AGLtd

Analytical Geotechnics Ltd

PHASE 1 DESK STUDY INVESTIGATION AT COMPASS ENGINEERING, WHALEY ROAD, BARNSLEY

Client: Compass Engineering Limited

November, 2011.

Report No. 1111899

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EXECUTIVE SUMMARY

- **Site**: Compass Engineering, Whaley Road, Barnsley.

- **Client**: Cameron Darroch Associates and Compass Engineering Limited.

- **Scope of Work**: Analytical Geotechnics Limited was required to carry out a phase 1 desk study investigation to ascertain the likely geological, geotechnical and contamination issues affecting the site. Historical maps, agency and local authority data and a mining report were consulted for this study.

- **Site History**: The site is indicated to have been in agricultural use until the late 1920s when it became part of Barugh Coke Works. Approximately 40 years ago, the coke works were removed and the site was developed for an industrial estate. Recently the site has been used for vehicle parking and offices for Compass Engineering.

- **Geological Background**: The site is indicated to be underlain by the Pennine Middle Coal Measures of Carboniferous age.

- **Ground and Surface Water**: The River Dearne is located about 740m. to the north-north-east with a minor stream about 165m. to the south-west. The strata beneath the site are classed as a secondary aquifer. The site is not within a source protection zone or a fluvial flood plain. Shallow groundwater could be present within more granular strata.

- **Foundations**: Trench fill within firm to stiff clay where present or on the underlying bedrock. Any made ground present is unlikely to be suitable for foundation support. A suspended ground floor slab may be necessary.

- **Plasticity and Sulphates**: Additional precautions to protect the structure from clay shrinkage or heave should generally not be required unless construction is proposed near to trees. Excessive sulphates may occur within the made ground and upper horizon of natural soil or rock. Testing is recommended to establish the sulphate content as well as the plasticity of any clay deposits that may be encountered.

- **Contamination**: The site has a history of industrial development for the past 80 years, although recent use would not appear to have been highly contaminative. The former coke works which surrounded the site may provide an off site source of contamination. An infilled pond and nearby historic waste tips could be sources of landfill gas. It is understood that the site will be developed for offices and parking with minimal soft landscaping. At this stage a moderate to low risk is considered applicable to end users with a negligible risk to visitors, construction workers and controlled waters. The risk to end users, visitors and construction workers from landfill gas has been assessed as high to moderate.

- **Recommendations**: An intrusive investigation would be advised to ascertain ground conditions, provide geotechnical data and obtain samples of fill and/or natural soil for contamination analyses. Standpipes for gas measurement should be installed.

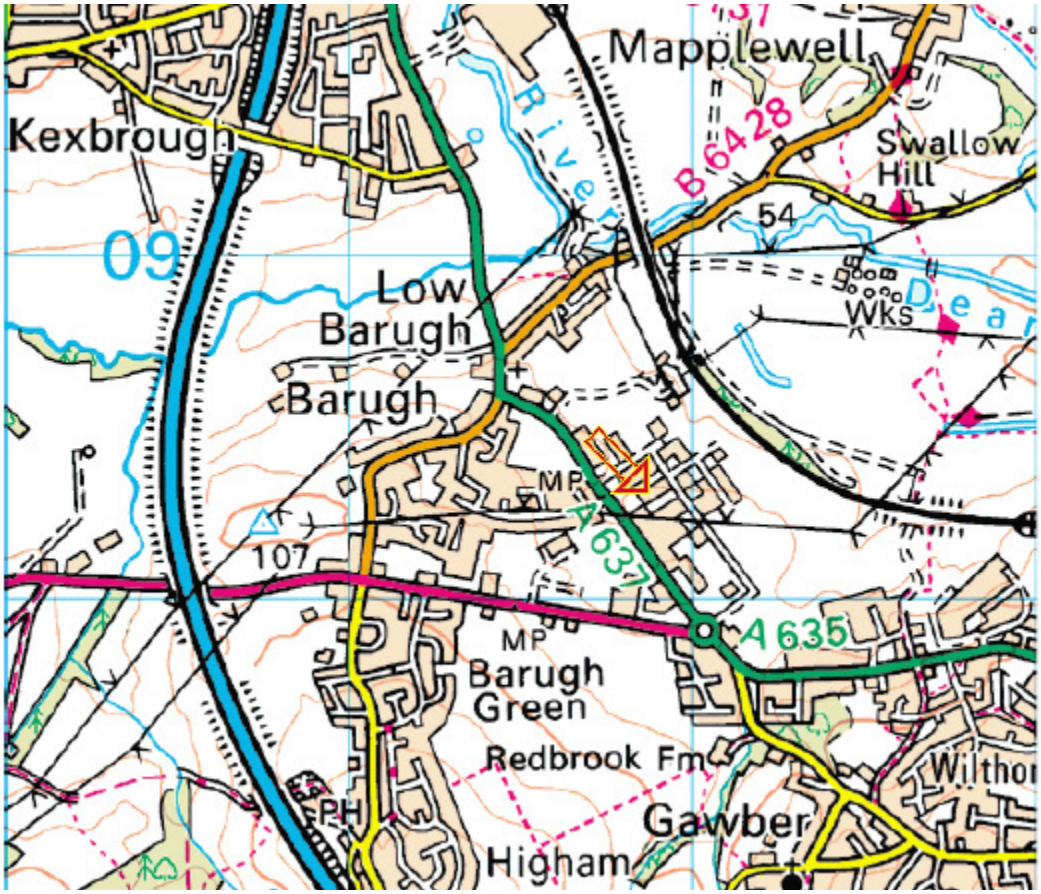
1.0 INTRODUCTION

1.1 At the request of Cameron Darroch Associates acting on behalf of Compass Engineering Limited, a desk study was carried out for a proposed new office and car park at Whaley Road, Barnsley.

1.2 This report describes the history of the site, the anticipated ground conditions and discusses the potential risk from contamination. Historical maps, Envirocheck data and a mining report pertaining to the site are appended. The content and use of this desk study report are specifically restricted as stated in section 10.15.

2.0 SITE HISTORY

2.1 The site is located at national grid reference 431950, 408310, approximately 3.2km. to the north-west of Barnsley town centre. The site is bounded to the north-east by Whaley Road and to the other three sides by existing light industrial premises.



2.2 Maps dating back to 1855 were examined for this study and selected copies are included in Appendix I.

2.3 The 1855 1:10560 edition map shows the site to be in agricultural use. A sandstone quarry (Clay Cliff quarry) is located about 120m. to the west of the site and a disused (?) coal

mine (Gawber Old colliery) is present approximately 1.1km to the east-north-east The Lancashire and Yorkshire Railway is shown approximately 240m. to the north-east with the Silkstone Coal Branch line some 300m. to the north-west. The Barnsley Canal is shown about 380m. to the north-east with the River Dearne approximately 740m. to the north-north-east. A minor stream or drain is located approximately 165m. to the south-west just west of the Barnsley to Huddersfield road.

2.4 The maps of 1891 and 1906 at a scale of 1:2500 show the site and immediate surrounds to be little changed, however by 1931, the site is shown to be part of Barugh coke works. A rectangular tank is present just within the south-western boundary of the site with further tanks just outside the south-western and south-eastern boundaries. A pitch bed is located adjacent to the south-western corner of the site. Railway sidings are located about 15m. to the south-west with the main coke ovens about 55m. in the same direction. A chemical works lies approximately 150m. to the south-east.

2.5 The 1:10560 maps dated 1938, 1948 and 1956 do not suggest there to have been any significant changes to the site, however by 1960 the coke ovens and associated buildings, chimneys and tanks had been removed. The chemical works to the south-east is also no longer shown. The railway sidings to the south-west still remain. A pond is shown encroaching into the north-eastern part of the site and the southern part of the site now appears to be raised above the north area.

2.6 By 1971, the pond appears to have disappeared and the railway sidings removed. Two refuse tips are located nearby, one being about 20m. to the west and the other about 125m. to the west-north-west. A road haulage depot is now present approximately 75m. to the south-west. Redbrook Steelworks is located about 85m. to the south-west.

2.7 The 1978 map shows Whaley Road to have been constructed immediately to the east of the site. Depots are now located on the north-east side of the road and a warehouse is present some 65m. to the north-west. An electricity sub-station is shown opposite the site about 15m. from the north-eastern boundary.

2.8 By 1989 the site had become part of South Yorkshire (Redbrook) Industrial Estate, although no development had as yet taken place within the site boundaries.

2.9 The 1993 map indicates a rectangular building to be present just outside the site, partially occupying the north-western boundary. Access roads would appear to have been constructed into the site although no buildings had been erected.

2.10 By 2000, the building to the north-west had been enlarged and now occupies part of the northern end of the site and extends along part of the south-west boundary. The 2006 and 2011 maps do not indicate any further changes to the site.

2.11 Currently the site, is substantially covered by a tarmac surfacing and used for vehicle parking. Temporary, prefabricated offices occupy the northern part of the site with a strip of grass covered landscaping along the Whaley Road frontage. Existing Compass Engineering buildings are present to the north and west of the site with further light industrial buildings on adjoining land to the south.

3.0 GROUND CONDITIONS

3.1 According to maps and publications of the British Geological Survey, the site is underlain by the Pennine Middle Coal Measures Formation of Carboniferous age.

3.2 The site is indicated to be in an area which may be affected by coal mining. A report from the Coal Authority is attached. The findings of this report may be summarised as follows: Three seams of coal have been worked beneath the site, the shallowest being 120m. b.g.l. Working ceased in 1981 and any associated ground movements should have ceased by now. There is no current or future planned mining likely to affect the site. There are no known coal mining entries within or within 20m. of the property boundary. No past, current or future open cast coal mining is known to affect the site. There is no record of the site being affected by coal mining subsidence since 1994. There are no records of the site being affected by gas associated with underground coal workings. The property is in an area for which a notice of withdrawal of support was issued in 1987.

3.3 No risk from shallow mining is indicated.

3.4 A very low hazard is suggested with respect to compressible, collapsible or dissolution ground stability.

3.5 There is a very low risk with respect to the potential for landslide or instability.

3.6 A very low risk is indicated from running sand instability.

3.7 There is suggested to be a very low risk with respect to the potential shrinkage or swelling of clay strata.

4.0 GROUND AND SURFACE WATER

4.1 The strata beneath the site are indicated to comprise a secondary aquifer. These are deposits which whilst not having a high primary permeability may be important for local supplies and providing base flow to rivers.

4.2 The soil leaching potential is suggested to be high.

4.3 The site is not indicated to be within a source protection zone.

4.4 The site is not indicated to be affected by fluvial flooding.

4.5 The nearest principal surface water course is the River Dearne approximately 740m. to the north-north-east.

4.6 The nearest water abstraction point is about 1.45km. to the north from ground water. No surface water abstractions are listed.

5.0 NEIGHBOURING TRADES

5.1 Directory information indicates the following trades to be active within about 250m. of the site: car dealers; cash register equipment; road haulage; agricultural engineers; wrought ironwork; car body repairs; wire products. Trades now shown to be inactive include: coal mining equipment; road haulage; pet and animal feeds; garage services; car dealers; steel manufacture; freight forwarding.

6.0 POLLUTION INCIDENTS

6.1 No pollution incidents to controlled waters have been notified within about 250m. of the site.

6.2 Eight local authority pollution prevention control orders are recorded within about 250m. of the site. These were located between 14m. to the north (blending, packing, loading bulk cement) and 242m. to the south (re-spraying of road vehicles). One of these was issued to Compass Engineering Ltd in 1998 about 25m. west of the site for metal and plastic coatings.

6.3 Air pollution control enforcement notices have been issued approximately 90m. to the south west and 110m. to the north of the site. No further details are provided.

6.4 No integrated pollution prevention control permits have been issued within about 250m. of the site.

7.0 LANDFILLS AND WASTE

7.1 Three historical landfill sites are shown within about 250m. of the site. These were about 75m. to the south-east, 109m. to the north and 177m. to the south-east. Last input dates were between 1984 and 1994. Type of waste was predominantly inert materials, although commercial waste was permitted in the landfill furthest to the south-east.

7.2 One registered landfill site is recorded within about 250m. of the site, being approximately 199m. to the north. The licence has been revoked. Type of waste included cold asphalt, construction and demolition waste, excavated natural material, rubber.

8.0 MISCELLANEOUS

8.1 The site is indicated to be within a radon affected area. No radon protective measures are however stated to be necessary in new buildings and extensions.

8.2 Two discharge consents have been recorded within about 250m. of the site. These were granted in 1987 and 1993 to Powerscreen International about 124m. to the west. The consents were for site drainage into a tributary of the River Dearne.

8.3 The nearest fuel station entry (now obsolete) is shown to be 338m. to the south at Claycliffe Road.

8.4 One former BGS recorded mineral site was located about 135m. to the west at Clay Cliff for quarrying of sandstone.

9.0 DISCUSSION

9.1 The evidence obtained for this investigation suggests the site was in agricultural use until sometime in the late 1920s when it became part of a coke works and included at least one storage tank. There is evidence to suggest that the southern part of the site was subject to filling with a former pond located towards the north-eastern end. Following closure of the coke works sometime between 1956 and 1960, the site appears to have been derelict until approximately 1990 when it would appear to have been used for vehicle parking. Since this time temporary office buildings have been erected within the northern part of the site and the parking area surfaced with tarmac. Adjoining premises comprise engineering works.

9.2 Made ground, associated with the filling of the southern area and the pond in the north east as well as levelling for vehicle parking could be present. Fill materials are unlikely to be suitable for foundation support.

9.3 The natural strata are indicated to comprise the Pennine Middle Coal Measures. These are likely to consist of mudstone, siltstone, sandstone and coal seams. The mudstones in particular could weather near surface into clay. Whilst the relatively fresh rock would be expected to prove suitable for the support of lightly loaded foundations, any clay present could be variable in consistency. It must be stressed that an intrusive investigation should be carried out to ascertain the nature of the sub surface deposits and establish the ground bearing capacity.

9.4 The presence of a former pond in the north-eastern part of the site may indicate that some perched groundwater could be encountered. Granular deposits such as sandstone could also be water bearing.

9.5 Clay deposits may occur and testing would be advisable to establish their shrinkage potential.

9.6 Soluble sulphate tests should be undertaken to classify the soil for concrete specification. The pH of the soils should also be determined to ascertain whether aggressive ground conditions occur.

9.7 The historical data would suggest that the site was part of a coke works for approximately 30 years and for the last 20years has been part of an industrial estate. Recent use is understood to have been for structural steel fabrication, although the part of the site to be

developed has been used for vehicle parking and office work. The most likely source of contamination would be from the presence of coal and coal combustion products, tar, demolition rubble or waste construction materials and lubricating oils used for the manufacturing machinery. One tank was formerly present on the site, with others on adjacent land. The contents have not been identified. As heavy goods vehicles are used for transportation it is feasible there may have been some spillage of fuel or oil. Typical contaminants associated with the aforementioned site usage would include acids, alkalis, ammonia, cyanide, heavy metals, sulphur, PAHs, phenols, TPHs and asbestos. Off site sources of similar contaminants would be expected.

9.8 A former pond was located in the north-eastern part of the site, extending beyond the boundary. This would appear to have been filled some 40 years ago during reclamation of the area. It is feasible that biodegradable materials may have been present within the pond with the potential for the generation of landfill gasses. Investigation in this area would be advisable to establish whether there is a risk to the proposed development from hazardous gas emissions. Landfills were located within 250m. of the site and whilst much of the waste is suggested to have been inert, there is a possibility that some biodegradable waste was included. Any made ground or sandstone bedrock present could provide pathways for the migration of landfill gas towards the site.

9.9 The nearest surface water receptor for potential contaminants is a minor stream about 165m. to the south-west. The hydraulic gradient is however considered more likely to be in a north-easterly direction, towards the River Dearne, some 740m. in this direction. There is however no evidence to suggest a direct linkage to this water course and it is considered that the risk to surface water will be minimal.

9.10 The strata beneath the site are stated to comprise a secondary aquifer which may be highly vulnerable to leachate migration. The nearest abstraction point is indicated to be about 1.4km. to the north and in view of the extended transit distance, there is unlikely to be any significant adverse effects on the quality of groundwater abstracted from this point.

10.0 CONCLUSIONS AND RECOMMENDATIONS

10.1 Site conditions are expected to comprise Coal Measures strata consisting of clay, mudstone, siltstone, sandstone and coal seams. Shallow groundwater may be encountered within the sandstone.

10.2 Fill materials could be present, most likely comprising coal, coke, ash and general building rubble. These will probably vary in composition and degree of compaction and in general they would not be considered suitable for the support of foundations.

10.3 Clay deposits may occur as a result of weathering of the mudstone and could be variable in strength. In general, the underlying rock should provide a reasonable bearing horizon. Testing and inspection will be necessary to establish safe bearing pressures.

10.4 Atterberg limit tests would be necessary to provide an assessment of the shrinkage potential of any clay strata present at the site. Where tree roots are likely to affect proposed foundations, deeper excavation may be required.

10.5 Tests to determine the soluble sulphate content and pH of the various strata present at the site will be necessary to ensure that subsurface concrete is not at risk.

10.6 The site history indicates the site to have been undeveloped and predominantly in agricultural use until sometime in the 1920s when Barugh Coke Works was developed. This process is indicated to have been active for some 30 years since when the site was cleared and developed for the South Yorkshire Industrial Estate. Recently it has been used for parking and temporary offices as part of Compass Engineering Limited (steel fabricators). Given the historical use, there is a likelihood that the site may be affected by significant contamination. Potential contaminants are those likely to be associated with coal carbonisation, tar and possibly gas production, demolition rubble, lubricating oils and diesel fuel. There is also a possibility of off site contaminants affecting the site from the former coke and chemical works. It is therefore recommended that precautionary chemical testing is undertaken. This should include ammonia, cyanide, metals, pH, PAHs, phenols, sulphur, sulphate, TPHs and asbestos fibres.

10.7 A former pond was located just within the site which may provide a potential source of landfill gas and precautionary testing would be recommended. Landfill gas could also be associated with the historic waste tips located within 250m. of the site.

10.8 It is understood that the proposed development will comprise offices and hard surfaced parking with minimal soft landscaping. The most likely pathways for the transmission of potential contaminants would be: the inhalation of vapour/gas and indirect ingestion from contaminated soils via unprotected water supply pipes. Dermal contact and particulate inhalation may also affect ground workers.

10.9 Receptors include end users, although limited to normal working hours. A temporary risk may be attributed to visitors and construction workers, although exposure for the former would be very short term and provided the latter adhere to the appropriate health and safety guidelines, any risk is considered to be minimal.

10.10 The strata underlying the site are classed as a secondary aquifer with a high leaching potential. Should a significant source of contamination be revealed at the site, then it is possible that the quality of groundwater within this aquifer could be compromised. The nearest viable groundwater abstraction is however approximately 1.4km. to the north and is unlikely to be adversely impacted. It is thought unlikely that a pathway for contamination of surface water would exist given the likely extended transit distance to the primary surface water receptor.

10.11 No radon protective measures are indicated to be necessary in the construction of new buildings. This should however be confirmed with the local authority prior to the commencement of construction.

10.12 A tabulated qualitative risk assessment and conceptual model is provided in Appendix III and may be expressed in written form as follows:

- A potential source of contamination has been identified at the site from the possible presence of acids, alkalis, ammonia, cyanide, metals, hydrocarbons, sulphur, sulphate and

asbestos fibres associated with the coke works, building waste, heavy goods vehicles and engineering processes. Landfill gasses could be present.

- The principal pathway for transmission of potential contaminants would be indirect ingestion and vapour/gas inhalation. In addition, dermal contact and inhalation of particulates may affect ground workers. A pathway through possible permeable fill and bedrock to ground water may be present.

- Receptors include end users, although with exposure limited to working hours. Visitors and construction workers could be temporarily affected. The secondary aquifer is considered to be a viable receptor for leachate migration.

- The available data have established a pollutant linkage at the site and a moderate to low risk is thought applicable to end users from on/off site contaminants. A negligible risk is more likely for visitors, construction workers and controlled waters. A high to moderate risk with respect to gas emissions is considered applicable to end users, visitors and construction workers.

10.13 It is recommended that an intrusive investigation is carried out at the site to ascertain the geotechnical properties necessary to design the foundations and to establish whether any significant contamination is present. This should include for exploratory holes to be sunk through any fill and to prove the natural strata. Geotechnical testing should be carried out to determine strength, clay plasticity, sulphate and pH. Contamination analyses should be undertaken as a precautionary measure to ascertain the concentration of those potential contaminants previously identified. If further suspect material is revealed, then the testing regime should be amended accordingly. It would be advisable to install standpipes to allow measurement of any ground gas that may present.

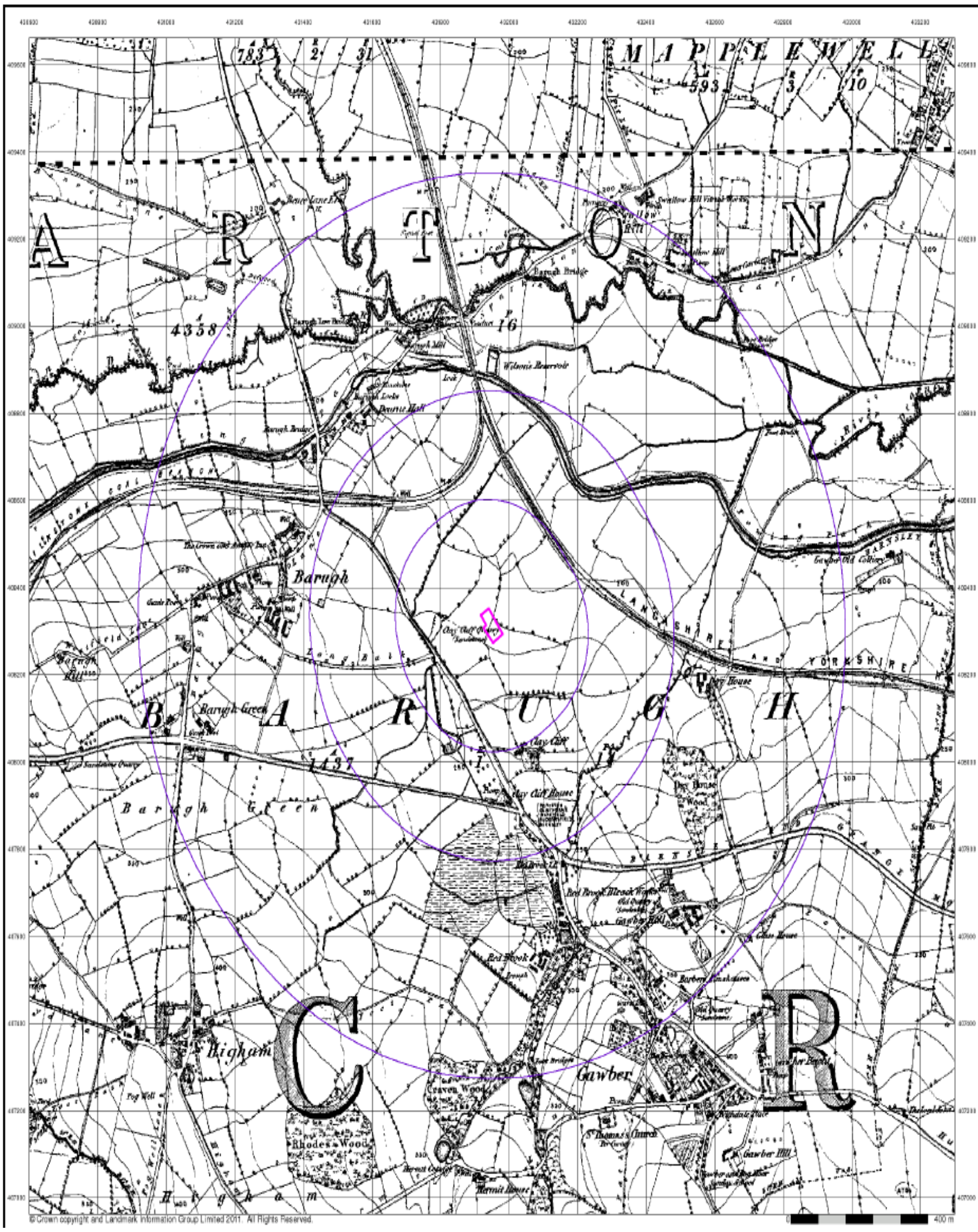
10.14 This report has been prepared solely for the use of Compass Engineering Limited and Cameron Darroch Associates. No responsibility will be accepted where any other party uses it in any part or its entirety. The data contained within this report have been taken from an examination of available maps, reports, summaries of directory and agency data and are not guaranteed to be exhaustive. All comments, conclusions and recommendations which are based on information/results provided by third parties are given in good faith on the assumption that such information/results are true and correctly reported. It must be stressed that no liability will be accepted for any changes that may be revealed as a result of any intrusive investigation or from provision of additional data that were not made available prior to preparation of this report. In the event of any omission or lack of care or diligence in carrying out the investigation, the extent of any liability shall be limited to the re-performance of the service by Analytical Geotechnics Limited up to the total value paid by the client. If this report is to be incorporated into contract documents, then it shall be made clear to tenderers that they shall make their own interpretation and obtain confirmation of the data by thorough ground investigation and laboratory testing. We must stress that the use or assignment of this report, whether in its entirety or in any part, is expressly prohibited unless payment is received by Analytical Geotechnics Limited within the specified credit period The content of this report may not be published in any form, including but not limited to display on the internet without the express written permission of Analytical Geotechnics Limited.

Analytical Geotechnics Limited **November, 2011**

APPENDIX I

HISTORICAL MAPS

Report No. 1111899



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Envirocheck

Yorkshire

Published 1854 - 1855

Source map scale - 1:10,560

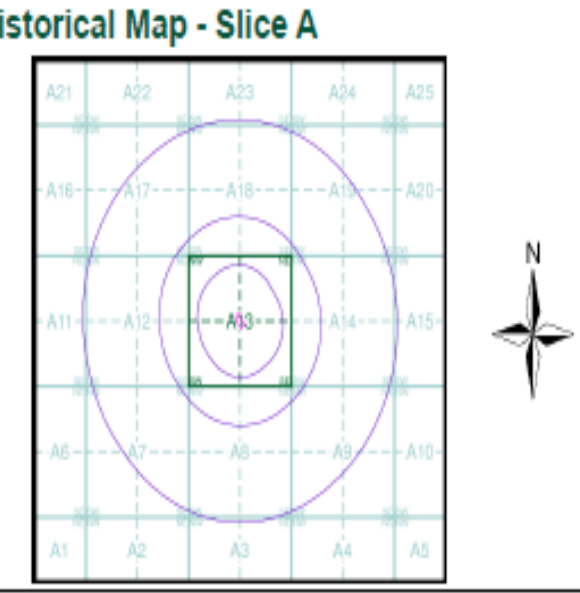
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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.

Map Name(s) and Date(s)

26200
1854
1:10,560

27400
1855
1:10,560

Historical Map - Slice A



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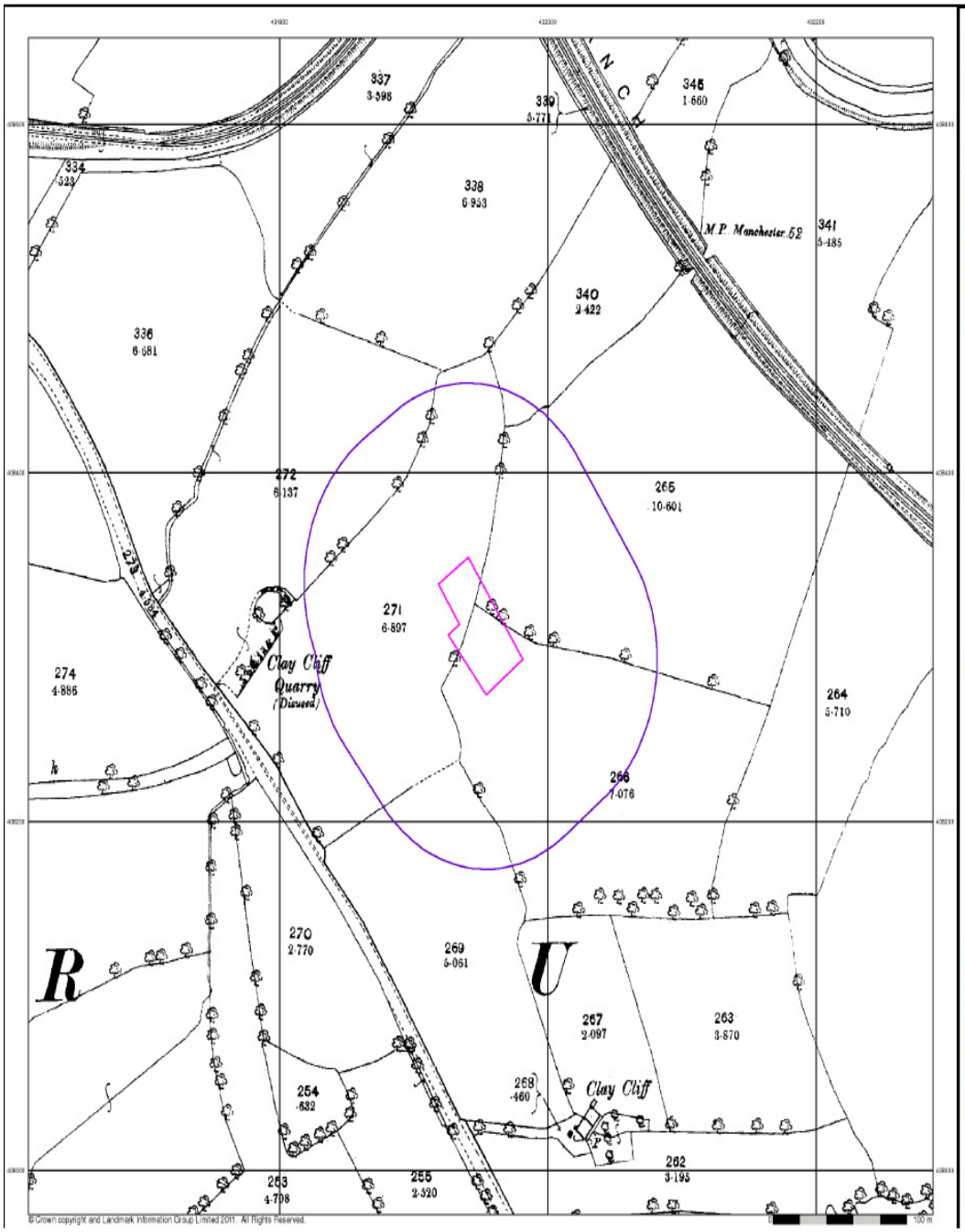
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Customer Ref: 1111899
National Grid Reference: 431950, 408310
Slice: A
Site Area (Ha): 0.24
Search Buffer (m): 1000

Site Details

Compass Engineering Ltd, Whaley Road, BARNSLEY, South Yorkshire, S75 1HT

Landmark Information Group

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



Envirocheck

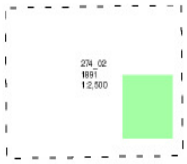
Yorkshire

Published 1891

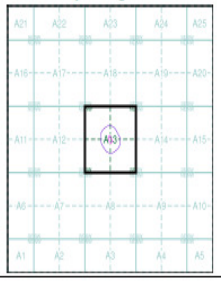
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



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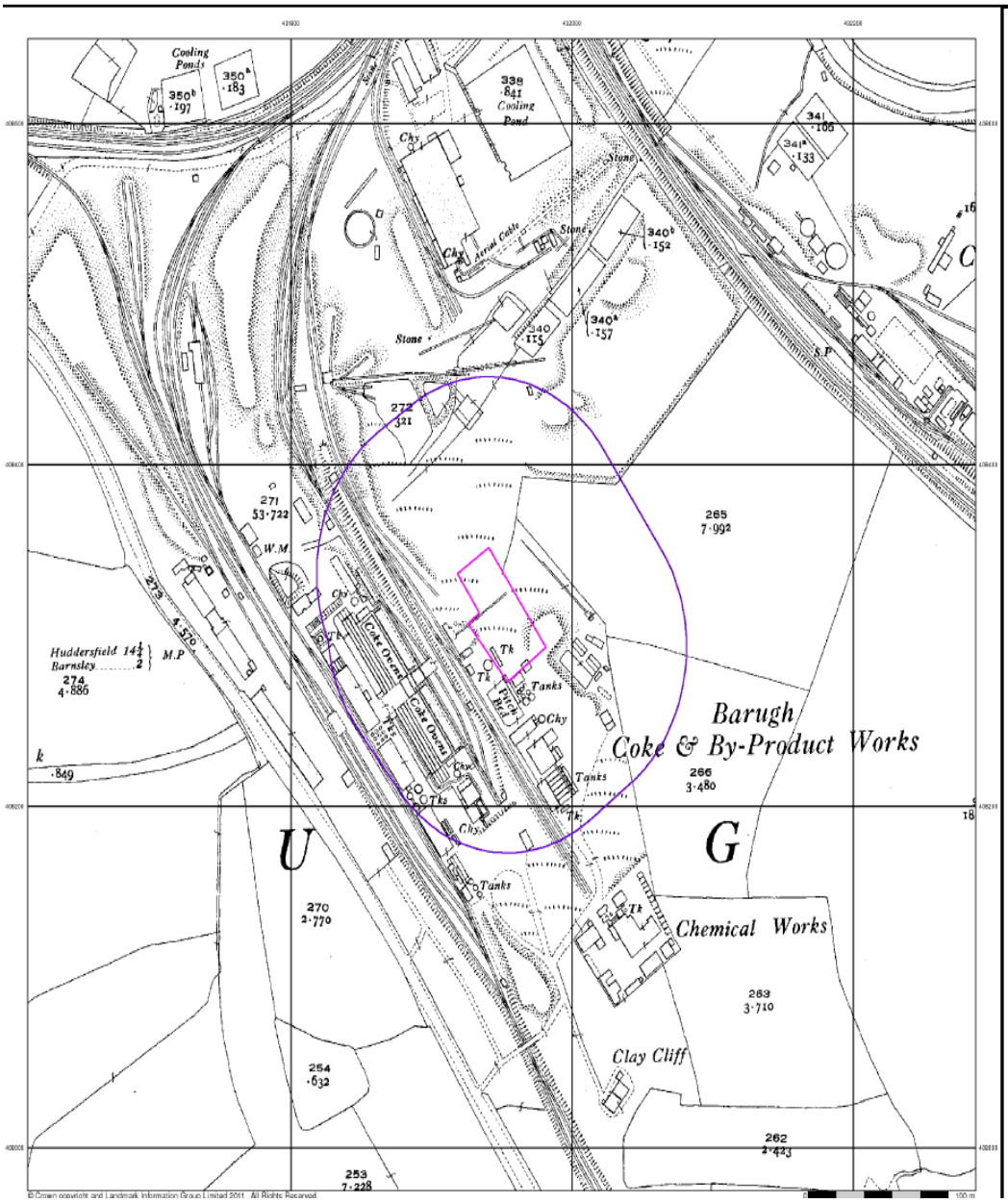
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Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	100

Site Details

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Landmark Information Group

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Yorkshire

Published 1931

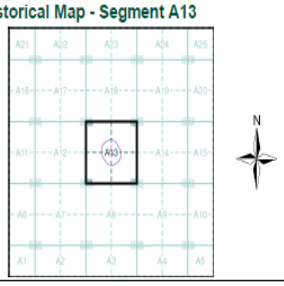
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Map Name(s) and Date(s)



Historical Map - Segment A13



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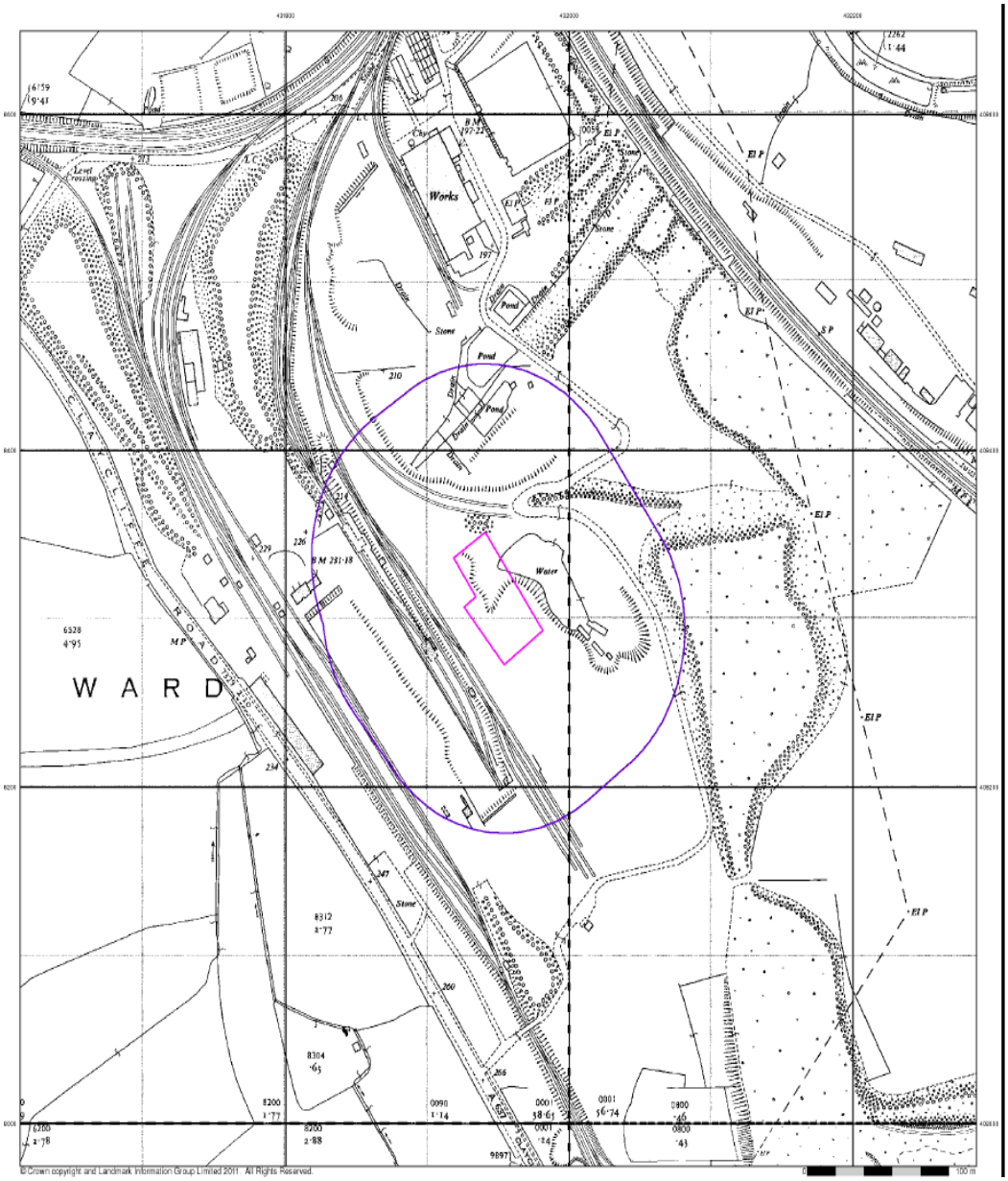
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Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	100

Site Details

Compass Engineering Ltd, Whaley Road, BARNSLEY, South Yorkshire, S75 1HT

Landmark Information Group

Tel: 0844 844 9952
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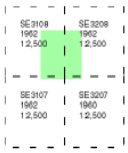


Envirocheck

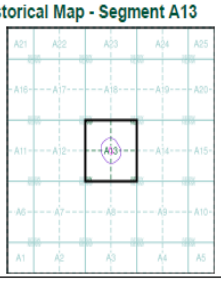
Ordnance Survey Plan
Published 1960 - 1962
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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Web: www.envirocheck.co.uk



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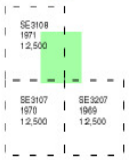
Ordnance Survey Plan

Published 1969 - 1971

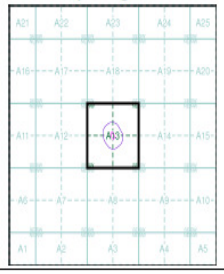
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

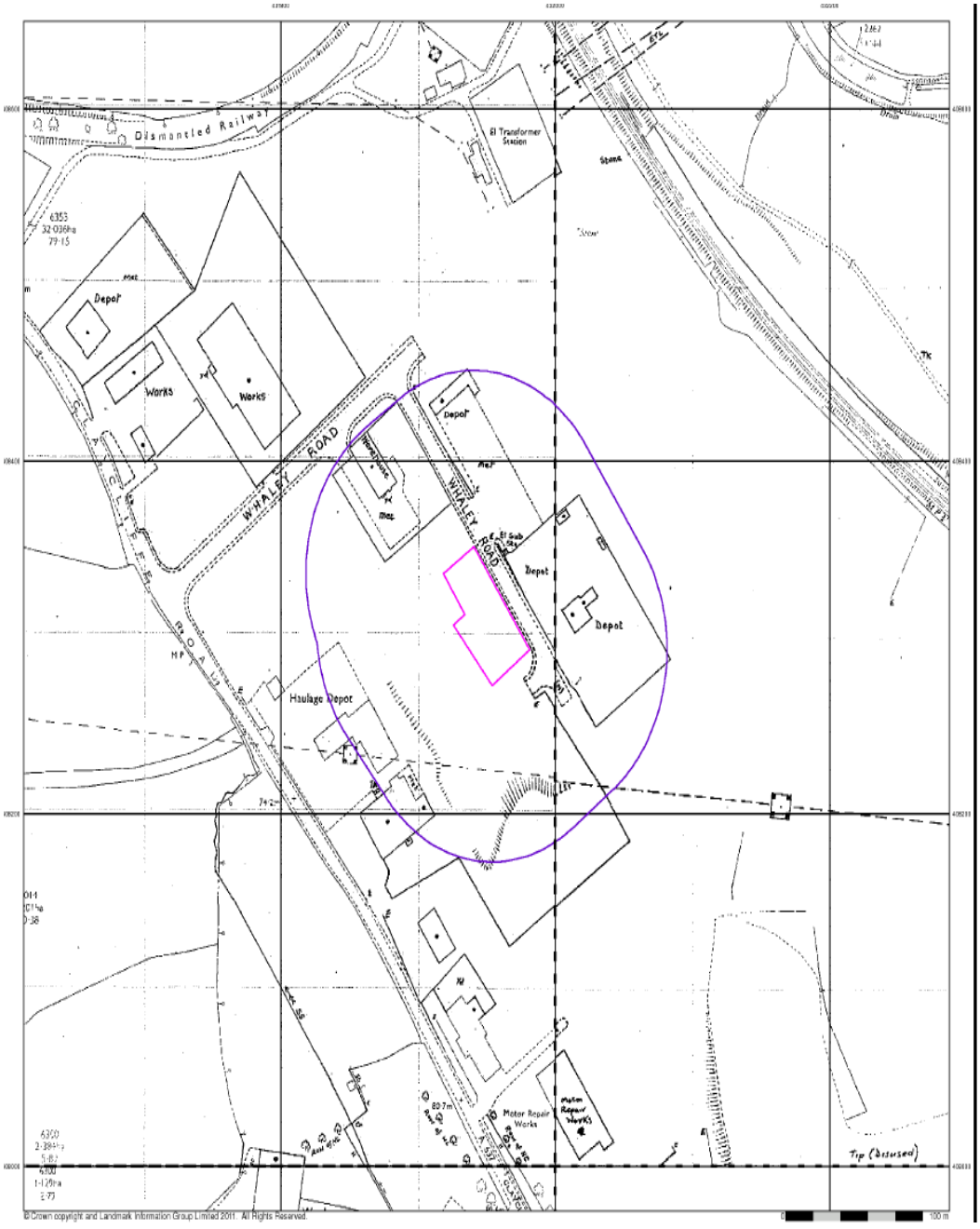
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Customer Ref:	1111899
National Grid Reference:	431950, 408310
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	100

Site Details

Compass Engineering Ltd, Whaley Road, BARNSLEY, South Yorkshire, S75 1HT

Landmark Information Group

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



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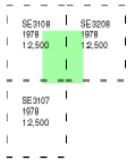
Additional SIMs

Published 1978

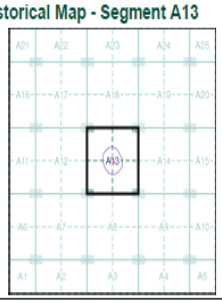
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

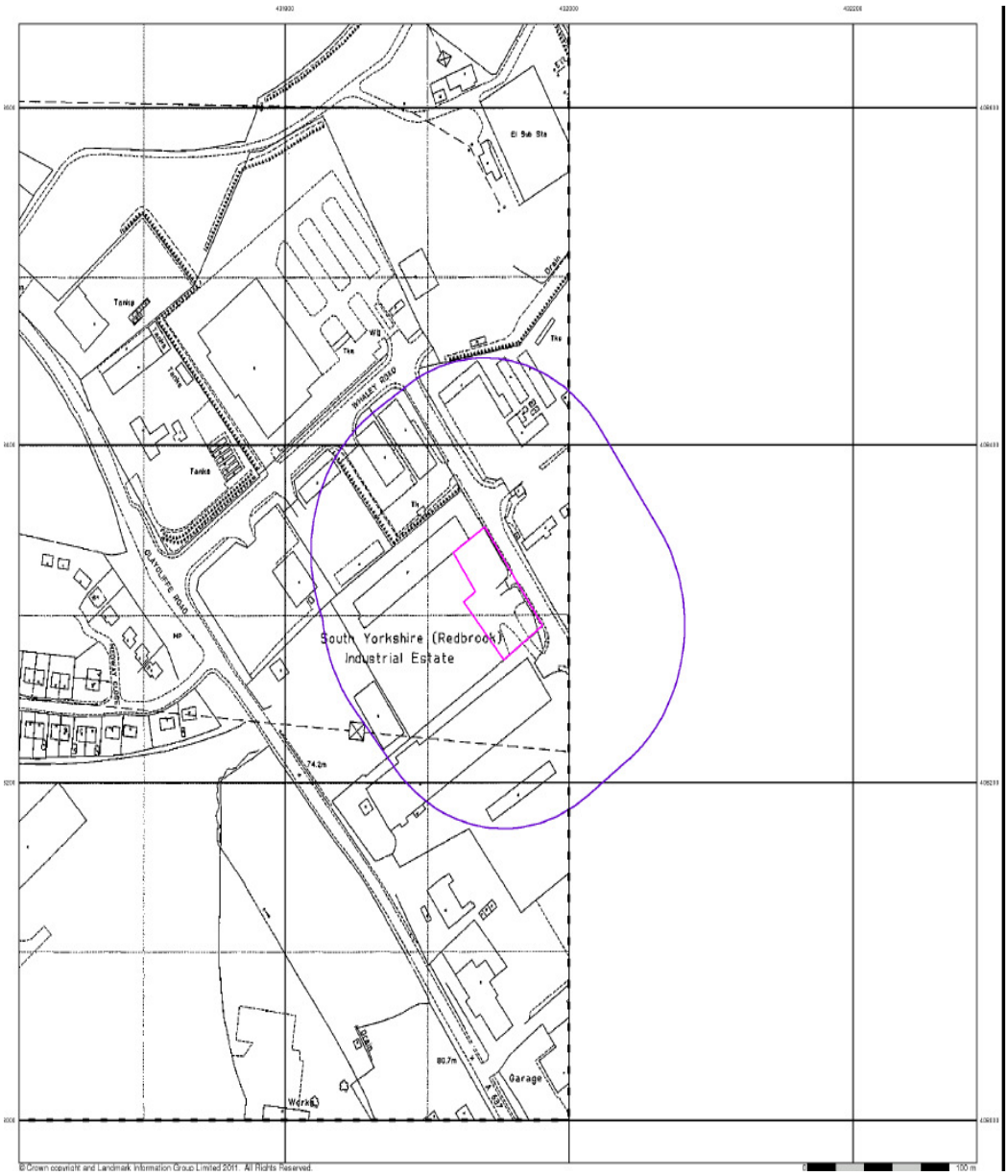
Order Number:	36739713_1_1
Customer Ref:	1111899
National Grid Reference:	431950, 408310
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	100

Site Details

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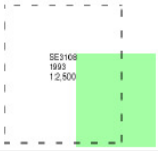
Large-Scale National Grid Data

Published 1993

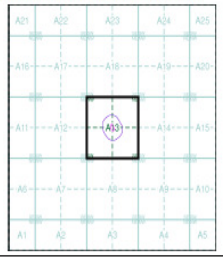
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

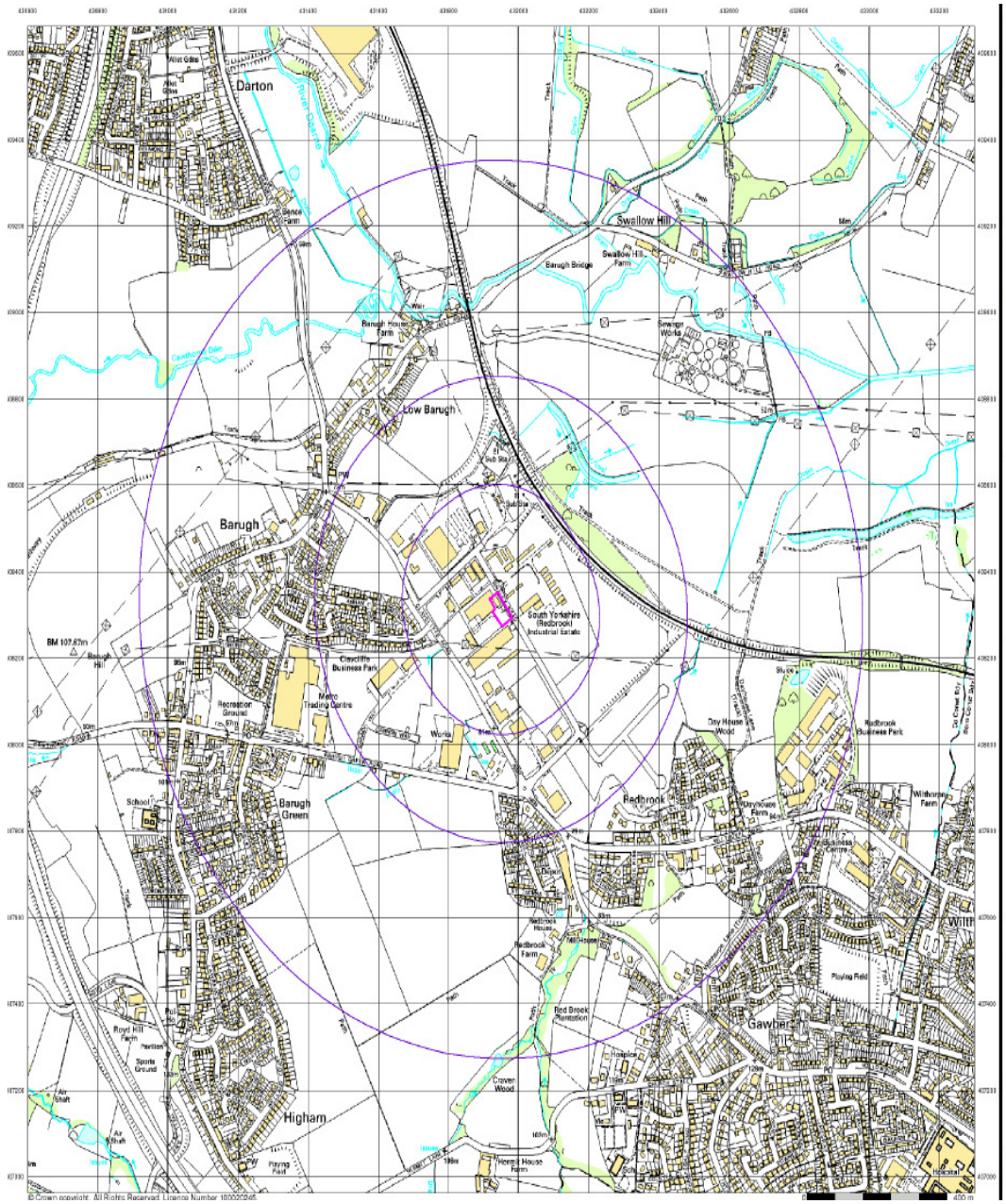
Order Number:	36739713_1_1
Customer Ref:	1111899
National Grid Reference:	431950, 408310
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	100

Site Details

Compass Engineering Ltd, Whaley Road, BARNSLEY, South Yorkshire, S75 1HT

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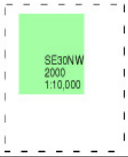


Envirocheck

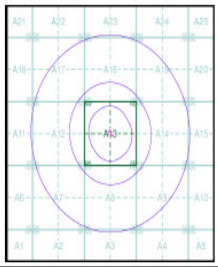
10k Raster Mapping
Published 2000
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	36739713_1_1
Customer Ref:	1111899
National Grid Reference:	431950, 408310
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	1000

Site Details

Compass Engineering Ltd, Whaley Road, BARNSLEY, South Yorkshire, S75 1HT

Landmark Information Group

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Web: www.envirocheck.co

COMPASS ENGINEERING, WHALEY ROAD, BARNSLEY

CLIENT: Compass Engineering Limited

APPENDIX I I

ENVIROCHECK REPORT

Report No. 1111899

Analytical Geotechnics Limited

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
36739713_1_1

Customer Reference:
1111899

National Grid Reference:
431950, 408310

Slice:
A

Site Area (Ha):
0.24

Search Buffer (m):
1000

Site Details:

Compass Engineering Ltd
Whaley Road
BARNSLEY
South Yorkshire
S75 1HT

Client Details:

J Davies
Analytical Geotechnics Limited,
Fairfield House,
1 Fairfield Street,
Bingham
Nottinghamshire
NG13 8FB

Prepared For:

Compass Engineering Limited

Envirocheck®

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		2		33
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 9		8		2
Local Authority Pollution Prevention and Control Enforcements	pg 11		2		
Nearest Surface Water Feature	pg 11		Yes		
Pollution Incidents to Controlled Waters	pg 11			2	22
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters	pg 15				1
Registered Radioactive Substances	pg 15				1
River Quality	pg 15				3
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points	pg 16				1
Substantiated Pollution Incident Register	pg 17				1
Water Abstractions	pg 17				(*1)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 17	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 17	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
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
Waste					
BGS Recorded Landfill Sites	pg 18				1
Historical Landfill Sites	pg 18		3	6	8
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites	pg 21		3	5	7
Registered Landfill Sites	pg 24		1	3	5
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS Recorded Mineral Sites	pg 28		1		4
BGS 1:625,000 Solid Geology	pg 28	Yes	n/a	n/a	n/a
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 28	Yes	n/a	n/a	n/a
Mining Instability	pg 28	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 29	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 29	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 29	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 29	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 29	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 29	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 29	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 30		17	n/a	n/a
Fuel Station Entries	pg 31			1	1

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Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Powerscreen International Plc Property Type: Basic Industry, Chemicals Inorganic Location: Prism Works Claycliffe Road, Barugh, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C4750 Permit Version: 2 Effective Date: 21st July 1993 Issued Date: 21st July 1993 Revocation Date: 27th November 2007 Discharge Type: Trade Discharges - Site Drainage (Contaminated Surface Water, Not Waste Sites) Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of The River Dearne **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A13SW (W)	124	1	431600 408300
1	**Discharge Consents** Operator: Powerscreen International Plc Property Type: Basic Industry, Chemicals Inorganic Location: Prism Works Claycliffe Road, Barugh, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C4750 Permit Version: 1 Effective Date: 14th August 1987 Issued Date: 14th August 1987 Revocation Date: 20th July 1993 Discharge Type: Trade Discharges - Site Drainage (Contaminated Surface Water, Not Waste Sites) Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of The River Dearne **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A13SW (W)	124	1	431600 408300
2	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Redbrook Road Cso Redbrook Road, Redbrook, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra8507 Permit Version: 1 Effective Date: 31st March 2005 Issued Date: 31st March 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Red Brook **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	A8NE (S)	572	1	432160 407740
2	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Redbrook Road, REDBROOK, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/UD/51 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 30th June 1993 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge Environment: Unknown Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A8NE (S)	578	1	432150 407730

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Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Darton Wwtw Dearne Hall Road, Low Barugh, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2026 Permit Version: 3 Effective Date: 1st January 1993 Issued Date: 13th July 1990 Revocation Date: 17th October 1999 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Dearne **Status: Transferred from Water Act 1989** Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	914	1	432700 408860
10	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Darton Wwtw Dearne Hall Road, Low Barugh, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2026 Permit Version: 1 Effective Date: 23rd December 1988 Issued Date: 23rd December 1988 Revocation Date: 12th July 1990 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Dearne **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	914	1	432700 408860
10	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Darton Wwtw Dearne Hall Road, Low Barugh, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2026 Permit Version: 1 Effective Date: 23rd December 1988 Issued Date: 23rd December 1988 Revocation Date: 12th July 1990 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Dearne **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	914	1	432700 408860
11	**Local Authority Pollution Prevention and Controls** Name: Bespoke Pre-Cast Concrete Location: Whaley Road, Barugh Green, Barnsley, S75 Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: ppc/b/91 Dated: 17th October 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG3/1Blending, packing, loading and use of bulk cement **Status: Permitted** Positional Accuracy: Located by supplier to within 10m	A13NW (N)	14	2	431944 408365
12	**Local Authority Pollution Prevention and Controls** Name: Compass Engineering Limited Location: Whaley Road, Barugh Green, Barnsley, South Yorkshire, S75 1HT Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: PPC/B/57 Dated: 14th December 1998 Process Type: Local Authority Pollution Prevention and Control Description: PG6/23 Coating of metal and plastic **Status: Permitted** Positional Accuracy: Located by supplier to within 10m	A13NW (W)	25	2	431900 408320

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Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Local Authority Pollution Prevention and Controls** Name: Braithwaite Excavations Ltd Location: Claycliffe Road, Barugh Green, Barnsley, S75 1hs Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/19 Dated: 28th November 2002 Process Type: Local Authority Pollution Prevention and Control Description: PG3/16 Mobile screening and crushing processes **Status: Permitted** Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	90	2	431865 408240
14	**Local Authority Pollution Prevention and Controls** Name: Wordsworth Crushing Ltd Location: Whaley Road, Barugh Green, Barnsley, S75 1HT Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: PPC/B/46 Dated: 29th March 2005 Process Type: Local Authority Pollution Prevention and Control Description: PG3/17 China and Ball clay processes including the spray drying of ceramics **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A13NW (N)	119	2	431901 408463
15	**Local Authority Pollution Prevention and Controls** Name: Malcolm Smith Motor Repairs Location: Claycliffe Road, BARNSLEY, South Yorkshire, S75 1HS Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Epa61 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Authorisation revokedRevoked** Positional Accuracy: Automatically positioned to the address	A13SW (S)	154	2	431913 408124
16	**Local Authority Pollution Prevention and Controls** Name: Wordsworth Crushing Ltd Location: Whaley Road, Barugh Green, Barnsley, S75 1ht Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/02 Dated: 26th November 2003 Process Type: Local Authority Pollution Prevention and Control Description: PG3/16 Mobile screening and crushing processes **Status: Permitted** Positional Accuracy: Located by supplier to within 10m	A13NE (E)	235	2	432209 408348
16	**Local Authority Pollution Prevention and Controls** Name: Wordsworth Crushing Limited Location: Whaley Road, Barugh Green, Barnsley, S75 1HT Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: PPC/B/86 Dated: 28th November 2003 Process Type: Local Authority Pollution Prevention and Control Description: PG3/16 Mobile screening and crushing processes **Status: Permitted** Positional Accuracy: Located by supplier to within 10m	A13NE (E)	237	2	432211 408350
17	**Local Authority Pollution Prevention and Controls** Name: R C Jones (Motor) Group Location: Claycliffe Road, Barugh, BARNSLEY, South Yorkshire, S75 1HS Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/38 Dated: 20th July 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A13SE (S)	242	2	432003 408036
18	**Local Authority Pollution Prevention and Controls** Name: Land Regeneration & Develop Ltd Location: Dearne Hall Road, Barugh Bridge, Barnsley, S75 Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Not Supplied Dated: 10th August 2004 Process Type: Local Authority Pollution Prevention and Control Description: PG3/5 Coal, coke and coal product processes **Status: Authorisation certificate surrendered by operatorSurrendered** Positional Accuracy: Manually positioned to the road within the address or location	A18SW (N)	644	2	431742 408964

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Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Local Authority Pollution Prevention and Controls** Name: Pentagon Toyota Location: Barugh Green Road, Barugh Green, BARNSLEY, S75 2RS Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Epa86 Dated: 30th September 1996 Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles **Status: Authorisation revokedRevoked** Positional Accuracy: Manually positioned to the road within the address or location	A12SE (SW)	652	2	431357 407990
20	**Local Authority Pollution Prevention and Control Enforcements** Location: Clayciffe Road, Barugh Green, Barnsley, S75 1hj Type: Air Pollution Control Enforcement Notice Reference: Not Supplied Date Issued: Not Supplied Enforcement Date: Not Supplied Details: S.10 Notice Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	90	2	431865 408240
21	**Local Authority Pollution Prevention and Control Enforcements** Location: Whaley Road, Barugh Green, Barnsley, S75 1ht Type: Air Pollution Control Enforcement Notice Reference: Not Supplied Date Issued: Not Supplied Enforcement Date: Not Supplied Details: S.13 Notice Positional Accuracy: Manually positioned to the address or location	A13NW (N)	110	2	431936 408461
	Nearest Surface Water Feature	A13SW (SW)	169	-	431781 408220
22	**Pollution Incidents to Controlled Waters** Property Type: Industrial Premises Location: Footbridge/Footbridge Dearne 18 Authority: Environment Agency, North East Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 15th November 1991 Incident Reference: 128384 Catchment Area: Not Given Receiving Water: No Pollution Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	273	1	431700 408500
23	**Pollution Incidents to Controlled Waters** Property Type: Construction/Demolition Location: Footbridge/ Road Bridge B6428 Dearne 19 Authority: Environment Agency, North East Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 14th February 1990 Incident Reference: 107856 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	450	1	431500 408500
24	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Storm Overflow Location: LOW BARUGH Authority: Environment Agency, North East Region Pollutant: Sewage - Storm Overflow Note: No Fish Killed Incident Date: 19th August 1997 Incident Reference: SH970421 Catchment Area: Dearne Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	512	1	432400 408000

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Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	**Substantiated Pollution Incident Register** Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 20th October 2008 Incident Reference: 629854 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Other Contaminated Water	A14SE (E)	866	1	432606 408032
	Water Abstractions Operator: Shaw Carpets Ltd Licence Number: 2/27/08/114 Permit Version: Not Supplied Location: Po Box. 4, Darton, BARNSLEY Authority: Environment Agency, North East Region Abstraction: Commercial Use(pubs etc) Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 312 Yearly Rate (m3): 85072 Details: Licence Status: Active 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	A22NE (N)	1453	1	431400 409700
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 11 South Pennines Scale: 1:100,000	A13SW (NW)	0	1	431948 408312
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Desination: Secondary Aquifer - A	A13SW (NW)	0	3	431948 408312
	Superficial Aquifer Designations No Data Available				
	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				

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Waste

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	**BGS Recorded Landfill Sites** Site Name: Gawber Refuse Tip Location: Withorpe Ln, Gawber, BARNSLEY, South Yorkshire 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	A9NE (SE)	918	3	432827 407937
44	**Historical Landfill Sites** Licence Holder: Amco Industries Holdings Limited Location: Whaley Road, Barugh, Barnsley Name: Tipping of Builders Waste opposite Whaley Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04338 First Input Date: 30th April 1983 Last Input Date: 2nd July 1984 Specified Waste Type: Deposited Waste included Inert and Commercial Waste EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: 4400/0486 BGS Ref: Not Supplied Other Ref: WD24 B378, 4400/B375, 20B375(84), WD20 B375	A13SE (SE)	75	1	432035 408242
45	**Historical Landfill Sites** Licence Holder: Mr C Langfield Location: Claycliffe Industrial Estate, Barugh Green, Barnsley Name: Land off Whaley Road Operator Location: 3 The Balk, Stalncross, Barnsley Boundary Accuracy: As Supplied Provider Reference: EAHLD04344 First Input Date: 31st October 1985 Last Input Date: 1st November 1994 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: 4400/0499 BGS Ref: Not Supplied Other Ref: WD20 B488, 4400/B488, 20B488(97)	A13NE (N)	109	1	431961 408459
46	**Historical Landfill Sites** Licence Holder: Amco Industries Holdings Limited Location: Claycliffe Industrial Estate, Barugh Green road, Barugh, Barnsley Name: Whaley Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04337 First Input Date: 31st March 1986 Last Input Date: 22nd July 1992 Specified Waste Type: Deposited Waste included Inert and Commercial Waste EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: 4400/0483 BGS Ref: Not Supplied Other Ref: 4400/B502, 20B502(81), WD20 B502	A13SE (SE)	177	1	432093 408157
47	**Historical Landfill Sites** Licence Holder: Mr R Robinson Location: Barugh, Barnsley Name: Railway Cutting Off Claycliffe Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04345 First Input Date: 31st December 1972 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: 4400/0553 BGS Ref: Not Supplied Other Ref: Not Supplied	A13NW (NW)	288	1	431772 408585

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Waste

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	**Registered Landfill Sites** Licence Holder: C Langfield Licence Reference: WD20 B 488 MOD 2 Site Location: Clayciffe Road Industrial Estate, Barugh Green, Barnsley, South Yorkshire Licence Easting: 431950 Licence Northing: 408550 Operator Location: 3 The Balk, Stancross, BARNSLEY, South Yorkshire, S75 6JG Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence revokedRevoked Dated: 21st October 1985 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Asphalt/Cold Millings From Road Excav. Construction And Demolition Wastes Excavated Natural Materials $ Hardcore And Rubble Prohibited Waste: Asbestos Liquids In Containers Over 4l Cap. Slurry In Containers Over 4l Cap.	A13NE (N)	199	1	431950 408550
77	**Registered Landfill Sites** Licence Holder: Amco Industrial Holdings Ltd Licence Reference: WD20 B 375 Site Location: Whaley Road, Barugh, Barnsley, South Yorkshire Licence Easting: 432250 Licence Northing: 408250 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st April 1983 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction And Demolition Wastes Excavated Natural Materials $ Prohibited Waste: Asbestos Liquids In Containers Over 4l Cap. Slurry In Containers Over 4l Cap.	A13SE (E)	273	1	432250 408250
78	**Registered Landfill Sites** Licence Holder: Amco Industries Holdings Ltd Licence Reference: WD20 B 502 MOD 1 Site Location: Whaley Road, Barugh, BARNSLEY, South Yorkshire, S75 1HG Licence Easting: 432250 Licence Northing: 408150 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st March 1986 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction And Demolition Wastes Hardcore And Builders Rubble Road Excavation Waste Soil/Subsoil, Road Sub-Base Materials Prohibited Waste: All Forms Of Asbestos Liq/Slurry In Drums > 4 L Capacity Liquid/Slurry In Drums > 4 L Capacity Putrescible Waste	A13SE (SE)	305	1	432250 408150

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Geological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	**BGS Recorded Mineral Sites** Site Name: Clay Cliff Location: Barugh, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 37854 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NW (W)	135	3	431784 408341
86	**BGS Recorded Mineral Sites** Site Name: Whalley Road Occs Location: Gawber, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 205 Type: Opencast **Status: Ceased** Operator: Autogel Operator Location: 76 Doncaster Road, Barnsley, South Yorkshire, S70 1tw Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Surface Mined Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	587	3	432300 407800
87	**BGS Recorded Mineral Sites** Site Name: Gawber Location: Gawber, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 37852 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	749	3	432413 407681
88	**BGS Recorded Mineral Sites** Site Name: Gawber Location: Gawber, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 37851 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	994	3	432503 407445
89	**BGS Recorded Mineral Sites** Site Name: Redbrook Mine Location: Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 187 Type: Underground **Status: Ceased** Operator: British Coal - N Yorkshire Area Operator Location: Po Box 13, Allerton Bywater, Castleford, West Yorkshire, Wf10 2al Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	1000	3	432900 407900
	BGS 1:625,000 Solid Geology Description: Lower Westphalian (mainly Productive Coal Measures)	A13SW (NW)	0	3	431948 408312
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (NW)	0	4	431948 408312
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (NW)	0	-	431948 408312

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Geological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	3	431948 408312
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	3	431948 408312
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	3	431948 408312
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	91	3	431863 408241
	Potential for Ground Dissolution Stability Hazards No Hazard				
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	3	431948 408312
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	3	431948 408312
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	91	3	431863 408241
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	3	431948 408312
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	96	3	431843 408395
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	219	3	432193 408238
	Radon Potential - Radon Affected Areas Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	3	431948 408312
	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	A13SW (NW)	0	3	431948 408312

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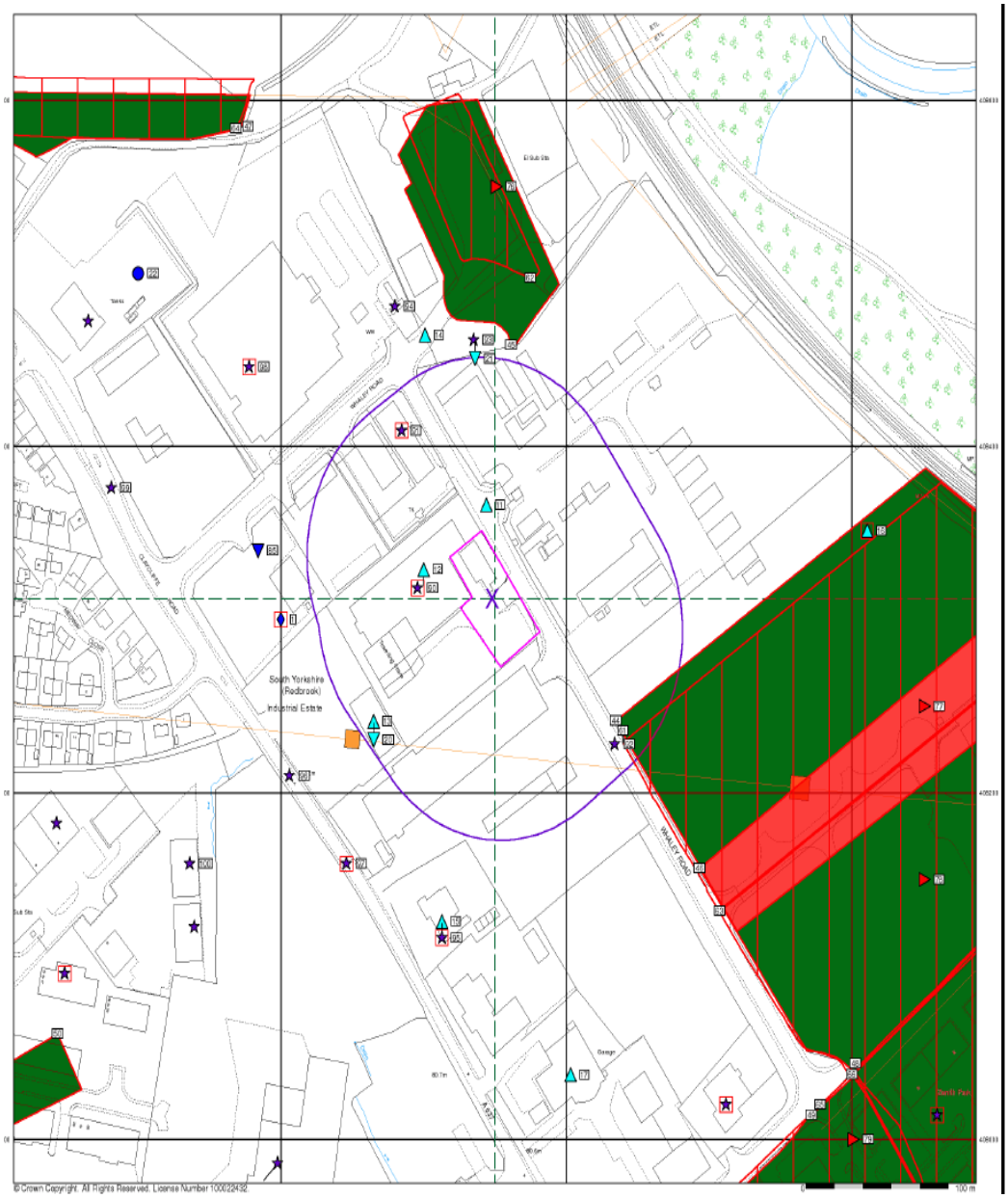
Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	**Contemporary Trade Directory Entries** Name: Motorpoint Location: Claycliffe Road, Barnsley, South Yorkshire, S75 1HS Classification: Car Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (W)	29	-	431896 408318
90	**Contemporary Trade Directory Entries** Name: Pentagon Car Shop Location: Claycliffe Road, Barugh Green, Barnsley, South Yorkshire, S75 1LR Classification: Car Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (W)	29	-	431896 408318
91	**Contemporary Trade Directory Entries** Name: Nationwide Retail Systems Ltd Location: Whaley Road, Barnsley, South Yorkshire, S75 1HT Classification: Cash Registers & Check-Out Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	80	-	431885 408409
91	**Contemporary Trade Directory Entries** Name: Weldgrip Location: Whaley Road, Barnsley, South Yorkshire, S75 1HT Classification: Coal Mining **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A13NW (NW)	109	-	431887 408446
92	**Contemporary Trade Directory Entries** Name: Egan Bros Location: South Yorkshire Ind Est,Whaley Rd, Barnsley, South Yorkshire, S75 1HT Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (SE)	84	-	432034 408228
93	**Contemporary Trade Directory Entries** Name: The Pet Store Location: Whaley Road, Barnsley, South Yorkshire, S75 1HT Classification: Pet Foods & Animal Feeds **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (N)	111	-	431935 408462
94	**Contemporary Trade Directory Entries** Name: Seymour Transport Location: Whaley Road, Barnsley, South Yorkshire, S75 1HT Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (N)	143	-	431880 408481
95	**Contemporary Trade Directory Entries** Name: Malcolm Smith Motor Repairs Location: Claycliffe Road, Barnsley, South Yorkshire, S75 1HS Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (S)	154	-	431913 408124
95	**Contemporary Trade Directory Entries** Name: N & S Moorhouse Ltd Location: Cress Grange Garage, Claycliffe Road, BARNSLEY, South Yorkshire, S75 1HS Classification: Agricultural Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (S)	154	-	431913 408124
95	**Contemporary Trade Directory Entries** Name: Vauxhall Motors Location: Claycliffe Rd, Barnsley, South Yorkshire, S75 1HS Classification: Car Dealers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SW (S)	171	-	431875 408122
96	**Contemporary Trade Directory Entries** Name: Metal Craft Components Ltd Location: Claycliffe Rd, Barugh Green, Barnsley, South Yorkshire, S75 1LR Classification: Wrought Ironwork **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	155	-	431806 408210

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Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	**Contemporary Trade Directory Entries** Name: R C Jones Ltd Location: Claycliffe Road, Barugh, Barnsley, South Yorkshire, S75 1HS Classification: Car Body Repairs **Status:** **Active** Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	157	-	431846 408159
97	**Contemporary Trade Directory Entries** Name: Tinker Mike Motor Bodies Location: Joe Poles Yard,Claycliffe Rd, Barnsley, South Yorkshire, S75 1HS Classification: Car Body Repairs **Status:** **Active** Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	157	-	431845 408160
98	**Contemporary Trade Directory Entries** Name: Brc Welded Mesh Location: Whaley Road, BARNSLEY, South Yorkshire, S75 1HT Classification: Wire Products - Manufacturers **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	179	-	431778 408446
98	**Contemporary Trade Directory Entries** Name: B R C Ltd Location: Whaley Road, Barnsley, South Yorkshire, S75 1HT Classification: Steel Manufacturers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	179	-	431778 408446
99	**Contemporary Trade Directory Entries** Name: Perrys Motor Sales Location: Claycliffe Rd, Barugh Green, Barnsley, South Yorkshire, S75 1LR Classification: Car Dealers **Status:** **Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13NW (W)	241	-	431681 408376
100	**Contemporary Trade Directory Entries** Name: R C International Ltd Location: Unit 6,Claycliffe Business Pk,Canon Way, Off Barugh Green Rd/Barugh Gre, Barnsley, South Yorkshire, S75 1JU Classification: Freight Forwarders **Status:** **Inactive** Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	241	-	431736 408159
101	**Fuel Station Entries** Name: Claycliffe Motors Ltd Location: Claycliffe Road, A365, Redbrook,, BARNSLEY, South Yorkshire, S75 1HS Brand: Obsolete Premises Type: Not Applicable **Status:** **Obsolete** Positional Accuracy: Manually positioned to the road within the address or location	A8NW (S)	338	-	431941 407936
102	**Fuel Station Entries** Name: Wilthorpe Service Station Location: Wilthorpe Road, BARNSLEY, South Yorkshire, S75 1JA Brand: OBSOLETE Premises Type: Not Applicable **Status:** **Obsolete** Positional Accuracy: Approximate location provided by supplier	A9NW (SE)	779	-	432497 407710



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General
Specified Site
Specified Buffer(s)
Bearing Reference Point
Map ID
Several of Type at Location
Pylon
Overhead Transmission Line

Agency and Hydrological
Contaminated Land Register Entry or Notice (Active)
Contaminated Land Register Entry or Notice
Discharge Consent
Enforcement or Prohibition Notice
Integrated Pollution Control
Integrated Pollution Prevention Control
Local Authority Integrated Pollution Prevention and Control
Local Authority Pollution Prevention and Control
Local Authority Pollution Prevention and Control Enforcement
Pollution Incident to Controlled Waters
Prosecution Relating to Authorised Processes
Prosecution Relating to Controlled Waters
Registered Radioactive Substance
River Network or Water Feature
River Quality Sampling Point
Substantiated Pollution Incident Register
Water Abstraction
Water Industry Act Referral

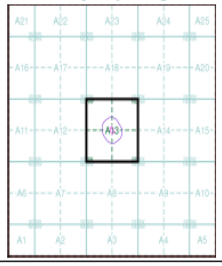
Waste
BGS Recorded Landfill Site (Location)
BGS Recorded Landfill Site
EA Historic Landfill (Current Year)
EA Historic Landfill (Previous)
Integrated Pollution Control Registered Waste Site
Licensed Waste Management Facility (Landfill Boundary)
Licensed Waste Management Facility (Location)
Local Authority Recorded Landfill Site (Location)
Local Authority Recorded Landfill Site
Registered Landfill Site
Registered Landfill Site (Location)
Registered Landfill Site (Point buffered to 100m)
Registered Landfill Site (Point buffered to 250m)
Registered Waste Transfer Site (Location)
Registered Waste Transfer Site
Registered Waste Treatment or Disposal Site (Location)
Registered Waste Treatment or Disposal Site

Hazardous Substances
COMAH Site
Explosive Site
NIHHS Site
Planning Hazardous Substance Consent
Planning Hazardous Substance Enforcement

Geological
BGS Recorded Mineral Site

Industrial Land Use
Contemporary Trade Directory Entry
Fuel Station Entry

Site Sensitivity Map - Segment A13

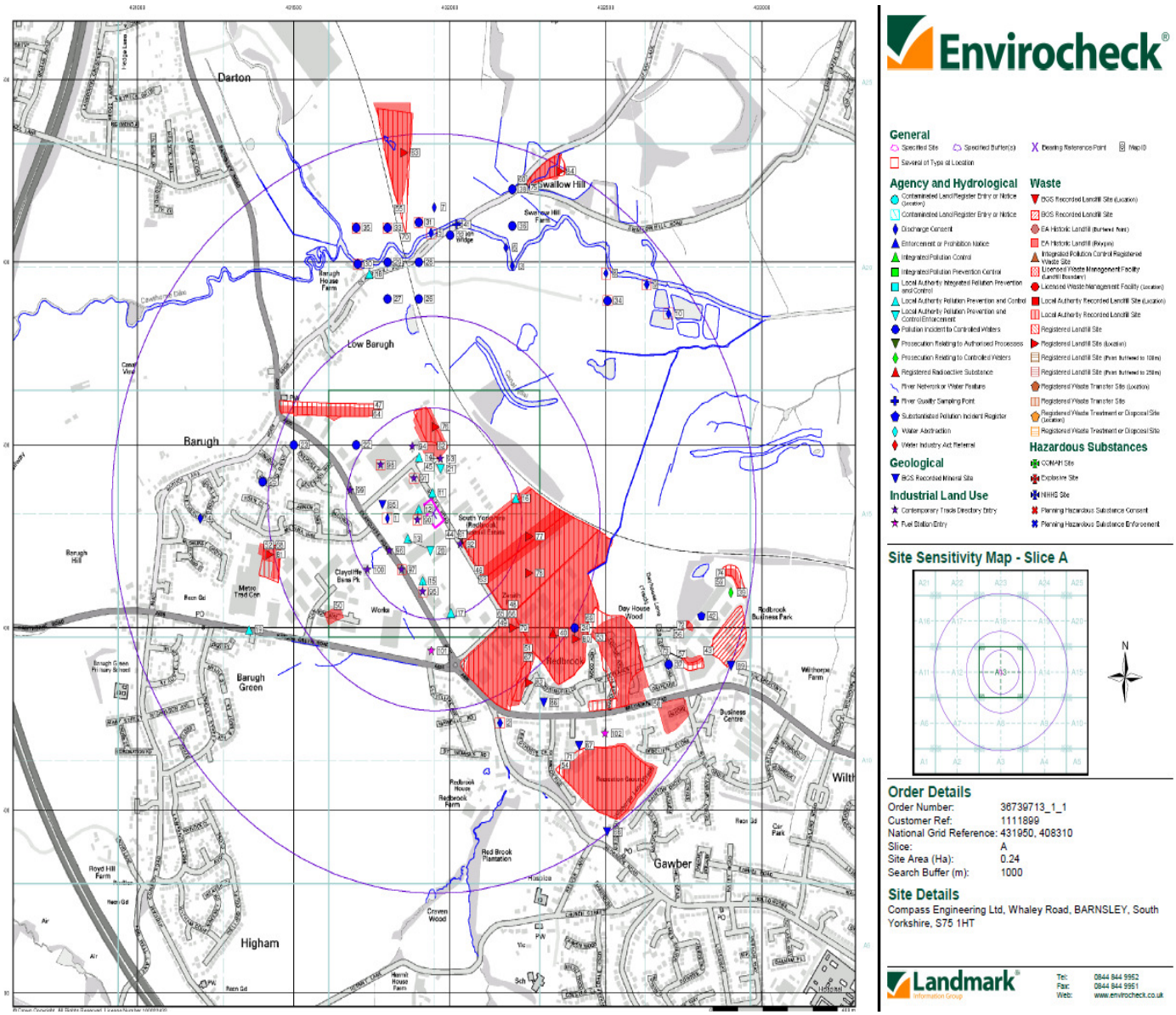


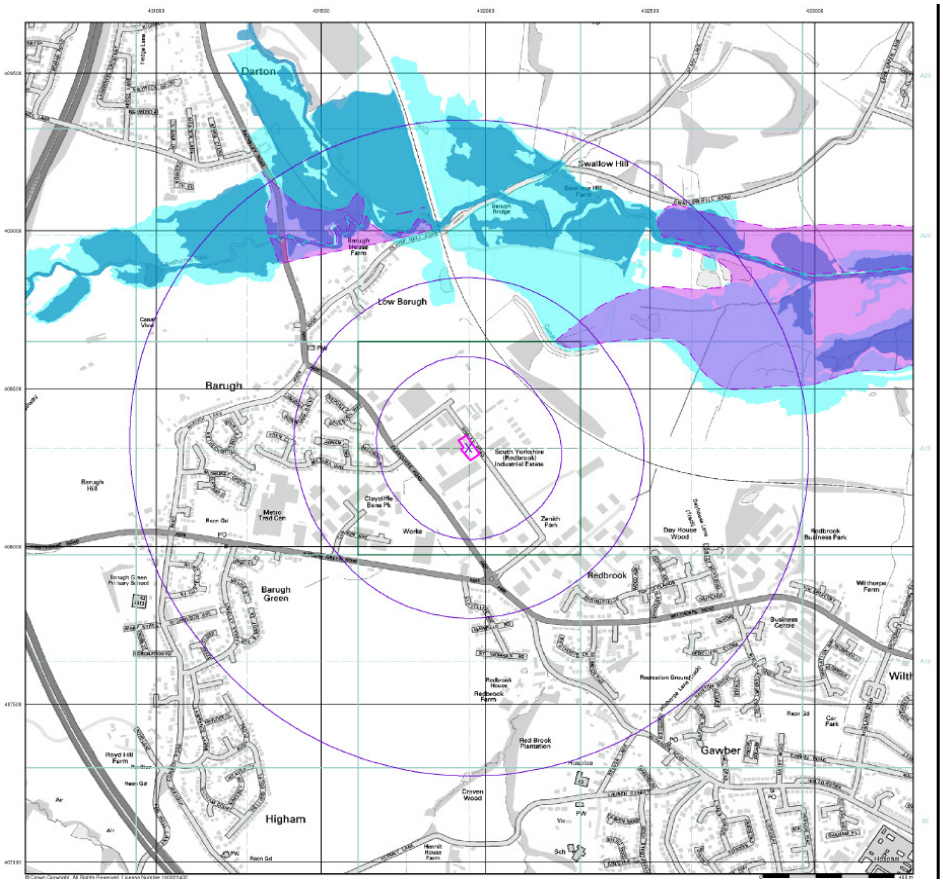
Order Details

Order Number:	36739713_1_1
Customer Ref:	1111899
National Grid Reference:	431950, 408310
Slice:	A
Site Area (Ha):	0.24
Plot Buffer (m):	100

Site Details
Compass Engineering Ltd, Whaley Road, BARNSLEY, South Yorkshire, S75 1HT

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


Envirocheck
General
Agency and Hydrological
Waste
Geological
Hazardous Substances
Industrial Land Use
Site Sensitivity Map - Slice A
Order Details
Order Number: 36739713_1_1
Customer Ref: 1111899
National Grid Reference: 431950, 408310
Slice: A
Site Area (Ha): 0.24
Search Buffer (m): 1000
Site Details
Compass Engineering Ltd, Whaley Road, BARNSLEY, South Yorkshire, S75 1HT
Landmark
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk
Darton
Swallow Hill
Low Barugh
Barugh
Barugh Green
Redbrook
Gawber
Higham
Wilthorpe Farm
Redbrook Business Park
Day House Wood
Red Brook Plantation
Coven Wood



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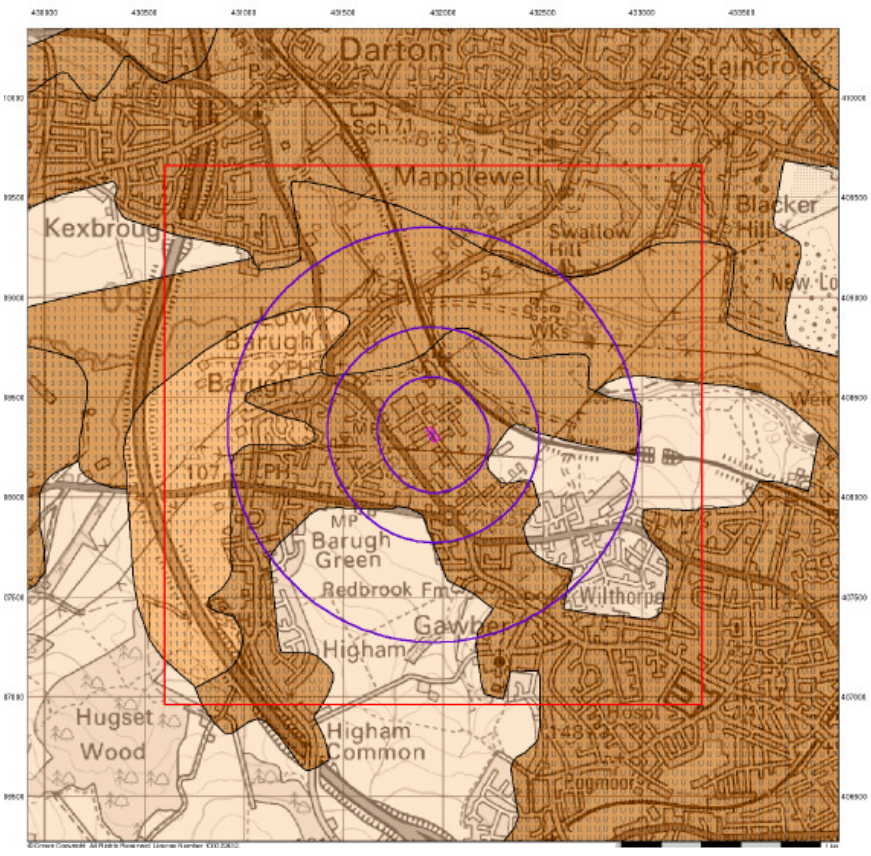
General
Specified Site
Specified Buffer(s)
Bearing Reference Point
Agency and Hydrological (Flood)
Extreme Flooding from Rivers or Sea without Defences (Zone 2)
Flooding from Rivers or Sea without Defences (Zone 3)
Area Benefiting from Flood Defence
Flood Water Storage Areas
Flood Defence

Flood Map - Slice A

Order Details
Order Number: 36739713_1_1
Customer Ref: 1111899
National Grid Reference: 431950, 408310
Slice: A
Site Area (Ha): 0.24
Search Buffer (m): 1000

Site Details
Compass Engineering Ltd, Whaley Road, BARNSLEY, South Yorkshire, S75 1HT

Landmark



Envirocheck

Groundwater Vulnerability

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

Agency and Hydrological

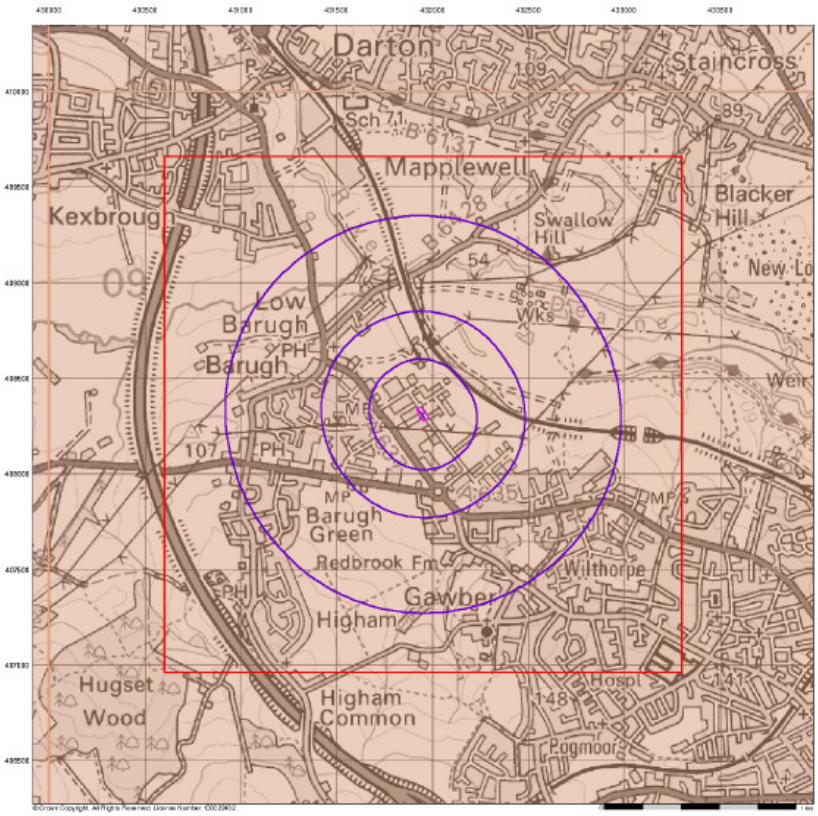
Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A

Order Details
Order Number: 36739713_1_1
Customer Ref: 1111899
National Grid Reference: 431950, 408310
Slice: A
Site Area (Ha): 0.24
Search Buffer (m): 1000

Site Details
Compass Engineering Ltd, Whaley Road, BARNSLEY, South Yorkshire, S75 1HT

Landmark



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Bedrock Aquifer Designation

General

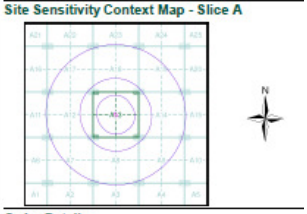
Specified Site | Specified Buffer(s) | Grading Reference Point | Site | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



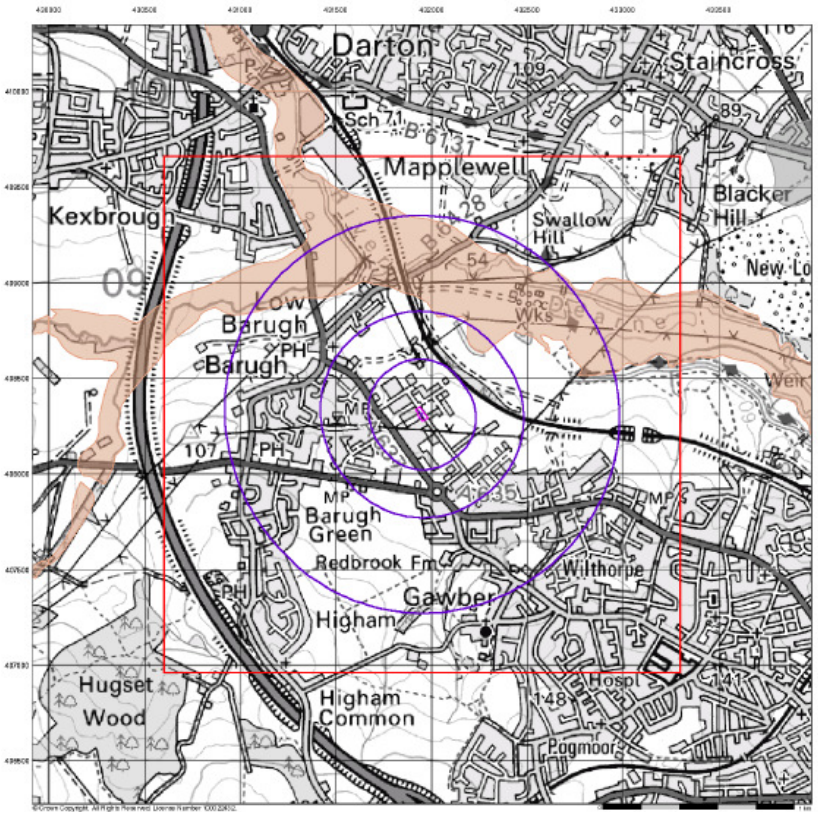
Order Details

Order Number:	36739713_1_1
Customer Ref:	1111899
National Grid Reference:	431950, 408310
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	1000

Site Details

Compass Engineering Ltd, Whaley Road, BARNSLEY, South Yorkshire, S75 1HT

Landmark



Envirocheck®

Superficial Aquifer Designation

General

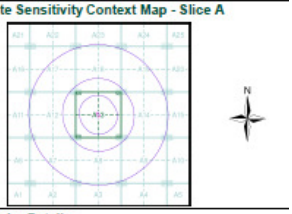
Specified Site | Specified Buffer(s) | Grading Reference Point | Site | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	36739713_1_1
Customer Ref:	1111899
National Grid Reference:	431950, 408310
Slice:	A
Site Area (Ha):	0.24
Search Buffer (m):	1000

Site Details

Compass Engineering Ltd, Whaley Road, BARNSLEY, South Yorkshire, S75 1HT

Landmark

COMPASS ENGINEERING, WHALEY ROAD, BARNSLEY

CLIENT: Compass Engineering Limited

APPENDIX III

MINING REPORT

REPORT No. 1111899

The Coal Authority

Issued by:
The Coal Authority, Mining Reports Office, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire NG18 4RG
ON-Line Service: www.groundstability.com - Phone: 0845 762 6848 - DX 716176 MANSFIELD 5

CUSTOMER SERVICES,
LANDMARK INFORMATION GROUP LIMITED,
ABBEY COURT UNIT 5/7,
EAGLE WAY,
SOWTON INDUSTRIAL ESTATE,
EXETER,
DEVON,
EX2 7HY

Person dealing with this matter:	**Keith Pennington**
Our reference:	**00070654-11**
Your reference:	36739713
Electronic Ref:	EME_00016955220004_005
RRUID:	005.00016955220004
Date of your enquiry:	**17 November 2011**
Date we received your enquiry:	**17 November 2011**
Date of issue:	**18 November 2011**

This report is for the property described in the address below and the attached plan.

Non-Residential Coal and Brine Report

Compass Engineering Ltd, Whaley Road, Barnsley, South Yorkshire

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	Yes
Brine Compensation District	No

Information from the Coal Authority

Underground Coal Mining

Past

The property is in the likely zone of influence from workings in 3 seams of coal at 120m to 290m depth, and last worked in 1981.

Any ground movement from these coal workings should have stopped by now.

Present

The property is not in the likely zone of influence of any present underground coal workings.

Future

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove coal using underground methods.

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The property is not in an area that is likely to be affected at the surface from any planned future workings.

However reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

Coal-mining geology

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

Opencast Coal Mining

Past

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

Present

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

Future

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

Coal-mining subsidence

The Coal Authority has not received a damage notice or claim for the property since 31 October 1994. There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

Withdrawal of Support

The property is in an area for which a notice of entitlement to withdraw support was published in 1987.

The property is not in an area for which a notice has been given under section 41 of the Coal Industry Act 1994, revoking the entitlement to withdraw support.

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Working Facilities Orders

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

Payments to Owners of Former Copyhold Land

The property is not in an area for which a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

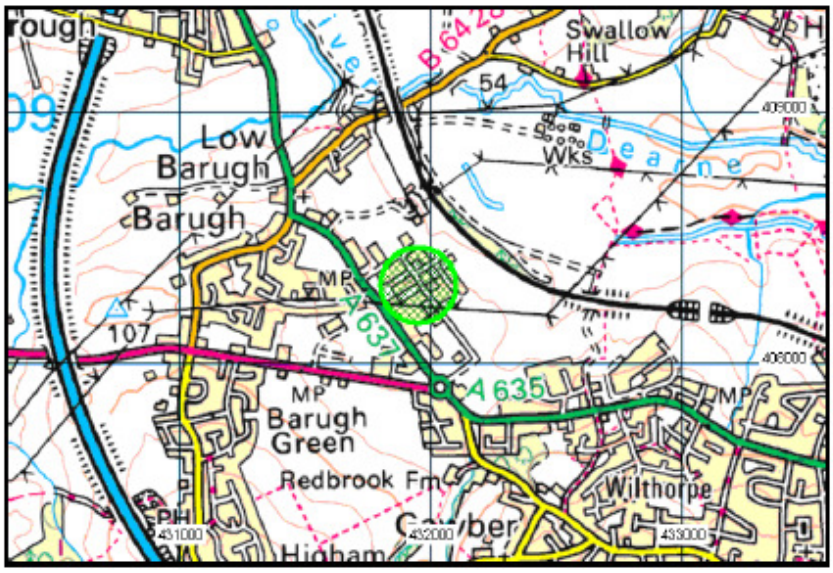
Additional remarks

This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006. The report is compliant with Home Information Pack requirements.

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Location map

Approximate position of property

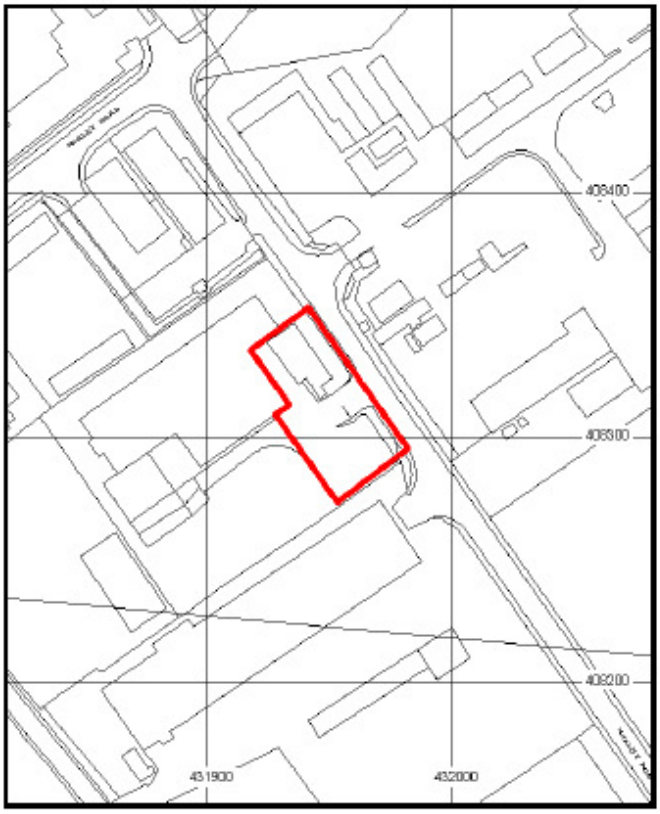


Enquiry boundary

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Key

Approximate position of enquiry boundary shown



Mapping sourced from Ordnance Survey

COMPASS ENGINEERING, WHALEY ROAD, BARNSLEY

Client: Compass Engineering Limited

APPENDIX IV

CONCEPTUAL SITE MODEL AND RISK ASSESSMENT

Report No. 1111899

Conceptual Site Model / Risk Assessment

CLIENT: Compass Engineering Limited
SITE: Whaley Road, Barnsley

JOB No: 1111899
DATE: November, 2011

SOURCE	PATHWAY	RECEPTOR	HAZARD SEVERITY	PROBABILITY	RISK
On Site: coke works waste; historical fill; building rubble; lubricating oil; diesel fuel; Principal contaminants of concern (PCoC) – acids, alkalis, cyanide,metals, sulphur, PAHs, TPH, phenols, asbestos.	Indirect ingestion; vapour inhalation.	End users (adult working hours)	Medium – medium term exposure	Low	Moderate/low
		Visitors (temporary – short term)	Minor – short term exposure	Low	Negligible
	Dermal contact; ingestion; inhalation	Construction Workers (temporary – short term)	Minor – assuming PPE used.	Low	Negligible
	Permeable fill or bedrock	Groundwater (secondary aquifer)	Minor – abstraction over 1.5km.	Likely	Negligible
	Non identified	Surface water (River Dearne)	Minor – no abstraction.	Unlikely	Negligible
Off Site: Former coke and chemical works; PCoC – acids, alkalis, cyanide,metals, sulphur, PAHs, TPH, phenols, asbestos.	Indirect ingestion; vapour inhalation.	End users (adult working hours)	Medium – medium term exposure	Low	Moderate/low
		Visitors (temporary – short term)	Minor– short term exposure	Low	Negligible
	Dermal contact; ingestion; inhalation	Construction Workers (temporary – short term)	Minor – assuming PPE used.	Low	Negligible
Gas emissions on and off site – infilled pond; old landfills.	Inhalation and explosion	End users, visitors, construction workers	Severe	Low	High/moderate