

EXECUTIVE SUMMARY

- The report has been prepared to assess the potential for ground contamination to be present in relation to the proposed residential dwelling, parking and landscaping.
- The proposed development site is an L shape and covers an area of approximately 0.1 hectares. The site is bounded by private residential dwellings with gardens paddocks and agricultural fields form the remaining boundaries. Access to the site is via an existing access way connecting to the highway.
- The site appears to have been undeveloped throughout most of its history apart from the existing properties on the western part of the site. The surrounding area has generally become developed since World War II with sporadic residential developments.
- The site comprised a large semidetached residential home with private garden. The eastern portion of the site formed by a large open paddock. No other contaminative land uses were observed within 250m of the site.
- Current and historical uses of the area surrounding the site are not considered to represent potentially significant sources of contamination.

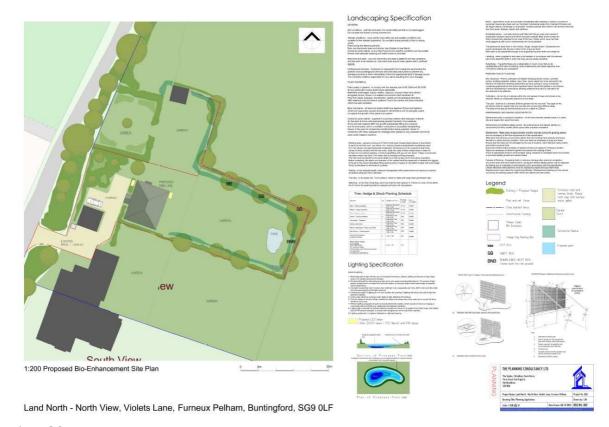


Fig.1 OS Extract

INTRODUCTION

General

The purpose of the study was to evaluate the contamination status at the site and assess the risk based on the past uses of the site and the proposed end use.

Planning Status

- The proposed scheme, covered by East Herts District Council Planning Department is for a residential development of a single dwelling parking and landscaping. The proposed site layout is shown in Appendix A.
- This desktop study was produced to assist in the assessment for a full planning application process.

SOURCES OF INFORMATION

The following has been relied upon as sources of information for this report:

- Ordnance Survey Historical Maps
- Planning Flood Maps
- Geology of Britain Viewer British Geological Survey
- Aquifer designation Environment Agency
- Radon Data UK Radon Mapping

SITE DESCRIPTION AND SETTING

Site Location

■ The site is located at North View, Violets Lane, Furneux Pelham, Herts. The site location is shown below.

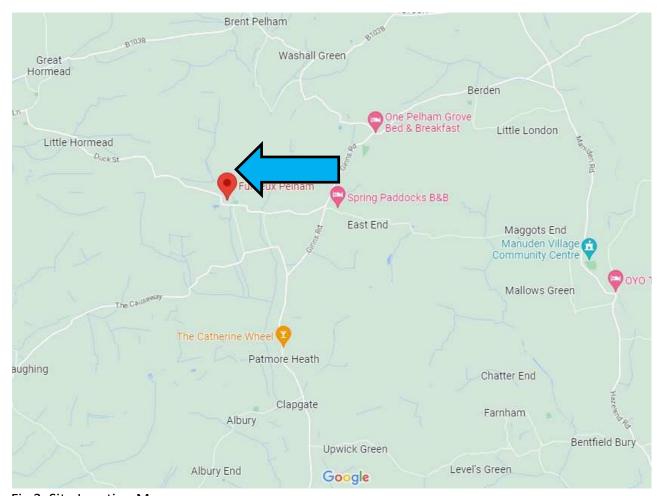


Fig 2. Site Location Map

Site Description

- The proposed development site is an L shape and covers an area of approximately 0.1 hectares.
- The site is bounded by private residential dwellings with gardens paddocks and agricultural fields form the remaining boundaries.
- Access to the site is via an existing access way connecting to the highway.



Fig 3. OS Extract

Proposed Use:

- The development is for the construction of a new build dwelling.
- It is anticipated the construction of the unit will be on traditional strip footings with masonry external envelope.
- Formal garden space/amenity will form part of the proposal.

Walkover Survey

- The walkover survey was undertaken on 2nd February 2023
- The site comprised a large semidetached residential home with private garden. The northern portion of the site formed a large garden and open paddock.
- The site has a continuous gradient from East to West.
- Underground services at the site are not known.
- No overhead cables were present in the immediate vicinity.
- The surrounding land is populated with residential homes and agricultural land.
- The historic Brewery site situated to the West of the site has been converted into residential units for some considerable time and is not considered to present a risk to the proposed site.
- No other contaminative land uses were observed within 250m of the site.

HISTORICAL MAP SURVEY

Maps

A review of relevant historical maps for the area surrounding the subject site has been undertaken and is summarized below. The historical maps are included below:

- Map Data: Hertfordshire O/S Mapping Data 1916 1:2500.
- The site is shown with the residential use with open agricultural land to the East and brewery to the West.

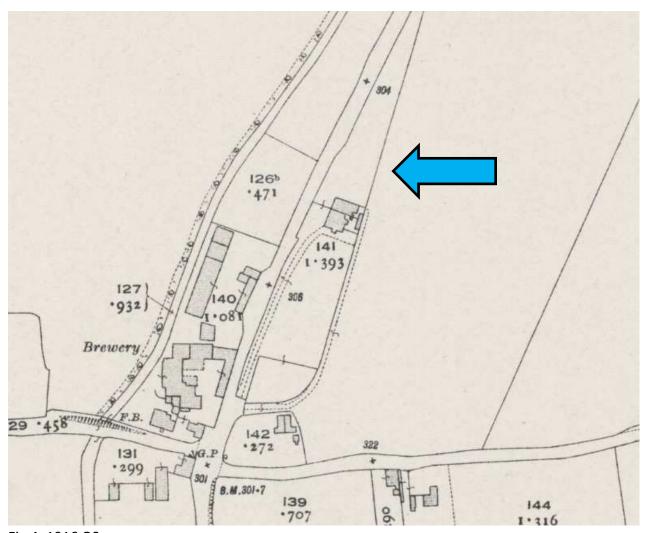


Fig 4. 1916 OS

- Map Data: Hertfordshire O/S Mapping Data 1933 1:2500
- The site is shown with the residential use with open agricultural land to the East and brewery to the West.

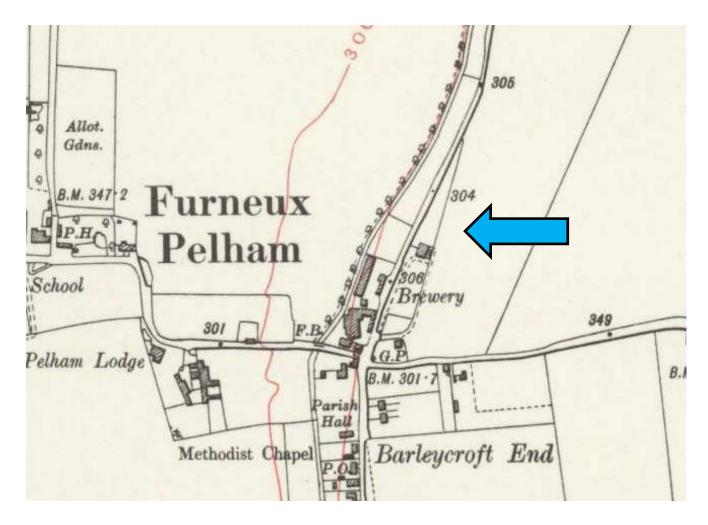


Fig 5. 1933 OS

- Map Data: Hertfordshire O/S Mapping Data 1944 1972 1:2500
- The site is shown with the residential use with open agricultural land to the East and brewery to the West.

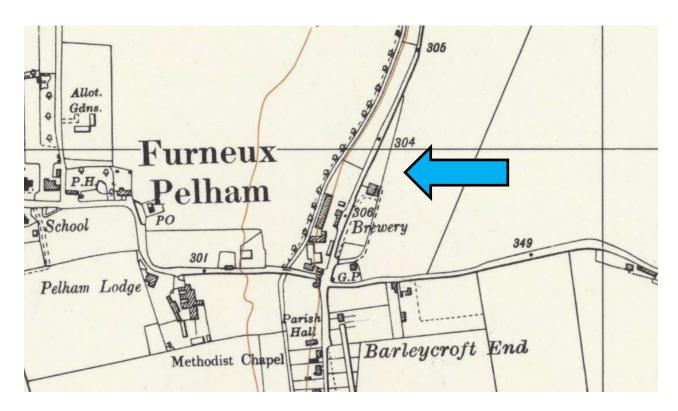


Fig 6. 1944 OS

- Map Data: Hertfordshire O/S Mapping Data 1980 2020 1:2500.
- The site is shown with the residential use with open agricultural land to the East and the converted brewery to the West.
- New Build Residential units are also indicated to the West of the site on the old Brewery site.

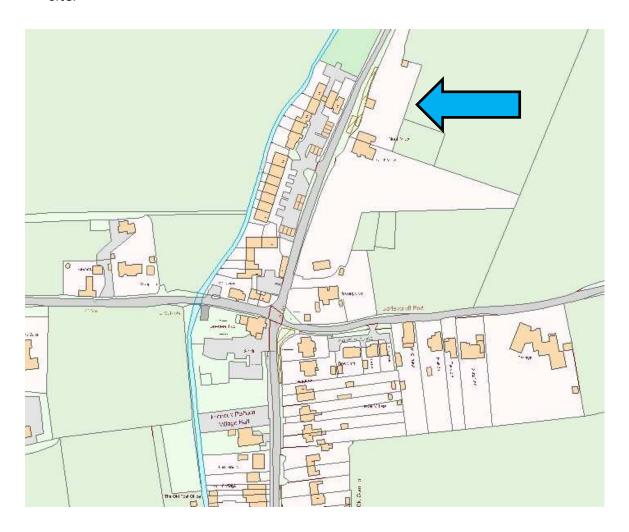


Fig 7. 1980 OS

FLOOD DESIGNATION

■ The site lies within Flood Zone 1 where have a low probability of flooding — less than 0.1% annual probability.

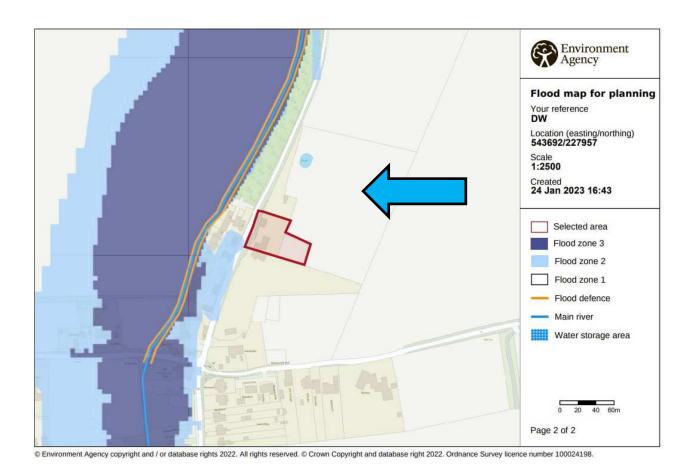


Fig 8. EA Flood Mapping

PLANNING HISTORY

Numerous proposals have been approved to the property on site (refer to below):

- Ref. No: 3/11/0566/FP | Received: Fri 01 Apr 2011 | Validated: Fri 01 Apr 2011 | Status: Decided Two storey and single storey side extension (Amendments to previously approved scheme ref 3/09/1712/FP).
- Ref. No: 3/09/1712/FP | Received: Mon 26 Oct 2009 | Validated: Mon 26 Oct 2009 | Status: Decided Two storey and single storey side extension.
- Ref. No: 3/02/1757/FP | Received: Thu 22 Aug 2002 | Validated: Tue 24 Sep 2002 | Status: Decided First Floor Rear Extension, Ground Floor Side Extension, Detached Double Garage.
- Ref. No: 3/98/0873/FP | Received: Thu 04 Jun 1998 | Validated: Thu 04 Jun 1998 | Status: Decided Conversion of Loft Space with Velux Windows and Front Dormer.

Numerous residential developments and works have been approved within the immediate proximity of the site (refer to planning statement).

 There are no inhibitive findings relating to the investigation of potentially contaminated land attached to any decision notices for works on or around the site.

SUMMARY OF SITE HISTORY

- The site appears to have been undeveloped for the majority of its history.
- The historic use of the site does not suggest processes which would create a risk to end users.
- The surrounding area has generally become developed since World War II;
- predominantly with sporadic residential developments with no major contamination issue noted.

ENVIRONMENTAL SETTING

Geology

Based on British Geological Survey website www.bgs.ac.uk the classifications beneath the site are as follows:



Fig 9. Descriptions of Geological Strata

 Given the limited development history of the site, a significant thickness of Made Ground is considered unlikely to be present beneath the site.

Hydrogeology and Hydrology

- Information indicates that there are no records of licensed groundwater abstractions within 500m of the site.
- There are no records of significant or major pollution incidents to controlled waters within 1km of the site.



Fig.10 Aquifer

Radon

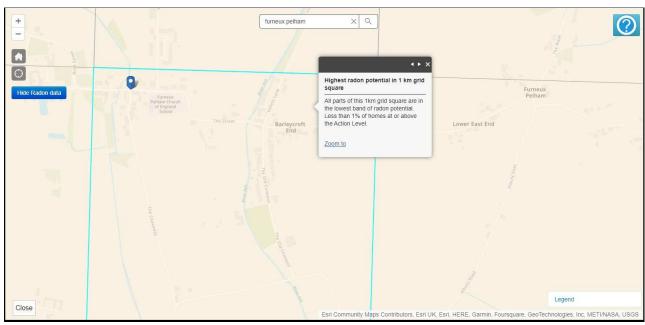


Fig 11. Radon Map Data

- The Radiation Protection Division of the Health Protection Agency, indicates the site to lie within an area where there is a probability of <1% of present or future homes being above action the level of 200Bq/m³.
- The site is therefore not classified as a Radon Affected Area.
- No radon protection measures are deemed necessary for the proposed development.

Soil Geochemistry

- The British Geological Survey data indicates the following concentrations of naturally occurring metals to be characteristic of the natural levels in the soil underlying the site.
- The levels are based on those present in rural soils and would indicate no risk to end users.

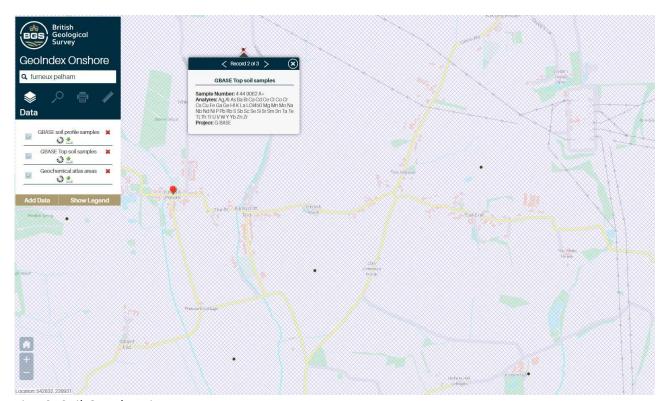


Fig 12. Soil Geochemistry

ASSESSMENT OF GEOTECHNICAL RISK

Geological Constraints

The initial research would indicate there is no risk to end users of the site.

Soil Conditions

• Given the limited previous development across the site, a significant thickness of Made Ground is not anticipated to be present overlying natural strata.

Previous Use

- Historic footings and services may be encountered beneath the site during any excavation works required.
- It is considered that these may be broken out using standard construction plant to enable the formation of foundations and floor slabs.

Proposed Use:

- The development is for the construction of a new build dwelling.
- It is anticipated the construction of the unit will be on traditional strip footings with masonry external envelope.
- Formal garden space/amenity will form part of the proposal.

Geological Constraints

• The low foundation loads from the proposed residential dwelling, the Chalk Subgroup will provide a suitable bearing for traditional foundations supporting the structure.

ENVIRONMENTAL SEARCHES

Potential Sources of Contamination

- There are no records of active environmental permits indicated to be present within 500m of the site.
- There are no other records of landfills, waste management or treatment sites within 500m of the site.

Green Belt Areas

■ There are no designated areas of Adopted Green Belt land within 500m of the site.

PRELIMINARY RISK ASSESSMENT

- The site appears to have been undeveloped for the majority of its history.
- The historic use of the site does not suggest processes which would create a risk to end users.
- The surrounding area has generally become developed since World War II;
- predominantly with sporadic residential developments with no major contamination issue noted.
- Due to the nature of the site, its historic use and the lack of evidence of potential contamination sources and Potential Pathways
- The assessment has not identified potential pollutant linkages associated with the proposed residential development of the site.

APPENDIX A



Land North - North View, Violets Lane, Furneux Pelham, Buntingford, SG9 0LF

Landscaping Specification

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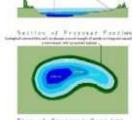
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