2	0
				Mean	4	18	51	17	4	6	0
a+b	5	90	5	Mean	5	19	61	10	2	3	0

COMPOSITION

	Depth below surface (m)	Percentage by weight in the 8-16 mm fraction										
		Flint		Quartz	Quartz-ite	Sand-stone	Chalk	Lime-stone	Fossil debris	Phosph. nodules	Iron-stone	Others
		Ang.	W R									
a	0.6-4.6	58	30	10	1	1	0	0	0	0	0	0
b	4.6-9.0	26	64	5	2	1	0	0	0	0	2	0

Appendix D

SITE PHOTOGRAPHS

Photograph 1; Site Access in the north west corner of site, adjacent to the Elsenham Railway station car park.

Photograph 2; Site photo facing SE.

Photograph 3; Site photo facing north west, taken from the south east of the site.

Photograph 4; Site northern boundary facing east.

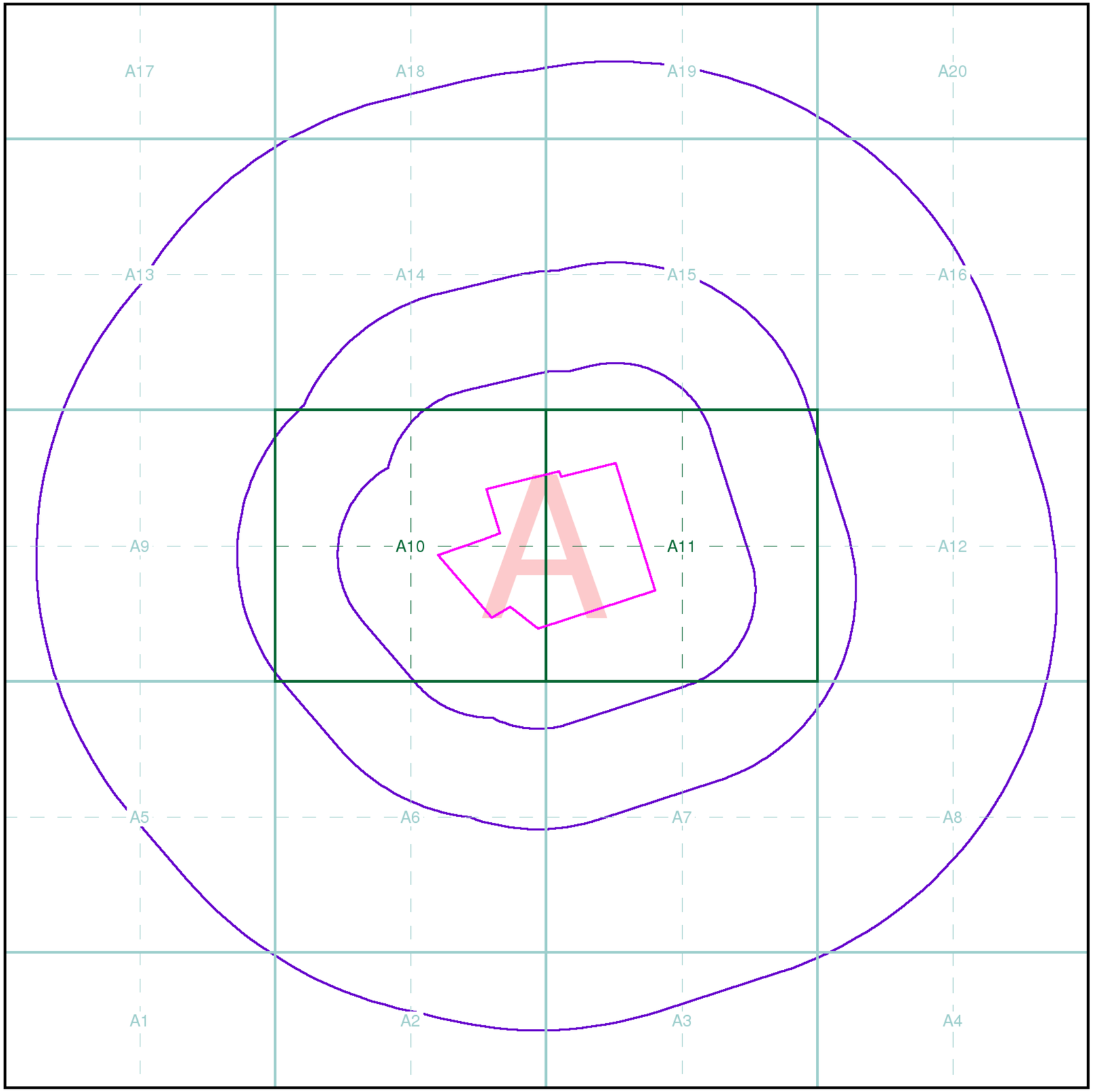
Photograph 5; Northern boundary facing west, showing depot and overhead power lines.

Photograph 6; South west corner of site facing north west.

Photograph 7; Western boundary of site facing south.

Appendix E

ENVIROCHECK REPORT



Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:

Envirocheck reports are compiled from 136 different sources of data.

Client Details

MR M Wheeler, WSP UK Ltd, Unit 9 The Chase, John Tate Road, Foxholes Business Park, Hertford, SG13 7NN

Order Details

Order Number:	285338568_1_1
Customer Ref:	70084697-301
National Grid Reference:	553610, 227080
Site Area (Ha):	13.74
Search Buffer (m):	1000

Site Details

Homebrands Ltd, Old Mead Road, ELSENHAM, CM22 6JL

Full Terms and Conditions can be found on the following link:
http://www.landmarkinfo.co.uk/Terms/Show/515

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

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
285338568_1_1

Customer Reference:
70084697-301

National Grid Reference:
553600, 227080

Slice:
A

Site Area (Ha):
13.74

Search Buffer (m):
1000

Site Details:

Homebrands Ltd, Old Mead Road
ELSENHAM
CM22 6JL

Client Details:

MR M Wheeler
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Contents

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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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 2		4	8	17
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 9				6
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 11		Yes		
Pollution Incidents to Controlled Waters	pg 11				2
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 11				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 11				4
Water Abstractions	pg 12			1	21 (*12)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 20	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 22	1	n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 22	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 22	Yes	n/a	n/a	n/a
Source Protection Zones	pg 22		1		
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 22		10	12	89

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 36				1
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Licensed Waste Management Facilities (Landfill Boundaries)	pg 36				1
Licensed Waste Management Facilities (Locations)	pg 36				1
Local Authority Landfill Coverage	pg 36	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 37			1	3
Potentially Infilled Land (Water)	pg 37		1		
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
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Explosive Sites					
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 38	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 38	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 43			2	4
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	pg 44				1
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 44	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 44	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 44		Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 44	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 44	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 44	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			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 46		16	2	14
Fuel Station Entries	pg 49				1
Points of Interest - Commercial Services	pg 49		9	4	3
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 50		3	2	4
Points of Interest - Public Infrastructure	pg 51		2	4	2
Points of Interest - Recreational and Environmental	pg 52				3
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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 53				2
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Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
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Marine Nature Reserves					
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Sites of Special Scientific Interest					
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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	A11SW (E)	0	1	553601 227084
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11NW (NE)	0	1	553650 227150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NW (NE)	0	1	553700 227150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A10NE (W)	0	1	553500 227100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SW (S)	0	1	553601 226950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11NW (N)	0	1	553600 227100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10NE (NW)	18	1	553450 227250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SW (SE)	89	1	553750 226850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A10NE (N)	103	1	553500 227350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (SE)	263	1	554050 226800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A15SW (N)	264	1	553650 227550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10SW (W)	267	1	553050 227050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NW (S)	283	1	553600 226600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NW (SE)	294	1	553800 226650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (SE)	302	1	554100 226800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A6NE (S)	334	1	553550 226550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (E)	344	1	554200 227000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (E)	345	1	554200 227050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NW (S)	383	1	553600 226500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (E)	394	1	554250 227000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (E)	395	1	554250 227084
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (E)	402	1	554250 226900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SE)	413	1	554200 226750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10SW (SW)	413	1	553000 226800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A15SW (N)	418	1	553850 227700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A15SW (NE)	432	1	553900 227700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SW (E)	450	1	554300 227084
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NW (S)	454	1	553700 226450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SW (E)	462	1	554300 226850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SW (E)	478	1	554300 226800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SW (E)	495	1	554350 226950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SW (E)	500	1	554350 226900
1	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Elsenham, Broom Farm Agency Zoneelsenhambroom Farm Agency Zone Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0914 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 6th April 2001 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stanstead Brook **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A10SE (W)	54	2	553300 227002
1	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Elsenham, Broom Farmelsenhambroom Farm Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0913 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 19th August 2014 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stanstead Brook **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 100m	A10SE (W)	55	2	553300 227000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Willis Gambier Ltd Property Type: MAKING OF WOOD PRODUCTS/CORK/STRAW/SAWMILLING Location: Old Mean Road Old Mead Road, Henham, Bishops Stortford, Herts, Cm22 6jx Authority: Environment Agency, Anglian Region Catchment Area: Upper River Cam (Chesterford) Reference: Prcnf14350 Permit Version: 1 Effective Date: 28th July 2000 Issued Date: 2nd August 2000 Revocation Date: 23rd March 2013 Discharge Type: Trade Discharges - Site Drainage (Contam Surface Water, Not Tips) Discharge Environment: Freshwater Stream/River Receiving Water: Ditch Trib Of River Cam **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 10m	A10NE (W)	86	2	553300 227150
3	**Discharge Consents** Operator: Gales A Property Type: Domestic Property (Single) Location: The Chalet Old Mead Road, Henham, Bishops Stortford, Herts, Cm22 6jl Authority: Environment Agency, Anglian Region Catchment Area: Upper River Cam (Chesterford) Reference: Prcnf17494 Permit Version: 1 Effective Date: 14th March 2005 Issued Date: 14th March 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Trib Of River Cam **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	A10NW (NW)	247	2	553209 227324
4	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Elsenham, Broom Farmelsenhambroom Farm Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0913 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 2nd September 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stanstead Brook **Status: Temporary Consents (Water Act 1989, Section 113)** Positional Accuracy: Located by supplier to within 100m	A6NE (SW)	258	2	553300 226700
5	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Osiers Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1647 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 6th April 2001 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stanstead Brook **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A6NE (SW)	314	2	553400 226600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Elsenham Nurseries & Poultry Farm Ltd Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Elsenham Nurseries & Poultry Farm Old Mead Road, Henham, Bishop'S Stortford, Herts, Cm22 6jl Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prcnf14359 Permit Version: 1 Effective Date: 26th May 2000 Issued Date: 6th June 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Ditch Of River Cam **Status:** **New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A14SE (NW)	329	2	553250 227500
7	**Discharge Consents** Operator: Broom Farm Housing Estate Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Broom Farm Housing Estate, Elsenham, Essex. Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr1lfu9 Permit Version: 1 Effective Date: 26th August 1977 Issued Date: 26th August 1977 Revocation Date: 18th February 1992 Discharge Type: Settled storm discharge - storm tank discharges Discharge Environment: Onto Land Receiving Water: Land **Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A6NE (S)	353	2	553450 226550
8	**Discharge Consents** Operator: Mrs Gladys Ross Property Type: Domestic Property (Single) Location: Bedwell Road No.1 Ugley Green, Bishop'S Stortford, Hertfordshire, Hertfordshire, Cm22 6hg Authority: Environment Agency, Anglian Region Catchment Area: Upper River Cam (Chesterford) Reference: Prcnf14585 Permit Version: 1 Effective Date: 2nd August 2001 Issued Date: 14th August 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of River Cam **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	A10NW (W)	401	2	552930 227170
9	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Oziers, Elsenhamozierselsenham Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1656 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 13th October 2015 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stanstead Brook **Status:** **Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 100m	A6NE (S)	413	2	553400 226500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Oziers, Elsenhamozierselsenham Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1656 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 2nd September 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stanstead Brook **Status: Temporary Consents (Water Act 1989, Section 113)** Positional Accuracy: Located by supplier to within 100m	A6NE (S)	413	2	553400 226500
10	**Discharge Consents** Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Boxworth Tps Eo, Elsenham, Bishop'S Stortfo, Cm22 Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Ascnf2153 Permit Version: 1 Effective Date: 2nd January 1990 Issued Date: 2nd January 1990 Revocation Date: 24th January 1991 Discharge Type: Storm /emergency overflow Discharge Environment: Freshwater Stream/River Receiving Water: Swavesey Drain River Great Ous **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A6NE (S)	440	2	553490 226450
11	**Discharge Consents** Operator: Anglian Water Services Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Bar Hill Village Tps Eo Saxon Way, Bar Hill, Cambridge, Cambridgeshire, Cb23 8dx Authority: Environment Agency, Anglian Region Catchment Area: Upper River Cam (Chesterford) Reference: Ascnf2123 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 31st January 2019 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Swavesey Drain Great Drain **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A7SW (S)	545	2	553810 226390
11	**Discharge Consents** Operator: Anglian Water Services Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Bar Hill Village Tps Eo Saxon Way, Bar Hill, Cambridge, Cambridgeshire, Cb23 8dx Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: Ascnf2123 Permit Version: 1 Effective Date: 2nd January 1990 Issued Date: 2nd January 1990 Revocation Date: 2nd September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Drain Receiving Water: Swavesey Drain Great Drain **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A7SW (S)	545	2	553810 226390

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Henham - Old Mead Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1142 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 2nd September 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stanstead Brook **Status: Temporary Consents (Water Act 1989, Section 113)** Positional Accuracy: Located by supplier to within 100m	A14SW (NW)	579	2	553100 227700
13	**Discharge Consents** Operator: Brett Aggregates (West) Ltd Property Type: MINERAL/GRAVEL EXTRACTION/QUARRYING Location: Elsenham Sand Quarry, Henham Rd, Elsenham, Nr Stanstead Mountfichet, Essex Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTWC.0887 Permit Version: 1 Effective Date: 19th May 1986 Issued Date: 19th May 1986 Revocation Date: 16th December 2002 Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: Stanstead Brook **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A8NW (SE)	611	2	554400 226700
14	**Discharge Consents** Operator: The Rural District Council Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Housing Site At Ugley, Ugley, Bishop'S Stortfo, Cm22 Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr1nfg1062 Permit Version: 1 Effective Date: 9th May 1963 Issued Date: 9th May 1963 Revocation Date: 25th July 1991 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Unknown Receiving Water: Unknown **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A9NE (W)	616	2	552800 227400
15	**Discharge Consents** Operator: Mr. D.G. Mcferran Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 4 Robin Hood Road, Elsenham, Essex Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Clcu.0111 Permit Version: 1 Effective Date: 10th November 1967 Issued Date: 10th November 1967 Revocation Date: 8th October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Not Supplied **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A6SE (S)	634	2	553450 226260

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Discharge Consents** Operator: Brett Aggregates (West) Ltd Property Type: MINERAL/GRAVEL EXTRACTION/QUARRYING Location: Elsenham Sand Quarry, Henham Rd, Elsenham, Nr Stanstead Mountfichet, Essex Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTWC.0937 Permit Version: 1 Effective Date: 5th June 1986 Issued Date: 5th June 1986 Revocation Date: 5th March 2008 Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: Stansted Brook **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 (E)	649	2	554500 226900
17	**Discharge Consents** Operator: Dr Florence Orelosi Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Elsen End, Henham Road, Elsenham, Essex Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.2655 Permit Version: 2 Effective Date: 9th December 2005 Issued Date: 9th December 2005 Revocation Date: 9th December 2017 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Glacial Gravels **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A12NW (E)	656	2	554500 227100
17	**Discharge Consents** Operator: Dr Florence Orelosi Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Elsen End, Henham Road, Elsenham, Essex Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTWC.2655 Permit Version: 1 Effective Date: 29th July 1988 Issued Date: 29th July 1988 Revocation Date: 8th December 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Onto Land Receiving Water: Glacial Gravels **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A12NW (E)	656	2	554500 227100
18	**Discharge Consents** Operator: Essex Cc Property Type: EDUCATION/NURSERY/SCHOOL/COLLEGE/UNI/TRAINING VENUE Location: Elsenham C/E Primary School, Elsenham, Essex Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Clcu.0174 Permit Version: 1 Effective Date: 24th August 1967 Issued Date: 24th August 1967 Revocation Date: 29th October 1992 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Not Supplied **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A7SW (S)	682	2	553760 226230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Discharge Consents** Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Oakington Road, Dry Drayton Tps Eo Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Ascnf2262 Permit Version: 1 Effective Date: 2nd January 1990 Issued Date: 2nd January 1990 Revocation Date: 12th June 1992 Discharge Type: Storm /emergency overflow Discharge Environment: Freshwater Stream/River Receiving Water: Cottenham Lode River Great Ous **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A7SW (S)	687	2	553900 226270
19	**Discharge Consents** Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cambridge Road, Lolworth Tps Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Ascnf2428 Permit Version: 1 Effective Date: 2nd January 1990 Issued Date: 2nd January 1990 Revocation Date: 24th January 1991 Discharge Type: Storm /emergency overflow Discharge Environment: Freshwater Stream/River Receiving Water: Swavesey Drain River Great Ous **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A7SW (S)	693	2	553890 226260
20	**Discharge Consents** Operator: The Occupier Property Type: Undefined Or Other Location: Hilltop, Mill Road, Henham, Essex Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Ctwc.3076 Permit Version: 1 Effective Date: 26th January 1989 Issued Date: 26th January 1989 Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Onto Land Receiving Water: Boulder Clay **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A16SW (NE)	739	2	554450 227550
21	**Discharge Consents** Operator: Tilcon Ltd Property Type: MINERAL/GRAVEL EXTRACTION/QUARRYING Location: Elsenham Quarry, Henham Road, Elsenham, Bishops Stortford, Hertfordshire Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.3184 Permit Version: 1 Effective Date: 15th March 1989 Issued Date: 15th March 1989 Revocation Date: 25th April 1991 Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: Stansted Brook **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A12SW (E)	743	2	554590 226860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Discharge Consents** Operator: Mr. D. Poulton & Ms. C. Stewart Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Cordwents, Stansted Road, Elsenham, Essex Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CLCU.0277 Permit Version: 1 Effective Date: 12th November 1971 Issued Date: 12th November 1971 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Not Supplied **Status:** **Transferred from Water Resources Act 1963** Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	872	2	553060 226130
23	**Discharge Consents** Operator: Mr. C. Britton Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Elsenham Nurseries, Stanstead Road, Elsenham, Essex Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CLCU.0112 Permit Version: 1 Effective Date: 10th November 1967 Issued Date: 10th November 1967 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Not Supplied **Status:** **Transferred from Water Resources Act 1963** Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	940	2	552990 226090
24	**Discharge Consents** Operator: The Rural District Council Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Housing Site At Henham, Henham, Bishop'S Stortfo, Cm22 Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr1nfg1064 Permit Version: 1 Effective Date: 9th May 1963 Issued Date: 9th May 1963 Revocation Date: 25th July 1991 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Unknown Receiving Water: Unknown **Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A16NW (NE)	956	2	554400 228000
25	**Integrated Pollution Prevention And Control** Name: Viridor Waste Management Limited Location: Elsenham Landfill Epr/Mp3435kp, Elsenham Quarry, Hall Road,Elsenham,, BISHOP'S STORTFORD, Hertfordshire, CM22 6DJ Authority: Environment Agency - South East Region, North East Thames Area Permit Reference: RP3603LL Original Permit Ref: Mp3435kp Effective Date: 13th October 2020 **Status:** **Effective** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned within the geographical locality Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A12NW (E)	600	2	554444 227095

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Integrated Pollution Prevention And Control** Name: Viridor Waste Management Limited Location: Elsenham Quarry And Landfill, Elsenham Quarry, Hall Road,Elsenham,, BISHOP'S STORTFORD, Hertfordshire, CM22 6DJ Authority: Environment Agency, Thames Region Permit Reference: MP3435KP Original Permit Ref: Mp3435kp Effective Date: 21st October 2009 **Status:** **Superseded By Variation** Application Type: Transfer App. Sub Type: Whole limited change in management Positional Accuracy: Manually positioned to the address or location Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A8NW (E)	777	2	554595 226739
26	**Integrated Pollution Prevention And Control** Name: Viridor Waste Kent Ltd Location: Elsenham Quarry And Landfill, Elsenham Quarry, Hall Road, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6DJ Authority: Environment Agency, Thames Region Permit Reference: Bu7081in Original Permit Ref: Bu7081in Effective Date: 6th August 2004 **Status:** **Superseded By Variation** Application Type: Application App. Sub Type: New Positional Accuracy: Manually positioned to the address or location Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A8NW (E)	780	2	554597 226734
26	**Integrated Pollution Prevention And Control** Name: Viridor Waste Kent Ltd Location: Elsenham Quarry And Landfill, Hall Road, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6DJ Authority: Environment Agency, Thames Region Permit Reference: BP3133MU Original Permit Ref: Bu7081in Effective Date: 24th March 2007 **Status:** **Superseded By Variation** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned within the geographical locality Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A8NE (E)	823	2	554642 226734
27	**Integrated Pollution Prevention And Control** Name: Viridor Waste (Kent) Ltd Location: Elsenham Quarry And Landfill, Elsenham Quarry, Hall Road, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6DJ Authority: Environment Agency, Thames Region Permit Reference: Vp3339sq Original Permit Ref: Bu7081in Effective Date: 8th November 2004 **Status:** **Superseded By Variation** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A7SE (S)	811	2	553951 226156
28	**Integrated Pollution Prevention And Control** Name: Viridor Waste Kent Ltd Location: Elsenham Quarry And Landfill, Elsenham Quarry, Hall Road,Elsenham,, BISHOP'S STORTFORD, Hertfordshire, CM22 6DJ Authority: Environment Agency, Thames Region Permit Reference: Sp3832sv Original Permit Ref: Bu7081in Effective Date: 17th December 2005 **Status:** **Superseded By Variation** Application Type: Variation App. Sub Type: Standard Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A7SE (S)	882	2	554001 226098

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Nearest Surface Water Feature	A10SE (W)	34	-	553284 227075
29	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: ELSENHAM Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 9th January 1989 Incident Reference: NE890013 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SE)	613	2	554400 226695
30	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Fuller's End Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 11th November 1998 Incident Reference: THNE1998041069 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A2NE (S)	985	2	553500 225900
	River Quality Name: Stansted Bk GQA Grade: River Quality A Reach: Source - Stort Estimated Distance (km): 8.3 Flow Rate: Flow less than 0.62 cumecs Flow Type: River Year: 2000	A12SW (E)	687	2	554529 226840
31	**Substantiated Pollution Incident Register** Authority: Environment Agency - Anglian Region, Central Area Incident Date: 8th October 2009 Incident Reference: 723247 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Landfill Odour	A9SW (W)	936	2	552381 227035
32	**Substantiated Pollution Incident Register** Authority: Environment Agency - Anglian Region, Central Area Incident Date: 23rd September 2009 Incident Reference: 718899 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Landfill Odour	A13SW (W)	955	2	552467 227502
32	**Substantiated Pollution Incident Register** Authority: Environment Agency - Anglian Region, Central Area Incident Date: 28th September 2009 Incident Reference: 720301 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Landfill Odour	A13SW (W)	966	2	552469 227529
32	**Substantiated Pollution Incident Register** Authority: Environment Agency - Anglian Region, Central Area Incident Date: 9th July 2009 Incident Reference: 696789 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Landfill Odour	A13SW (W)	967	2	552451 227495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**Water Abstractions** Operator: Michael Rowley Ltd Licence Number: 6/33/27/*s/053 Permit Version: Not Supplied Location: Reservoir On Ditch At, ELSENHAM Authority: Environment Agency, Anglian Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 7 Yearly Rate (m3): 81830 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10SW (SW)	413	2	553000 226800
34	**Water Abstractions** Operator: Greenham Construction Materials Ltd Licence Number: 29/38/06/0157 Permit Version: 1 Location: Elsenham Sand Quarry - Tributary Of Stansted Brook Authority: Environment Agency, Thames Region Abstraction: Mineral Products: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd September 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	748	2	554600 226900
34	**Water Abstractions** Operator: Viridor Waste Management Limited Licence Number: Th/038/0006/010 Permit Version: 1 Location: Tributary Of Stansted Brook At Elsenham Landfill Site, Essex Authority: Environment Agency, Thames Region Abstraction: Extractive: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	758	2	554604 226858
34	**Water Abstractions** Operator: Viridor Waste Management Limited Licence Number: Th/038/0006/010 Permit Version: 1 Location: Tributary Of Stansted Brook At Elsenham Landfill Site, Essex Authority: Environment Agency, Thames Region Abstraction: Extractive: Process water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	758	2	554604 226858

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	**Water Abstractions** Operator: Viridor Waste Management Limited Licence Number: Th/038/0006/010 Permit Version: 1 Location: Tributary Of Stansted Brook At Elsenham Landfill Site, Essex Authority: Environment Agency, Thames Region Abstraction: Extractive: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	758	2	554604 226858
34	**Water Abstractions** Operator: Viridor Waste Management Limited Licence Number: Th/038/0006/010 Permit Version: 1 Location: Tributary Of Stansted Brook At Elsenham Landfill Site, Essex Authority: Environment Agency, Thames Region Abstraction: Extractive: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	762	2	554609 226860
34	**Water Abstractions** Operator: Viridor Waste Management Limited Licence Number: Th/038/0006/010 Permit Version: 1 Location: Tributary Of Stansted Brook At Elsenham Landfill Site, Essex Authority: Environment Agency, Thames Region Abstraction: Extractive: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	762	2	554609 226860
34	**Water Abstractions** Operator: Viridor Waste Management Limited Licence Number: Th/038/0006/010 Permit Version: 1 Location: Tributary Of Stansted Brook At Elsenham Landfill Site, Essex Authority: Environment Agency, Thames Region Abstraction: Extractive: Process water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	762	2	554609 226860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	**Water Abstractions** Operator: Viridor Waste Management Limited Licence Number: 29/38/06/0141 Permit Version: 104 Location: Trib Of Stanstead Brook Elsenham Landfill Site Authority: Environment Agency, Thames Region Abstraction: Extractive: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th September 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	766	2	554615 226873
34	**Water Abstractions** Operator: Viridor Waste Management Limited Licence Number: 29/38/06/0141 Permit Version: 104 Location: Trib Of Stanstead Brook Elsenham Landfill Site Authority: Environment Agency, Thames Region Abstraction: Extractive: Process water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th September 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	766	2	554615 226873
34	**Water Abstractions** Operator: Viridor Waste Management Limited Licence Number: 29/38/06/0141 Permit Version: 104 Location: Trib Of Stanstead Brook Elsenham Landfill Site Authority: Environment Agency, Thames Region Abstraction: Extractive: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th September 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	766	2	554615 226873
34	**Water Abstractions** Operator: Viridor Waste (Kent) Limited Licence Number: 29/38/06/0141 Permit Version: 103 Location: Trib Of Stansted Brook At Elsenham Quarry, Elsenham Authority: Environment Agency, Thames Region Abstraction: Extractive: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th August 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	783	2	554630 226860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	**Water Abstractions** Operator: Viridor Waste (Kent) Limited Licence Number: 29/38/06/0141 Permit Version: 103 Location: Trib Of Stansted Brook At Elsenham Quarry, Elsenham Authority: Environment Agency, Thames Region Abstraction: Extractive: Process water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th August 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	783	2	554630 226860
34	**Water Abstractions** Operator: Viridor Waste (Kent) Limited Licence Number: 29/38/06/0141 Permit Version: 102 Location: Trib Of Stansted Brook At Elsenham Quarry, Elsenham Authority: Environment Agency, Thames Region Abstraction: Extractive: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Sand Quarry, Henham Road, Elsenham, Essex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd May 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	783	2	554630 226860
34	**Water Abstractions** Operator: Brett Waste Management Limited Licence Number: 29/38/06/0157 Permit Version: 2 Location: Trib Of Stansted Brook At Elsenham Quarry, Elsenham Authority: Environment Agency, Thames Region Abstraction: Mineral Products: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	783	2	554630 226860
34	**Water Abstractions** Operator: Brett Waste Management Limited Licence Number: 29/38/06/0141 Permit Version: 101 Location: Trib Of Stansted Brook At Elsenham Quarry, Elsenham Authority: Environment Agency, Thames Region Abstraction: Extractive: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 262 Yearly Rate (m3): 95577 Details: Elsenham Sand Quarry, Henham Road, Elsenham, Essex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st March 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	783	2	554630 226860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	**Water Abstractions** Operator: Viridor Waste Management Limited Licence Number: Th/038/0006/010 Permit Version: 1 Location: Tributary Of Stansted Brook At Elsenham Landfill Site, Essex Authority: Environment Agency, Thames Region Abstraction: Extractive: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	782	2	554619 226807
35	**Water Abstractions** Operator: Viridor Waste Management Limited Licence Number: Th/038/0006/010 Permit Version: 1 Location: Tributary Of Stansted Brook At Elsenham Landfill Site, Essex Authority: Environment Agency, Thames Region Abstraction: Extractive: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	782	2	554619 226807
35	**Water Abstractions** Operator: Viridor Waste Management Limited Licence Number: Th/038/0006/010 Permit Version: 1 Location: Tributary Of Stansted Brook At Elsenham Landfill Site, Essex Authority: Environment Agency, Thames Region Abstraction: Extractive: Process water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	782	2	554619 226807
35	**Water Abstractions** Operator: Viridor Waste Management Limited Licence Number: 29/38/06/0141 Permit Version: 104 Location: Trib Of Stanstead Brook Elsenham Landfill Site Authority: Environment Agency, Thames Region Abstraction: Extractive: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th September 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	782	2	554619 226807

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	**Water Abstractions** Operator: Viridor Waste Management Limited Licence Number: 29/38/06/0141 Permit Version: 104 Location: Trib Of Stanstead Brook Elsenham Landfill Site Authority: Environment Agency, Thames Region Abstraction: Extractive: Process water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th September 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	782	2	554619 226807
35	**Water Abstractions** Operator: Viridor Waste Management Limited Licence Number: 29/38/06/0141 Permit Version: 104 Location: Trib Of Stanstead Brook Elsenham Landfill Site Authority: Environment Agency, Thames Region Abstraction: Extractive: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Elsenham Quarry, Elsenham, Essex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th September 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (E)	782	2	554619 226807
	Water Abstractions Operator: B W Smith (Pledgdon Farms) Ltd Licence Number: 29/38/06/0123 Permit Version: 100 Location: Pledgdon Hall, Bishops Stortford - Reservoir Authority: Environment Agency, Thames Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 721 Yearly Rate (m3): 18184 Details: Pledgdon Hall, Henham, Bishops Stortford, Essex (Area Outlined In Red And Green On Map Attached To Licence) Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 19th March 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (E)	1051	2	554900 227100
	Water Abstractions Operator: B W Smith (Pledgdon Farms) Ltd Licence Number: 29/38/06/0123 Permit Version: 100 Location: Pledgdon Hall, Bishops Stortford - Reservoir Authority: Environment Agency, Thames Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Pledgdon Hall, Henham, Bishops Stortford, Essex (Area Outlined In Red On Map Attached To Licence) Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 19th March 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NE (E)	1051	2	554900 227100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: B W Smith (Pledgdon Farms) Ltd Licence Number: 29/38/06/0123 Permit Version: 101 Location: Pledgdon Hall, Bishops Stortford - Reservoir Authority: Environment Agency, Thames Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Pledgdon Hall, Henham, Bishops Stortford, Essex (Area Outlined In Red And Green On Map Attached To Licence) Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st April 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NE (E)	1061	2	554910 227100
	Water Abstractions Operator: B W Smith (Pledgdon Farms) Ltd Licence Number: 29/38/06/0123 Permit Version: 101 Location: Pledgdon Hall, Bishops Stortford - Reservoir Authority: Environment Agency, Thames Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Pledgdon Hall, Henham, Bishops Stortford Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 19th April 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NE (E)	1061	2	554910 227100
	Water Abstractions Operator: M F Curran & P J Lawrence Licence Number: 29/38/06/0042 Permit Version: 100 Location: Elsenham Hall, Elsenham - Well Authority: Environment Agency, Thames Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 20 Yearly Rate (m3): 6819 Details: Elsenham Hall, Elsenham, Essex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd September 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A3NE (S)	1196	2	554100 225800
	Water Abstractions Operator: Hales Waste Control Limited Licence Number: 29/38/06/0156 Permit Version: 100 Location: Borehole At Ugley Landfill Site, Ugley, Bishops Stortford Authority: Environment Agency, Thames Region Abstraction: Mineral Products: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Ugley Landfill Site, Ugley, Bishops Stortford, Herts Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 18th June 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1773	2	551650 227670

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Stansted Airport Ltd Licence Number: 29/38/06/0102 Permit Version: 100 Location: Stansted Airport - Borehole 2 Authority: Environment Agency, Thames Region Abstraction: Household Water Supply: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Stansted Airport, Stansted, Essex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd August 1988 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1884	2	553500 225000
	Water Abstractions Operator: J W Smith & Co Licence Number: 6/33/27/*g/104 Permit Version: Not Supplied Location: Borehole North West Of, HENHAM Authority: Environment Agency, Anglian Region Abstraction: Transfer Water Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: C Chalk 4; Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1954	2	554200 229195
	Water Abstractions Operator: J W Smith & Co Licence Number: 6/33/27/*g/094 Permit Version: Not Supplied Location: Borehole North West Of, HENHAM Authority: Environment Agency, Anglian Region Abstraction: Transfer Water Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 14 Yearly Rate (m3): 218180 Details: C Chalk 4; Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1959	2	554200 229200
	Water Abstractions Operator: J W Smith & Co Licence Number: 6/33/27/*S/0086 Permit Version: 100 Location: Watercourse 2 Henham Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct 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 April Authorised End: 30 September Permit Start Date: 8th April 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1962	2	554120 229220

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: J W Smith & Co Licence Number: 6/33/27/**/086 Permit Version: Not Supplied Location: Watercourse 2 , HENHAM Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 14 Yearly Rate (m3): 454540 Details: Status: Perpetuity 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	(N)	1962	2	554120 229220
	Water Abstractions Operator: Lee Valley Water Company Licence Number: 6/33/27/*g/010 Permit Version: Not Supplied Location: Two Bores At, HENHAM Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 415 Yearly Rate (m3): 1136500 Details: E chalk; Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1995	2	553100 229200
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A10NE (NW)	0	3	553454 227193
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A10NE (NW)	0	3	553476 227180

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Unproductive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Mixed Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A11SW (S)	0	3	553619 227000
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Unproductive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Mixed Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A10SE (SW)	0	3	553456 226969
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Unproductive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Mixed Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A11SW (S)	0	3	553601 227000
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Unproductive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A11SW (E)	0	3	553601 227084

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Unproductive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A11SW (SE)	0	3	553630 227070
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Unproductive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A10SE (SW)	0	3	553431 227000
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Problems Unlikely	A11SW (E)	0	3	553601 227084
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A10NE (NW)	0	3	553476 227180
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A11SW (E)	0	3	553601 227084
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A11SW (SE)	0	3	553630 227070
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A11SW (E)	0	3	553601 227084
36	**Source Protection Zones** Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A10NE (N)	89	2	553550 227350
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 125.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A10SE (W)	31	4	553299 227009

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A10SE (W)	35	4	553283 227074
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 79.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A10SE (W)	40	4	553279 227081
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A10SE (SW)	76	4	553313 226952
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A10SE (SW)	86	4	553304 226949
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 120.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A10SE (SW)	100	4	553288 226945
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A10NE (W)	111	4	553252 227155
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A10NW (W)	126	4	553246 227169
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 78.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A10NW (W)	172	4	553226 227211
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 142.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A10NW (NW)	244	4	553199 227284

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 86.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A10NW (NW)	331	4	553169 227423
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 132.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A10NW (NW)	337	4	553119 227343
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 327.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A10NW (W)	372	4	552973 227206
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14SW (NW)	391	4	553164 227509
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 163.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A10NW (W)	419	4	552988 227325
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 260.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11NE (E)	420	4	554226 227242
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 69.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A6NW (SW)	421	4	553088 226685
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 2	A9SE (W)	442	4	552875 227065
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14SW (NW)	448	4	553154 227576

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 209.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A6NW (SW)	474	4	553053 226645
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 92.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14SW (NW)	476	4	553113 227578
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 117.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14SW (NW)	476	4	553113 227578
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 145.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (E)	503	4	554341 226846
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 93.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14SW (NW)	505	4	553002 227485
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 92.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14SW (NW)	505	4	553002 227485
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 587.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A6NW (SW)	511	4	552935 226721
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 317.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A15NW (N)	531	4	553771 227831
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A15NW (N)	539	4	553760 227832

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 190.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A15NW (N)	539	4	553746 227833
66	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 59.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14SW (NW)	545	4	553143 227687
67	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 19.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A6NW (SW)	572	4	552967 226595
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A6NW (SW)	581	4	553065 226475
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A6NW (SW)	583	4	552968 226576
70	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 21.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A6NW (SW)	584	4	552974 226567
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SE)	587	4	554226 226522
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 123.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14NE (N)	589	4	553455 227839
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 79.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14SW (NW)	590	4	553145 227742

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 224.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14NE (N)	590	4	553447 227838
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14NE (N)	590	4	553447 227838
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 61.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SE (NW)	591	4	552910 227497
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A6NW (SW)	591	4	553064 226463
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (SE)	593	4	554396 226733
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A6NW (SW)	605	4	552955 226558
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14NE (N)	608	4	553571 227878
81	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 41.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A6NW (SW)	609	4	553057 226444
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 92.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (SE)	628	4	554279 226513

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 182.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (E)	631	4	554485 227022
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 128.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SE (NW)	633	4	552849 227492
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (SE)	634	4	554417 226683
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.3 Watercourse Level: Underground Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A12SW (E)	645	4	554463 226757
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 47.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A12SW (E)	645	4	554464 226762
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A12SW (E)	647	4	554479 226802
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A8NW (E)	650	4	554463 226747
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 101.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14NW (NW)	662	4	553137 227819
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (SE)	663	4	554466 226717

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 186.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A8NW (SE)	663	4	554465 226716
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 55.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14NW (NW)	663	4	553242 227862
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 149.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A12SW (E)	681	4	554532 226892
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A8NW (SE)	686	4	554369 226523
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 58.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A8NW (SE)	686	4	554369 226523
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Underground Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A8NW (SE)	693	4	554370 226514
98	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 305.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A8NW (SE)	696	4	554372 226510
99	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 12.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A6SW (SW)	700	4	553056 226331
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 112.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14NW (NW)	716	4	553239 227918

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 420.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (SE)	721	4	554426 226536
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A9SE (W)	730	4	552587 227077
103	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 400.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SE (NW)	733	4	552763 227565
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 122.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SE (NW)	733	4	552721 227492
105	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14NW (NW)	756	4	553127 227918
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 474.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A14NW (NW)	756	4	553127 227918
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 170.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SE (E)	760	4	554615 227016
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SE (E)	780	4	554636 226989
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A12SE (E)	789	4	554645 226982

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A12SE (E)	793	4	554649 226984
111	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A12SE (E)	796	4	554651 226986
112	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 325.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A7SE (SE)	798	4	554209 226262
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 109.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A12SE (E)	799	4	554655 226987
114	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (SE)	824	4	554262 226261
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SE (SE)	831	4	554261 226252
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SE (SE)	831	4	554261 226252
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 73.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (W)	842	4	552477 227130
118	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (W)	842	4	552483 227180

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (W)	849	4	552468 227042
120	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SE (SE)	851	4	554250 226224
121	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SE (SE)	851	4	554250 226224
122	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 274.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (SE)	851	4	554291 226246
123	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 26.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NE (E)	858	4	554706 227092
124	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 40.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (SE)	865	4	554261 226214
125	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 200.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SE (E)	875	4	554726 227066
126	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 344.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A12SE (E)	875	4	554726 227066
127	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 534.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A7SE (S)	880	4	554009 226098

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
128	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SE (S)	884	4	554009 226098
129	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 31.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (SE)	902	4	554272 226177
130	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A2NW (SW)	912	4	553136 226054
131	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 120.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SE (SE)	921	4	554258 226149
132	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 117.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A7SE (SE)	921	4	554258 226149
133	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A2NW (SW)	923	4	553148 226038
134	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 40.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A2NW (S)	943	4	553171 226009
135	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 97.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3NE (SE)	946	4	554049 226046
136	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 166.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3NE (SE)	946	4	554049 226046

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (W)	964	4	552453 227493
138	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A2NW (S)	965	4	553195 225980
139	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A2NW (S)	971	4	553201 225972
140	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A2NE (S)	974	4	553522 225910
141	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 73.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A2NE (S)	979	4	553516 225906
142	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Stansted Brook Catchment Name: Thames Primacy: 1	A2NE (S)	979	4	553516 225906
143	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A2NW (S)	988	4	553229 225947
144	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 158.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A16NW (NE)	992	4	554393 228054
145	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A2NW (S)	994	4	553225 225942

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
146	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A2NW (S)	994	4	553225 225942
147	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A2NW (S)	996	4	553227 225940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	**BGS Recorded Landfill Sites** Site Name: Remington Hall Location: Elsenham, BISHOPS STORTFORD, Herts Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Derived	A8NW (E)	760	-	554578 226739
149	**Historical Landfill Sites** Licence Holder: Greenham Construction Location: Elsenham Name: Henham Road Operator Location: Greenham House, 671 London Road, Isleworth, Middlesex Boundary Accuracy: As Supplied Provider Reference: EAHLD02808 First Input Date: 11th April 1986 Last Input Date: 29th April 1994 Specified Waste Type: Deposited Waste included Industrial and Commercial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1500/0045 BGS Ref: Not Supplied Other Ref: 131/86, UTT004	A12SW (E)	647	2	554495 226867
150	**Historical Landfill Sites** Licence Holder: Greenham Construction Materials Limited Location: Henham Road, Elsenham Name: Elsenham Operator Location: Elsenham Boundary Accuracy: As Supplied Provider Reference: EAHLD10873 First Input Date: 4th October 1978 Last Input Date: 20th April 1994 Specified Waste Type: Deposited Waste included Industrial and Commercial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1500/0047 BGS Ref: 2740 Other Ref: 049/78, UTT002, AP-788	A12SW (E)	704	2	554544 226827
151	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Elsenham Landfill Epr/Mp3435kp Licence Number: 0 Location: Elsenham Quarry, Hall Road, Elsenham, Hertfordshire, CM22 6DJ Licence Holder: Viridor Waste Management Limited Authority: Environment Agency - Anglian Region, Eastern Area Site Category: Waste Landfilling; >10 T/D with Capacity >25,000T Excluding Inert Waste Max Input Rate: Not Supplied **Licence Status: Effective** Issued: 13th October 2020 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A12SW (E)	642	2	554462 226766
152	**Licensed Waste Management Facilities (Locations)** Licence Number: 400994 Location: Elsenham Recycling Facility, Henham Road, Elsenham, Bishops Stortford, Hertfordshire, CM22 6DJ Operator Name: Ingrebourne Valley Limited Operator Location: Not Supplied Authority: Environment Agency - Thames Region, North East Area Site Category: Treatment of waste to produce soil <75,000 tpy **Licence Status: Issued** Issued: 17th 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	A12SW (E)	698	2	554522 226769
	Local Authority Landfill Coverage Name: Uttlesford District Council - Has no landfill data to supply		0	5	553601 227084
	Local Authority Landfill Coverage Name: Essex County Council - Has supplied landfill data		0	6	553601 227084

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A11SE (SE)	265	-	554040 226783
154	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A12NW (E)	685	-	554513 227170
155	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A12NE (E)	794	-	554619 227197
156	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A12NE (E)	809	-	554644 227163
157	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A6NE (SW)	203	-	553414 226711

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lambeth Group	A10NE (NW)	0	1	553577 227105
	BGS 1:625,000 Solid Geology Description: Thames Group	A11SW (E)	0	1	553601 227084
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (E)	0	1	553601 227084
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A10NE (NW)	0	1	553454 227193
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A11SW (SE)	0	1	553630 227070
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (NW)	0	1	553424 227166
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (NW)	0	1	553476 227180

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (NW)	122	1	553469 227362
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NW (S)	290	1	553763 226636
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10SW (W)	317	1	553000 227062
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SE)	420	1	553999 226574
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 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	A9NE (W)	455	1	552885 227211
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9SE (W)	500	1	552818 227022

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (N)	513	1	553540 227779
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (SE)	526	1	554327 226743
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (E)	593	1	554365 227336
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 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	A12SW (E)	599	1	554419 226773
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15NW (N)	645	1	553666 227930
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NE (W)	670	1	552743 227411

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (NW)	672	1	552889 227618
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 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	A9NE (W)	677	1	552723 227390
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A9NE (W)	684	1	552674 227300
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 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 (NW)	718	1	552881 227683
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (SE)	738	1	554525 226665
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14NE (N)	787	1	553464 228044

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NE (W)	799	1	552578 227369
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (NW)	839	1	552673 227608
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9SW (W)	920	1	552397 227063
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A2NW (S)	951	1	553175 226000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NW (S)	966	1	553636 225920
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A2NW (S)	980	1	553210 225960

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
158	**BGS Recorded Mineral Sites** Site Name: Elsenham Location: Elsenham, Bishop'S Stortford, Essex Source: British Geological Survey, National Geoscience Information Service Reference: 6518 Type: Opencast **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Quaternary Geology: Kesgrave Catchment Subgroup Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A7NE (SE)	388	1	554155 226730
159	**BGS Recorded Mineral Sites** Site Name: Elsenham Sand & Gravel Pit Location: Elsenham, Bishop'S Stortford, Essex Source: British Geological Survey, National Geoscience Information Service Reference: 225975 Type: Opencast **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Quaternary Geology: Kesgrave Catchment Subgroup Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A12SW (E)	429	1	554285 226975
160	**BGS Recorded Mineral Sites** Site Name: Pledgdon Hall Sand Pits Location: Henham, Bishop'S Stortford, Essex Source: British Geological Survey, National Geoscience Information Service Reference: 179409 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Kesgrave Catchment Subgroup Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A12NW (E)	686	1	554516 227163
161	**BGS Recorded Mineral Sites** Site Name: Elsenham Sand Quarry Location: Elsenham, Bishop'S Stortford, Essex Source: British Geological Survey, National Geoscience Information Service Reference: 225971 Type: Opencast **Status: Ceased** Operator: Brett Waste Management Ltd. Operator Location: Not Supplied Periodic Type: Quaternary Geology: Kesgrave Catchment Subgroup Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8NW (E)	749	1	554555 226710
162	**BGS Recorded Mineral Sites** Site Name: Pledgdon Hall Sand Pits Location: Henham, Bishop'S Stortford, Essex Source: British Geological Survey, National Geoscience Information Service Reference: 179410 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Anglian Geology: Lowestoft Formation Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A12NE (E)	794	1	554619 227196
162	**BGS Recorded Mineral Sites** Site Name: Pledgdon Hall Sand Pits Location: Henham, Bishop'S Stortford, Essex Source: British Geological Survey, National Geoscience Information Service Reference: 179411 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Kesgrave Catchment Subgroup Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A12NE (E)	805	1	554640 227160

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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				
	Man-Made Mining Cavities Easting: 554500 Northing: 227000 Distance: 645 Quadrant Reference: A12 Quadrant Reference: SW Bearing Ref: E Cavity Type: Possible Sand Mining Commodity: Sandstone Solid Geology Detail: Kesgrove Sand and Gravels, London Clay, Lambeth Group, Upper Chalk Formation Superficial Geology Detail: Head	A12SW (E)	645	7	554500 227000
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	1	553601 227084
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	30	1	553400 227229
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	1	553601 227084
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	1	553601 227084
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	1	553601 227084
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	30	1	553400 227229
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	1	553601 227084
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	1	553601 227084
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	553630 227070
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	0	1	553456 226969
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	1	553454 227193
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	553630 227070
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	1	553601 227084
	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	A11SW (E)	0	1	553601 227084

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A11SW (E)	0	1	553601 227084

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
163	**Contemporary Trade Directory Entries** Name: Electrophase Location: 4, Cranmore Close, Elsenham, BISHOP'S STORTFORD, Hertfordshire, CM22 6LQ Classification: Electronic Engineers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A10SE (SW)	75	-	553397 226857
164	**Contemporary Trade Directory Entries** Name: Tecserv Media Ltd Location: 14, Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6JX Classification: Printers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (W)	91	-	553226 227070
164	**Contemporary Trade Directory Entries** Name: Gs Controls Ltd Location: 8, Golds Nurseries Business Park, Jenkins Drive, Elsenham, BISHOP'S STORTFORD, Hertfordshire, CM22 6JX Classification: Machinery - Industrial & Commercial **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (W)	120	-	553198 227045
164	**Contemporary Trade Directory Entries** Name: Packaged Pump Systems Ltd Location: 20-22, Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6JX Classification: Pump Manufacturers **Status:** **Inactive** Positional Accuracy: Manually positioned to the address or location	A10SW (W)	125	-	553193 227085
164	**Contemporary Trade Directory Entries** Name: Clean Thinking Location: 6, Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, CM22 6JX Classification: Commercial Cleaning Services **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (W)	125	-	553193 227044
164	**Contemporary Trade Directory Entries** Name: Farnham Burner Services Ltd Location: 6, Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6JX Classification: Boilers - Servicing, Replacements & Repairs **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (W)	128	-	553191 227045
164	**Contemporary Trade Directory Entries** Name: Aldridge Glass Ltd Location: 4, Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, CM22 6JX Classification: China & Glassware Manufacturers & Repairs **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (W)	133	-	553186 227041
165	**Contemporary Trade Directory Entries** Name: Garretts Garage Services Ltd Location: 42, Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, CM22 6JX Classification: Garage Services **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A10NW (W)	147	-	553194 227145
165	**Contemporary Trade Directory Entries** Name: Highway Location: 41, Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6JX Classification: Fax Machines **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (W)	155	-	553185 227146
165	**Contemporary Trade Directory Entries** Name: Muirhead Systems Ltd Location: Millstream Court, Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6JX Classification: Office Equipment Manufacturers & Distributors **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (W)	164	-	553171 227141

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
165	**Contemporary Trade Directory Entries** Name: Omega Communications Ltd Location: Millstream Ct,Golds Nurseries Business Pk,Jenkins Dr, Elsenham, Bishops Stortford, Hertfordshire, CM22 6JX Classification: Fax Machines **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A10NW (W)	165	-	553170 227140
165	**Contemporary Trade Directory Entries** Name: R D M Test Equipment Ltd Location: 39, Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, CM22 6JX Classification: Electrical Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NW (W)	168	-	553164 227135
166	**Contemporary Trade Directory Entries** Name: Jam Location: Goldfields, Station Road, Elsenham, Bishop's Stortford, CM22 6LG Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SE (SW)	156	-	553311 226833
167	**Contemporary Trade Directory Entries** Name: The Motor Surgery Location: 1, Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6JX Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (W)	177	-	553141 227045
167	**Contemporary Trade Directory Entries** Name: National Fax Holdings Ltd Location: 33, Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6JX Classification: Fax Machines **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (W)	186	-	553132 227090
167	**Contemporary Trade Directory Entries** Name: Pdl Rubbish Clearance Location: 18, Spencer Close, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6EZ Classification: Rubbish Clearance **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (W)	227	-	553090 227071
168	**Contemporary Trade Directory Entries** Name: Alan Gregory Furniture Ltd Location: Old Mead Road, Henham, Bishop's Stortford, Hertfordshire, CM22 6JL Classification: Kitchen Furniture Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SW (NW)	332	-	553198 227459
169	**Contemporary Trade Directory Entries** Name: M M K Solutions Ltd Location: 8, De Mandeville Road, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6LR Classification: Freight Forwarders **Status: Active** Positional Accuracy: Automatically positioned to the address	A6NE (S)	364	-	553424 226547
170	**Contemporary Trade Directory Entries** Name: Hanson Location: Bretts Quarry,Henham Rd, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6DH Classification: Sand, Gravel & Other Aggregates **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SE)	546	-	554236 226586
171	**Contemporary Trade Directory Entries** Name: Auto Barn Location: Barker Garage, High Street, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6DD Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SW (S)	547	-	553695 226352

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
171	**Contemporary Trade Directory Entries** Name: Henham Elsenham & Ugley Churches Location: Old Franks, High Street, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6DD Classification: Air Conditioning & Refrigeration Contractors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SW (S)	550	-	553688 226347
172	**Contemporary Trade Directory Entries** Name: Talisman Designs Location: Yew Tree Cottage, 1, High Street, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6DD Classification: Mechanical Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SW (S)	567	-	553622 226319
173	**Contemporary Trade Directory Entries** Name: Viridor Waste Management Ltd Location: Henham Rd, Elsenham, Bishops Stortford, Hertfordshire, CM22 6DJ Classification: Waste Disposal Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A12NW (E)	600	-	554444 227094
173	**Contemporary Trade Directory Entries** Name: Viridor Waste Management Ltd Location: Henham Road, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6DJ Classification: Sand, Gravel & Other Aggregates **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A12SW (E)	644	-	554492 227080
174	**Contemporary Trade Directory Entries** Name: Ironing Service Location: Tynwald, Old Mead Lane, Henham, BISHOP'S STORTFORD, Hertfordshire, CM22 6JH Classification: Ironing & Home Laundry Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NE (N)	609	-	553470 227863
175	**Contemporary Trade Directory Entries** Name: Carolina Blinds Location: 24, Leigh Drive, Elsenham, Bishop's Stortford, CM22 6BY Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SE (S)	646	-	553331 226275
175	**Contemporary Trade Directory Entries** Name: Carolina Blinds Location: 24, Leigh Drive, Elsenham, Bishop's Stortford, CM22 6BY Classification: Blinds, Awnings & Canopies **Status: Active** Positional Accuracy: Automatically positioned to the address	A6SE (S)	646	-	553331 226275
176	**Contemporary Trade Directory Entries** Name: The Executives Choice Chauffeur Co Ltd Location: The Hedgerows, Hall Road, Elsenham, BISHOP'S STORTFORD, Hertfordshire, CM22 6DN Classification: Car Engine Tuning & Diagnostic Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SW (S)	676	-	553846 226264
177	**Contemporary Trade Directory Entries** Name: Aluminium Structures (Workplatforms) Ltd Location: Mill Cl, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6EG Classification: Scaffolding & Work Platforms **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A6SE (S)	747	-	553406 226153
178	**Contemporary Trade Directory Entries** Name: Elsenham Aggregate Supplies Location: 8, Rush Lane, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6TF Classification: Sand, Gravel & Other Aggregates **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A2NE (S)	828	-	553417 226069
179	**Contemporary Trade Directory Entries** Name: Viridor Waste Management Location: Mill Rd, Henham, Bishop's Stortford, Hertfordshire, CM22 6AB Classification: Waste Disposal Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A16NW (NE)	869	-	554404 227872

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
180	**Contemporary Trade Directory Entries** Name: A1 Autos Location: Woodview, Fullers End, Elsenham, Bishop's Stortford, Hertfordshire, CM22 6EA Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A2NE (S)	918	-	553510 225967
181	**Fuel Station Entries** Name: The Garage Location: High Street , Elsenham , Bishops Stortford, Essex, CM22 6DD Brand: Gulf Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Manually positioned to the address or location	A7SW (S)	551	-	553695 226348
182	**Points of Interest - Commercial Services** Name: Cambridge Concours Ltd Location: 8 Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, CM22 6JX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A10SW (W)	119	8	553199 227045
182	**Points of Interest - Commercial Services** Name: Msg Location: 47 Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, CM22 6JX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A10NW (W)	146	8	553173 227090
182	**Points of Interest - Commercial Services** Name: M S G Location: 47 Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, CM22 6JX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A10NW (W)	147	8	553172 227090
182	**Points of Interest - Commercial Services** Name: Garretts Garage Services Ltd Location: 42 Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, CM22 6JX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A10NW (W)	147	8	553193 227145
182	**Points of Interest - Commercial Services** Name: Garretts Location: 42 Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, CM22 6JX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A10NW (W)	155	8	553185 227146
182	**Points of Interest - Commercial Services** Name: M S G Windscreens Location: 46 Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, CM22 6JX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A10NW (W)	155	8	553165 227099
182	**Points of Interest - Commercial Services** Name: M S G Windscreens Location: 46 Golds Nurseries Business Park, Jenkins Drive, Elsenham, Bishop's Stortford, CM22 6JX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A10SW (W)	178	8	553140 227047
183	**Points of Interest - Commercial Services** Name: Mobile Car Valeting Location: Corlinga, Station Road, Elsenham, Bishop's Stortford, CM22 6LG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A10SE (SW)	156	8	553311 226833

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
183	**Points of Interest - Commercial Services** Name: Mobile Car Valeting Location: Corlinga, Station Road, Elsenham, Bishop's Stortford, CM22 6LG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A10SE (SW)	156	8	553311 226833
184	**Points of Interest - Commercial Services** Name: M M K Solutions Ltd Location: 8 De Mandeville Road, Elsenham, Bishop's Stortford, CM22 6LR Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A6NE (S)	362	8	553425 226549
184	**Points of Interest - Commercial Services** Name: Mmk Solutions Location: 8 De Mandeville Road, Elsenham, Bishop's Stortford, CM22 6LR Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A6NE (S)	364	8	553424 226547
185	**Points of Interest - Commercial Services** Name: Barkers Garage Location: 31 Hailes Wood, Elsenham, Bishop's Stortford, CM22 6DQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NW (S)	445	8	553706 226462
185	**Points of Interest - Commercial Services** Name: Cornelius Location: 24 Hailes Wood, Elsenham, Bishop's Stortford, CM22 6DQ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NW (S)	497	8	553756 226423
186	**Points of Interest - Commercial Services** Name: Barkers Garage Location: Barker Garage, High Street, Elsenham, Bishop's Stortford, CM22 6DD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7SW (S)	547	8	553695 226352
187	**Points of Interest - Commercial Services** Name: Viridor Ltd Location: Elsen End, Henham Road, Elsenham, Bishop's Stortford, CM22 6DJ Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A12SW (E)	632	8	554481 227069
188	**Points of Interest - Commercial Services** Name: Essex Autospray Location: The Gables, Stansted Road, Elsenham, Bishop's Stortford, CM22 6LJ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6SW (SW)	860	8	553106 226122
189	**Points of Interest - Manufacturing and Production** Name: Tank Location: CM22 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A10NE (W)	29	8	553312 227094
190	**Points of Interest - Manufacturing and Production** Name: Golds Nursery Business Park Location: CM22 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A10NW (W)	167	8	553159 227119
190	**Points of Interest - Manufacturing and Production** Name: Golds Nursery Business Park Location: CM22 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A10NW (W)	183	8	553138 227105
191	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SE (NW)	314	8	553379 227538

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
191	**Points of Interest - Manufacturing and Production** Name: Works Location: CM22 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SE (NW)	315	8	553379 227539
192	**Points of Interest - Manufacturing and Production** Name: P A Braeckman Location: Green Place, Ugley Green, Bishop's Stortford, CM22 6HL Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A9NW (W)	949	8	552378 227204
192	**Points of Interest - Manufacturing and Production** Name: P A Braeckman Location: Green Place, Ugley Green, Bishop's Stortford, CM22 6HL Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A9NW (W)	949	8	552378 227204
193	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A2NE (S)	981	8	553468 225907
193	**Points of Interest - Manufacturing and Production** Name: Works Location: CM22 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A2NE (S)	983	8	553461 225906
194	**Points of Interest - Public Infrastructure** Name: Elsenham Rail Station Location: Old Mead Road, CM22 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A10SE (W)	29	8	553320 227017
194	**Points of Interest - Public Infrastructure** Name: Elsenham Station Location: Old Mead Road, CM22 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A10SE (W)	29	8	553320 227017
195	**Points of Interest - Public Infrastructure** Name: Elsenham Police Station Location: Station Road, Elsenham, Bishop's Stortford, CM22 6LA Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A6NE (SW)	269	8	553375 226652
196	**Points of Interest - Public Infrastructure** Name: Sewage Ppg Location: CM22 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A6NW (SW)	291	8	553226 226724
197	**Points of Interest - Public Infrastructure** Name: Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A6NE (S)	422	8	553544 226462
197	**Points of Interest - Public Infrastructure** Name: Cemetery Location: CM22 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A6NE (S)	422	8	553544 226462
198	**Points of Interest - Public Infrastructure** Name: The Garage Location: High Street, Elsenham, Bishop's Stortford, CM22 6DD Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7SW (S)	551	8	553695 226348

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
199	**Points of Interest - Public Infrastructure** Name: Sewage Pumping Station Location: CM22 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	925	8	552491 227481
200	**Points of Interest - Recreational and Environmental** Name: Play Area Location: CM22 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A6NW (SW)	552	8	553103 226481
201	**Points of Interest - Recreational and Environmental** Name: Playground Location: Leigh Drive, CM22 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A6SE (S)	556	8	553312 226372
201	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	557	8	553306 226372

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
202	**Ancient Woodland** Name: Alsa Wood Reference: 1116460 Area(m²): 106634.73 Type: Ancient and Semi-Natural Woodland	A6NW (SW)	511	9	552935 226721
203	**Ancient Woodland** Name: Not Supplied Reference: 1420127 Area(m²): 126583.83 Type: Ancient and Semi-Natural Woodland	A9SE (W)	714	9	552655 226796
204	**Nitrate Vulnerable Zones** Name: Ely Ouse And Cut-Off Channel Nvz Description: Surface Water Source: Environment Agency, Head Office	A11SW (E)	0	3	553601 227084
205	**Nitrate Vulnerable Zones** Name: Anglian Chalk Description: Groundwater Source: Environment Agency, Head Office	A11SW (E)	0	3	553601 227084
206	**Nitrate Vulnerable Zones** Name: Lee Nvz Description: Surface Water Source: Environment Agency, Head Office	A10SE (SW)	96	3	553480 226819
207	**Nitrate Vulnerable Zones** Name: Stansted Mountfitchet Description: Groundwater Source: Environment Agency, Head Office	A6SE (SW)	531	3	553300 226400

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
East Hertfordshire District Council - Environmental Health Department	January 2013	Annual Rolling Update
Environment Agency - Head Office	June 2020	Annually
Uttlesford District Council - Environmental Health Department	October 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Anglian Region	July 2021	Quarterly
Environment Agency - Thames Region	July 2021	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Anglian Region	March 2013	
Environment Agency - Thames Region	March 2013	
Integrated Pollution Controls		
Environment Agency - Anglian Region	January 2009	
Environment Agency - Thames Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - Anglian Region	July 2021	Quarterly
Environment Agency - South East Region - North East Thames Area	July 2021	Quarterly
Environment Agency - Thames Region	July 2021	Quarterly
Local Authority Integrated Pollution Prevention And Control		
East Hertfordshire District Council - Environmental Health Department	January 2014	Variable
Uttlesford District Council - Environmental Health Department	September 2014	Variable
Local Authority Pollution Prevention and Controls		
East Hertfordshire District Council - Environmental Health Department	January 2014	Annual Rolling Update
Uttlesford District Council - Environmental Health Department	September 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
East Hertfordshire District Council - Environmental Health Department	January 2014	Variable
Uttlesford District Council - Environmental Health Department	September 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	June 2021	
Pollution Incidents to Controlled Waters		
Environment Agency - Anglian Region	September 1999	
Environment Agency - Thames Region	September 1999	
Prosecutions Relating to Authorised Processes		
Environment Agency - Anglian Region	July 2015	
Environment Agency - Thames Region	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - Anglian Region	March 2013	
Environment Agency - Thames Region	March 2013	
Registered Radioactive Substances		
Environment Agency - Anglian Region	June 2016	Annually
Environment Agency - Thames Region	June 2016	Annually
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	April 2012	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	April 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency - Anglian Region - Central Area	July 2021	Quarterly
Environment Agency - Anglian Region - Eastern Area	July 2021	Quarterly
Environment Agency - South East Region - North East Thames Area	July 2021	Quarterly
Environment Agency - Thames Region - North East Area	July 2021	Quarterly

Data Currency

Agency & Hydrological	Version	Update Cycle
Water Abstractions		
Environment Agency - Anglian Region	July 2021	Quarterly
Environment Agency - Thames Region	July 2021	Quarterly
Water Industry Act Referrals		
Environment Agency - Anglian Region	October 2017	Quarterly
Environment Agency - Thames Region	October 2017	Quarterly
Groundwater Vulnerability Map		
Environment Agency - Head Office	June 2018	As notified
Groundwater Vulnerability - Soluble Rock Risk		
Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually
Source Protection Zones		
Environment Agency - Head Office	May 2021	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	March 2021	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	March 2021	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	March 2021	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	March 2021	Quarterly
Flood Defences		
Environment Agency - Head Office	March 2021	Quarterly
OS Water Network Lines		
Ordnance Survey	July 2021	Quarterly
Surface Water 1 in 30 year Flood Extent		
Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent		
Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent		
Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability		
Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	Annually

Data Currency

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	Not Applicable
Historical Landfill Sites		
Environment Agency - Head Office	May 2021	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Anglian Region	January 2009	Not Applicable
Environment Agency - Thames Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - Anglian Region - Eastern Area	July 2021	Quarterly
Environment Agency - South East Region - North East Thames Area	July 2021	Quarterly
Environment Agency - Thames Region - North East Area	July 2021	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Anglian Region - Eastern Area	July 2021	Quarterly
Environment Agency - South East Region - North East Thames Area	July 2021	Quarterly
Environment Agency - Thames Region - North East Area	July 2021	Quarterly
Local Authority Landfill Coverage		
East Hertfordshire District Council - Environmental Health Department	February 2003	Not Applicable
Essex County Council	February 2003	Not Applicable
Hertfordshire County Council - Spatial Planning and Economy Unit	February 2003	Not Applicable
Uttlesford District Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
East Hertfordshire District Council - Environmental Health Department	October 2018	
Essex County Council	October 2018	
Hertfordshire County Council - Spatial Planning and Economy Unit	October 2018	
Uttlesford District Council - Environmental Health Department	October 2018	
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	
Registered Landfill Sites		
Environment Agency - Anglian Region - Eastern Area	March 2006	Not Applicable
Environment Agency - Thames Region - North East Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Anglian Region - Eastern Area	April 2018	
Environment Agency - Thames Region - North East Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency - Anglian Region - Eastern Area	June 2015	
Environment Agency - Thames Region - North East Area	June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
East Hertfordshire District Council	April 2015	Variable
Essex County Council	February 2016	Variable
Hertfordshire County Council - Spatial Planning and Economy Unit	February 2016	Variable
Uttlesford District Council - Planning Department	October 2015	Variable
Planning Hazardous Substance Consents		
East Hertfordshire District Council	April 2015	Variable
Essex County Council	February 2016	Variable
Hertfordshire County Council - Spatial Planning and Economy Unit	February 2016	Variable
Uttlesford District Council - Planning Department	October 2015	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry		
British Geological Survey - National Geoscience Information Service	December 2015	Annually
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	May 2021	Bi-Annually
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	As notified
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability		
Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain		
British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	July 2021	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2021	Quarterly
Gas Pipelines National Grid	May 2021	Annually
Points of Interest - Commercial Services PointX	September 2021	Quarterly
Points of Interest - Education and Health PointX	September 2021	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2021	Quarterly
Points of Interest - Public Infrastructure PointX	September 2021	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2021	Quarterly
Underground Electrical Cables National Grid	May 2021	Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	February 2021	Bi-Annually
Areas of Adopted Green Belt		
East Hertfordshire District Council	October 2020	Quarterly
Uttlesford District Council	October 2020	Quarterly
Areas of Unadopted Green Belt		
East Hertfordshire District Council	October 2020	Quarterly
Uttlesford District Council	October 2020	Quarterly
Areas of Outstanding Natural Beauty		
Natural England	January 2021	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	February 2021	Bi-Annually
Marine Nature Reserves		
Natural England	July 2019	Bi-Annually
National Nature Reserves		
Natural England	January 2021	Bi-Annually
National Parks		
Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas		
Natural England	April 2016	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	
Environment Agency - Head Office	June 2017	Bi-Annually
Ramsar Sites		
Natural England	August 2020	Bi-Annually
Sites of Special Scientific Interest		
Natural England	February 2021	Bi-Annually
Special Areas of Conservation		
Natural England	July 2020	Bi-Annually
Special Protection Areas		
Natural England	February 2021	Bi-Annually

Data Suppliers

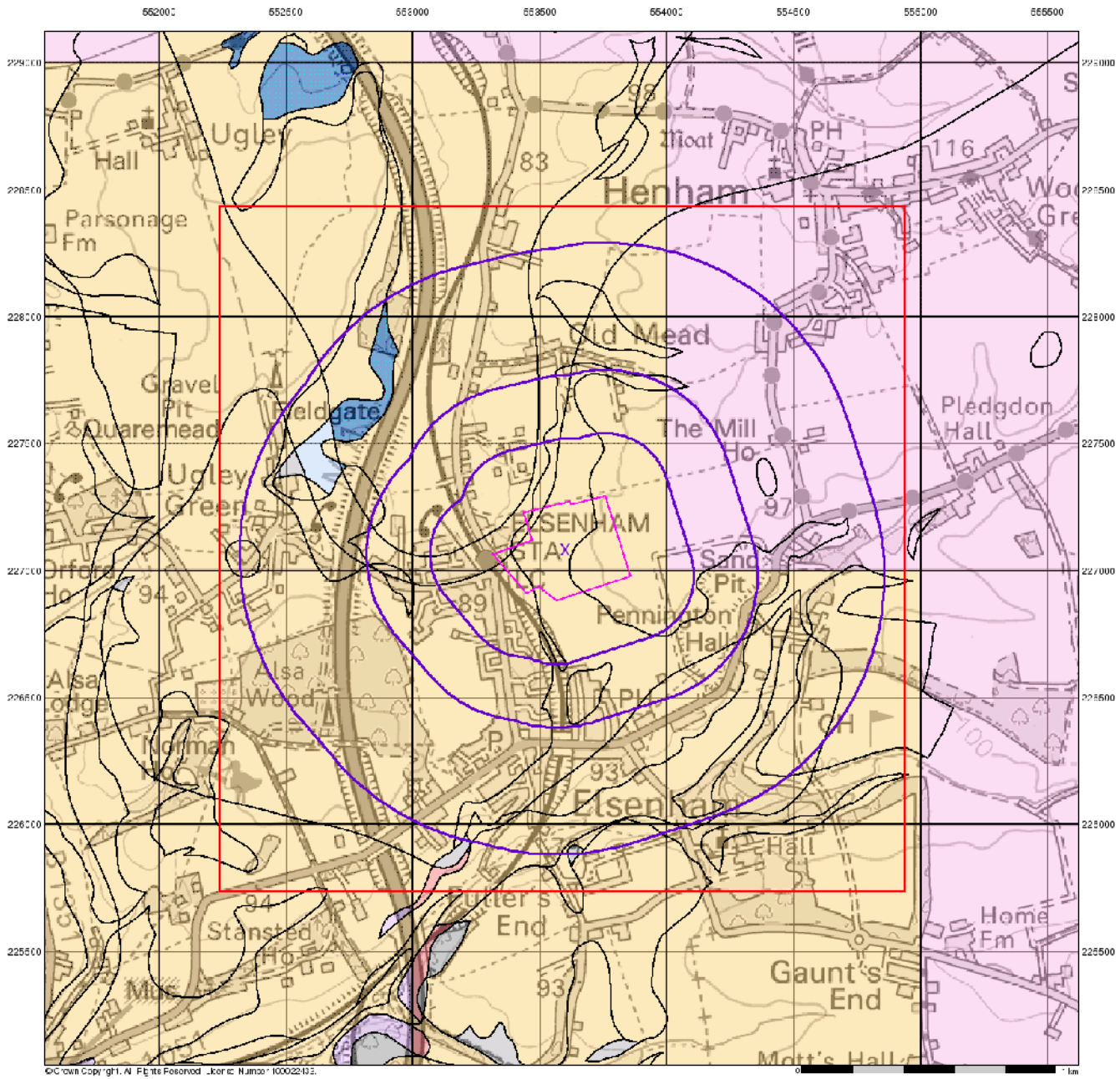
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	**Uttlesford District Council - Environmental Health Department** Council Offices, London Road, Saffron Walden, Essex, CB11 4ER	Telephone: 01799 510581 Fax: 01799 510499 Website: www.uttlesford.gov.uk
6	**Essex County Council** County Hall, Chelmsford, Essex, CM1 1YS	Telephone: 01245 492211 Website: www.essexcc.gov.uk
7	**Stantec UK Ltd** Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
8	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	**Uttlesford District Council** Council Offices, London Road, Dunmow, Saffron Walden, Essex, CB11 4ER	Telephone: 01799 510580 Fax: 01799 510499 Website: www.uttlesford.gov.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



Groundwater Vulnerability

General

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

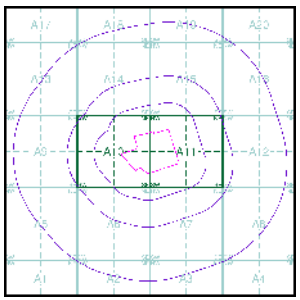
Agency and Hydrological

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



Order Details

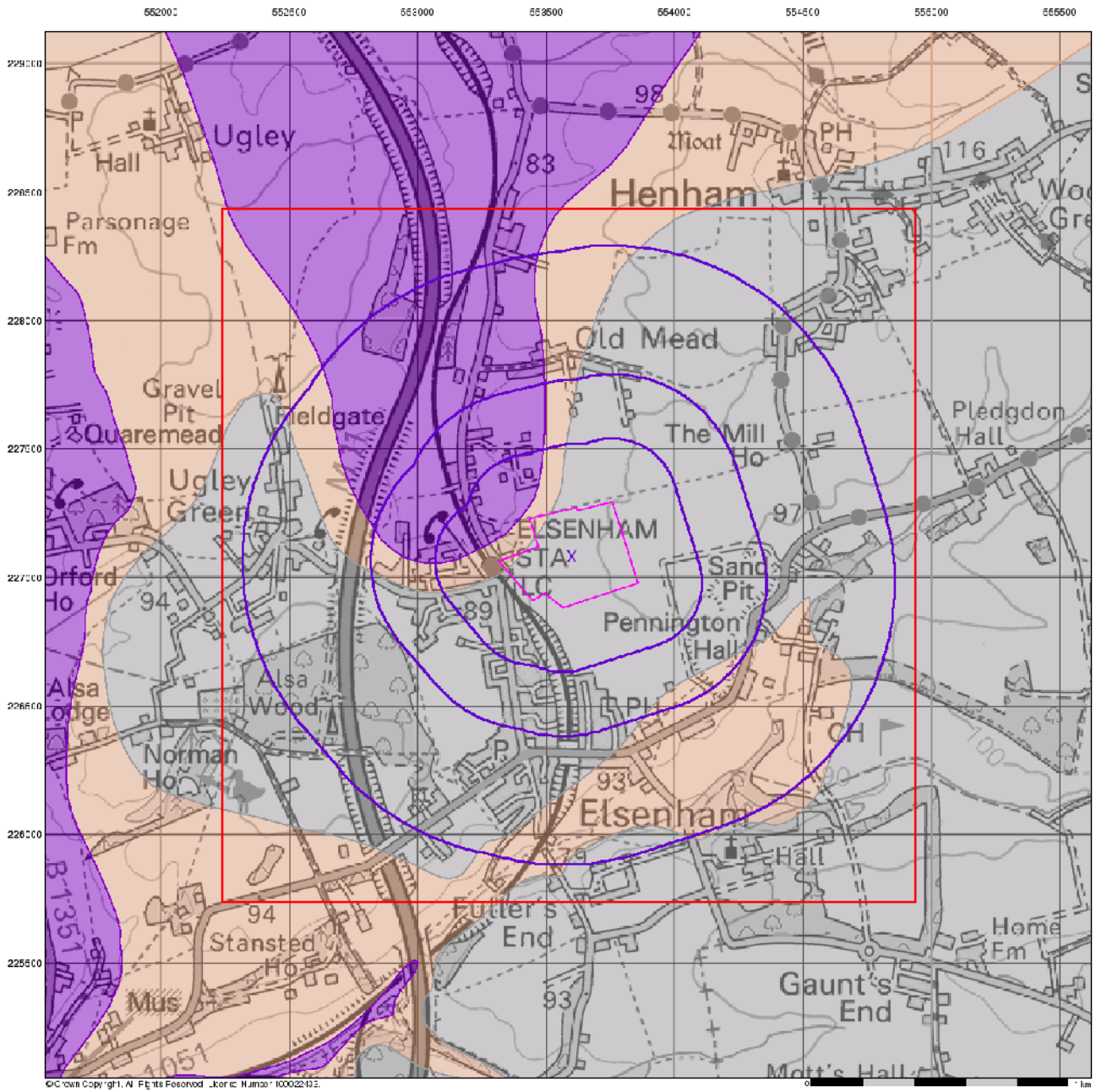
Order Number:	285338568_1_1
Customer Ref:	70084697-301
National Grid Reference:	553600, 227080
Slice:	A
Site Area (Ha):	13.74
Search Buffer (m):	1000

Site Details

Homebrands Ltd, Old Mead Road, ELSENHAM, CM22 6JL

Landmark INFORMATION GROUP

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



Bedrock Aquifer Designation

General

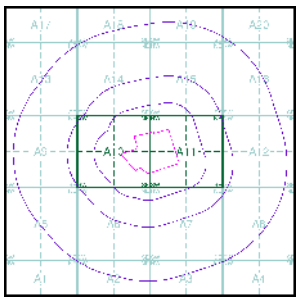
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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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National Grid Reference:	553600, 227080
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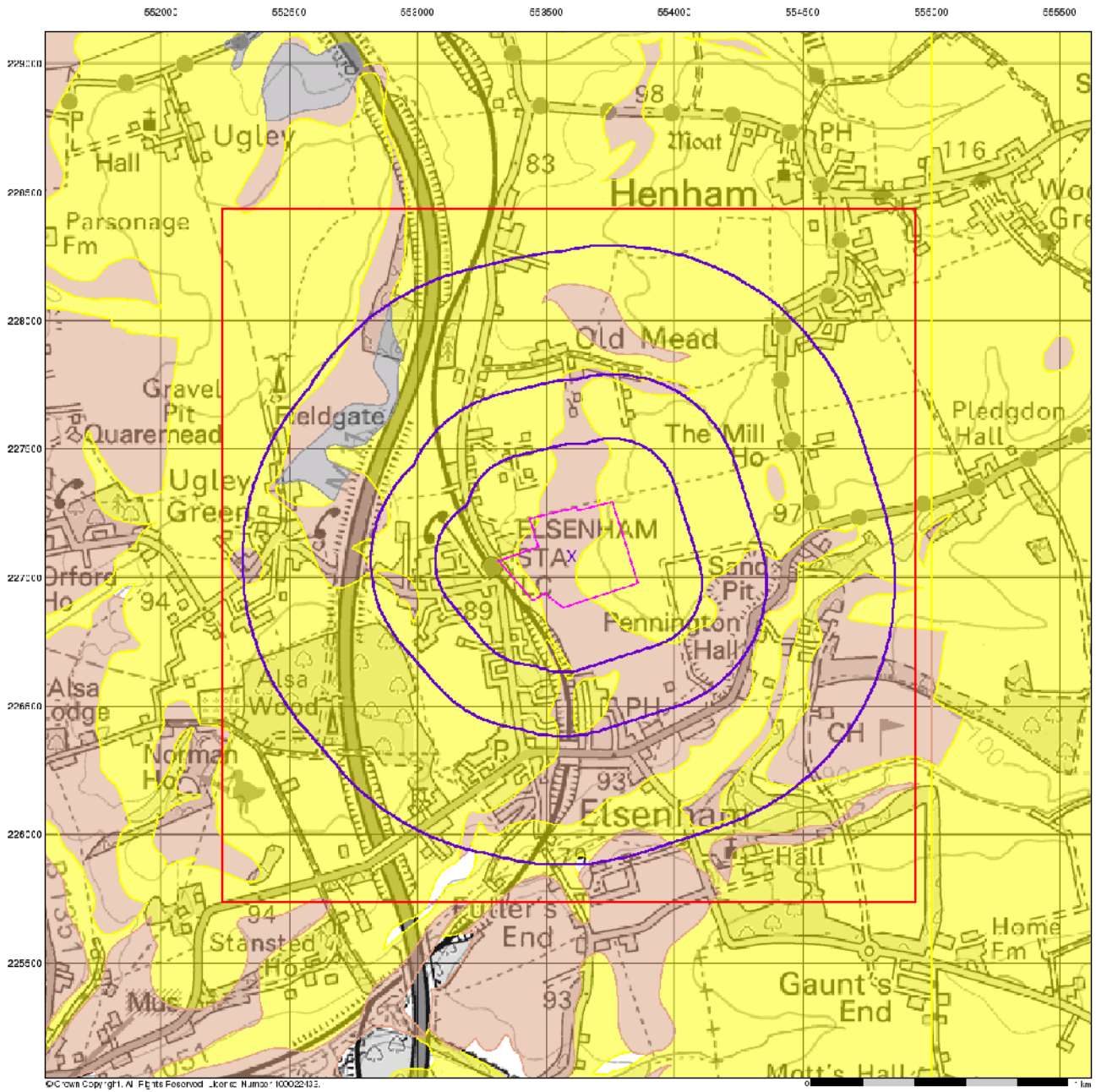
Site Area (Ha):	13.74
Search Buffer (m):	1000

Site Details

Homebrands Ltd, Old Mead Road, ELSENHAM, CM22 6JL



Superficial Aquifer Designation

General

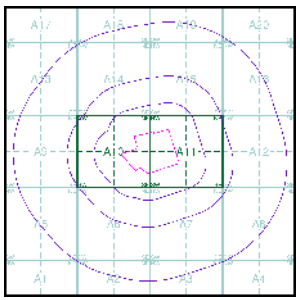
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

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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Customer Ref:	70084697-301
National Grid Reference:	553600, 227080
Slice:	A
Site Area (Ha):	13.74
Search Buffer (m):	1000

Site Details

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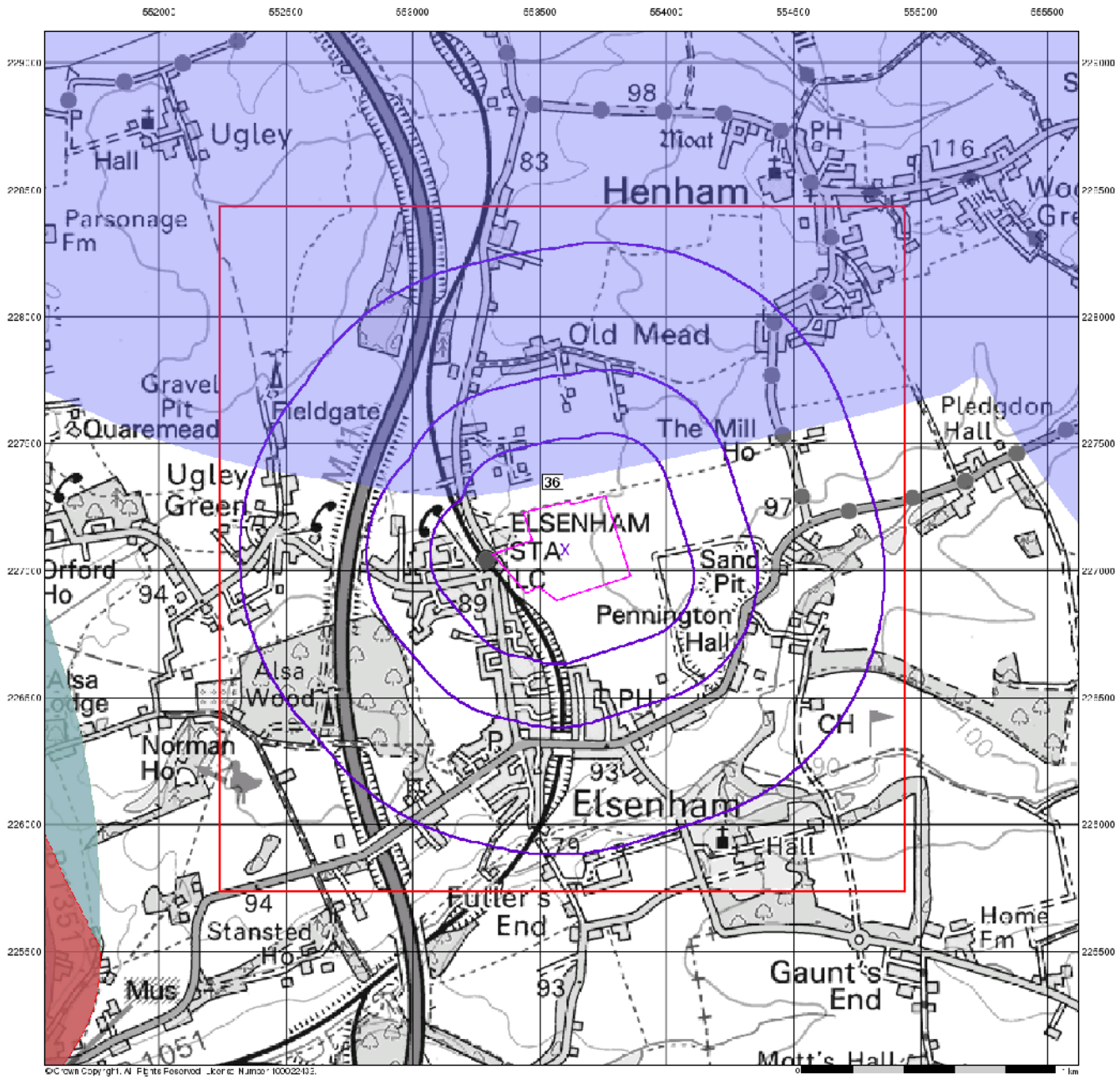


Source Protection Zones

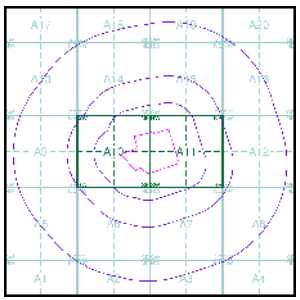
General

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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Customer Ref:	70084697-301
National Grid Reference:	553600, 227080
Slice:	A
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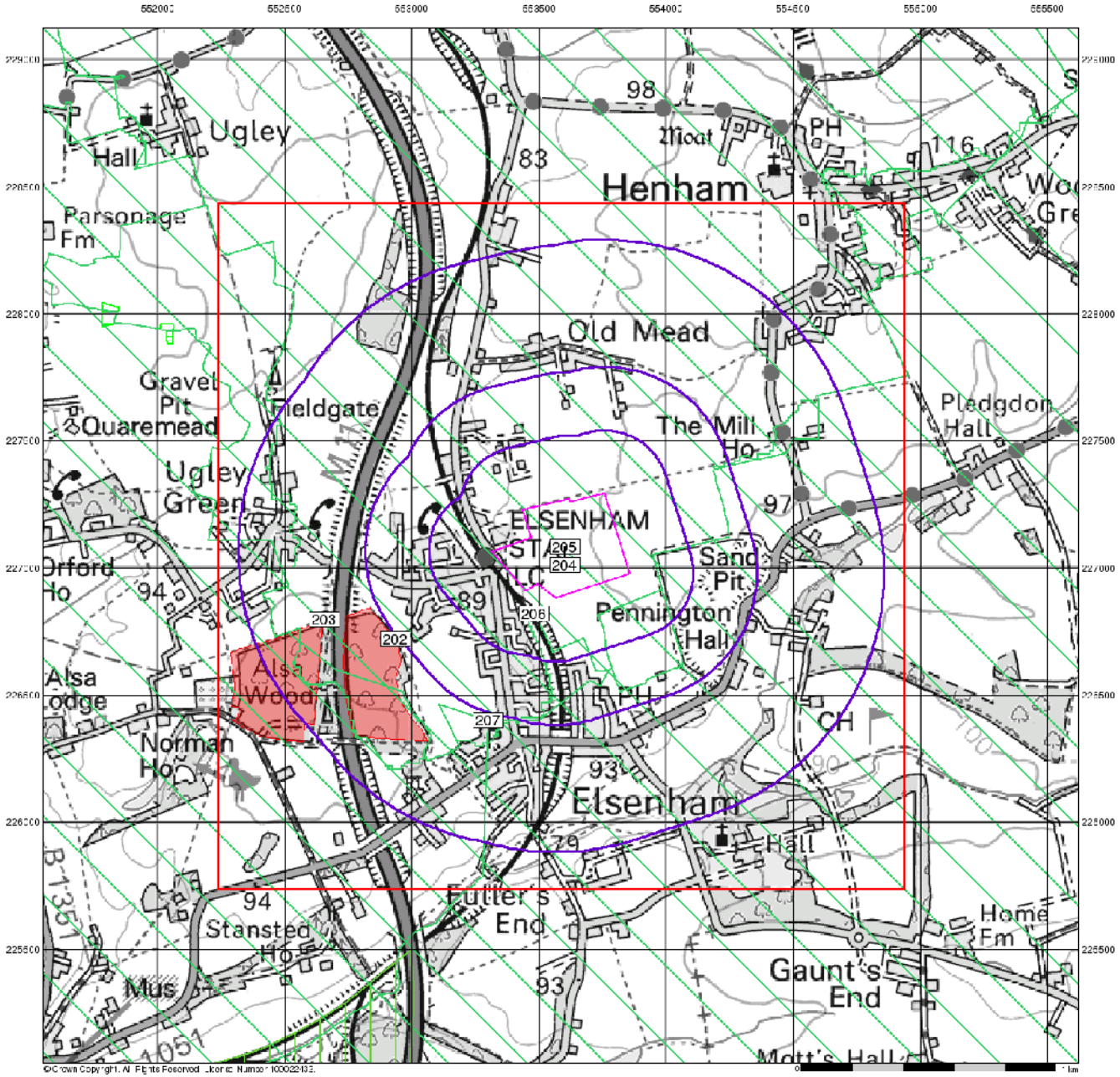
Search Buffer (m):	1000

Site Details

Homebrands Ltd, Old Mead Road, ELSENHAM, CM22 6JL

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



Sensitive Land Uses

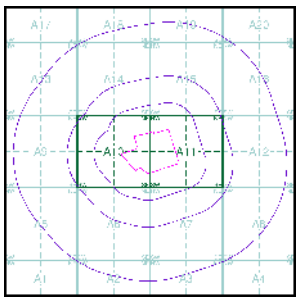
General

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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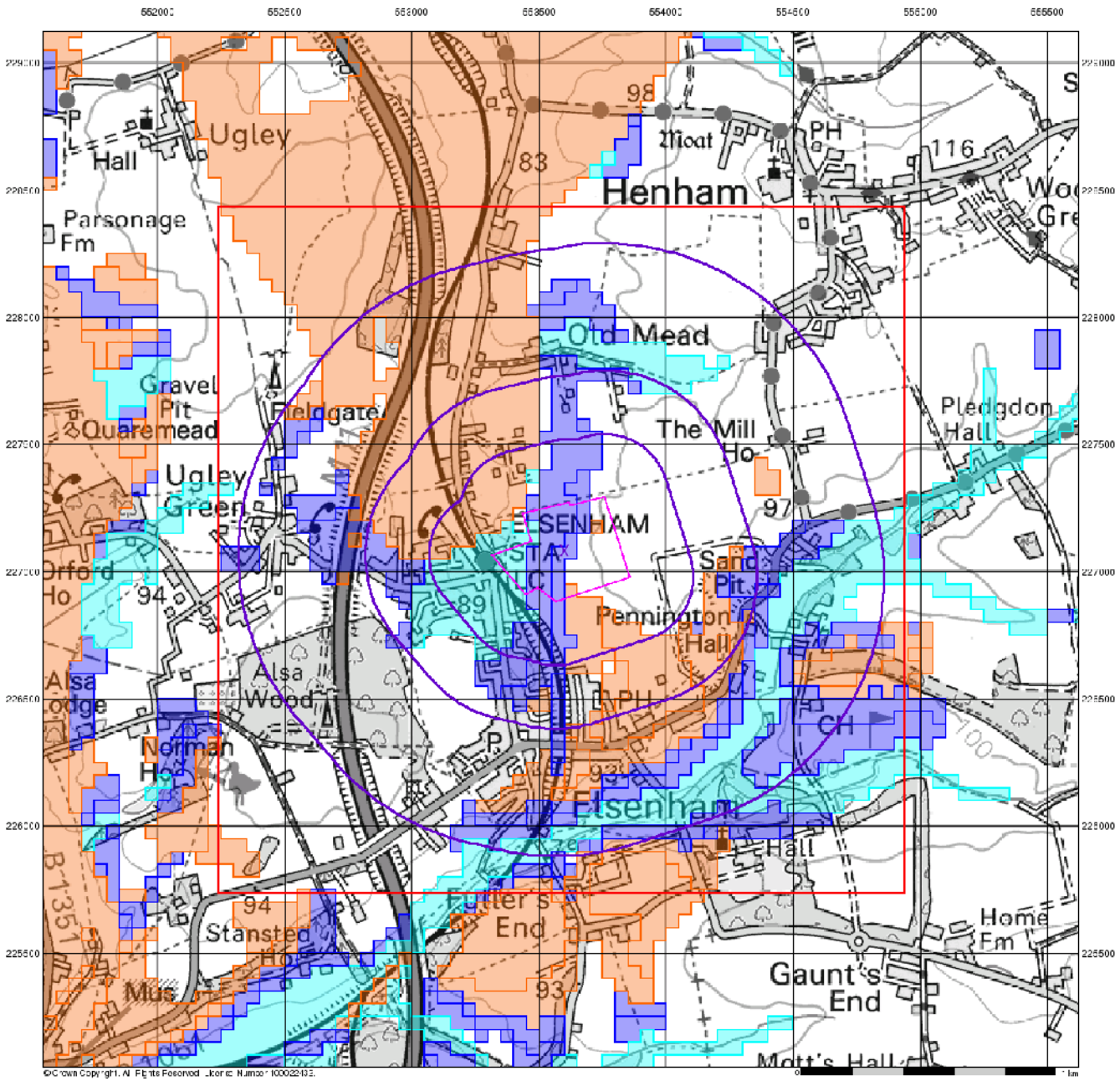


BGS Flood GFS Data

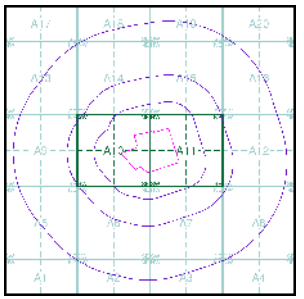
General

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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National Grid Reference:	553600, 227080
Slice:	A
Site Area (Ha):	13.74
Search Buffer (m):	1000

Site Details

Homebrands Ltd, Old Mead Road, ELSENHAM, CM22 6JL

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

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

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	LOFT	Lowestoft Formation	Diamicton	Not Supplied - Anglian
	GFDMP	Glaciofluvial Deposits, Mid Pleistocene	Sand and Gravel	Not Supplied - Cromerian
	GLLMP	Glaciolacustrine Deposits, Mid Pleistocene	Clay and Silt	Not Supplied - Cromerian
	KGCA	Kesgrave Catchment Subgroup	Sand and Gravel	Not Supplied - Pleistocene
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LC	London Clay Formation	Clay, Silt and Sand	Not Supplied - Ypresian
	TALM	Thanet Formation And Lambeth Group (Undifferentiated)	Clay, Silt and Sand	Not Supplied - Paleocene
	LESE	Lewes Nodular Chalk Formation and Seaford Chalk Formation (Undifferentiated)	Chalk	Not Supplied - Turonian

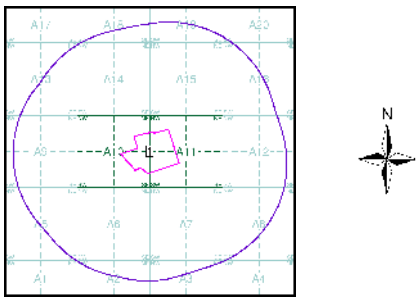
Geology 1:50,000 Maps

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:	**222**
Map Name:	**Great Dunmow**
Map Date:	**1990**
Bedrock Geology:	**Available**
Superficial Geology:	**Available**
Artificial Geology:	**Available**
Faults:	**Not Supplied**
Landslip:	**Not Available**
Rock Segments:	**Not Supplied**

Geology 1:50,000 Maps - Slice A

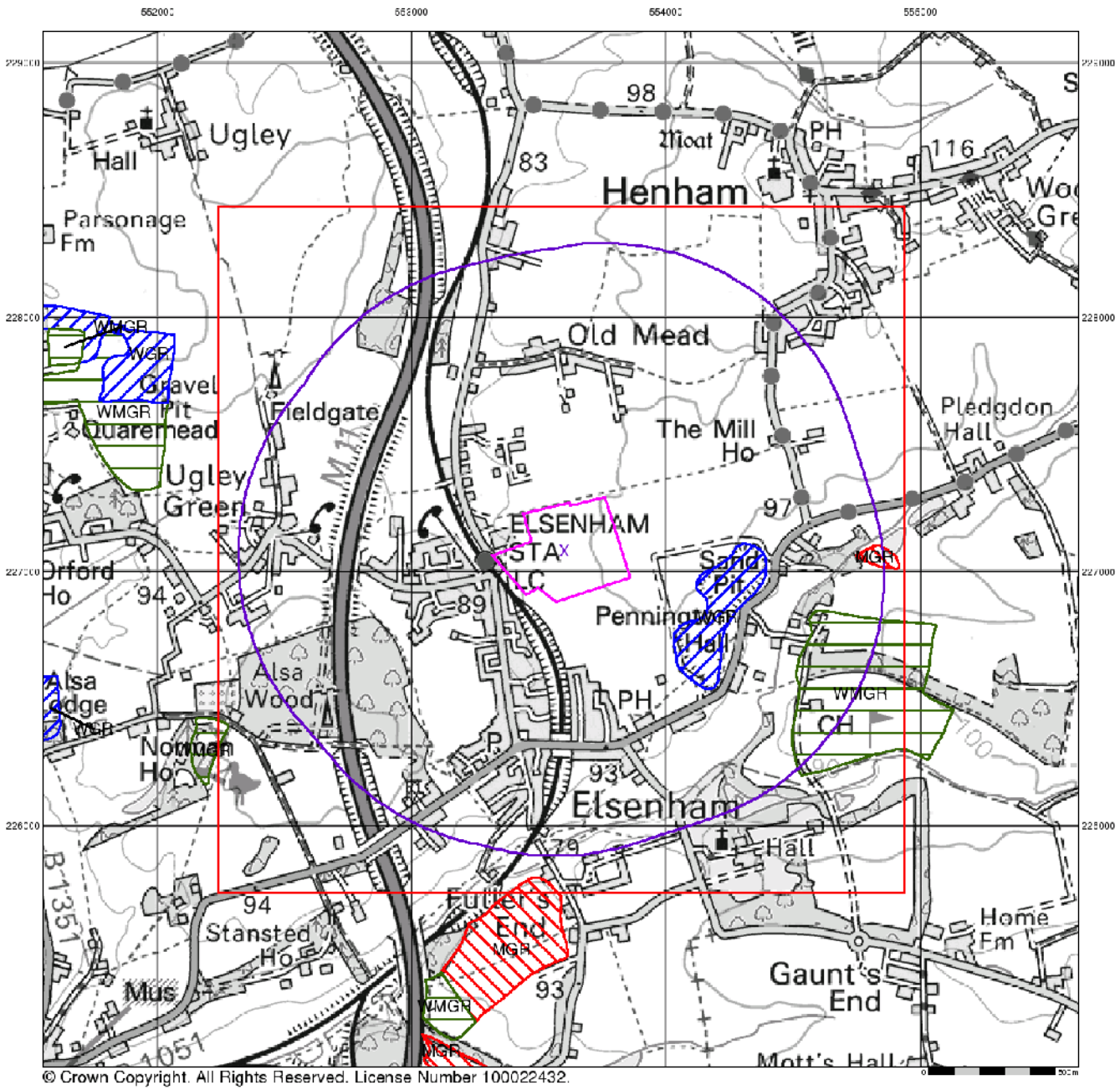


Order Details:

Order Number:	285338568_1_1
Customer Reference:	70084697-301
National Grid Reference:	553600, 227080
Slice:	A
Site Area (Ha):	13.74
Search Buffer (m):	1000

Site Details:

Homebrands Ltd, Old Mead Road, ELSENHAM, CM22 6JL



Artificial Ground and Landslip

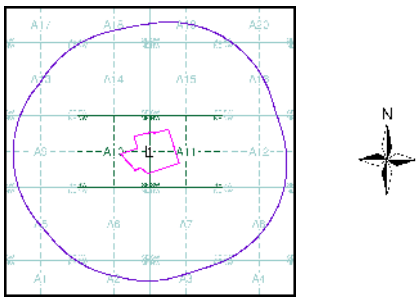
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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



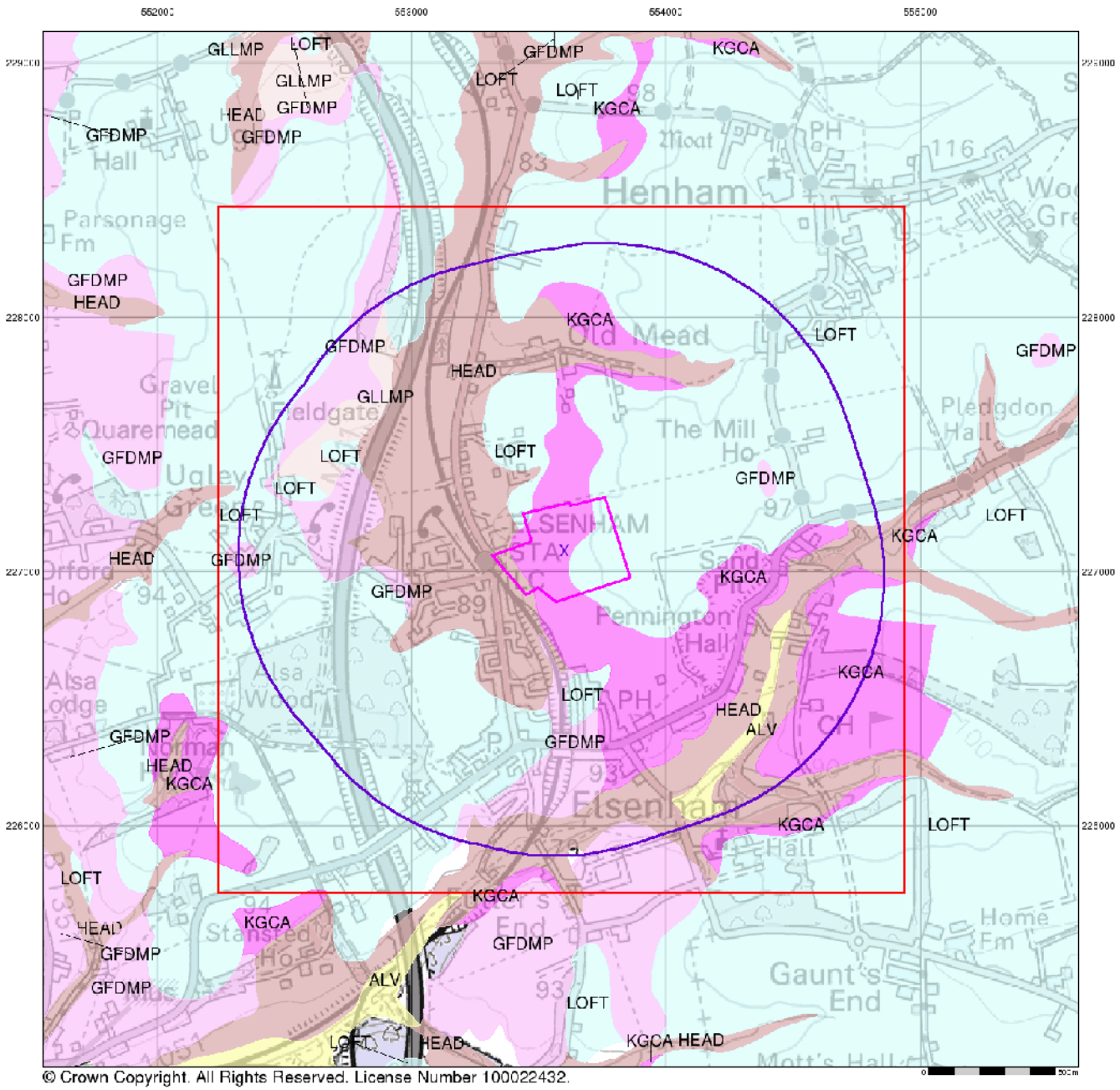
Order Details:

Order Number:	285338568_1_1
Customer Reference:	70084697-301
National Grid Reference:	553600, 227080
Slice:	A
Site Area (Ha):	13.74
Search Buffer (m):	1000

Site Details:

Homebrands Ltd, Old Mead Road, ELSENHAM, CM22 6JL

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



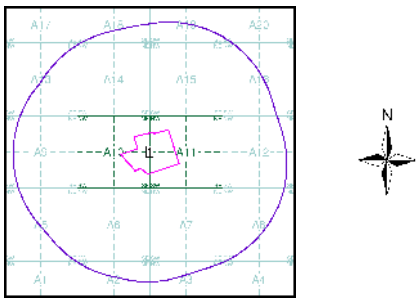
Superficial Geology

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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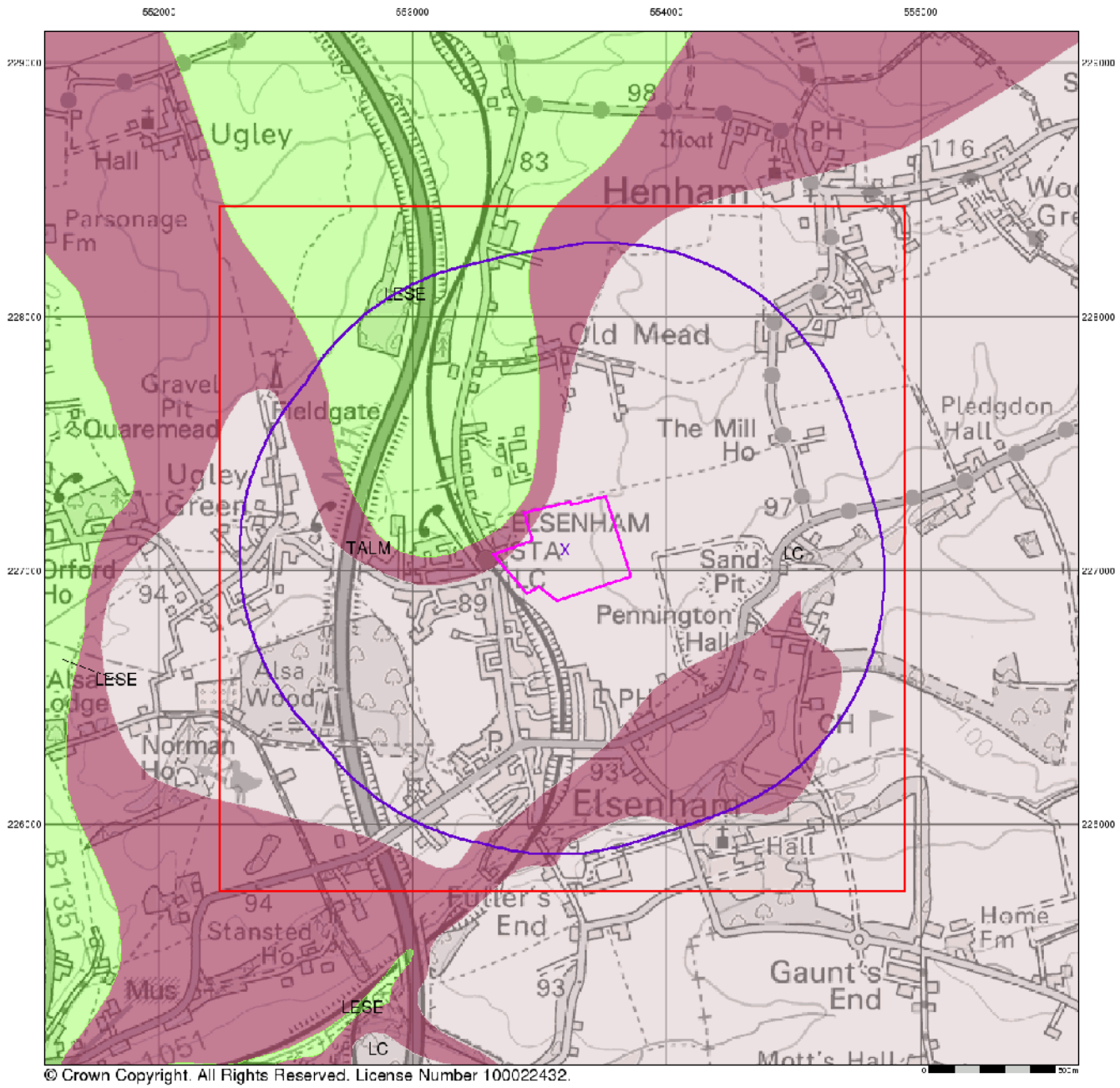


Bedrock and Faults

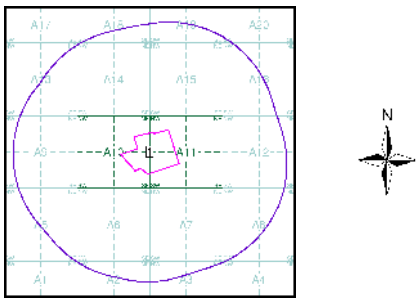
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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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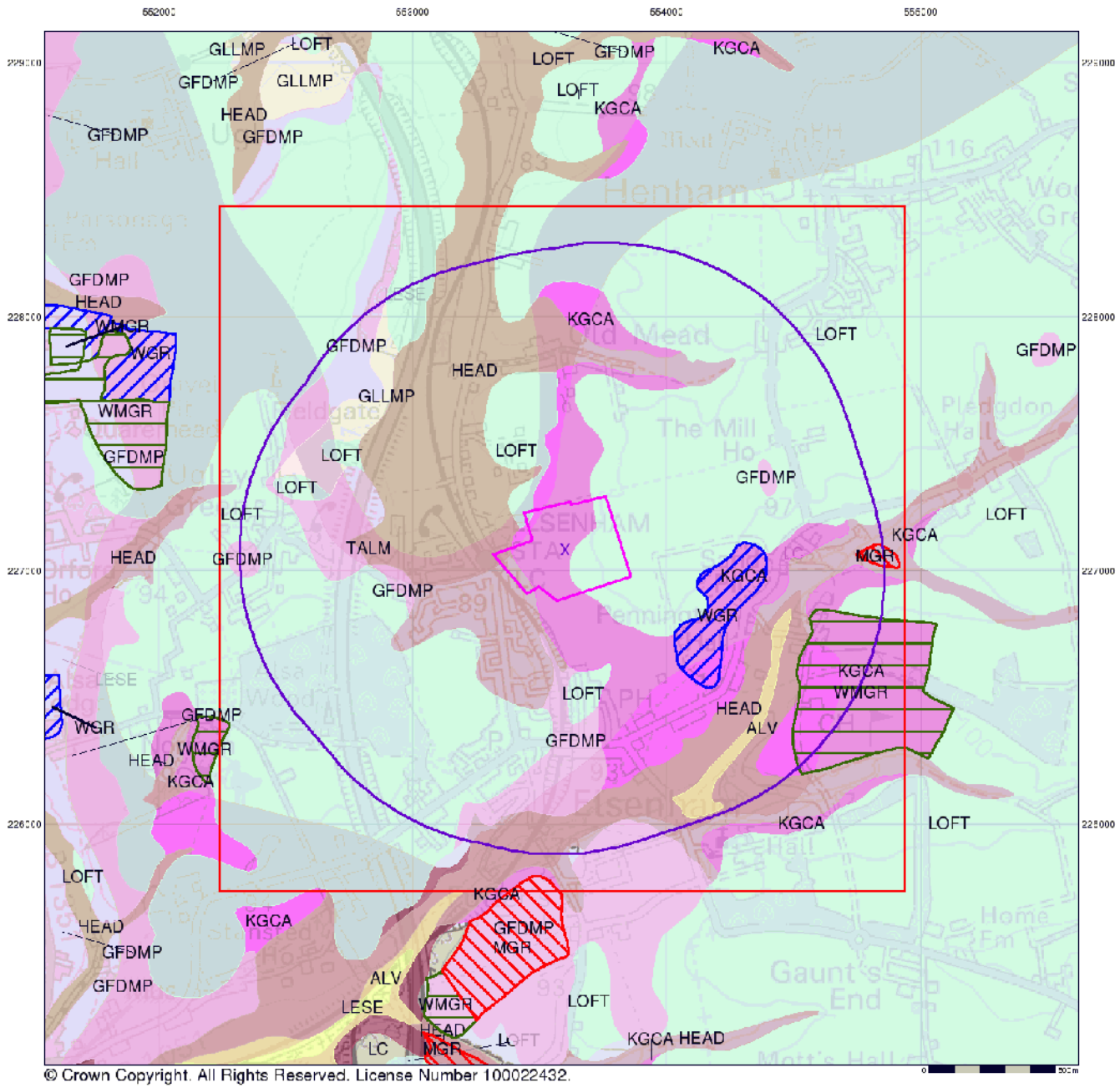


Combined Surface Geology

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.

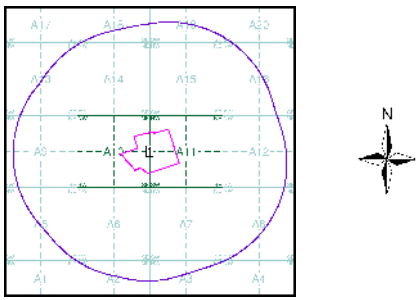
Additional Information

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



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Site Details:

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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)
R.D. 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
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
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

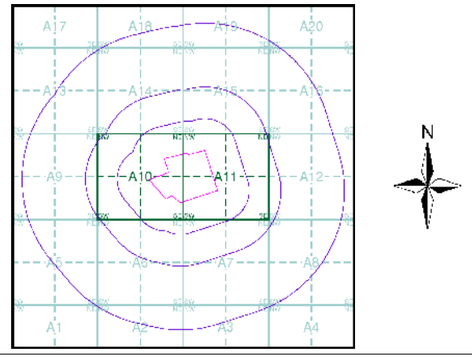
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or 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

wsp

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Essex	1:10,560	1881	2
Hertfordshire	1:10,560	1883	3
Essex	1:10,560	1898	4
Essex	1:10,560	1923	5
Essex	1:10,560	1951	6
Ordnance Survey Plan	1:10,000	1960	7
Ordnance Survey Plan	1:10,000	1966	8
Ordnance Survey Plan	1:10,000	1983	9
Ordnance Survey Plan	1:10,000	1994	10
10K Raster Mapping	1:10,000	1999	11
10K Raster Mapping	1:10,000	2006	12
VectorMap Local	1:10,000	2021	13

Historical Map - Slice A



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Site Details

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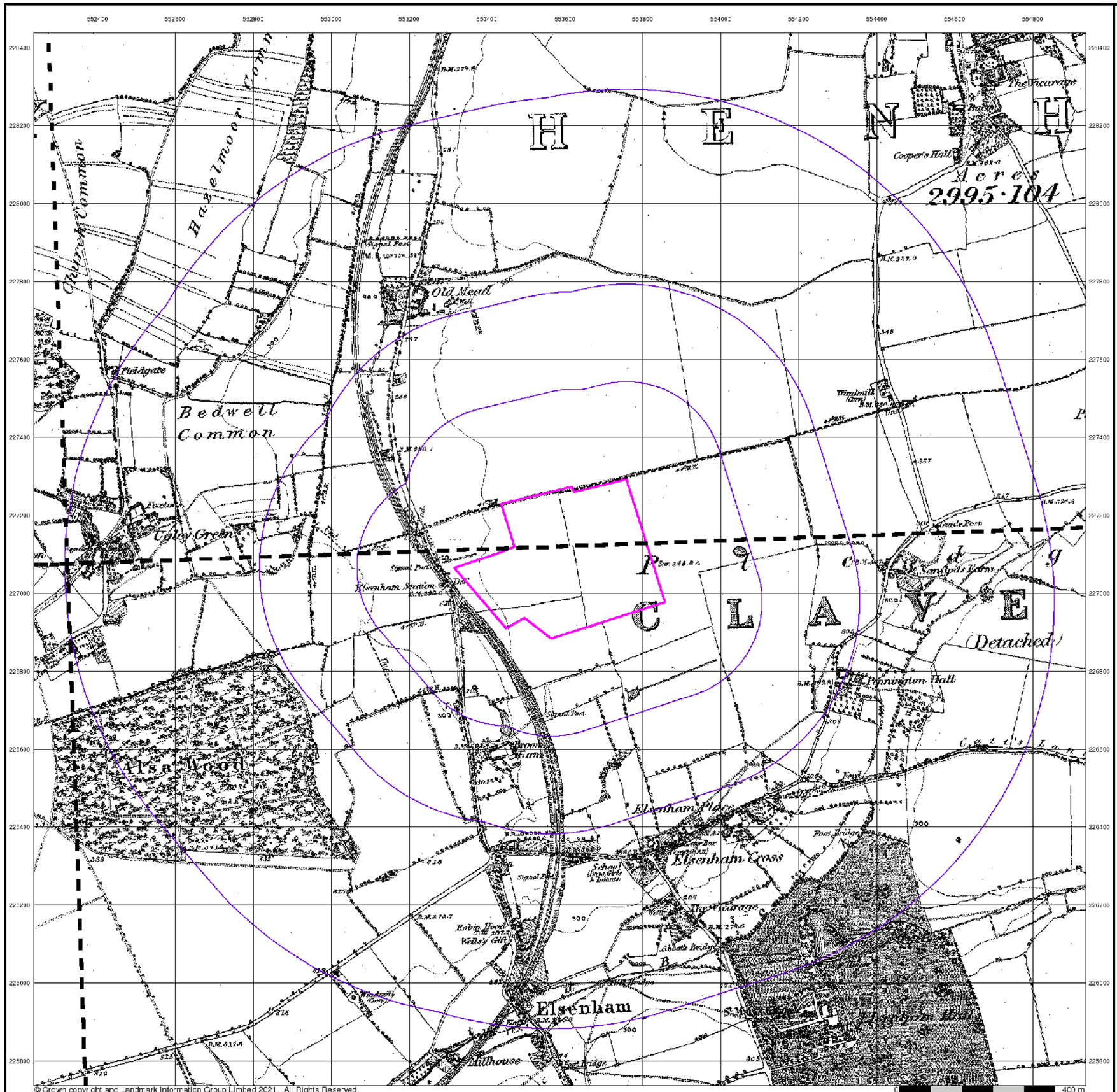

wsp

Essex

Published 1881

Source map scale - 1:10,560

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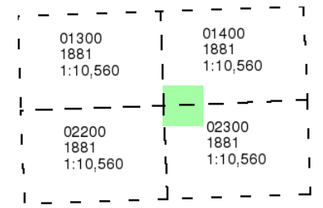
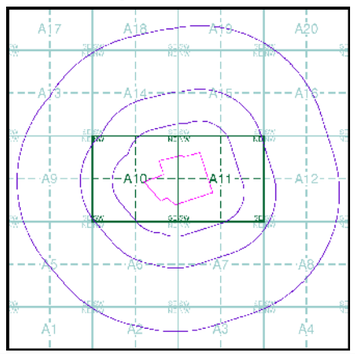
Map Name(s) and Date(s)



Historical Map - Slice A



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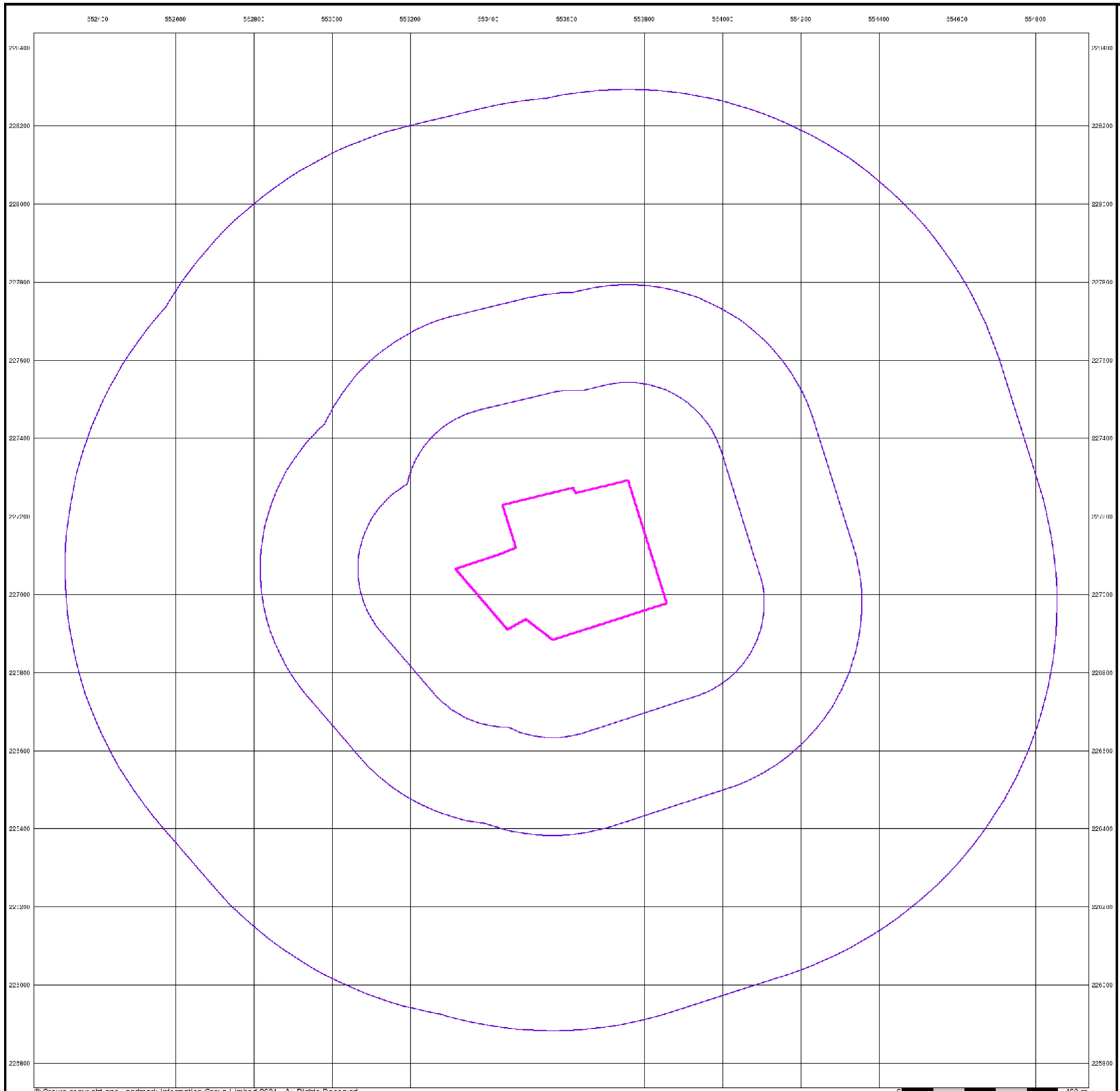

Hertfordshire

Published 1883

Source map scale - 1:10,560

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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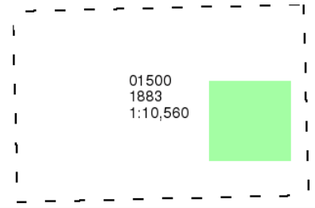
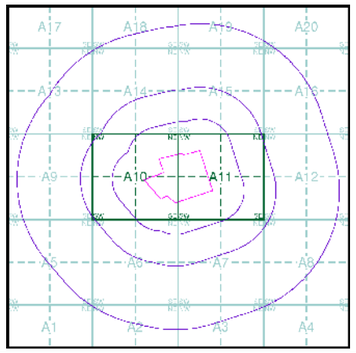


Historical Map - Slice A



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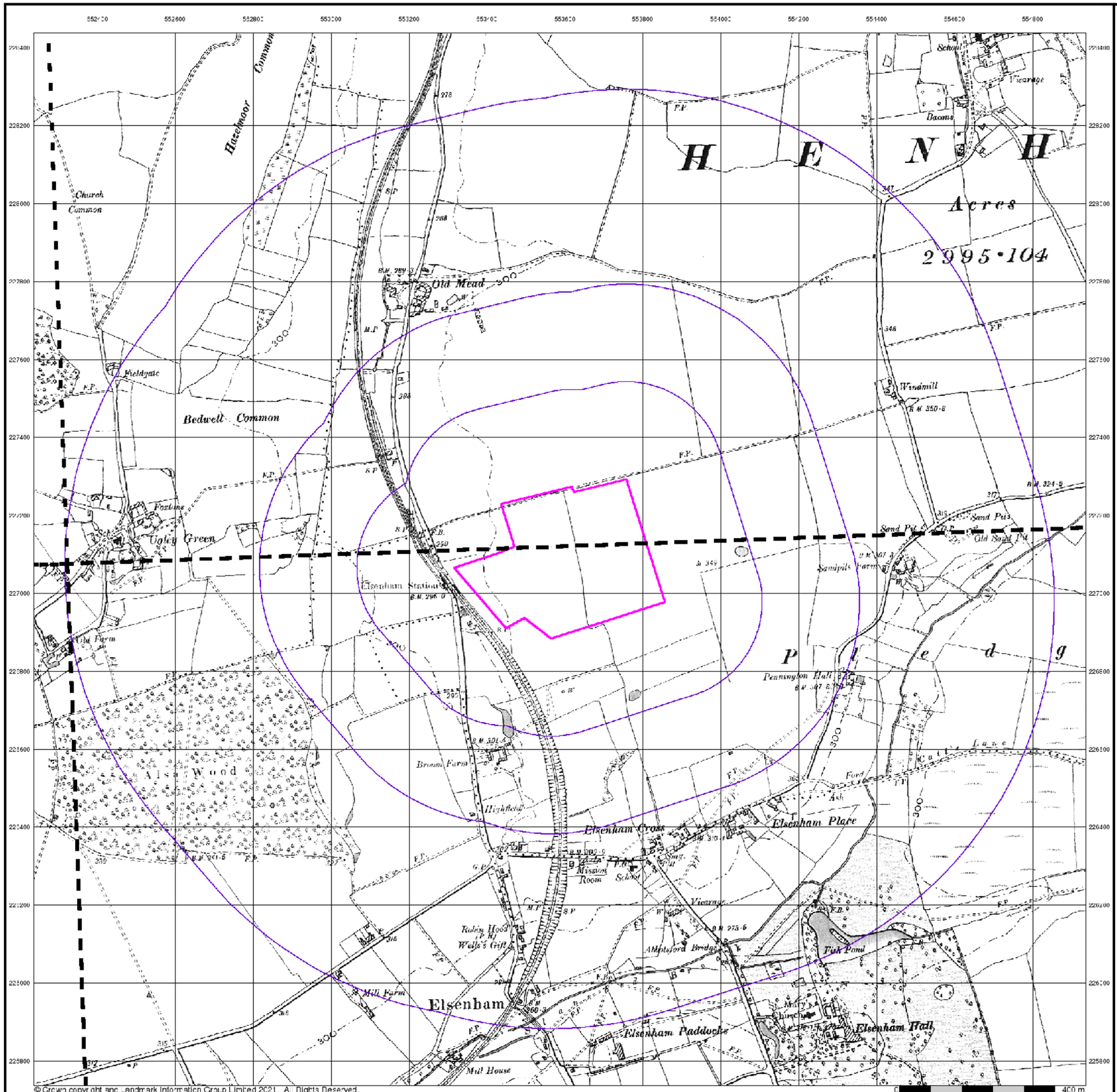

wsp

Essex

Published 1898

Source map scale - 1:10,560

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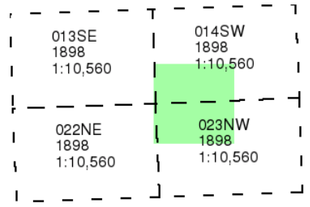
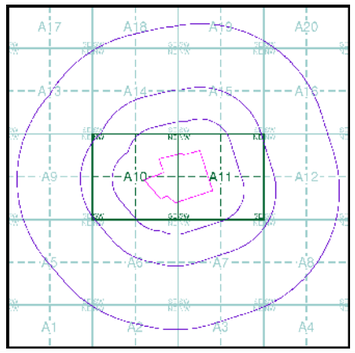


Historical Map - Slice A



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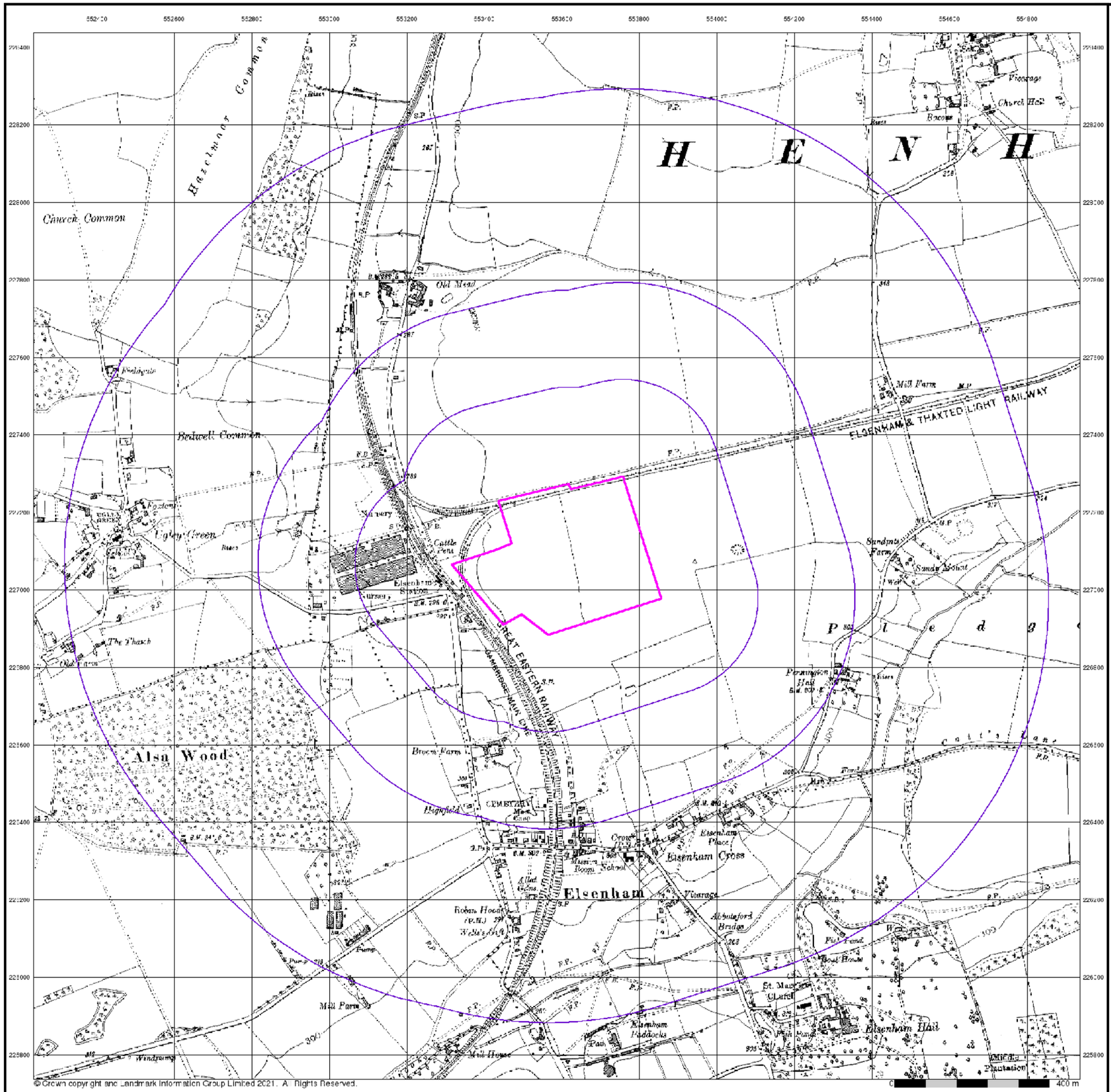

wsp

Essex

Published 1923

Source map scale - 1:10,560

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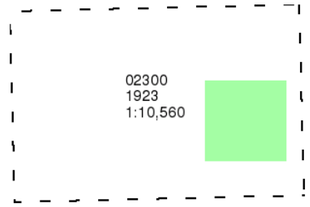
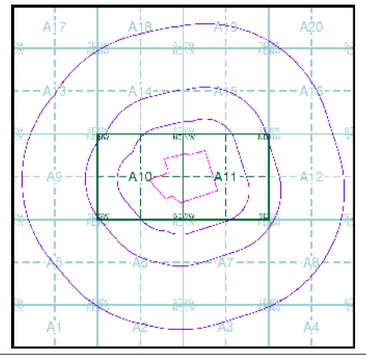


Historical Map - Slice A



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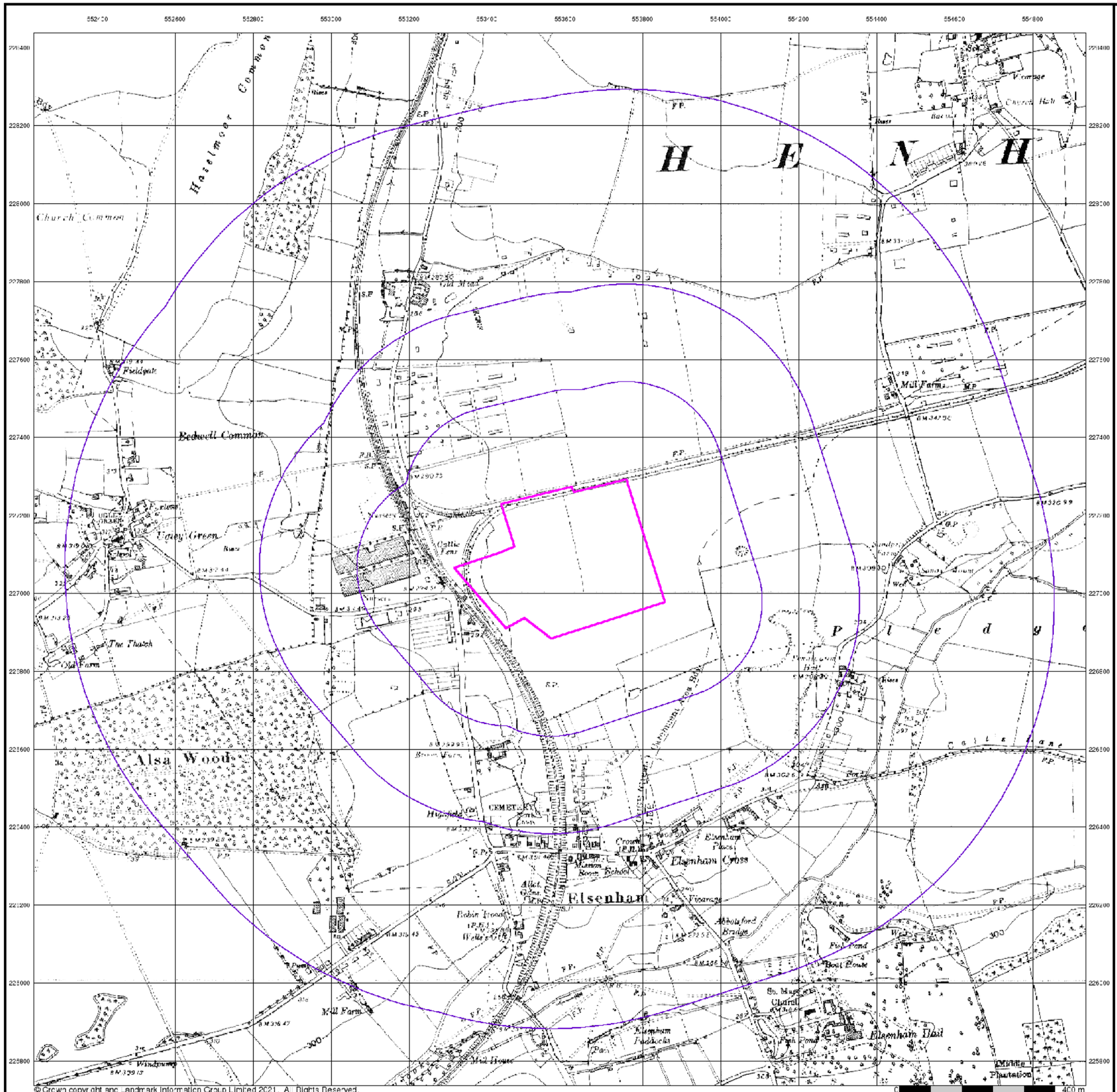

Essex

Published 1951

Source map scale - 1:10,560

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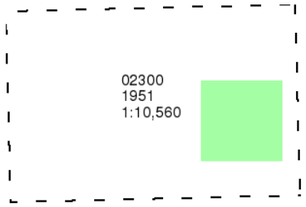
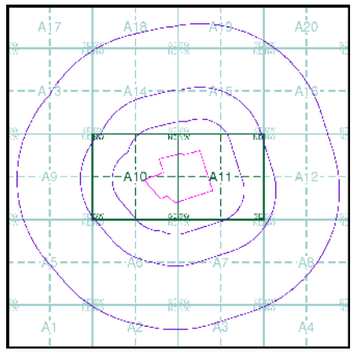


Historical Map - Slice A



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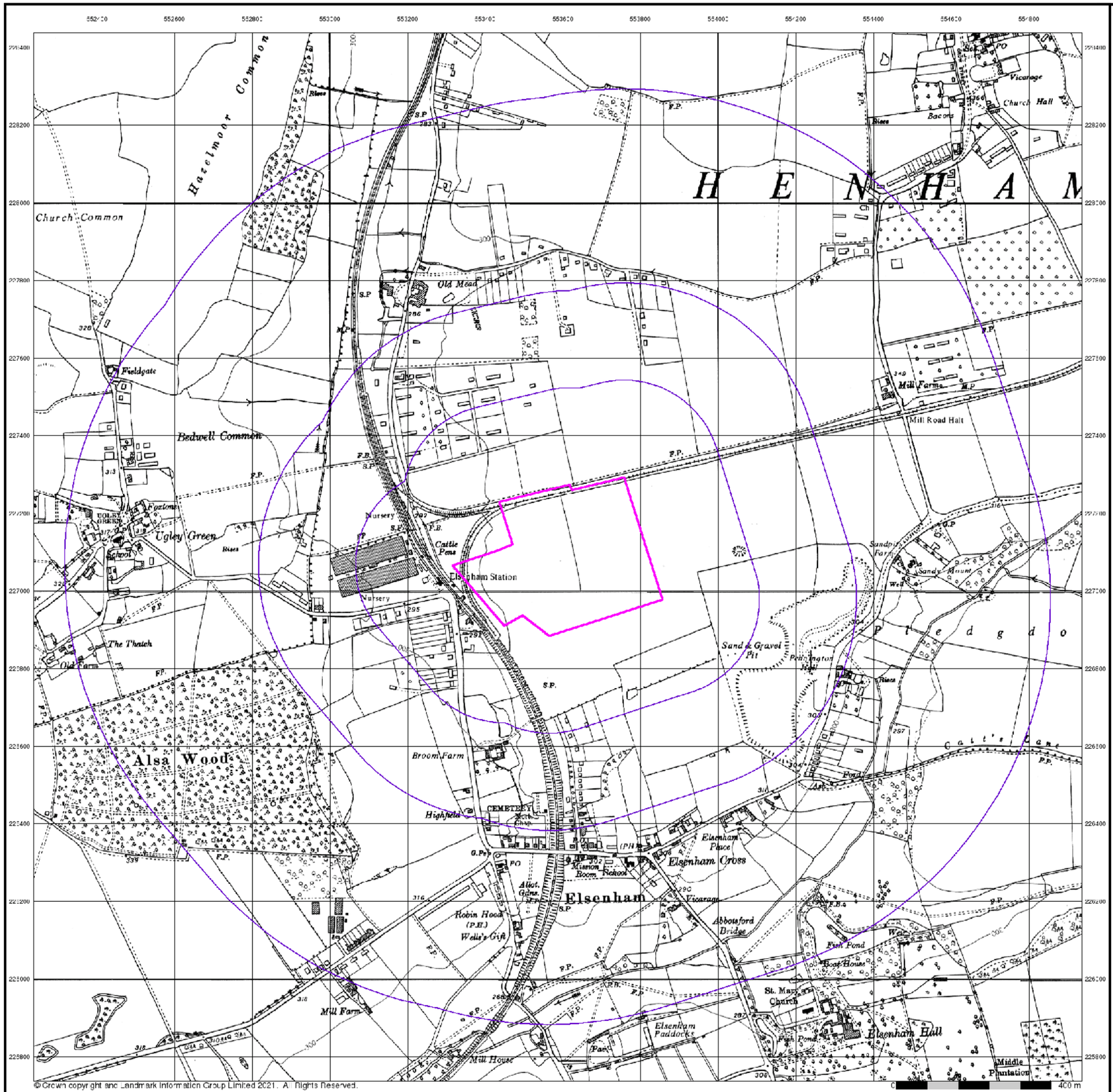

wsp

Ordnance Survey Plan

Published 1960

Source map scale - 1:10,000

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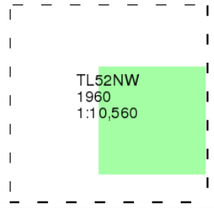
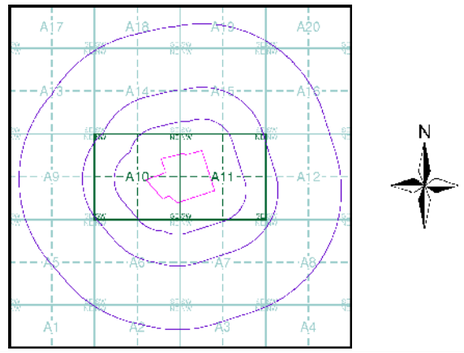


Historical Map - Slice A



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Site Area (Ha):	13.74
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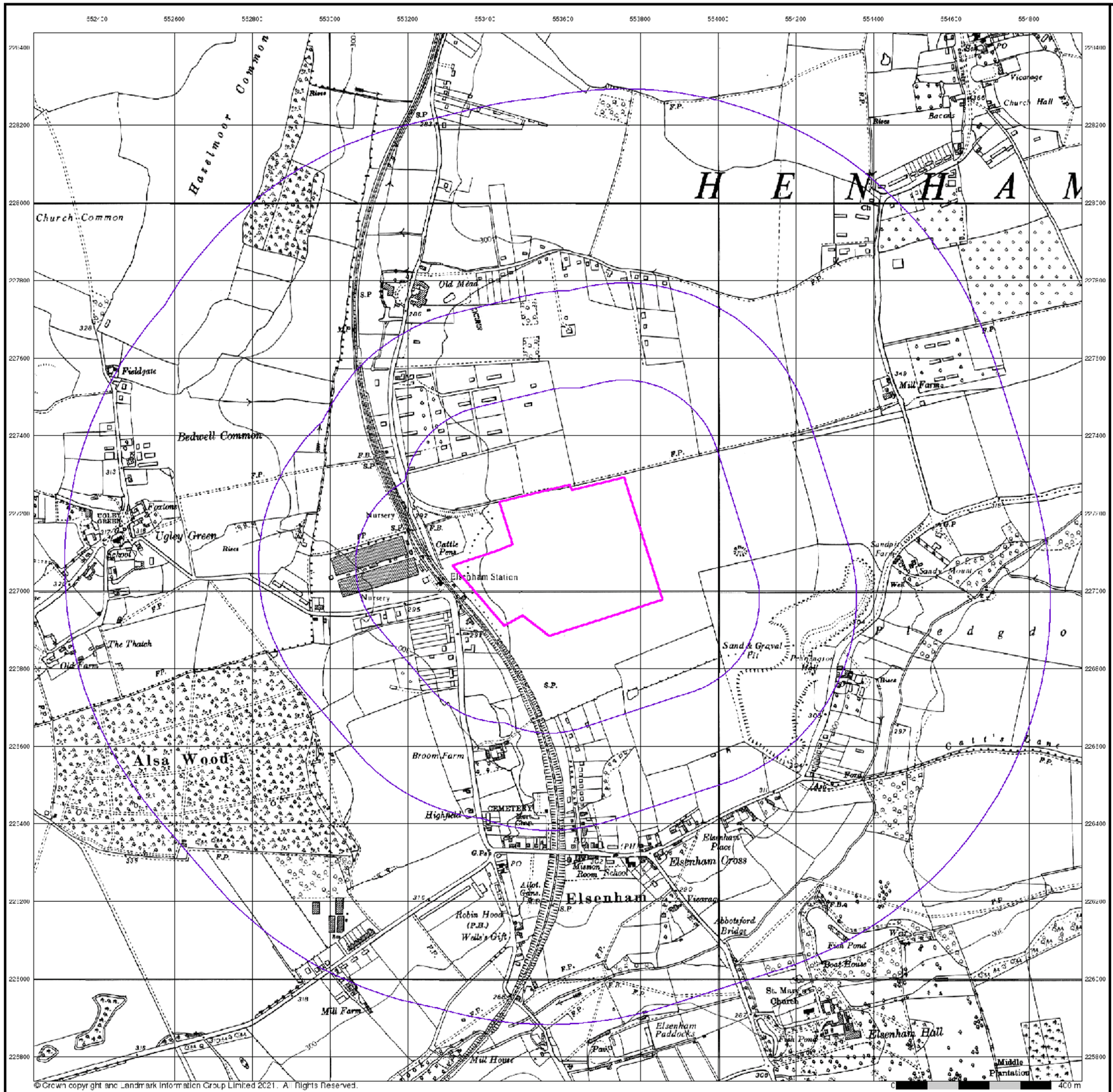
Site Details

Homebrands Ltd, Old Mead Road, ELSENHAM, CM22 6JL

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



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Ordnance Survey Plan

Published 1966

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:	285338568_1_1
Customer Ref:	70084697-301
National Grid Reference:	553600, 227080
Slice:	A
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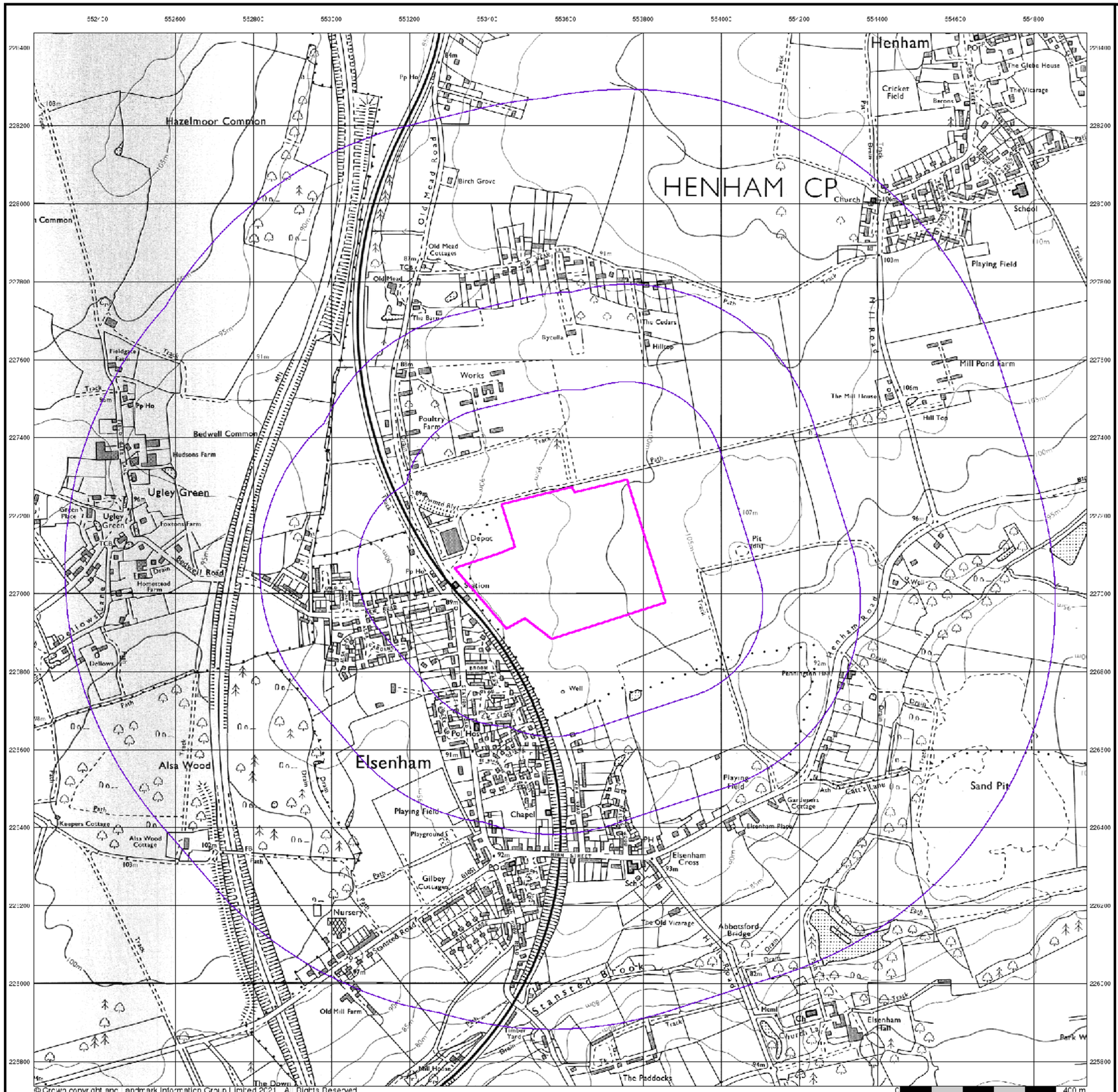

wsp

Ordnance Survey Plan

Published 1983

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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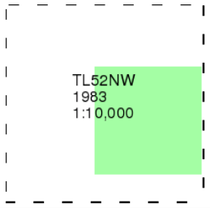
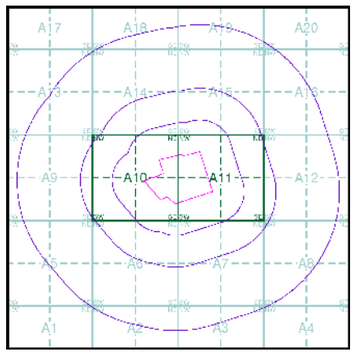


Historical Map - Slice A



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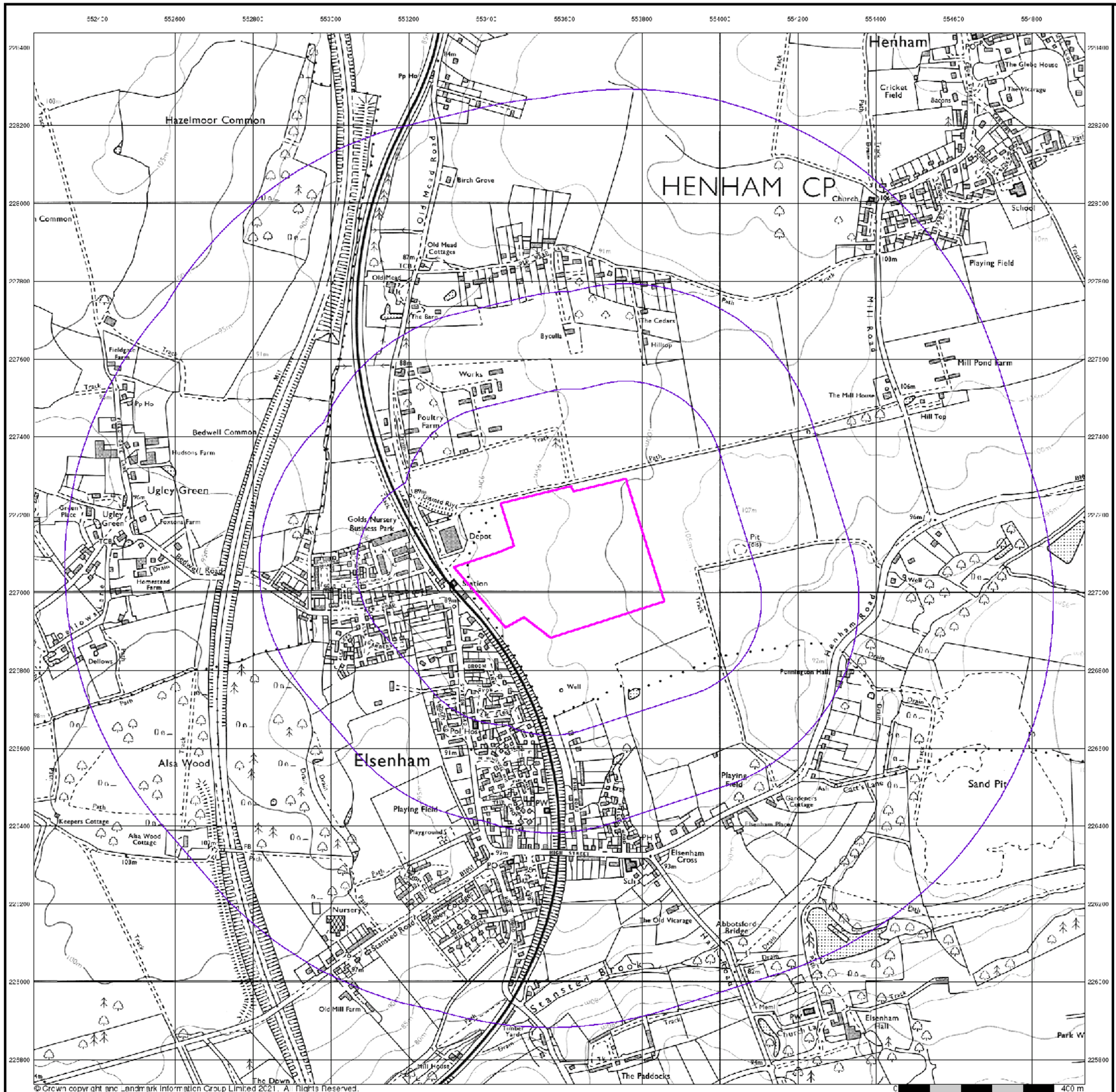

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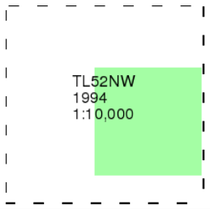
Ordnance Survey Plan

Published 1994

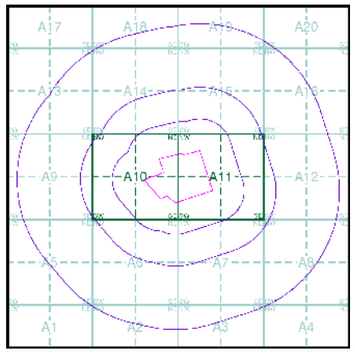
Source map scale - 1:10,000

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



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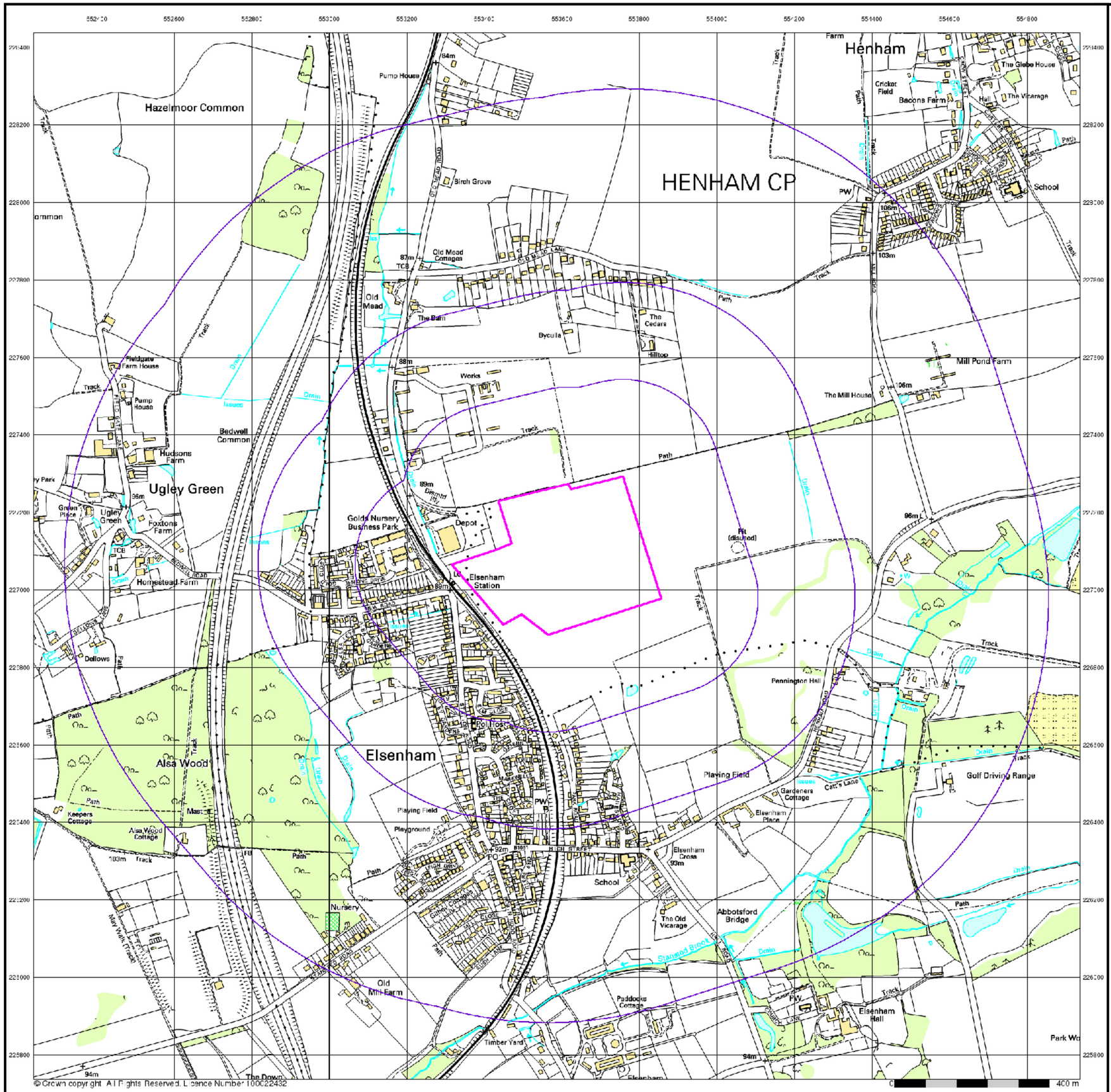


wsp

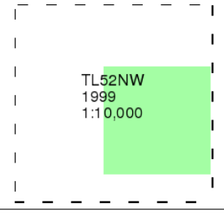
10k Raster Mapping

Published 1999

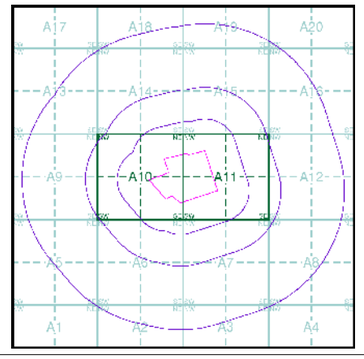
Source map scale - 1:10,000

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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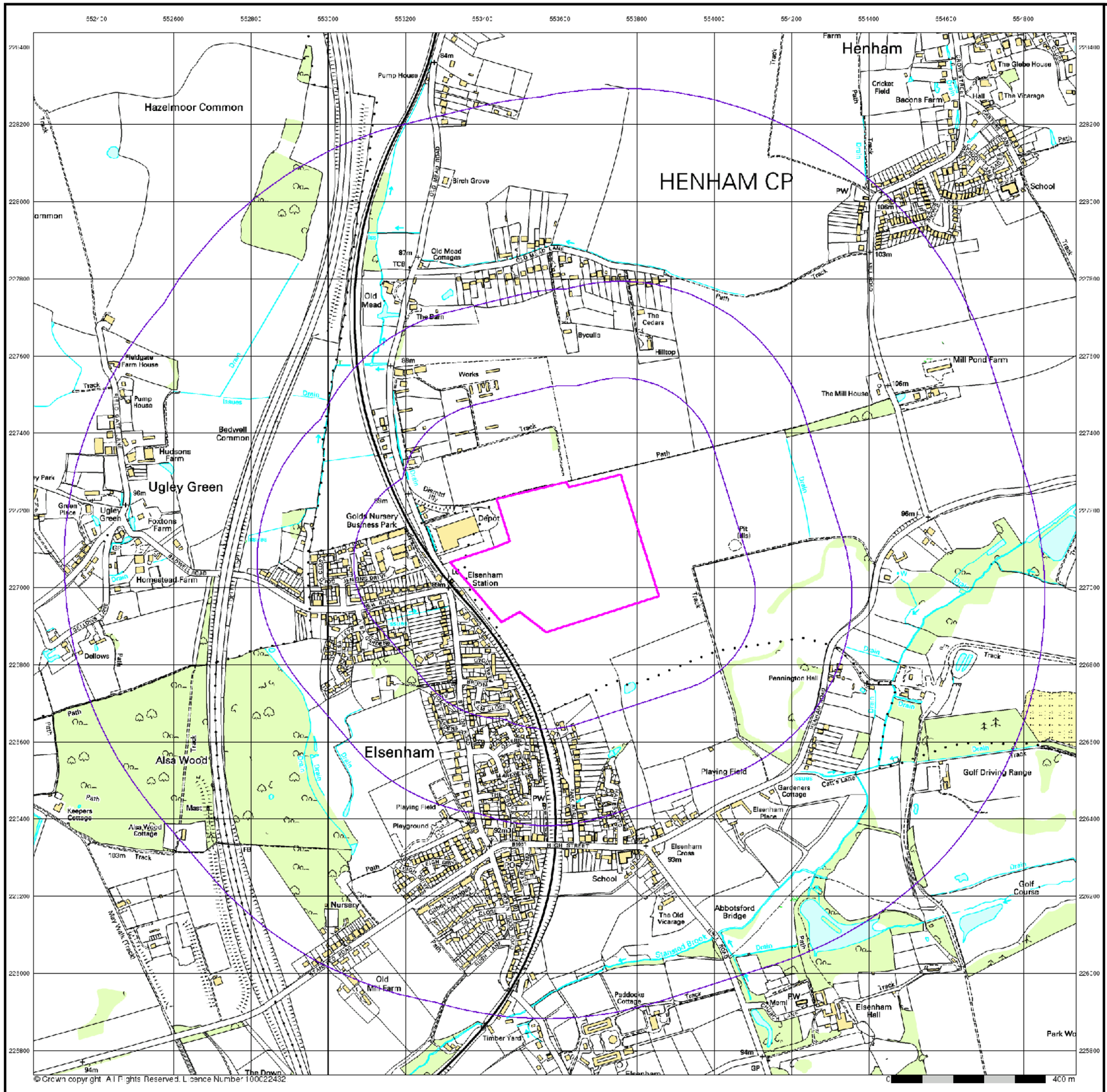

wsp

10k Raster Mapping

Published 2006

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.

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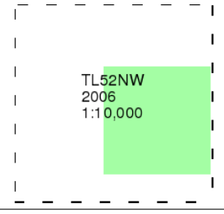
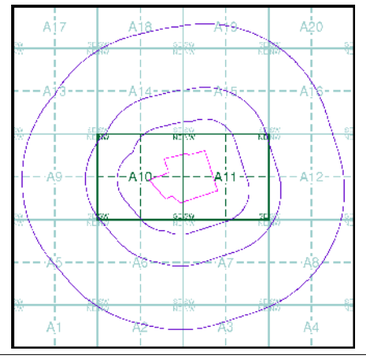


Historical Map - Slice A



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