REPORT: D6945
August 2015

PRELIMINARY INVESTIGATION
of Land at
STATION ROAD, THURNSCOE
Prepared for
NETTO LTD

Revision No	Written by	Date	Checked By	Date
	KD	14.08.15	GD	14.08.15

DUNELM GEOTECHNICAL & ENVIRONMENTAL

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Drawing Number	Drawing Title
D6945/01	Site Location Plan
D6945/02	Preliminary Conceptual Site Model

Appendix B - Photographic Survey

Appendix C - Desk Study Information

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1 SCOPE OF INVESTIGATION

Dunelm Geotechnical and Environmental Limited (Dunelm) carried out a Preliminary Investigation (Desk Study) of land at Station Road, Thurnscoe on behalf of Netto Ltd.

It is proposed to develop the site with a commercial property.

The purpose of this preliminary investigation is to evaluate likely ground conditions and significant geoenvironmental issues at the site, and to plan the scope of subsequent phases of investigation.

This report may be regarded as a Preliminary Risk Assessment in accordance with the Environment Agency's guidance document *Model Procedures for the Management of Land Contamination* (CLR 11, 2004).

This preliminary investigation has been undertaken with due regard to current contaminated land guidance issued by the Royal Institution of Chartered Surveyors (RICS) together with BS 10175: 2001, *"Code of Practice for the Investigation of Potentially Contaminated Land"* and relevant sections of BS 5930: 1999, *"Code of Practice for Site Investigations"*.

The objectives of the investigation were as follows:

- To determine the land use history of the site from an inspection of available Ordnance Survey (OS) plans
- To determine the environmental setting of the site from available sources
- To determine whether past mining may have had an influence on the site
- To determine whether the site has previously been used for purposes that may have given rise to significant ground contamination
- To provide recommendations for further investigation.

Information has been obtained from various sources and the full responses received are presented in Appendix C; details relevant to the site are discussed in Sections 3 and 4.

Conditions of offer and notes on limitations relevant to all Dunelm geoenvironmental investigations are described in Appendix D and should be read in conjunction with this report.

2 SITE RECONNAISSANCE

2.1 General

The centre of the site is located at OS Grid Ref 445846, 405566. The site is situated within Thurnscoe town centre. The site location is shown in Drawing Number D6945/01 in Appendix A to this report.

The preliminary site inspection was undertaken during July 2015 and site photographs are presented in Appendix B.

2.2 Topography and Site Features

The site may be considered as two areas located off Station Road.

The western site area is predominantly flat and comprises a combination of tarmac, broken and rough ground and roughly grassed and vegetated areas and is currently used for informal car parking. The southern site boundary is formed with fencing. The northern site boundary is formed by the roadway.

The eastern site area is raised slightly higher than the western site area and is separated by a retaining wall. The eastern site area slopes up from the road to the main site area which is used to sell fencing. The eastern site area is bound off by fencing.

3 SITE HISTORY

In order to determine the history of the site, extracts from historical Ordnance Survey (OS) plans have been examined. Copies of these plans are provided in Appendix C.

A summary of the history of the on-site and off-site features is presented below. It is not the intention of this report to describe in detail all the changes that have occurred on or adjacent to the site, only those pertinent to the site.

Summary of Historical Information

OS Map Edition	On-site Features	Off-site Features
1892	The site is an undeveloped field.	Road extends east-west directly north of the site.
1906	No significant change.	Cricket field 120m west of the site. Railway extends north-south directly east of the site. Residential properties located 100m east of the site. Residential properties located 50m northwest of the site.
1930	Cinema occupies site.	Residential properties located 30m northwest of the site.
1961	Church occupies eastern site area. Residential properties occupy western site area. Cinema remains.	Further residential properties to the west.
1973	Cinema now labelled bingo hall.	No significant change.
1989	Bingo hall now labelled club.	No significant change.
2014	Central and western site areas have been cleared.	No significant change.

4 ENVIRONMENTAL SETTING

4.1 Information Sources

The environmental setting of the site was determined through reference to the following:

- British Geological Survey (BGS) 1: 50,000 scale sheet No 87 Barnsley
- Coal Mining Report from David Bellis Associates (based on data obtained from the Coal Authority)
- Landmark Envirocheck Report (including historical map extracts)
- BRE Publication BR211 *Radon: Guidance on Protective Measures for New Dwellings*

4.2 Geology

Drift deposits are not shown on the geological plan.

The solid geology underlying the site comprises of the Ackworth Member of the Upper Coal Measures.

The Elmsall and Brierly Coal seams have outcrops to north of the site and dip to the north away from the site.

There is one BGS borehole record located 30m to the north of the site. The borehole recorded made ground approximately 0.5m thick underlain by clay to a depth of 1.83m bgl. Beneath the clay rockhead was encountered, recorded as alternating bands of brown post and blue metal.

An un-named fault is shown to the south of the site with a downthrow to the north.

No significant ground hazards have been identified by the British Geological Survey as reported in the Envirocheck Report.

4.3 Mining & Quarrying

The mining report indicates that the site may be underlain by workings in four coal seams, the shallowest being the Shafton seam at a depth of approximately 115m below ground level.

There are no recorded mine entries within 20m of the site.

No evidence has been found to suggest that the site has been affected by quarrying.

4.4 Hydrology

The nearest surface water feature is an un-named stream 234m west of the site.

The GroundSure Report indicates there are no licensed surface water abstractions within 1000m of the site.

There are no recorded discharge consents within 500m of the site.

There are no recorded pollution incidents within 500m of the site.

The site is not recorded as being situated within a zone of flooding.

4.5 Hydrogeology

Using the Environment Agency's Policy and Practice for the Protection of Groundwater the solid geology beneath the site is classified as a Secondary (A) Aquifer – with permeable layers. These formations, although not producing large quantities of water for abstraction, are important for supplying base flows to rivers.

The site does not lie not within a source protection zone.

There are no recorded groundwater abstractions within 1000m of the site.

4.6 Landfills and other Potential Gas Sources

The GroundSure Report indicates there are no recorded landfill sites located within 500m of the site.

Historical plans indicate areas of infilled ground relating to the railway and sidings and made ground may be present in these areas which has the potential for producing hazardous gas.

4.7 Radon Gas

In accordance with the procedure described in BRE Publication BR211 *Radon: Guidance on Protective Measures for New Dwellings*, no radon protection measures are required for new buildings on the site.

5 CONCEPTUAL SITE MODEL

5.1 General

Based on the information presented in the preceding Sections, and in accordance with the CLR11 guidance noted in Section 1, a Preliminary Conceptual Site Model has been produced. A simplified diagrammatic form of the model showing the most significant features is included as Drawing No D6945/02 in Appendix A.

It is understood that the site is to be redeveloped with commercial properties.

The main features of the model are discussed in the following sections together with preliminary recommendations where appropriate.

5.2 Likely Ground Conditions

Based on available information, ground conditions are likely to comprise rock at shallow depth.

Made ground deposits together with buried obstructions associated with old foundations and services may be encountered.

5.3 Mining & Quarrying Assessment

No evidence has been found to indicate that the site has been affected by shallow mineworkings.

No evidence has been found to indicate that the site has been affected by quarrying.

5.4 Geotechnical Issues

The ground conditions noted above may allow the use of strip footings for lightly loaded structures. Where made ground is encountered, foundations will need to be taken through the made ground into underlying natural strata of adequate bearing capacity. Suspended floor slabs are required where made ground exceeds 0.6m in thickness.

Where new foundations conflict with buried obstructions, considerable overdeepening may be required to reach natural ground of adequate bearing capacity.

The above suggestions should be regarded as tentative until intrusive investigations are undertaken and information is available regarding design loads and development layout.

5.5 Hazard Identification – Contamination Sources

The desk study has shown that the site has been occupied previously and it is possible that contamination is present associated with the site's previous use as a cinema/club, church and housing. No specific contaminants have been identified however, as the site is to be redeveloped it is recommended that a basic suite of testing is undertaken on made ground samples to include the following determinands:

- Heavy metals
- Poly Aromatic Hydrocarbons (PAHs)
- Total Petroleum Hydrocarbons (TPHs)
- Asbestos
- pH and sulphate

5.6 Hazard Identification - Gas Sources

Potential sources of hazardous gas that could affect the site have been identified as follows:

- Infilled land relating to former railway land
- Made ground on site

A hazardous gas risk assessment is therefore recommended as part of an intrusive investigation at the site. The scope of a gas investigation (including the number of monitoring points and quantity of data required) should be related to the gas generation potential of the source and the sensitivity of the proposed end use.

5.7 Risk Assessment for Contaminated Land

In the CLR11 guidance noted above, risk assessment for contaminated land should be conducted using the following four steps: Hazard Identification, Hazard Assessment, Risk Estimation, and Risk Evaluation.

The results of the Hazard Identification process (identifying potential contamination and gas sources) are shown in the preceding sections.

'Hazard Assessment' involves analysing the potential for unacceptable risks, i.e. identifying what receptors and pathways could be present, what pollutant linkages could result, and what the effects might be. 'Pollution linkages' is a term used to describe a particular combination of contaminant pathway and receptor.

Following the site's redevelopment, significant receptors in terms of human health that could be affected by contamination will include future building occupiers. Ecosystem receptors include the underlying Secondary (A) Aquifer.

Potential pollution linkages considered to be significant at this stage are shown on the Preliminary Conceptual Site Model drawing in Appendix A.

Based on the model, potentially unacceptable risks have been identified and further action is therefore recommended.

This further action should comprise an intrusive ground investigation that would enable additional Hazard Assessment to be carried out, followed by Risk Estimation and Risk Evaluation. The Preliminary Conceptual Site Model should be revised on completion of the ground investigation. An outline of a suitable intrusive ground investigation is included in the following Section of this report.

6 GROUND INVESTIGATION STRATEGY

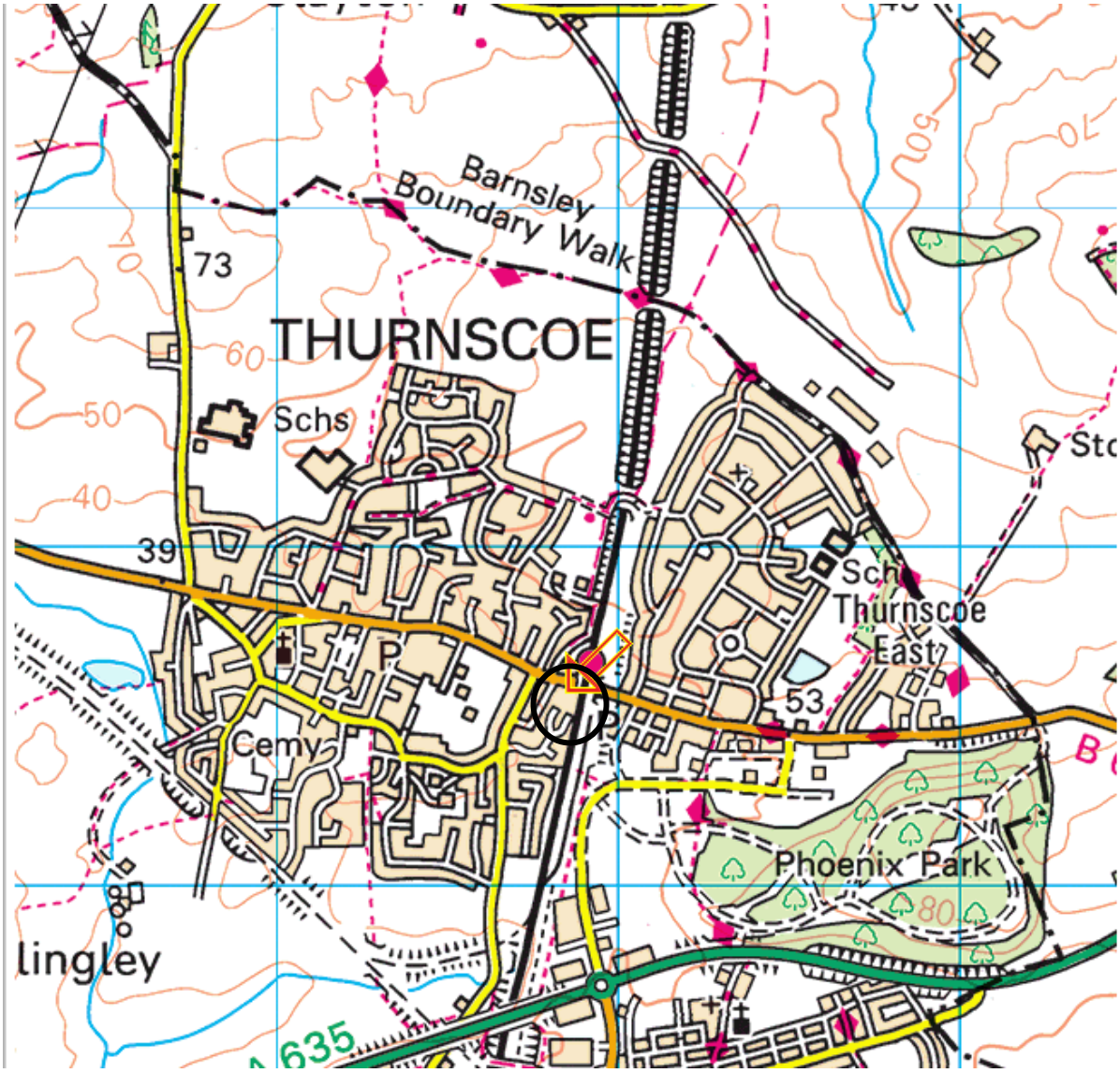
An intrusive ground investigation should be undertaken to verify the assumptions made in the Preliminary Conceptual Site Model and to provide data for foundation design.

An outline ground investigation strategy is summarised below, based on the preliminary conceptual site model and information obtained during the desk study.

- Trial pits and mini boreholes to enable the made ground and natural soils to be examined and buried obstructions to be identified
- Appropriate sampling to enable chemical and geotechnical testing to be carried out
- Installation of monitoring wells to enable subsequent groundwater and gas measurements.

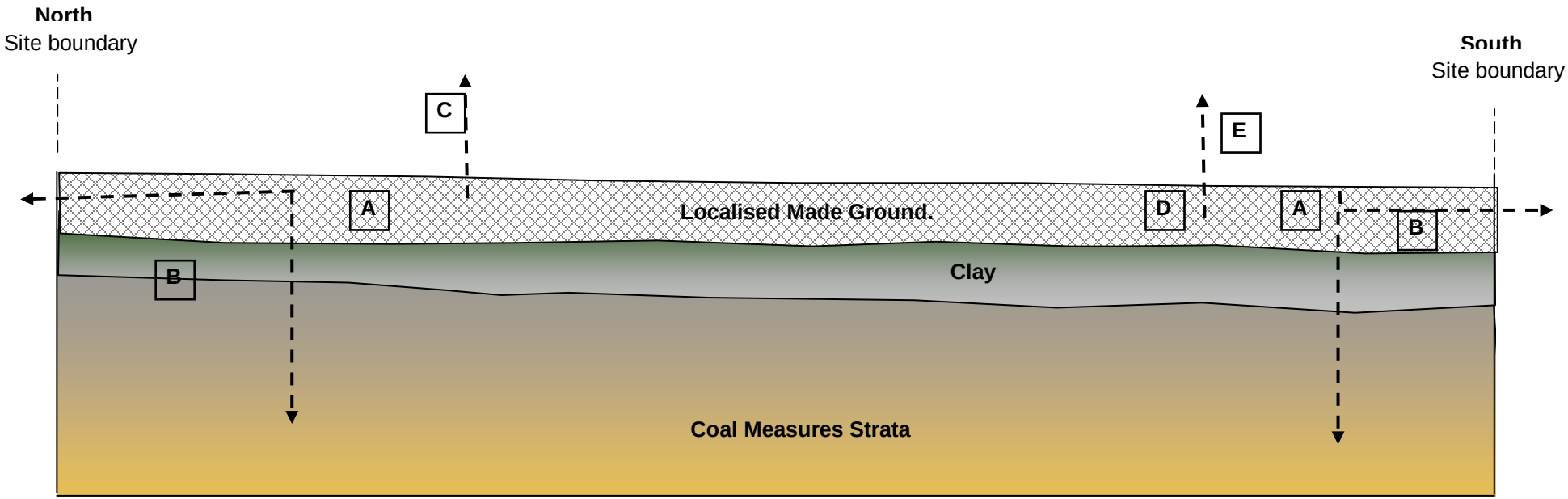
Appendix A

Drawings



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DUNELM GEOTECHNICAL & ENVIRONMENTAL	**Contract:** Station Road, Thurnscoe			**Contract No:** D6945
	Client: Netto Ltd			
TEL: 0191 378 3151 FAX: 0191 378 3157	**Drawing Title:** Site Location Plan			
Drawing No: D6945/01	**Date:** August 2015	**Scale:** NTS	**Status:** Final	**Drawn by:** KD



Potential Contamination linkages:

A – Potential leaching of contamination from made ground, if encountered, into underlying aquifer.

B – Migration of contamination offsite. e.g: hydrocarbons / leachable inorganic determinants.

C – Ingestion / Inhalation / Dermal contact of determinants within made ground (if encountered) or topsoil.

D – Aggressive ground conditions for building materials (concrete and underground services) and plants.

E – Potential hazardous gas from made ground deposits

DUNELM GEOTECHNICAL & ENVIRONMENTAL	**Contract:** **Station Road, Thurnscoe**			
	Client: **Netto Ltd**			
TEL: 0191 3783151 **FAX: 0191 3783157**	**Drawing Title:** **Conceptual Site Model**			
Drawing No: **D6945/02**	**Date:** **August 2015**	**Scale:** **NTS**	**Status:** **Prelim**	**Drawn by:** **KD**

Appendix B

Photographic Survey



Photograph 1: Looking south from road towards western site area, site used for informal car parking.



Photograph 2: Looking south from road towards western site area, vegetation present on site boundaries.

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Contract: Station Road, Thurnscoe		**Contract No:** D6945
Client: Netto Ltd		
Site Photographs	**Date: August 2015**	**Sheet 1 of 3**



Photograph 3: Looking north, photo taken from site's southern boundary.



Photograph 4: Looking north, photo taken from site's southern boundary.



Photograph 5: View of eastern part of site. Retaining wall present on right of the photograph.



Photograph 6: Eastern site area selling fencing.

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Contract: Station Road, Thurnscoe		**Contract No:** D6945
Client: Netto Ltd		
Site Photographs	**Date: August 2015**	**Sheet 3 of 3**

Appendix C

Desk Study Information

David Bellis Consulting Surveyors Ltd
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Harrogate
North Yorkshire
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Serial Number 323248

Client detail :

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Search produced by M J Peace

Property details:

Station Road
Rotherham
South Yorkshire
S6 3JR

Your ref : 6231 D6945 AIL
Purchaser :
Vendor :

In accordance with your instructions received 21 Jul 2015 we have inspected plans and records of coal mine workings and have made enquiries with respect to Cheshire brine extraction in relation to the above property and can report as follows :

1. **SEAM DETAILS FOR PAST UNDERGROUND COAL MINING :** In relation to the property the undermentioned seam(s) have been worked within the likely zone of physical influence on the surface.

Seam	Depth (m)	Sect (cm)	Date	Remarks
Shafton	115	121	pre 1952	Subjacent - partial extraction
Meltonfield	363	121	pre 1949	Adjacent
Barnsley	503	243	pre 1904	Subjacent
Parkgate	732	162	pre 1951	Subjacent - partial extraction

The property is situated in a past mining district in which 5 seams of coal have been worked from moderate depth prior to 1981.

2. **SEAM DETAILS FOR CURRENT AND FUTURE UNDERGROUND COAL MINING :** The undermentioned seam(s) are currently being worked, or licenses to work are being determined, or have been granted to work, within the likely zone of physical influence on the surface in relation to the property.

Seam	Depth (m)	Sect (cm)	Date	Remarks
				Coal in reserve - no workings currently planned.

3. **UNDERLYING GEOLOGY :**

The property is situated in an area of Middle Coal Measures, shales and mudstones.

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4. OPENCAST COAL MINING :

Past Opencast Workings : The property is not situated within the boundary of a former opencast coal mining site.

Present Opencast Workings : The property is not situated within 200m of the boundary of a currently operating opencast coal mining site.

Future Opencast Workings : The property is not situated within 800m of the boundary of an opencast site for which a license to extract coal by opencast methods has been granted or a license to do so is currently being determined.

5. SHAFTS, ADITS (MINE ENTRIES) AND ADDITIONAL INFORMATION :

We have no knowledge of any shafts or adits within 20 metres of the property or the boundary of the property.

There are no tips or lagoons in the vicinity of the property.

6. NOTICES IN RELATION TO FUTURE COAL MINING ACTIVITY :

We have no knowledge of any intention to work coal by underground methods within influencing distance on the surface in the vicinity of the property for which notices have been issued under the Coal Mining Subsidence Act 1991.

7. PAST COAL MINING RELATED SUBSIDENCE :

Our investigations have shown no evidence of coal mining related subsidence claims in relation to the property in the past 10 years.

8. CONCLUSION (COAL MINING) : In the light of the above facts we conclude that in relation to coal mining :

Old workings are present but all settlement is likely to have completed long ago.
In our opinion it is unlikely that coal will be worked in the forseeable future.

COAL MINING RISK LEVEL : We recommend that the transaction is treated as :

Where this report is to be used for development purposes particular attention is drawn to the paragraphs below concerning the ownership of in situ coal, coal workings and the risks from mine gases.

Please note that the overall coal mining risk level above is based upon an assessment of the detailed information contained in the body of the report. The risk assessment must be used in conjunction with the detailed report.

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If development of the property is being considered then all necessary enquiries and investigations should be completed prior to the commencement of works to ensure that proposals follow good engineering practice for development in mining areas. The Coal Authority has ownership of in situ coal, coal mines (both current and disused) and coal mine shafts and adits. Activities that intersect, enter or disturb any of the Coal Authority's interests require the written permission of the Authority.

Any development proposals should consider risks to the development, or adjacent property, of generating or displacing underground gases where coal seams or former mining works are disturbed. The need for effective measures to prevent gasses entering public properties should be assessed and properly addressed. These actions are necessary due to the public safety implications of development in these circumstances.

CHESHIRE BRINE EXTRACTION INFORMATION :

The property lies outside the Cheshire Brine Compensation District as prescribed by the Cheshire Brine Pumping (Compensation for Subsidence) Act 1952.

With respect to coal mining there is nothing to prevent a claim being made under the provisions of the Coal Mining Subsidence Act 1991 and subsequent legislation, but it must not be inferred that the Coal Authority or their licensees will necessarily accept that any damage has been caused as a result of mining subsidence.

If you require any further information or amplification please contact CoalSearchPlus+ on 01423 529911 or via our website www.coalsearch.plus.com.

This report is prepared in accordance with the CoalSearchPlus+ terms and conditions as published on the CoalSearchPlus+ website (www.coalsearch.plus.com) on the date of issue of this report.

This is a Coal Mining Search Report and is not to be interpreted as being part of an Environmental Assessment of the property.

We cannot be held responsible for the accuracy of the information provided to us by third party organisations.

The information and/or material supplied is composed from data based in many cases on measurements and records of various standards of reliability and age. We cannot be held responsible for the accuracy of such information.

This search report is based upon the privately owned CoalSearchPlus+ mining record database and plans and records publicly available at the time of inspection from the Coal Authority, including British Geological Survey and Ordnance Survey data. Organisations reserve the right to vary their proposals and intentions as to their future mining operations without prior notice save as provided in the Coal Mining (subsidence) Act 1991 and the Coal Industry Act 1994.

Coal Authority Address : The Coal Authority, 200 Lichfield Lane Berry Hill, Mansfield, Nottinghamshire, HG18 4RG
British Geological Survey Address : British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham NG12 5GG

The information contained in this report relates to the property address given by the individual or organisation ordering the report. Where a plan indicating the property location and boundary is supplied with the instruction the report is based on that information. Where no plan is supplied the report is based on the property location as defined in publicly available mapping data. At all times it remains the responsibility of the instructing organisation or individual to define the boundary of the property.

Additional notes applicable to Residential Coal Mining Reports only :

David Bellis Consulting Surveyors Ltd is not aware of any personal or business relationship between the person conducting or preparing the search and any person involved in the sale of the property.

This report is a desk study of existing published geological and coal mining records and the CoalSearchPlus+ coal mining database. In order to compile this report enquiries have been made relating to the following :

Past Coal Mining – the existence of any previously worked seams of coal within influencing distance on the surface in relation to the property including an indication of the location, depth and age of the workings,

Present Coal Mining - the existence of any currently worked seams of coal within influencing distance on the surface in relation to the property including an indication of the location, depth and age of the workings. The existence of coal that could be worked at some time in the future will be enquired into and detail of any relevant licenses disclosed where available.

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Underlying Geology - the underlying geology of the property will be reviewed and briefly described in relation to coal mining.

Opencast Coal Mining - the existence of past present and future opencast coal mining, specifically :

- if the property is situated within the boundary of a former opencast site. In the case of old opencast workings it must be understood that records are often unclear regarding the site boundary and/or worked areas. Published records will be reviewed to give our opinion of the existence of relevant former opencast coal workings.
- if the property is situated within 200m of the boundary of a currently operating opencast site.
- if the property is situated within 800m of the boundary of an opencast for which either a license to extract coal by opencast methods has been granted or a license to do so is currently being determined.

Shafts, Adits (Mine Entries) and Additional Information – the existence of any mine entries within 20m of the property or the boundary of the property and its associated land and buildings (the definition of the boundary of the property is the responsibility of the individual or organisation ordering this report). Where a mine entry is found to exist the approximate location of the mine entry will be indicated on a plan to be provided by the instructing organisation or individual. The existence of unworked coal will be enquired into and our opinion regarding the likelihood of it being worked at some time in the past will be given where relevant. Any other relevant coal mining related features discovered will be noted.

Notices in relation to future coal mining activity – the existence of notices indicating an intention to work coal by underground methods in the future.

Past coal mining related subsidence – if any publicly available records indicate coal mining related subsidence affecting the property in the past 10 years.

Coal Mining Risk Level – the opinion of David Bellis Consulting Surveyors of the risk posed to the property from coal mining given all the information contained in the report. The risk to the property is given in relation to the majority of the housing stock in the immediate area.

Cheshire Brine – the location of the property in relation to the Cheshire Brine Compensation District and any relevant information to the property regarding brine extraction.

Additional information, including answers to many frequently asked questions, can be found on the CoalSearchPlus+ website, www.coalsearch.plus.com

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We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.

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Mr M. Peace, Director, David Bellis Consulting Surveyors Ltd, 8 Mornington Terrace, Harrogate, North Yorkshire, HG1 5DH
Tel : 01423 529911 Fax : 01423 529922 Email : contact@coalsearch.plus.com

Date : 29 Jul 2015 Signed : 

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The Property Ombudsman scheme
Milford House
43-55 Milford Street
Salisbury
Wiltshire SP1 2BP
Tel: 01722 333306
Fax: 01722 332296
Email: admin@tpos.co.uk

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10. It is the responsibility of the Applicant to ensure the accuracy, legibility, clarity and completeness of all data and/or information provided to CoalSearchPlus+ as part of the Request, including but not limited to, names, numbers, addresses, location plans, and boundary plans. This applies whether the Request is submitted on CoalSearchPlus+ order forms either printed or published on the CoalSearchPlus+ website or on the Applicants own order form.
11. CoalSearchPlus+ may request additional relevant data and/or information from the Applicant in the course of fulfilling a Request, including, but not limited to, names, numbers, addresses, location plans, and boundary plans.
12. CoalSearchPlus+ may request clarification of data and/or information supplied by the Applicant.
13. If, subsequent to Clause 11. and/or Clause 12., requested data and/or information is not provided and/or clarified, CoalSearchPlus+ cannot be held responsible for any resultant loss or delay.
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16. CoalSearchPlus+ will, in the process of fulfilling the request, retrieve data and/or information from publicly and/or commercially available sources and the CoalSearchPlus+ mining database. The sources of data used will primarily be data held by The Coal Authority under an agreement with the Health and Safety Executive, data owned by the British Geological Survey and the CoalSearchPlus+ database.
17. A CoalSearchPlus+ mining report is a report of the interpretation of the data sources in 16. made by CoalSearchPlus+ staff.
18. CoalSearchPlus+ coal mining search reports are based upon the plans and records available from data sources detailed in 16. at the time the report was produced. It should be understood that third party organisations reserve the right to vary their proposals and intentions as to their future mining operations without prior notice save as provided in the Coal Mining Subsidence Act 1994. CoalSearchPlus+ cannot be held responsible for changes to the future proposals and intentions of Third Parties.
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20. The data and/or information that a coal mining search report is based on is constantly being updated. A CoalSearchPlus+ coal mining search report is based on the most up to date information available at the time that the report is produced however it cannot be guaranteed that the information and/or data will not become obsolete at some time in the future. Responsibility for the supply of accurate and up to date information to CoalSearchPlus+ lies with the data supplying organisations listed in 16.
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45. These Terms and conditions are subject to English Law and the exclusive jurisdiction of the courts of England and Wales.

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Dunelm Geotechnical & Environmental Ltd

FOUNDATION HOUSE, ST. JOHNS ROAD, DURHAM/MEADOWFIELD INDUSTRIAL ESTATE, DH7 8TZ

Groundsure Reference:	GS-2250406
Your Reference:	6230-D6945-AIL
Report Date	20 Jul 2015
Report Delivery Method:	Email - pdf

Groundsure Enviroinsight

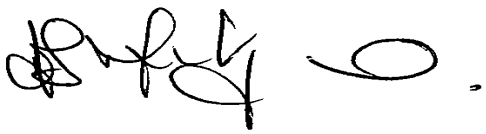
Address: STATION ROAD, ROTHERHAM, S63 0JR

Dear Sir/ Madam,

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

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,



Managing Director
Groundsure Limited

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Address:	**STATION ROAD, ROTHERHAM, S63 0JR**
Date:	**20 Jul 2015**
Reference:	**GS-2250406**
Client:	**Dunelm Geotechnical & Environmental Ltd**

NW N NE

W E

SW S SE



Aerial Photograph Capture date:	07-Jun-2013
Grid Reference:	445846,405566
Site Size:	0.51ha

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Overview of Findings

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

Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	1	13	14	45
1.2 Additional Information – Historical Tank Database	0	0	0	1
1.3 Additional Information – Historical Energy Features Database	0	0	12	11
1.4 Additional Information – Historical Petrol and Fuel Site Database	0	0	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	0	0	0	4
1.6 Potentially Infilled Land	0	1	7	38

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

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Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-5000
3.1 Landfill Sites						
3.1.1 Environment Agency Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency Historic Landfill Sites	0	0	0	0	2	3
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	1	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	0	1
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	Not searched	Not searched
3.2.2 Environment Agency Licensed Waste Sites	0	0	0	0	4	7

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	0	0	5	Not searched
4.2 Records of Petrol and Fuel Sites	0	0	0	0
4.3 National Grid Underground Electricity Cables	0	0	0	0
4.4 National Grid Gas Transmission Pipelines	0	0	0	0

Section 5: Geology	
5.1 Are there any records of Artificial Ground and Made Ground present beneath the study site?	No
5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?	None
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

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

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

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

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Section 6: Hydrogeology and Hydrology	0-500m					
6.9 Is there any Environment Agency information on river quality within 1500m of the study site?	No	No	No	No	Yes	No
6.10 Detailed River Network entries within 500m of the site	0	0	1	6	Not searched	Not searched
6.11 Surface water features within 250m of the study site	No	No	Yes	Not searched	Not searched	Not searched

Section 7: Flooding	
7.1 Are there any Enviroment Agency Zone 2 floodplains within 250m of the study site?	No
7.2 Are there any Environment Agency Zone 3 floodplains within 250m of the study site	No
7.3 What is the Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site?	Very Low
7.4 Are there any Flood Defences within 250m of the study site?	No
7.5 Are there any areas benefiting from Flood Defences within 250m of the study site?	No
7.6 Are there any areas used for Flood Storage within 250m of the study site?	No
7.7 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Not Prone
7.8 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	Not Applicable

Section 8: Designated Environmentally Sensitive Sites	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	0	0	0	3
8.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	0
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0

Section 8: Designated Environmentally Sensitive Sites

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

Section 9: Natural Hazards

9.1 What is the maximum risk of natural ground subsidence?	Very Low
9.1.1 What is the maximum Shrink-Swell hazard rating identified on the study site?	Very Low
9.1.2 What is the maximum Landslides hazard rating identified on the study site?	Very Low
9.1.3 What is the maximum Soluble Rocks hazard rating identified on the study site?	Negligible
9.1.4 What is the maximum Compressible Ground hazard rating identified on the study site?	Negligible
9.1.5 What is the maximum Collapsible Rocks hazard rating identified on the study site?	Very Low
9.1.6 What is the maximum Running Sand hazard rating identified on the study site?	Negligible
9.2 Radon	
9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level.
9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	No radon protective measures are necessary.

Section 10: Mining

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

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Using this report

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

1. Historical Industrial Sites

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

2. Environmental Permits, Incidents and Registers

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

3. Landfills and Other Waste Sites

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

4. Current Land Uses

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

5. Geology

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

6. Hydrogeology and Hydrology

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

7. Flooding

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

8. Designated Environmentally Sensitive Sites

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

9. Natural Hazards

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

10. Mining

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

11. Contacts

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

Note: Maps

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

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

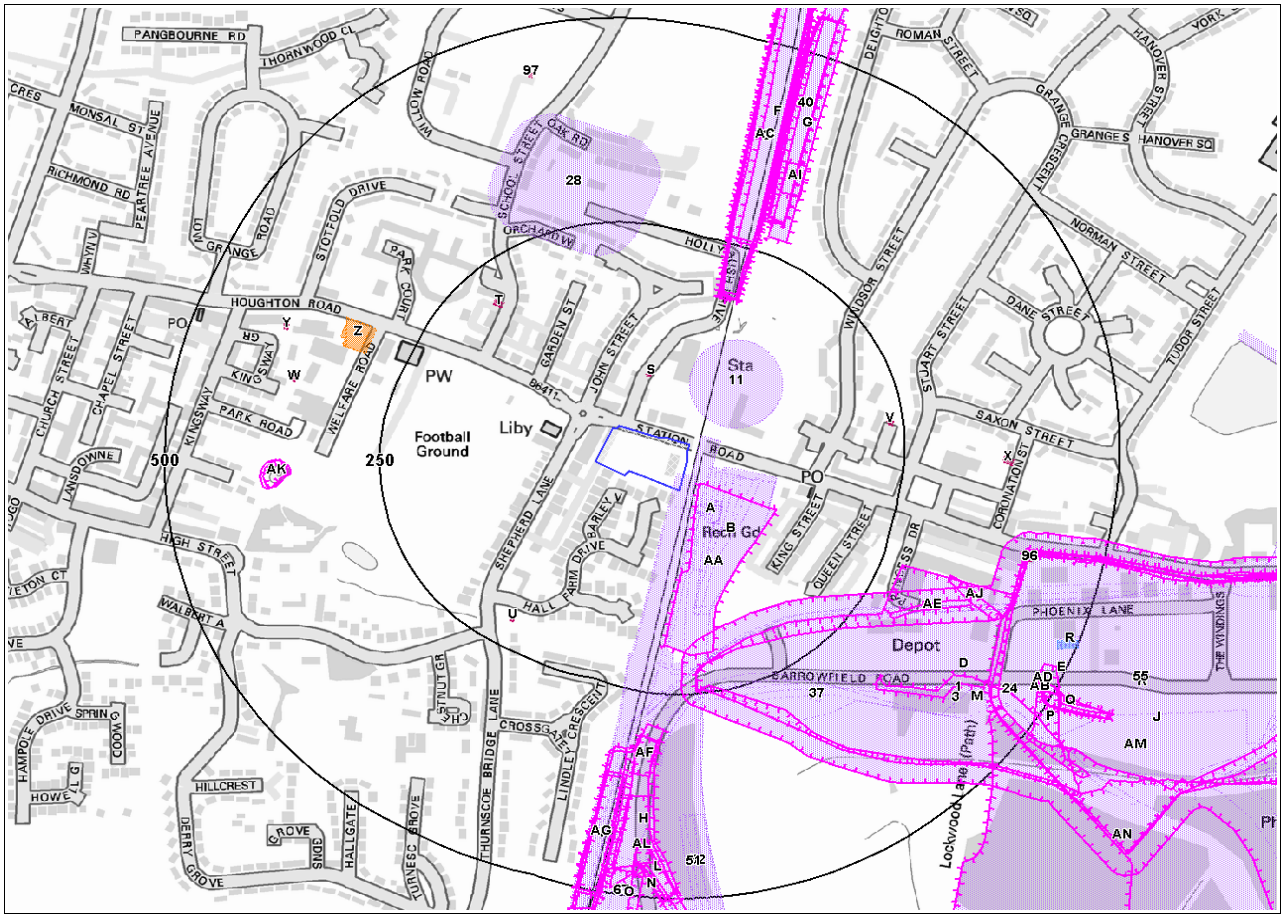
All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

1. Historical Land Use

NW N NE

W E

SW S SE



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

Site Outline

Industrial Land Use

Potentially Infilled Land

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

250
500
Search Buffers (m)

Energy Features

Petrol Stations

Tanks

Garages

1. Historical Industrial Sites

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

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

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 73

ID	Distance [m]	Direction	Use	Date
1	0	On Site	Railway Sidings	1948
2D	9	E	Railway Sidings	1982
3	20	S	Railway Sidings	1939
4AA	21	E	Unspecified Ground Workings	1966
5A	26	SE	Railway Station	1904
6A	26	SE	Railway Station	1939
7A	26	SE	Goods Station	1951
8A	26	SE	Railway Station	1929
9A	28	SE	Railway Station	1948
10B	36	E	Railway Sidings	1951
11	38	NE	Railway Station	1991
12B	43	E	Railway Sidings	1939
13B	43	E	Railway Sidings	1904
14A	45	E	Railway Building	1948
15B	57	E	Railway Sidings	1929
16AB	171	SE	Colliery	1951
17C	181	N	Cuttings	1890
18C	185	N	Cuttings	1948
19C	186	N	Cuttings	1939
20AC	189	N	Cuttings	1951
21D	191	SE	Railway Sidings	1966
22E	195	SE	Railway Sidings	1929
23C	195	N	Cuttings	1929
24	196	SE	Railway Sidings	1951
25AD	198	SE	Colliery	1939
26E	205	S	Colliery	1904
27M	205	S	Railway Sidings	1904
28	210	N	Nursery	1966
29F	254	N	Cuttings	1982
30F	254	N	Cuttings	1966
31F	254	N	Cuttings	1991
32F	258	N	Cuttings	1904
33G	271	N	Cuttings	1966
34H	288	S	Cuttings	1939
35AE	289	SE	Unspecified Ground Workings	1939

36G	290	N	Cuttings	1951
37	292	SE	Railway Building	1948
38G	293	N	Cuttings	1904
39G	293	N	Cuttings	1939
40	294	N	Cuttings	1929
41H	302	S	Cuttings	1951
42AF	303	S	Cuttings	1948
43AG	322	S	Cuttings	1890
44AH	326	SE	Unspecified Ground Workings	1939
45AI	327	N	Cuttings	1982
46AJ	331	E	Refuse Heap	1904
47I	353	S	Cuttings	1939
48I	354	S	Cuttings	1929
49I	357	S	Cuttings	1948
50AL	377	S	Cuttings	1948
51	397	S	Railway Sidings	1951
52	398	S	Railway Sidings	1929
53J	406	SE	Unspecified Mine	1966
54J	406	SE	Colliery	1982
55	408	E	Colliery	1929
56K	408	E	Colliery	1948
57K	408	E	Colliery	1948
58AM	413	E	Colliery	1991
59N	428	S	Unspecified Disused Tip	1982
60L	433	S	Cuttings	1929
61L	433	S	Unspecified Heap	1966
62M	435	SE	Unspecified Heap	1951
63AN	452	SE	Refuse Heap	1991
64N	458	S	Refuse Heap	1966
65O	461	S	Colliery	1948
66O	461	S	Colliery	1948
67	467	S	Railway Sidings	1929
68P	475	SE	Unspecified Pit	1904
69R	477	E	Unspecified Tank	1904
70Q	487	SE	Refuse Heap	1939
71P	488	SE	Refuse Heap	1951
72Q	489	SE	Refuse Heaps	1948
73Q	489	SE	Refuse Heaps	1948

1.2 Additional Information – Historical Tank Database

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

Records of historical tanks within 500m of the search boundary: 1

ID	Distance (m)	Direction	Use	Date
74R	476	SE	Unspecified Tank	1906

1.3 Additional Information – Historical Energy Features Database

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

Records of historical energy features within 500m of the search boundary: 23

ID	Distance (m)	Direction	Use	Date
75S	68	N	Electricity Substation	1993
76S	69	N	Electricity Substation	1988
77S	70	N	Electricity Substation	1970
78T	196	NW	Electricity Substation	1970
79T	199	NW	Electricity Substation	1993
80T	200	NW	Electricity Substation	1988
81U	210	SW	Electricity Substation	1976
82U	211	SW	Electricity Substation	1988
83U	211	SW	Electricity Substation	1993
84V	231	E	Electricity Substation	1989
85V	231	E	Electricity Substation	1989
86V	232	E	Electricity Substation	1993
87W	362	W	Electricity Substation	1973
88W	363	W	Electricity Substation	1982
89W	363	W	Electricity Substation	1988
90X	365	E	Electricity Substation	1989
91X	365	E	Electricity Substation	1989
92X	366	E	Electricity Substation	1993
93Y	392	NW	Electricity Substation	1973
94Y	393	NW	Electricity Substation	1988
95Y	393	NW	Electricity Substation	1982
96	415	E	Electricity Substation	1993
97	439	N	Electricity Substation	1970

1.4 Additional Information – Historical Petrol and Fuel Site Database

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

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

Database searched and no data found.

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

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

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 4

ID	Distance (m)	Direction	Use	Date
98Z	298	NW	Garage	1961
99Z	304	NW	Garage	1970
100Z	304	NW	Garage	1962
101Z	322	NW	Garage	1973

1.6 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 46

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

ID	Distance(m)	Direction	Use	Date
102AA	21	E	Unspecified Ground Workings	1966
103AB	171	SE	Colliery	1951
104C	181	N	Cuttings	1890
105C	185	N	Cuttings	1948
106C	186	N	Cuttings	1939
107AC	189	N	Cuttings	1951
108AD	198	SE	Colliery	1939
109E	205	S	Colliery	1904
110F	254	N	Cuttings	1982
111F	254	N	Cuttings	1991
112F	254	N	Cuttings	1966
113F	258	N	Cuttings	1904
114G	271	N	Cuttings	1966
115H	288	S	Cuttings	1939
116AE	289	SE	Unspecified Ground Workings	1939
117G	290	N	Cuttings	1951
118G	293	N	Cuttings	1939
119G	293	N	Cuttings	1904
120H	302	S	Cuttings	1951
121AF	303	S	Cuttings	1948
122AG	322	S	Cuttings	1890
123AH	326	SE	Unspecified Ground Workings	1939
124AI	327	N	Cuttings	1982
125AJ	331	E	Refuse Heap	1904

126AK	353	W	Pond	1939
127I	353	S	Cuttings	1939
128AK	357	W	Pond	1951
129I	357	S	Cuttings	1948
130AL	377	S	Cuttings	1948
131J	406	SE	Unspecified Mine	1966
132J	406	SE	Colliery	1982
133K	408	E	Colliery	1948
134K	408	E	Colliery	1948
135AM	413	E	Colliery	1991
136N	428	S	Unspecified Disused Tip	1982
137AL	433	S	Unspecified Heap	1966
138M	435	SE	Unspecified Heap	1951
139AN	452	SE	Refuse Heap	1991
140N	458	S	Refuse Heap	1966
141O	461	S	Colliery	1948
142O	461	S	Colliery	1948
143P	475	SE	Unspecified Pit	1904
144Q	487	SE	Refuse Heap	1939
145P	488	SE	Refuse Heap	1951
146P	489	SE	Refuse Heaps	1948
147P	489	SE	Refuse Heaps	1948

2. Environmental Permits, Incidents and Registers Map



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

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

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

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

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

Database searched and no data found.

2.3 Environment Agency Recorded Pollution Incidents

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

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

Database searched and no data found.

---

3. Landfill and Other Waste Sites Map



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Site Outline

250 500 Search Buffers (m)

E.A. Active Landfill

E.A. Historic Landfill

BGS / DoE Survey Landfill

Historic and Planned Waste Sites

E.A. Licensed Waste Site

Local Authority/Historical Mapping Landfill Records

3. Landfill and Other Waste Sites

3.1 Landfill Sites

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

0

Database searched and no data found.

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

5

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

ID	Distance (m)	Direction	NGR	Details	
Not shown	582	N	446100 406300	Site Address: Former Railway Cutting, Chapel Lane, Thurnscoe, Barnsley Waste Licence: Yes Site Reference: WD20 B196, WD2 B7, WD2 T3, 20B196(9), 4400/0359, 4400/(65), 4400/2D11 Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 07-Jul-1978 Licence Surrendered: 31-Dec-1982 Licence Hold Address: Town Hall, Barnsley Operator: - First Recorded: 31-Jul-1978 Last Recorded: 31-Jul-1982
3	588	E	446700 405700	Site Address: Brickworks Quarry, Thurnscoe, Near Dearne, South Yorkshire Waste Licence: - Site Reference: 4400/(137), (137)B Waste Type: Household Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Hold Address: - Operator: Deane Urban District Council First Recorded: 31-Dec-1950 Last Recorded: 31-Dec-1980
Not shown	1036	NE	446400 406600	Site Address: Railway Cutting, Chapel Lane, Thurnscoe, Barnsley Waste Licence: Yes Site Reference: 2D11(65), 4400/2D11, 80/22/1582, WD2 B7, WD2 B196, WD2 D11, 4400/(65), 4400/2D11 Waste Type: Inert, Industrial, Commercial, Household, Liquid sludge, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 04-Feb-1981 Licence Surrendered: 11-Mar-1993 Licence Hold Address: - Operator: Barnsley Metropolitan Borough Council First Recorded: 01-Jul-1978 Last Recorded: 31-Jul-1982

ID	Distance (m)	Direction	NGR	Details	
Not shown	1060	E	447000 405500	Site Address: Lidget Lane, Thurnscoe, Near Dearne, South Yorkshire Waste Licence: - Site Reference: (102)D, 4400/(102), (132)B, 4400/0396 Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Hold Address: - Operator: - First Recorded: - Last Recorded: -
Not shown	1274	S	445800 404200	Site Address: Railway Cutting, Off Highfield Avenue, Goldthorpe Waste Licence: Yes Site Reference: 20B474(13), WD20 B474, 4400/B474 Waste Type: Inert, Commercial, Liquid sludge, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 17-May-1985 Licence Surrendered: 17-Nov-1986 Licence Hold Address: Amenities and Recreation Department, 50 Huddersfield Road, Barnsley Operator: Barnsley Metropolitan Borough Council First Recorded: 31-May-1985 Last Recorded: 17-Nov-1986

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

1

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

ID	Distance (m)	Direction	NGR	Details	
Not shown	864	E	446700.0 405900.0	Address: Brickworks Quarry, Thurnscoe, nr Dearne, S. Yorks BGS Number: 87.0	Risk: Risk to minor aquifer Waste Type: N/A

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

1

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

ID	Distance (m)	Direction	NGR	Site Address	Source	Data Type
Not shown	1026	S	445563 404519	Public Refuse Tip	1995 mapping	Polygon

3.2 Other Waste Sites

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

0

Database searched and no data found.

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

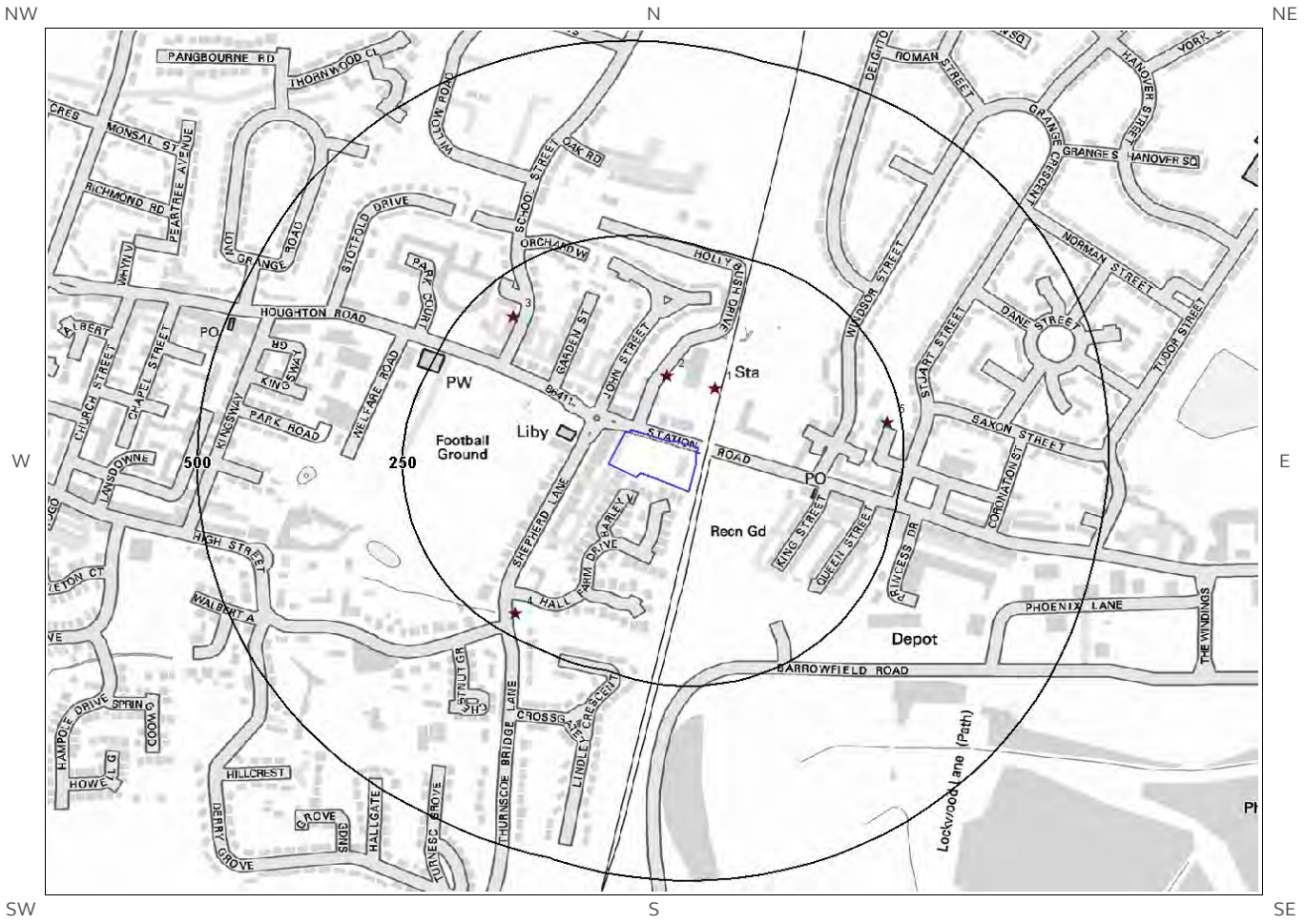
The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
7	526	W	445267 405488	Site Address: 84, High Street, Thurnscoe, Rotherham, South Yorkshire, S63 0QH Type: ELV Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 000186 EPR reference: EA/EPR/KP3492ZZ/S002 Operator: Mrs Stephanie Anne Speight Waste Management licence No: 65316 Annual Tonnage: 2499.0	Issue Date: 11/08/2004 Effective Date: - Modified: - Surrendered Date: 15/07/2005 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Kls Motorbike Dismantlers Correspondence Address: -, -
Not shown	711	N	445940 406300	Site Address: Unit 43, Lidgate Crescent, Langthwaite Grange Indust, South Kirkby, West Yorkshire, WF9 3NR Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: OPT001 EPR reference: EA/EPR/CP3894ZW/S002 Operator: Optimum Group Ltd Waste Management licence No: 65054 Annual Tonnage: 7928.0	Issue Date: 15/10/1999 Effective Date: - Modified: - Surrendered Date: 17/04/2001 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Optimum Group Ltd Correspondence Address: -, -
Not shown	899	S	445500 404700	Site Address: Rear Of Greyhound Stadium, Nicholas Lane, Goldthorpe, Barnsley, South Yorkshire, S63 9AS Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAL004 EPR reference: EA/EPR/DP3190ZD/V002 Operator: Wallis James Waste Management licence No: 60583 Annual Tonnage: 2500.0	Issue Date: 15/06/1989 Effective Date: 15/06/2004 Modified: 26/07/2005 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Goldthorpe Materials Recycling Facility Correspondence Address: -, -
Not shown	899	S	445500 404700	Site Address: Rear Of Greyhound Stadium, Nicholas Lane, Goldthorpe, Barnsley, S Yorks Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JON001 EPR reference: - Operator: Jones Barry Waste Management licence No: 60583 Annual Tonnage: 0.0	Issue Date: 15/06/1989 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Barry Jones Correspondence Address: -, 52, Wingfield Road, Athersley South, Barnsley, S Yorks, S71 3PR
Not shown	1001	E	446900 405600	Site Address: Lidget Lane Ind Est, Albion Drive, Thurnscoe, Rotherham, S Yorks, S63 0BA Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RYD001 EPR reference: - Operator: R G Wastecare Limited Waste Management licence No: 60551 Annual Tonnage: 0.0	Issue Date: 17/10/1994 Effective Date: - Modified: 05/04/2002 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Ryder & Green Correspondence Address: -, Lidget Lane Ind Est, Albion Drive, Thurnscoe, Rotherham, S Yorks, S63 0BA

ID	Distance (m)	Direction	NGR	Details	
Not shown	1001	E	446900 405600	Site Address: Lidget Lane Ind Est, Albion Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BA Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JEW001 EPR reference: EA/EPR/AP3990ZT/V002 Operator: J Edwards Waste Management Ltd Waste Management licence No: 60551 Annual Tonnage: 4999.0	Issue Date: 17/10/1994 Effective Date: 02/02/2007 Modified: 11/12/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: J Edwards Waste Management Ltd Correspondence Address: -, -
Not shown	1013	S	445600 404550	Site Address: Goldthorpe H W R C, Nicholas Lane, Goldthorpe, Barnsley, South Yorkshire, S63 9AS Type: Household Waste Amenity Site Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS066 EPR reference: EA/EPR/DP3990SU/V002 Operator: F C C Recycling (U K) Limited Waste Management licence No: 60610 Annual Tonnage: 24999.0	Issue Date: 14/06/1993 Effective Date: 26/01/2009 Modified: 24/09/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Goldthorpe Household Waste Recycling Centre Correspondence Address: -, -
Not shown	1013	S	445600 404550	Site Address: Goldthorpe Hwrc Site, Nicholas Lane, Thurnscoe, Barnsley, South Yorkshire, S63 9AS Type: Household Waste Amenity Site Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS066 EPR reference: EA/EPR/DP3990SU/T001 Operator: Waste Recycling Ltd Waste Management licence No: 60610 Annual Tonnage: 24999.0	Issue Date: 14/06/1993 Effective Date: 26/01/2009 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Goldthorpe Hwrc Site Correspondence Address: -, -
Not shown	1013	S	445600 404550	Site Address: Nicholas Lane, Thurnscoe, Barnsley, S Yorks Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BDR014 EPR reference: - Operator: South Herts Waste Management Ltd Waste Management licence No: 60610 Annual Tonnage: 0.0	Issue Date: 14/06/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Goldthorpe Civic Amenity Site Correspondence Address: -, 48, Cardigan Road, Stanion, Northants, NN14 1BY
Not shown	1013	S	445600 404550	Site Address: Nicholas Lane, Thurnscoe, Barnsley, S Yorks Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: REG004 EPR reference: - Operator: Regional Waste Recycling Plc Waste Management licence No: 60610 Annual Tonnage: 5000.0	Issue Date: 14/06/1993 Effective Date: 08/12/2006 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Goldthorpe Civic Amenity Site Correspondence Address: -, 2 Cecil Court, 49-55, London Road, Enfield, Middlesex, EN2 6DE

ID	Distance (m)	Direction	NGR	Details	
Not shown	1013	S	445600 404550	Site Address: Goldthorpe Hwrc Site, Nicholas Lane, Thurnscoe, Barnsley, South Yorkshire, S63 9AS Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS066 EPR reference: EA/EPR/DP3990SU/T001 Operator: Waste Recycling Ltd Waste Management licence No: 60610 Annual Tonnage: 24999.0	Issue Date: 14/06/1993 Effective Date: 26/01/2009 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Goldthorpe Hwrc Site Correspondence Address: -, Ground Floor West, 900, Pavilion Drive, Northampton Business Park, Northampton, NN4 7RG

4. Current Land Use Map



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Site Outline

Search Buffers (m)
250
500

Current Industrial Sites

Petrol & Fuel Sites

Electricity Transmission Cables

Gas Transmission Pipelines

4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: 5

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

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	79	N	Thurnscoe Rail Station	445919 405654	S63	Railway Stations, Junctions and Halts	Public Transport, Stations and Infrastructure
2	80	N	Electricity Sub Station	445860 405670	S63	Electrical Features	Infrastructure and Facilities
3	202	NW	Electricity Sub Station	445673 405747	S63	Electrical Features	Infrastructure and Facilities
4	222	SW	Electricity Sub Station	445676 405365	S63	Electrical Features	Infrastructure and Facilities
5	232	E	Electricity Sub Station	446129 405611	S63	Electrical Features	Infrastructure and Facilities

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 0

Database searched and no data found.

4.3 National Grid High Voltage Underground Electricity Transmission Cables

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

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

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

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

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

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

Database searched and no data found.

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

5.2 Superficial Ground and Drift Geology

Database searched and no data found.

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

5.3 Bedrock and Solid Geology

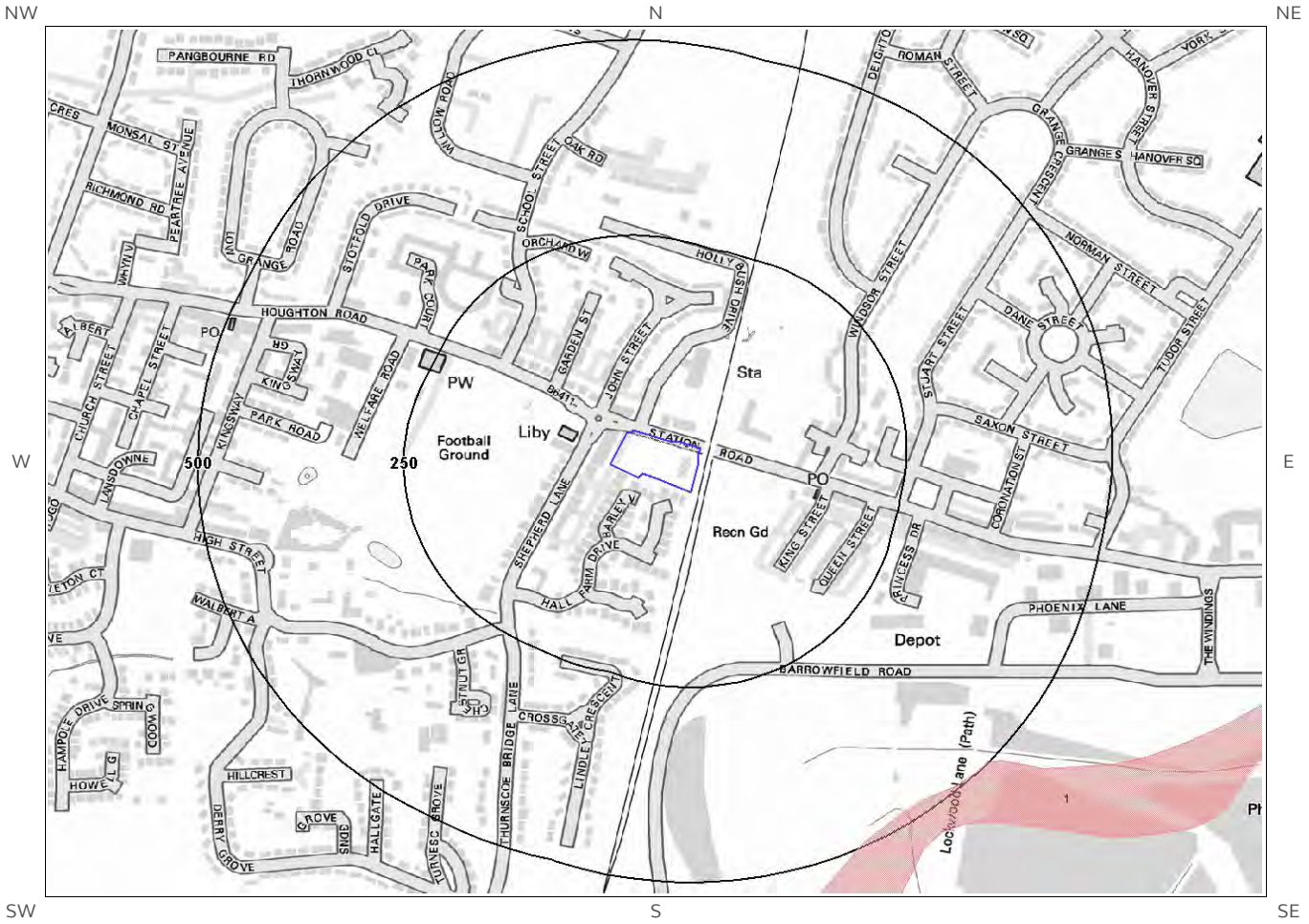
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE

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

6 Hydrogeology and Hydrology

6a. Aquifer Within Superficial Geology



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Site Outline

250 — Search Buffers (m)
500 —

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

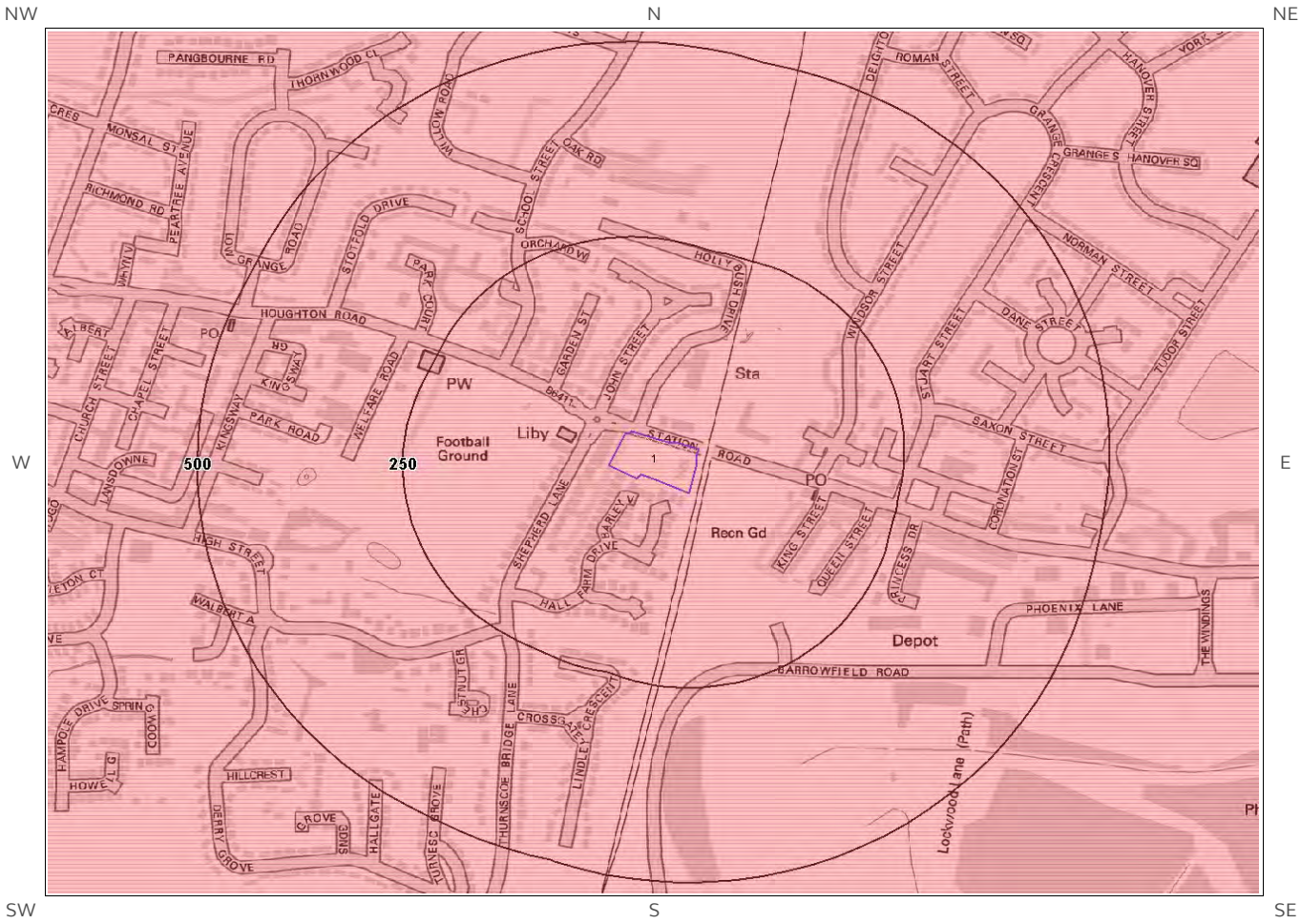
Secondary (B) Aquifer - Lower Permeability Layers

Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

6b. Aquifer Within Bedrock Geology and Abstraction Licenses



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Site Outline

250 — 500 — Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

Secondary (B) Aquifer - Lower Permeability Layers

Groundwater Abstraction Licence

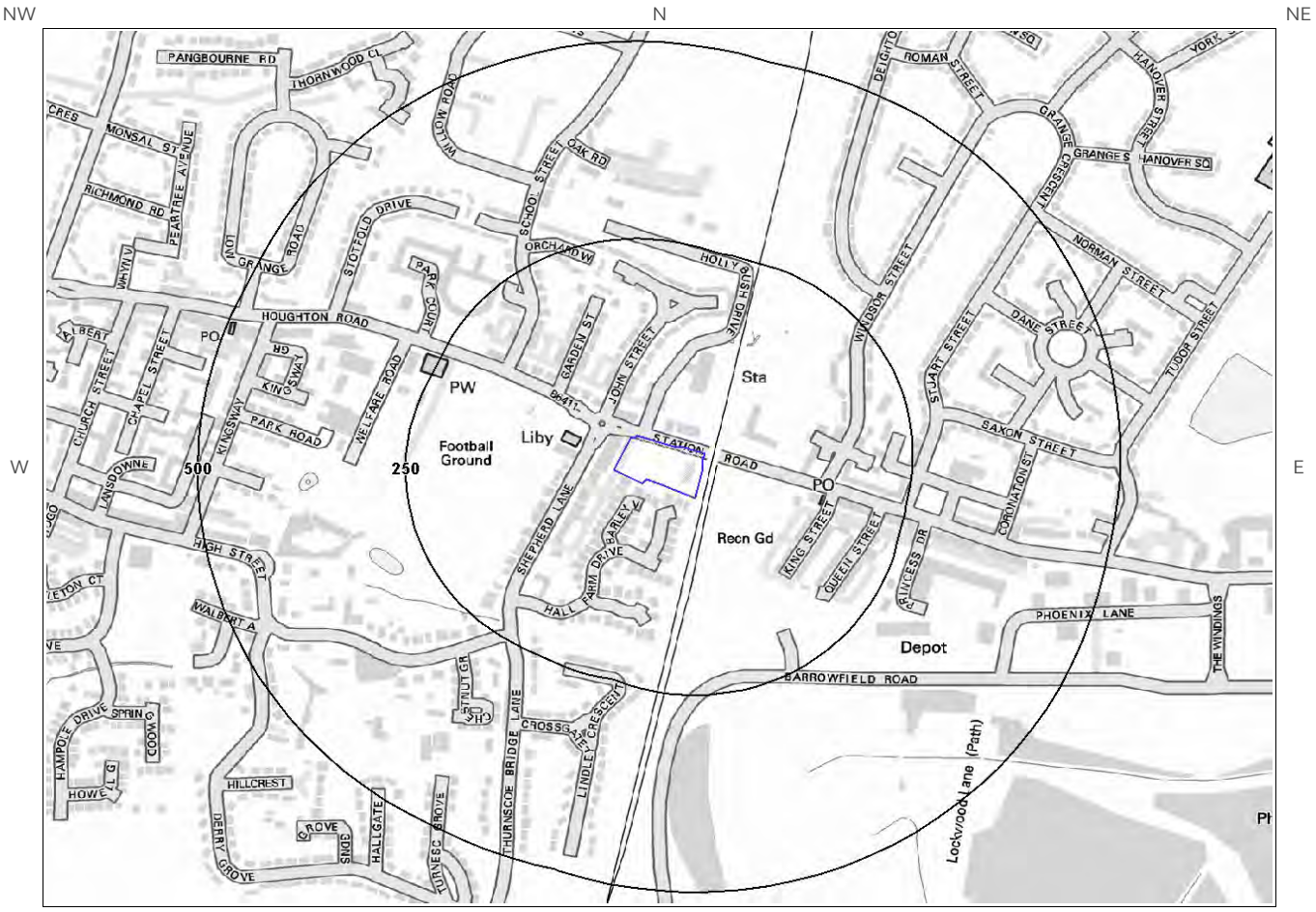
Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

Surface Water Abstraction Licence

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



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Site Outline

250 Search Buffers (m)
500

Source Protection Zone 1 - Inner Catchment

Source Protection Zone 2 - Outer Catchment

Source Protection Zone 3 - Total Catchment

Source Protection Zone 4 - Zone of Special Interest

Potable Water Abstraction Licence