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The **Ground Investigation** Specialists



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REPORT ON A PHASE ONE DESK STUDY

at

**THE COOPER GALLERY, CHURCH STREET, BARNSELY, SOUTH
YORKSHIRE, S70 2AH**

for

GHM PARTNERSHIP LTD

Report No J2617/13/EDS
December 2013

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1. INTRODUCTION

The Cooper Gallery is an operational art and crafts gallery/shop and cafe situated within close proximity to the centre of Barnsley. It forms part of a parade of shops and business that include a solicitors and the Barnsley Chronicle, and is situated between Barnsley University buildings to the west, and Barnsley Sixth Form College to the east. The whole site is approximately 0.07 hectares in size and its National Grid reference is 434440, 406620.

It is intended to construct an extension to the rear of the existing building. The footprint will occupy the car park. It is assumed that there are no further landscaped areas planned as part of the construction.

In accordance with issued guidance, a site walkover was undertaken on the 13th December 2013 and the following observations were made:

- The construction area is accessed via the car park to the rear, off Eastgate which runs parallel to Church Street.
- The existing building was constructed in 1769 for Barnsley Grammar school, and subsequently used for a Sunday school, church institute and conservative reading room. The building is stone built with some rendering to the rear, two storeys with a pitched roof. It has been extended on more than one occasion historically.
- The building was purchased by Samuel Cooper when the grammar school relocated, and was used for storage of art collections, becoming open to the public in 1914. The building was used by the hospital during WWII,

becoming a rehabilitation centre until 1957 when the gallery was handed back to the trustees. It has remained a gallery and exhibition centre since.

- The area in general descends from north to south and more steeply from west to east towards the River Dearne which is located approximately 1km east. The latter topography is reflected on the site itself, with steps down from the building to the car park, which slopes away from Church Street towards Eastgate.
- The car park surfacing is gravel, and a courtyard beyond the car park immediately off Eastgate and from which access to the car park is gained, is asphalt. Large wooden gates secure the courtyard and in turn the car park.
- Boundary foliage and well established trees bound the car park to the south and the courtyard to the north and east, all of which appeared to be healthy and non-invasive.
- The site is bounded to the north by a solicitors, and to the south by a cafe. The cafe building is situated between the car park and the access yard, and is separated from the site only to its west by raised flower beds/planters. A side access door leads onto the courtyard.
- A large flat roofed single storey outbuilding is situated next to the gallery building at the top of the car park, where the mains gas cupboard is located. Manhole covers are present in the car park and all services are live.
- No water sources/courses were observed on the site.

In order to ensure that the site is fully characterised and to comply with the Environment Act 1995¹, a Phase One Desk Study has been commissioned by GHM Partnership Ltd. The desk study is intended to assess the environmental impact of historical, current and future factors on the development. This report will present the data obtained and provide a conceptual ground model and preliminary risk assessment as well as discussing the scope of any intrusive investigation that may be required. This report does not consider ecological impacts (e.g. bats) or botanical risks (e.g. Japanese Knotweed).

¹S57 of the Environment Act 1995 inserted the contaminated land regime into the Environmental Protection Act 1990 (Part 2A). The regime '**provides a risk based approach to the identification and remediation of land where contamination poses an unacceptable risk to human health or the environment**' See <http://www.environment-agency.gov.uk/research/planning/40405.aspx>. This places a duty on local authorities to inspect their areas for contaminated land and require its remediation using the 'suitable for use' approach. Much of this duty is discharged via the planning regime under the Town and Country Planning Act 1990 as historical land contamination is a 'material planning consideration.' The local authorities are required to secure the removal of unacceptable risks via remediation of the land, to therefore ensure the site is suitable for its new use. This is fulfilled via completion of a Phase One Environmental Desk Study, Phase Two Intrusive Investigation, Phase Three Remediation Strategy and Phase Four Validation Report. Therefore, as a minimum, once a site has been developed it should not be capable of being designated as 'contaminated land' under Part 2A of the Environmental Protection Act 1990, as inserted by the Environment Act 1995 (see also PPS 23 Planning and Pollution Control Section 8)

2. REVIEW AND SUMMARY OF PUBLISHED DATA

As a part of this desk study the following data has been considered.

- | | |
|-----------------------|--------------|
| • Envirocheck Reports | - Appendix 1 |
| • Historical maps | - Appendix 2 |
| • Site Plan | - Appendix 3 |
| • Photographs | - Appendix 4 |
| • Coal Mining Report | - Appendix 5 |

The data obtained from the above mentioned sources has been summarised below².

2.1 Historical Land Use

Table 1: Historical Land Use³

1852 – 1907	The centre of Barnsley is well established and densely occupied. The Cooper Gallery (school) is a small building that fronts onto Church Street, but does not yet extend into the development area, with the exception of a row of smaller buildings on the southern edge of the existing car park. The majority of the development area is occupied by gardens and trees. Within 250m there are the following notable businesses/industries/features: - Railway – 200m E. - Timber Yard – 50m E and 200m SE. - Tanks – 200m NE.
1931 – 1977	The site is now listed as an art gallery. One of the extensions to the gallery can be now seen and the row of buildings on the southern boundary has been demolished. By 1961, a further (still current) extension to the rear of the property can be seen, and two small outbuildings occupy the centre of the car park. Within 250m there are the following notable businesses/industries/features: - Printing Works – 100m N. - Railway – 200m E. - Timber Yard – 50m E and 200m SE. - Falcon Works (builders yard by 1961) – 175m NE. - Tanks – 200m NE – removed by 1961.
1981 – 2013	The site appears largely unchanged. Within 250m there are the following notable businesses/industries/features: - Works – 100m N. - Railway – 250m E. - Works – 125m E – car park by 1986. - Builders Yard – 175m NE – not listed from 1993.

NB. All distances given are approximate only.

² This report is a summary only and reference must be made in full to the information provided in the Envirocheck Report.

³ See Appendix 2

2.2 Published Geology and Geological Hazards

Table 2: Geological Data for the Site

Strata Type	Strata Name ⁴	Previous Name ²	Description ⁵
Superficial Geology	-	-	None recorded.
Solid Geology	Kent's Rock	-	Named sandstone unit of the Pennine Middle Coal Measures Formation.

- Potential for collapsible ground stability hazards – No hazard to very low.
- Potential for compressible ground stability – No hazard.
- Potential for ground dissolution stability – No hazard.
- Potential for landslide ground stability – Very low.
- Potential for running sand ground stability – Low.
- Potential for shrinking or swelling clay ground stability – No hazard.

The Envirocheck Report states that the property is not in a radon affected area, as less than 1% of properties are above the action level for Radon. Protection measures are not necessary in the construction of new dwellings or extensions.

2.3 Construction Issues

2.3.1 Foundation Construction

Assuming that there is insignificant made ground at the site it is possible that foundations for new build could include strip or spread footings. However, as this is an extension, the effects of differential settlement between the new and old structures needs to be considered, thus a piled foundation solution may be preferred. Moreover, a piled solution would be less damaging to the mature trees on the site. It should be appreciated that an intrusive investigation will be required to validate this opinion.

2.3.2 Site Won Materials

Following appropriate laboratory testing, it is possible that the Kent's Rock may provide a suitable bulk fill and may prove suitable for re-compaction.

2.3.3 Disposal of Site Materials

If made ground is present then contamination/WAC testing will be required to establish the nature of the underlying soil before disposal to a licensed landfill site. However, it is anticipated that the naturally occurring soils would not be significantly

⁴ Sources: British Geological Survey (NERC) Map Sheets 100; Leeds; Solid and Drift Edition, Geology of Britain Viewer [online resource from www.bgs.ac.uk]

⁵ Sources: British Geological Survey (NERC) Lexicon of Named Rock Units [online resource from www.bgs.ac.uk]

contaminated, thus would probably be accepted by a waste disposal site catering for inert material.

2.4 Mining

The Envirocheck Report states that the site is within an area that may be affected by coal mining. A coal mining report has therefore been obtained and can be summarised as follows:

Past

According to the records in their possession, the property is within the likely zone of influence from workings in 1 seam of coal at 120m last worked in 1860. It is stated that any movement from these workings should have by now ceased.

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.

However, the property is in an area for which a licence was granted in 1994 to remove or otherwise work coal using underground methods.

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. Records may be incomplete. Consequently, there may exist in the local area mine entries of which the Coal Authority has no knowledge.

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.

Mine Gas

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

2.5 Waste Management and Gas Monitoring

The Envirocheck report indicates that there are no waste management activities within 250m of the site.

Historically the site has been subject to some redevelopment and extension works, and therefore it is possible that made ground may be present. If revealed to significant depths, it may be necessary to undertake gas monitoring as part of the intrusive works. Whilst it is considered unlikely that this will be the case, this will need to be reviewed as investigative works progress.

2.6 Hydrogeology, Hydrology

The Envirocheck Report and groundwater vulnerability map⁶ suggests there is a Secondary A Aquifer within the solid geology beneath the site. This is defined as permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flows to rivers.

There are no water abstraction licences or surface water features listed within 250m of the site.

The Environment Agency flood map⁷ shows that the site is not at risk of flooding from rivers without defences.

2.7 Pollution Incidents to Controlled Waters

The Envirocheck Report reveals that there has been no pollution incidents recorded within 250m of the site, and there are no licensed discharge consents within this same radius.

2.8 Sensitive Land Use

According to the sensitive land uses map⁸ there is one sensitive land use within 250m, as it is within a nitrate vulnerable zone. Such zones were introduced as a result of the European Economic Community Nitrates Directive⁹. This piece of legislation was introduced to reduce the levels of nitrate in drinking water to a maximum of 50mg/l, at present and in the future. Approximately 70% of nitrates in English waters are estimated to come from agricultural land.¹⁰ The UK government therefore restricts the application of fertilisers and animal waste by farmers to the land at certain times of the year, especially during winter when runoff is greatest

⁶ See Appendix 1

⁷ See Appendix 1

⁸ See Appendix 1

⁹ 91/676/EEC

¹⁰ www.adas.co.uk

and plant uptake of the fertiliser is at a minimum.¹¹ This however should not impact on the development as it is not agricultural in nature.

Further mapping indicates that the site is not within a Source Protection Zone. Groundwater provides a third of our drinking water in England and Wales, and it also maintains the flow in many of our rivers. In some areas of Southern England, groundwater supplies up to 80% of the drinking water that we get through our taps. It is crucial that these sources are protected to ensure that the water is completely safe to drink.

Source Protection Zones (SPZs) for 2000 groundwater sources such as wells, boreholes and springs used for public drinking water supply have been defined by the Environment Agency. These zones show the risk of contamination from any activities that might cause pollution in the area and the closer the activity the greater the risk. When present, mapping will show three main zones; inner (SPZ 1), outer (SPZ 2) and total catchment (SPZ 3) and a fourth zone of special interest, which is occasionally applied, to a groundwater source.

2.9 Industrial Land Use and Potential Sources of Contamination

In order for a conceptual site model and preliminary risk assessment to be completed the historical maps and Envirocheck data requires analysis to identify any past or present activities on the site and in the area that may have the potential to cause contamination on the site. Guidance has been issued by the Environment Agency, NHBC and Chartered Institute of Environmental Health.¹² Within this document, annex 3 provides examples of important contaminants that are associated with individual uses of land. This data assists in the formulation of any chemical testing regime.

Those that we consider potentially contaminative according to the guidance are given below:

¹¹ http://en.wikipedia.org/wiki/nitrate_vulnerable_zone

¹² Guidance for the Safe Development of Housing on Land Affected by Contamination, R&D Publication 66: 2008 Volume 1 and 2.

Table 3: Potentially Contaminative Sources

Details	Classification	Location relative to site
Historical Construction	Artificial/made ground	On Site
Barnsley Chronicle/Historic printers	Printing and bookbinding works	100m N
'Works'	Unspecified works, factories or features	125m E, 175m NE, 100m N
Tanks		200m NE
Builders Yard		175m NE
Timber Yard		50m E, 200m SE
Railway	Railway land	200m – 250m E

3. PRELIMINARY RISK ASSESSMENT

The potential of contamination hazards on the land has been identified and the risks associated with them are assessed in the following preliminary risk assessment in accordance with industry practice and the 'suitable for use' approach. This has been conducted using the source-pathway-receptor approach. This method dictates that there must be a risk contaminant produced at a 'source' in sufficient concentration to cause harm and there must be a 'pathway' for the contaminant to reach an identifiable 'receptor' for the linkage to be proved and a contamination hazard to be considered present. Not all substances are contaminants and not all contaminants are considered to be a risk. Indeed DEFRA and The Environment Agency state that **'a contaminant is a substance which has the potential to cause harm, while a risk itself is considered to exist if such a substance is present in sufficient concentration to cause harm and a pathway exists for a receptor to be exposed to the substance.'**

R&D Publication 66: 2008 states that the groups at risk of harm (receptors) can be identified by the following categorisation:

1. Humans: site personnel, end users, visitors and adjacent land users.
2. The water environment – receptors: groundwater, surface water, coastal waters and artificial drainage.
3. Ecosystems: plants and animals.
4. Construction/building materials/services

In order to complete a conceptual site model and therefore a preliminary risk assessment, an appraisal of the sources of contamination, potential and actual, on and in the area of the site has therefore been completed with reference to this pollution linkage.¹³

3.1 **Conceptual Ground Model**

Although plans have not been finalised, it is intended to construct an extension to the rear of the existing building. The footprint will occupy the car park. It is assumed that there are no further landscaped areas planned as part of the construction. In view of the intended plans it is considered that the soil screening values (SSVs) for commercial land use should be employed.

Unless otherwise stated, potential sources of contamination include the following:

On site – Artificial/made ground.

Off site – Printing and bookbinding works; unspecified works, factories or features; railway land.

Table 4: *Potential Harm to Humans and Animals (fauna)*

SOURCES: ON-SITE AND OFF-SITE		
Pathways	Receptor	Linkage Present?
Direct contact/dermal absorption/soil ingestion	Operative	Yes – contact with soil likely during works.
	End User	No – commercial end use.
	Neighbours	No – no residential neighbours and/or large landscaped areas.
Inhalation of Dust/Vapours	Operative	Yes – contact with soil likely during works.
	End User	Yes – potential sources on and off site and vapours may accumulate in enclosed spaces.
	Neighbours	Yes – possible source on site and neighbours adjacent to site.
Ingestion of fruit/vegetables and/or waters	Operative	No – no edible plants or water sources in the area of the proposed new works.
	End User	No – commercial end use.
	Neighbours	No – no residential neighbours and/or large landscaped areas.

¹³ This assessment has been based on the information as to the proposed development that has been provided by the client. If the plans should change, the assessment should be re-evaluated.

Migration of hazardous gases via permeable strata or shallow mining activity	Operative	Yes – potential source on site. However, coal authority report and geology do not suggest likelihood of mines gases.
	End User	Yes – potential source on site. However, coal authority report and geology do not suggest likelihood of mines gases.
	Neighbours	Yes – potential source on site.

Table 5: Potential Harm to Controlled Waters and Groundwater

SOURCES: ON-SITE AND OFF-SITE		
Pathways	Receptor	Linkage Present?
Spillage/loss/run off direct to receiving water	Controlled Waters	No – no controlled waters within 250m.
Migration via permeable unsaturated strata	Controlled Waters	Yes – possible source on site and secondary A aquifer beneath the site.
Run off via drainage/sewers etc	Controlled Waters	Yes – possible source and drainage systems on site, and in densely populated area with immediate neighbouring properties.

Table6: Potential Harm to Plants (flora)

SOURCES: ON-SITE AND OFF-SITE		
Pathways	Receptor	Linkage Present?
Direct contact with contaminated soils	Plants	Yes – boundary landscaping on site.
Uptake via root system	Plants	Yes – boundary landscaping on site.

Table 7: Potential Harm to Buildings/Structures

SOURCES: ON-SITE AND OFF-SITE		
Pathways	Receptor	Linkage Present?
Direct contact with contaminated soils	Building Materials	Yes – possible source on and off site and foundation and service installation materials may be affected by the site soil.
Direct contact with contaminated groundwater	Building Materials	Yes – possible source on and off site and foundation and service installation materials may be affected by the site soil.

3.2 Preliminary Risk Assessment

The preliminary risk assessment has been evaluated with reference to the following ratings and definitions:

Low - A pollution linkage is unlikely and/or the likelihood of harm occurring is low and of minor consequence.

Moderate - The linkage exists but further field or laboratory data is required to confirm that the contaminant has reached the receptor and the levels of contaminant are harmful.

High - The linkage exists and the available data indicates that significant harm may be caused and remedial action could be necessary.

Table 8: Preliminary Risk Assessment

SOURCES: ON-SITE AND OFF-SITE			
Pathways	Receptor	Risk Rating	Notes
Direct contact/dermal absorption/soil ingestion	Operative	Low - Moderate	Whilst there are potential sources off site, due to the steeply sloping topography from west to east, it is considered that they may be restricted to the printing works/chronicle works north of the site. Furthermore it is considered unlikely that any made ground on site is present in significant quantities or made up of highly contaminative materials. It is therefore considered that limited testing be undertaken only, to further quantify any risk to this receptor.
Inhalation of Dust/Vapours	Operative	Low - Moderate	Whilst there are potential sources off site, due to the steeply sloping topography from west to east, it is considered that they may be restricted to the printing works/chronicle works north of the site. Furthermore it is considered unlikely that any made ground on site is present in significant quantities or made up of highly contaminative materials. However construction activities may create dust on and off site, which, if contaminated, could adversely affect operatives, end users and neighbours. In the event that harmful vapours are present they may accumulate in enclosed spaces, affecting operatives and end users. Further testing required to reach a firm conclusion.
	End User		
	Neighbours		
Migration of hazardous gases via permeable strata	Operative	Low	It is considered unlikely that any made ground on site is likely to be present in significant quantities such that harmful gases may be present. There is therefore no prima facie requirement to undertake gas monitoring at this site. However this qualitative rating should be re-assessed during intrusive works should significant made ground be revealed on site.
	End User		
	Neighbours		

Migration via permeable unsaturated strata	Controlled Waters		Whilst the site is underlain by a secondary A aquifer and there is active drainage on site, it is considered unlikely that any made ground on site is likely to be present in significant quantities or made up of highly contaminative materials.
Run off via drainage/sewers etc	Controlled Waters		
Direct contact with contaminated soil	Plants	Low - Moderate	Whilst there are potential sources off site, due to the steeply sloping topography from west to east, it is considered that they may be restricted to the printing works/chronicle works north of the site. Furthermore it is considered unlikely that any made ground on site is present in significant quantities or made up of highly contaminative materials. It is therefore considered that limited testing be undertaken only, to further quantify any risk to this receptor.
Uptake via root system	Plants		
Direct contact with contaminated soils	Building Materials	Low - Moderate	Whilst there are potential sources off site, due to the steeply sloping topography from west to east, it is considered that they may be restricted to the printing works/chronicle works north of the site. Furthermore it is considered unlikely that any made ground on site is present in significant quantities or made up of highly contaminative materials. It is therefore considered that limited testing be undertaken only, to further quantify any risk to this receptor.
Direct contact with contaminated groundwater	Building Materials		
Migration of mine gas via permeable strata	Operative	Low	The coal mining report indicates no worked seams below the site that would affect the receptors.
	End User		
Exposure to Radon	Operative	Low	Not in a radon affected area and protection measures are not required.
	End User		

4. **INTRUSIVE INVESTIGATION**

4.1 **Site Investigation Philosophy**

The information from the Phase 1 Desk Study shows there are potential sources of contamination on the site and in the surrounding area. In view of the above, any intrusive investigation should be undertaken in accordance with the sampling strategies given in BS10175: 2011 and CLR4:1994. These two sampling strategies may be classified as:

- Non Targeted – using a defined sampling pattern (BS10175)
- Targeted – based on prior knowledge and professional judgement (CLR4)

These sampling strategies are considered in more detail below. However, it is emphasised that they can be used individually or in combination depending on the depth of site knowledge.

Non Targeted Sampling.

If no obvious 'hot spots' of contamination have been identified on a site, it is recommended that a stratified random pattern of sampling points be considered. This work should be undertaken with reference to BS10175: 2011 *Investigation of potentially contaminated sites – Code of practice: 7.6*, and BS5930, *Code of practice for site investigations, as amended in 2007*.

Targeted Sampling.

If a possible 'hot spot' of contamination has been identified on a site, it is recommended that a herringbone pattern of sampling points be considered in the immediate vicinity. If strong evidence of contamination has then been identified, it is recommended that sampling be highly focused to reflect that evidence and the investigator's experience. This work should be undertaken with reference to CLR4, *Sampling Strategies for Contaminated Land, 1994*.

The density of sampling required is defined in BS10175: 2011: 7.7.2.2.3, which indicates that an *exploratory* investigation usually requires a lower density sample spacing than does a *main* investigation. The BS goes on to state that *the actual density should depend upon the confidence and robustness required of decisions that will be based on the information obtained. Thus the area and depth of interest will be related to the contaminants present, the pathways and the receptors. Typical densities of sampling grids can vary from 50m to 100m centres for exploratory investigations, and 10m to 25m centres for main investigations.*

4.2 Site Specific Investigation

In view of the information provided above it is considered that an investigation should include the following main elements.

- A regime of boreholes and trial pits should be undertaken to obtain geotechnical as well as environmental and chemical data. This could comprise the following:
 - Hand dug trial pits to expose existing foundations of the current building.
 - 3 to 4 windowless sample boreholes with adjacent dynamic probes.
 - Installation of 3 No gas monitoring standpipes in the windowless sample boreholes, if significant made ground is revealed.
- Whilst there are possible sources of contamination on the site and in the surrounding area, due to the limited potential sources, it is considered that in the first instance an *exploratory* investigation be initially undertaken. This should be sufficiently robust, however, to ensure the following main priorities are achieved.

- To provide sufficient data to enable potential 'hot spots' of contamination to be identified.
- To enable, if required, a programme of additional investigation to be formulated with greater confidence.
- To assess the potential for landfill gas across the site and in particular in the areas where made ground is found to be present.

It is considered that the sampling strategy should be based on BS 10175, Para 7.7.2.2.3 and therefore that the number of sampling points be based upon the tightest grid spacing suggested for an *exploratory* investigation, which is 50m. Therefore, for this 0.07 hectare site a total of 3 sampling points would be required for chemical analysis (there is a minimum requirement of 3 tests).

- Chemical testing should be undertaken on the above grid spacing and the following standard testing regime should be undertaken
 - o **Metals** – Cd, Cr, Cu, Hg, Ni, Pb, Zn, V.
 - o **Semi Metals and Non Metals** – As, Se, Free Cyanide and Phenols.
 - o **Hydrocarbons** – Polycyclic aromatic hydrocarbons (PAH's) 16 EPA, Total petroleum hydrocarbons (TPH CWG)
 - o **Others** – pH, Organic Content.
- Gas monitoring, if required, should be undertaken in accordance with Table 4.2 of CIRIA C665: 2007: *Assessing risks posed by hazardous ground gasses to buildings*. In that document guidance for the frequency of monitoring is provided on tables 5.5a and 5.5b *Typical/idealised frequency and period of monitoring* on page 60. For convenience, these tables have been combined and reproduced below.

Table 9: Typical/idealised frequency and period of monitoring.

Sensitivity of development	Generation potential of source				
	Very low	Low	Moderate	High	Very High
Low (commercial)	4/1	6/2	6/3	12/6	12/12
Moderate (flats)	6/2	6/3	9/6	12/12	24/24
High (residential + gardens)	6/3	9/6	12/6	24/12	24/24

Notes:

- a) The first number is the minimum number of readings and the second number is the minimum period in months, for example 4/1 – Four sets of readings over 1 month.

- b) At least two sets of readings must be at low and falling atmospheric pressure (but not restricted to periods below 1000mb) known as worst case conditions.
- c) The frequency and period stated are considered to represent typical minimum requirements. Depending on specific circumstances fewer or additional readings may be required (e.g. any such variation subject to site specific justification). The NHBC guidance is also recommending these periods/frequencies of monitoring.
- d) Historical data can be used as part of the data set.
- e) Not all sites will require gas monitoring. However this would need to be confirmed with demonstrable evidence.
- f) Placing high sensitivity end use on a high hazard site is not normally acceptable unless the source is removed or treated to reduce its gassing potential. Under such circumstances long-term monitoring may not be appropriate or required.
- g) This guidance should be read in conjunction with BS 8576:2013 figure 6 which may justify fewer readings in the first instance, where the generation potential is considered to be very low to low. However, this should be undertaken pragmatically, and further readings obtained according to the above table, where a potentially significant source is identified and initial readings suggest that remedial measures are not necessary.

5. REFERENCES

- British Standards Institution (1999), BS5930: *Code of practice for site investigations*, B.S.I., London.
- British Standards Institution (2007), Amendment No 1 to BS5930: *Code of practice for site investigations*, B.S.I., London.
- British Standards Institution (2011), BS 10175: *Investigation of potentially contaminated sites – Code of Practice*, British Standards Institute.
- Department for Environment, Food and Rural Affairs and the Environment Agency, DEFRA R&D Publications, Environment Agency, Bristol.
 - CLR 2, 1994, *Guidance on preliminary site inspection of contaminated land*, Volume 1.
 - CLR 4, 1994, *Sampling Strategies for contaminated land*.
- R&D Publication 66: 2008 Guidance for the Safe Development of Housing on Land Affected by Contamination.

- CIRIA Report C665 (2007), Assessing risks posed by ground gasses in buildings.
- The Environment Agency: Groundwater source protection.

For and on behalf of
Rogers Geotechnical Services Ltd,

Emma Rogers LLB
Managing Director

S.P. Rogers CEng, CGeol, MICE, MCIHT, FGS
Technical Director

APPENDIX 1

ENVIROCHECK REPORTS

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

51758722_1_1

Customer Reference:

J2617/13/EDS

National Grid Reference:

434440, 406620

Slice:

A

Site Area (Ha):

0.07

Search Buffer (m):

500

Site Details:

The Cooper Gallery
Church Street
BARNSELY
South Yorkshire
S70 2AH

Client Details:

Mr S Rogers
Rogers Geotechnical Services
Office 1 & 2
Barncliffe Business Park
Near Bank Shelley
Huddersfield
West Yorkshire
HB8 8LU

Report Section	Page Number
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Introduction

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

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

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Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Agency & Hydrological				
Contaminated Land Register Entries and Notices				
Discharge Consents	pg 1			43
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control	pg 11			2
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls	pg 12			1
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 12			Yes
Pollution Incidents to Controlled Waters				
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Registered Radioactive Substances				
River Quality				
River Quality Biology Sampling Points				
River Quality Chemistry Sampling Points				
Substantiated Pollution Incident Register				
Water Abstractions	pg 12			(*6)
Water Industry Act Referrals				
Groundwater Vulnerability	pg 13	Yes	n/a	n/a
Bedrock Aquifer Designations	pg 14	Yes	n/a	n/a
Superficial Aquifer Designations			n/a	n/a
Source Protection Zones				
Extreme Flooding from Rivers or Sea without Defences				n/a
Flooding from Rivers or Sea without Defences				n/a
Areas Benefiting from Flood Defences				n/a
Flood Water Storage Areas				n/a
Flood Defences				n/a
Detailed River Network Lines	pg 14		Yes	
Detailed River Network Offline Drainage	pg 14			Yes

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Waste				
BGS Recorded Landfill Sites				
Historical Landfill Sites	pg 15			1
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)	pg 15			1
Local Authority Recorded Landfill Sites	pg 15			1
Registered Landfill Sites	pg 15			1
Registered Waste Transfer Sites	pg 16			2
Registered Waste Treatment or Disposal Sites				
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 1:625,000 Solid Geology	pg 17	Yes	n/a	n/a
BGS Estimated Soil Chemistry	pg 17	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 18			1
BGS Urban Soil Chemistry				
BGS Urban Soil Chemistry Averages				
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas	pg 18	Yes	n/a	n/a
Mining Instability	pg 18	Yes	n/a	n/a
Man-Made Mining Cavities				
Natural Cavities				
Non Coal Mining Areas of Great Britain	pg 18	Yes	Yes	n/a
Potential for Collapsible Ground Stability Hazards	pg 18	Yes		n/a
Potential for Compressible Ground Stability Hazards	pg 18		Yes	n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 18	Yes		n/a
Potential for Running Sand Ground Stability Hazards	pg 19	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 19		Yes	n/a
Radon Potential - Radon Affected Areas			n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Industrial Land Use				
Contemporary Trade Directory Entries	pg 20		9	43
Fuel Station Entries	pg 24			1
Sensitive Land Use				
Areas of Adopted Green Belt				
Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty				
Environmentally Sensitive Areas				
Forest Parks				
Local Nature Reserves				
Marine Nature Reserves				
National Nature Reserves				
National Parks				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones	pg 25	1		
Ramsar Sites				
Sites of Special Scientific Interest				
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Westhill Cso, Rotherham, . Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: S/Cb/8 Permit Version: 1 Effective Date: 29th May 1963 Issued Date: 29th May 1963 Revocation Date: 31st March 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Varies With Outlet Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 10m	A13SW (S)	279	1	434397 406330
1	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Graham's Orchard, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 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: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	285	1	434390 406325
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Old Mill, Old Mill Lane, BARNSELY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	288	1	434350 406330
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Ballotine Works, Pontefract Road, BARNSELY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	289	1	434345 406330

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Express Dairy, Pontefract Road, BARNSELEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	291	1	434340 406330
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Grange Lane, Stairfoot, BARNSELEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	292	1	434335 406330
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Oakwell Lane, BARNSELEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	293	1	434350 406325
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Graham's Orchard, BARNSELEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	294	1	434345 406325

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Wellington Street (1), BARNSELY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	294	1	434330 406330
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Westhill Cso, Rotherham, . Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: S/Cb/8 Permit Version: 1 Effective Date: 29th May 1963 Issued Date: 29th May 1963 Revocation Date: 31st March 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Varies With Outlet Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 10m	A13SW (S)	296	1	434345 406323
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Highstone Road, BARNSELY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	296	1	434340 406325
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Honeywell-Smithies Lane, BARNSELY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	297	1	434335 406325

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Wakefield Road, New Lodge, BARNLEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	298	1	434350 406320
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Dog Lane, BARNLEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	299	1	434345 406320
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Wellington Street (2), BARNLEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	299	1	434330 406325
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Kendray Street (1), BARENSLEY Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	300	1	434340 406320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Kendray Street (2), BARNSELY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	302	1	434335 406320
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Marsh Crescent, New Lodge, BARNSELY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	303	1	434350 406315
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Klondyke, Tumbling Lane, CUDWORTH, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	303	1	434330 406320
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Cheapside, Queen Street, BARNSELY, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	304	1	434345 406315

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Athersley South-Laithe Lane, BARNSELY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	305	1	434340 406315
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Birk Road, Kendray, BARNSELY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	307	1	434335 406315
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Mount Vernon Avenue, BARNSELY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	307	1	434350 406310
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Mixed Farming Location: Hill Top Farm, New Lodge, BARNSELY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	308	1	434330 406315

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Lambra Road (2), BARNSELEY Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	309	1	434345 406310
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Lambra Road (1), BARNSELEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	310	1	434340 406310
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Lambert Road, Kendray, BARNSELEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	311	1	434335 406310
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Public Houses & Bars Location: The Mount Public House, Pontefract Road, BARNSELEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	313	1	434330 406310

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Dog Lane, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 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: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	318	1	434330 406305
3	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Westhill Cso, Rotherham, . Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: S/Cb/8 Permit Version: 1 Effective Date: 29th May 1963 Issued Date: 29th May 1963 Revocation Date: 31st March 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Varies With Outlet Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 10m	A13SE (S)	323	1	434560 406308
3	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 29th May 1963 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SE (S)	331	1	434560 406300
3	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 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: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SE (S)	335	1	434560 406295

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Westhill Cso, Rotherham, . Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: S/Cb/8 Permit Version: 1 Effective Date: 29th May 1963 Issued Date: 29th May 1963 Revocation Date: 31st March 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Varies With Outlet Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	345	1	434710 406380
4	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Kendray Street Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 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: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	348	1	434710 406375
4	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Westhill Cso, Rotherham, . Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: S/Cb/8 Permit Version: 1 Effective Date: 29th May 1963 Issued Date: 29th May 1963 Revocation Date: 31st March 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Varies With Outlet Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	380	1	434720 406340
4	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Kendray Street, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 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: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	383	1	434720 406335

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Wellington Street, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 29th May 1963 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NW (S)	368	1	434420 406240
5	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Westhill Cso, Rotherham, . Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: S/Cb/8 Permit Version: 1 Effective Date: 29th May 1963 Issued Date: 29th May 1963 Revocation Date: 31st March 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Varies With Outlet Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 10m	A8NW (S)	368	1	434427 406240
5	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Wellington Street, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 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: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NW (S)	373	1	434420 406235
5	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Westhill Cso, Rotherham, . Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: S/Cb/8 Permit Version: 1 Effective Date: 29th May 1963 Issued Date: 29th May 1963 Revocation Date: 31st March 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Varies With Outlet Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 10m	A8NW (S)	381	1	434433 406227

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Wellington Street, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 29th May 1963 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NW (S)	388	1	434430 406220
5	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Wellington Street, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/CB/8 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: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NW (S)	393	1	434430 406215
6	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Trade (Unknown/Other) Location: Regent Street, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Ywucd2/4 Permit Version: 1 Effective Date: 12th November 1997 Issued Date: 12th November 1997 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Dearne 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	A14NW (NE)	458	1	434832 406906
7	Integrated Pollution Prevention And Control Name: Monckton Coke And Chemical Co Ltd Location: Po Box 25, Royston, Barnsley, South Yorkshire, S71 4BE Authority: Environment Agency, North East Region Permit Reference: Bk3441 Original Permit Ref: Bk3441 Effective Date: 13th June 2002 Status: Superseded By Variation Application Type: PPC APPLICATION App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 1.1 B (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 20Mw But Less Than 50Mw (Unless 1.1 A(1) B) Primary Activity: Not Supplied Activity Code: 4.2 A(1) (A) (III) Activity Description: Inorganic Chemicals; Bases Eg Ammonium Hydroxide Primary Activity: Not Supplied Activity Code: 4.1 A(1) (A) (I) Activity Description: Organic Chemicals; Hydrocarbons Eg Aromatics Primary Activity: Not Supplied Activity Code: 3.5 B (B) (I) Activity Description: Other Mineral Activities; Crushing Etc Of Coal Etc (Unless Exempt Location) Primary Activity: Not Supplied Activity Code: 1.2 A(1) (C) Activity Description: Gasification, Liquifac. And Refining; Operating Coke Ovens Primary Activity: Not Supplied	A8NW (S)	365	1	434387 406245

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Integrated Pollution Prevention And Control Name: Monckton Coke And Chemical Company Limited Location: The Monckton Coke And Chemical Co Ltd, Po Box 25, Royston, South Yorkshire, S71 4BE Authority: Environment Agency, North East Region Permit Reference: YP3934UX Original Permit Ref: Bk3441ia Effective Date: 11th October 2007 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 10m Activity Code: 4.2 A(1) (A) (III) Activity Description: Inorganic Chemicals; Bases Eg Ammonium Hydroxide Primary Activity: N Activity Code: 4.1 A(1) (A) (I) Activity Description: Organic Chemicals; Hydrocarbons Eg Aromatics Primary Activity: N Activity Code: 3.5 B (B) (I) Activity Description: Other Mineral Activities; Crushing Etc Of Coal Etc (Unless Exempt Location) Primary Activity: N Activity Code: 1.1 B (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 20Mw But Less Than 50Mw (Unless 1.1 A(1) B) Primary Activity: Y	A8NW (S)	371	1	434380 406240
8	Local Authority Pollution Prevention and Controls Name: Johnson Dry Cleaners Ltd Location: 14 Peel Square, Barnsley, S70 1YA Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: PPC/B/74 Dated: 22nd August 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Site Closed Positional Accuracy: Manually positioned to the address or location	A13SW (S)	310	2	434428 406298
	Nearest Surface Water Feature	A13SW (SW)	333	-	434306 406297
	Water Abstractions Operator: C C Cooper Limited Licence Number: 2/27/08/045 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 295 Yearly Rate (m3): 107522 Details: Licence Lapsed 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	A19SW (NE)	735	1	435100 407000
	Water Abstractions Operator: Yorkshire Water Plc Licence Number: 2/27/08/058 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: Unclassified (Other) Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 14 Yearly Rate (m3): 1137 Details: Licence Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	887	1	433700 406100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Sheldale Developments Ltd Licence Number: 2/27/08/133 Permit Version: 1 Location: Spring - Sandstone&Middle Coal Measures - Barnsley Authority: Environment Agency, North East Region Abstraction: Food And Drink: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: 43a Shaw Lane, Barnsley, South Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	910	1	433700 406060
	Water Abstractions Operator: Yorkshire Water Plc Licence Number: 2/27/08/057 Permit Version: Not Supplied Location: County Borough Of Barnsley Authority: Environment Agency, North East Region Abstraction: Unclassified (Other) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 18 Yearly Rate (m3): 2273 Details: Not Supplied 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	A19NW (N)	926	1	434800 407500
	Water Abstractions Operator: Sheldale Developments Ltd Licence Number: 2/27/08/110 Permit Version: 101 Location: Spring-Sandstone/Middle Coal Measures-Shaw Lane Authority: Environment Agency, North East Region Abstraction: Food And Drink: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: 43a Shaw Lane, Barnsley, South Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th April 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	948	1	433700 406000
	Water Abstractions Operator: Sheldale Water Limited Licence Number: 2/27/08/110 Permit Version: 100 Location: Well/Spring - Sandstone/Middle Coal Measures - Shaw Lane Authority: Environment Agency, North East Region Abstraction: Food And Drink: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 200 Yearly Rate (m3): 45000 Details: Land Adjoining To Rear Of 43a Shaw Lane, Barnsley, South Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st December 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	948	1	433700 406000
	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 (S)	0	1	434444 406622
	Drift Deposits None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Bedrock Aquifer Designations Aquifer Desination: Secondary Aquifer - A	A13SW (S)	0	3	434444 406622
	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				
9	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Currently Undefined Management Status: Water Course: Sough Dike Name: Water Course: 3214 Reference:	A13SE (SE)	243	1	434543 406387
10	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D004	A14NW (NE)	435	1	434820 406883
11	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D004	A18SW (NW)	488	1	434193 407055

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Historical Landfill Sites Licence Holder: White and Peace Location: Town Centre, Barnsley Name: Land off Old Mill Lane Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04356 First Input Date: 30th November 1984 Last Input Date: 31st December 1989 Specified Waste: Deposited Waste included Inert and Commercial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0426 BGS Ref: Not Supplied Other Ref: WD20 B446	A18SE (N)	345	1	434499 406981
13	Licensed Waste Management Facilities (Locations) Licence Number: 60598 Location: Harborough Hill Road, Harborough, Barnsley, South Yorkshire, S71 1BD Operator Name: Yorkshire Electricity Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Transfer stations Licence Status: Surrendered Issued: 14th September 1992 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 13th May 1999 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NW (E)	338	1	434800 406650
	Local Authority Landfill Coverage Name: Barnsley Metropolitan Borough Council - Has supplied landfill data		0	2	434444 406622
14	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: 23 Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A18SE (N)	358	2	434485 406995
15	Registered Landfill Sites Licence Holder: White & Peace Licence Reference: WD20 B 446 MOD 2 Site Location: Old Mill Lane, Barnsley, South Yorkshire Licence Easting: 434500 Licence Northing: 407100 Operator Location: Twibell Street, BARNSELY, South Yorkshire, S71 1D 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: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st November 1984 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Demol'N Waste, Brick, Stone Rubble Excavation Waste, Soil, Subsoil Prohibited Waste: All Forms Of Asbestos Liquids In Containers Over 4l Cap. Slurry In Containers Over 4l Cap.	A18SE (N)	463	1	434500 407100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Registered Waste Transfer Sites Licence Holder: Yorkshire Electricity Licence Reference: WD20 B 879 MOD 2 Site Location: Harborough Hill Road, BARNSELY, South Yorkshire, S71 1BD Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Transfer Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence has completion certificateSurrendered Dated: 1st April 1997 Preceded By: WD20 B 879 Licence: Superseded By: Not Given Licence: Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste: Max.Waste Permitted By Licence Mineral Oils And Max.Stor Non-Haz. Building Waste Non-Haz. Com./Ind. Waste Non-Haz. Excavation & Max.Stor Scrap Metal Max.Stor Synthetic Oils Prohibited Waste: Asbestos - Any Type Putrescible Waste Waste N.O.S.	A14NW (E)	338	1	434800 406650
16	Registered Waste Transfer Sites Licence Holder: Yorkshire Electricity Licence Reference: WD20 B 879 Site Location: Harborough Hill Road, BARNSELY, South Yorkshire, S71 1BD Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Transfer Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Record supersededSuperseded Dated: 14th September 1992 Preceded By: Not Given Licence: Superseded By: WD20 B 879 MOD 2 Licence: Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste: Com. + Ind. Non-Haz. Waste Mstor Empty Tins Of Dmi Mstor Non-Haz. Excav'N/Build. Waste Mstor Scrap Metal Mstor Prohibited Waste: Asbestos Of Any Type Putrescible Waste	A14NW (E)	338	1	434800 406650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lower Westphalian (mainly Productive Coal Measures)	A13SW (S)	0	3	434444 406622
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (S)	0	4	434444 406622
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (E)	103	4	434562 406597
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (S)	253	4	434373 406360
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	362	4	434444 407000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (W)	426	4	434000 406622
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SE (W)	433	4	434000 406536

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12SE (SW)	487	4	434028 406329
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12SE (SW)	490	4	434000 406368
17	BGS Recorded Mineral Sites Site Name: Barnsley Colliery Location: , Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 37845 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	400	3	434177 406937
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	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 (S)	0	5	434444 406622
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (S)	0	-	434444 406622
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	434444 406622
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	103	3	434562 406598
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	434444 406622
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	434444 406622
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	93	3	434552 406655
	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 (S)	0	3	434444 406622

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	434444 406622
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	93	3	434552 406655
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	132	3	434589 406587
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	434444 406622
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	131	3	434590 406592
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	163	3	434622 406591
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	229	3	434672 406532
	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 (S)	0	3	434444 406622
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	434444 406622

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	Contemporary Trade Directory Entries Name: Prontaprint Location: 51, Church Street, Barnsley, South Yorkshire, S70 2AH Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	94	-	434395 406715
19	Contemporary Trade Directory Entries Name: Finesse For Fragrance Location: 3, The Arcade, Barnsley, South Yorkshire, S70 2QP Classification: Perfume Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	195	-	434484 406421
20	Contemporary Trade Directory Entries Name: T W Brown Location: 48, The Arcade, Barnsley, South Yorkshire, S70 2QN Classification: Hardware Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	198	-	434544 406437
20	Contemporary Trade Directory Entries Name: Homestyle By Fads Location: 31-33, Eldon Street, Barnsley, South Yorkshire, S70 2JJ Classification: Wallpapers & Wall Coverings Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	220	-	434542 406412
21	Contemporary Trade Directory Entries Name: Jennings Uk Ltd Location: County Way, Barnsley, South Yorkshire, S70 2JW Classification: Photo & Digital Imaging Bureaus Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13NE (NE)	212	-	434620 406777
22	Contemporary Trade Directory Entries Name: Currys Location: 11-13, Market Hill, Barnsley, South Yorkshire, S70 2PR Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	229	-	434404 406380
22	Contemporary Trade Directory Entries Name: E N Smith Location: 1 Peel St, Barnsley, South Yorkshire, S70 2RA Classification: Jewellery Manufacturers & Repairers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SW (S)	273	-	434386 406338
23	Contemporary Trade Directory Entries Name: Stagecoach Location: 4, Eldon Arcade, Barnsley, South Yorkshire, S70 2JP Classification: Bus & Coach Operators & Stations Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	237	-	434629 406451
23	Contemporary Trade Directory Entries Name: Stagecoach Yorkshire Location: 4, Eldon Arcade, Barnsley, South Yorkshire, S70 2JP Classification: Bus & Coach Operators & Stations Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	237	-	434629 406451
24	Contemporary Trade Directory Entries Name: Gas Centre Location: 32 Shambles St, Barnsley, South Yorkshire, S70 2SH Classification: Gas Appliances - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	238	-	434310 406400
25	Contemporary Trade Directory Entries Name: Skills Travel Ltd Location: Burlington Arc, Barnsley, South Yorkshire, S70 1SZ Classification: Bus & Coach Operators & Stations Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SE (SE)	265	-	434552 406367
26	Contemporary Trade Directory Entries Name: Klick Location: 6, Market Street, Barnsley, South Yorkshire, S70 1SL Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	290	-	434469 406320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Contemporary Trade Directory Entries Name: Distinct Designs Location: 2-8, Peel Street, Barnsley, South Yorkshire, S70 2QX Classification: Jewellery Manufacturers & Repairers Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (S)	295	-	434385 406316
26	Contemporary Trade Directory Entries Name: Johnson Cleaners (UK) Ltd Location: 14, Peel Square, Barnsley, South Yorkshire, S70 1YA Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	309	-	434428 406298
27	Contemporary Trade Directory Entries Name: Spring Box Location: 1, Peel Street Arcade, Barnsley, South Yorkshire, S70 2RS Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	297	-	434293 406342
28	Contemporary Trade Directory Entries Name: Cad Lab Location: 28 Peel Pde, Barnsley, South Yorkshire, S70 2RN Classification: Laboratories Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	310	-	434244 406357
29	Contemporary Trade Directory Entries Name: Minnovation Ltd Location: Mulberry House, 21, Victoria Road, Barnsley, South Yorkshire, S70 2BB Classification: Engineering Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	320	-	434183 406831
30	Contemporary Trade Directory Entries Name: Klick Photopoint Location: 15, May Day Green, Barnsley, South Yorkshire, S70 1RH Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	324	-	434609 406328
30	Contemporary Trade Directory Entries Name: Klick Location: 15, May Day Green, Barnsley, South Yorkshire, S70 1RH Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	324	-	434609 406328
30	Contemporary Trade Directory Entries Name: Wall Works Location: 6, Market Parade, Barnsley, South Yorkshire, S70 1DE Classification: Wallpapers & Wall Coverings Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	326	-	434651 406352
30	Contemporary Trade Directory Entries Name: Scented Pleasure Location: 14, Upper May Day Green Arcade, Barnsley, South Yorkshire, S70 1SY Classification: Toiletries Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	359	-	434640 406305
31	Contemporary Trade Directory Entries Name: Max Spielmann Location: 12, Cheapside, Barnsley, South Yorkshire, S70 1RR Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	328	-	434541 406297
31	Contemporary Trade Directory Entries Name: Bevs Cards Location: Upper May Day Green Arcade, Barnsley, South Yorkshire, S70 1SY Classification: Greeting Card Publishers & Wholesalers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SE (S)	345	-	434581 406292
32	Contemporary Trade Directory Entries Name: D T Metalcraft Location: 32 Rear Of Eldon St North, Barnsley, South Yorkshire, S71 1LF Classification: Wrought Ironwork Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	330	-	434730 406828

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	Contemporary Trade Directory Entries Name: Firex Location: 46, Eldon Street North, Barnsley, South Yorkshire, S71 1LG Classification: Firefighting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	356	-	434741 406856
33	Contemporary Trade Directory Entries Name: Gasco Services Location: 16, Mottram Street, Barnsley, South Yorkshire, S71 1BH Classification: Catering Equipment - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	341	-	434785 406743
34	Contemporary Trade Directory Entries Name: Autofix Garage Services Location: 5, James Street, Barnsley, South Yorkshire, S71 1BL Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	343	-	434770 406786
35	Contemporary Trade Directory Entries Name: Deep Clean Location: 11, Greenwood Terrace, Barnsley, South Yorkshire, S70 2DA Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	344	-	434082 406645
35	Contemporary Trade Directory Entries Name: Deep Clean Professional Cleaning Services Location: 11, Greenwood Terrace, Barnsley, South Yorkshire, S70 2DA Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	344	-	434082 406645
36	Contemporary Trade Directory Entries Name: Bright House Location: 30 Market St, Barnsley, South Yorkshire, S70 1SN Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Active Positional Accuracy: Manually positioned to the address or location	A8NE (S)	344	-	434494 406270
37	Contemporary Trade Directory Entries Name: Transform Images Location: 1-3, May Day Green Arcade, Barnsley, South Yorkshire, S70 1RG Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	359	-	434602 406286
38	Contemporary Trade Directory Entries Name: H & H Specialist Cleaning Co Ltd Location: Providence Villa, 42, Sackville Street, Barnsley, South Yorkshire, S70 2DB Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12SE (W)	379	-	434051 406563
39	Contemporary Trade Directory Entries Name: Whiterose Grp Location: 6, Coalby Walk, Barnsley, South Yorkshire, S70 2NQ Classification: Glass Fibre Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	381	-	434062 406499
39	Contemporary Trade Directory Entries Name: Dynaco Cleaning Services Location: Gateway Plaza, Fitzwilliam St, Barnsley, South Yorkshire, S70 2RH Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A12SE (SW)	388	-	434075 406445
39	Contemporary Trade Directory Entries Name: Roger Brotton Classics Ltd Location: Fitzwilliam St, Barnsley, South Yorkshire, S70 2NL Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	419	-	434034 406462
39	Contemporary Trade Directory Entries Name: Mobile Garage Services Location: Fitzwilliam Street, BARNSELY, South Yorkshire, S70 2NL Classification: Car Engine Tuning & Diagnostic Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	464	-	433994 406442

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	Contemporary Trade Directory Entries Name: National Tyres And Autocare Location: Shambles Street, Barnsley, South Yorkshire, S70 2SB Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	387	-	434115 406379
41	Contemporary Trade Directory Entries Name: Foxwood Location: The Coach House, 51, Sackville Street, Barnsley, South Yorkshire, S70 2BZ Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	424	-	434015 406727
42	Contemporary Trade Directory Entries Name: Scorpion Printing Location: Eldon Street North, Barnsley, South Yorkshire, S71 1LQ Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A13NE (NE)	426	-	434774 406928
43	Contemporary Trade Directory Entries Name: Snappies Location: 1, New Street, Barnsley, South Yorkshire, S70 1RX Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	442	-	434616 406202
43	Contemporary Trade Directory Entries Name: Harris & Harris Location: 5, New Street, Barnsley, South Yorkshire, S70 1RX Classification: Children & Babywear - Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	450	-	434616 406193
43	Contemporary Trade Directory Entries Name: Photo Mac Location: 9, New Street, Barnsley, South Yorkshire, S70 1RX Classification: Photographic Equipment & Supplies - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	459	-	434611 406181
43	Contemporary Trade Directory Entries Name: Advanced Dry Cleaning & Alterations Location: Unit K2 New St,Cheapside, Barnsley, South Yorkshire, S70 1SB Classification: Dry Cleaners Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A8NE (S)	482	-	434605 406155
44	Contemporary Trade Directory Entries Name: Barnsley Pest Control Services Location: Wellington House,Wellington St, Barnsley, S Yorkshire, S70 1WA Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NE (S)	445	-	434459 406164
45	Contemporary Trade Directory Entries Name: Express Fit Location: 1a Malthouse Rd, Barnsley, South Yorkshire, S71 1AL Classification: Garage Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A8NE (SE)	449	-	434746 406271
46	Contemporary Trade Directory Entries Name: Enterprise Garage Location: Summer Lane, Barnsley, South Yorkshire, S70 2NW Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (SW)	452	-	434025 406400
46	Contemporary Trade Directory Entries Name: Costcom Location: Fitzwilliam Street, Barnsley, South Yorkshire, S70 2NL Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A12SE (SW)	452	-	434013 406429
46	Contemporary Trade Directory Entries Name: Jt Tints Location: Summer Lane, BARNSLEY, South Yorkshire, S70 2NW Classification: Window Tinting Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	452	-	434025 406400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	Contemporary Trade Directory Entries Name: We Supply U Fit Ltd Location: McIntocks Building ,Summer La, Barnsley, South Yorkshire, S70 2NZ Classification: Fascias and Soffits Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A12SE (SW)	485	-	433982 406416
47	Contemporary Trade Directory Entries Name: Denton Street Garage Location: Denton St, Barnsley, South Yorkshire, S71 1DA Classification: Garage Services Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A14NW (NE)	479	-	434886 406858
48	Contemporary Trade Directory Entries Name: Darton Business Services Location: 12-18, Summer Lane, Barnsley, South Yorkshire, S70 6BN Classification: Office Furniture & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	486	-	434028 406329
48	Contemporary Trade Directory Entries Name: Colourcade Location: 12-18, Summer Lane, Barnsley, South Yorkshire, S70 6BN Classification: Printers Status: Active Positional Accuracy: Manually positioned to the address or location	A12SE (SW)	486	-	434028 406329
49	Fuel Station Entries Name: Westways Service Station Location: 1 Westways, BARNSLEY, South Yorkshire, S70 1PN Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A8NW (S)	425	-	434350 406190

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	Nitrate Vulnerable Zones Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A13SW (S)	0	8	434444 406622

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	July 2013	Annual Rolling Update
Discharge Consents Environment Agency - North East Region	October 2013	Quarterly
Enforcement and Prohibition Notices Environment Agency - North East Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - North East Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - North East Region	October 2013	Quarterly
Local Authority Integrated Pollution Prevention And Control Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	November 2012	Annual Rolling Update
Local Authority Pollution Prevention and Controls Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	November 2012	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	November 2012	Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - North East Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North East Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - North East Region	March 2013	As notified
Registered Radioactive Substances Environment Agency - North East Region	October 2013	Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	October 2013 October 2013	Quarterly Quarterly
Water Abstractions Environment Agency - North East Region	October 2013	Quarterly
Water Industry Act Referrals Environment Agency - North East Region	October 2013	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	Annually
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	Annually
Source Protection Zones Environment Agency - Head Office	October 2013	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2013	Quarterly

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2013	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2013	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2013	Quarterly
Flood Defences Environment Agency - Head Office	August 2013	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area Environment Agency - South East Region - Kent & South London Area Environment Agency - South East Region - North East Thames Area Environment Agency - South East Region - Solent & South Downs Area Environment Agency - South East Region - West Thames Area	October 2013 October 2013 October 2013 October 2013 October 2013 October 2013	Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North East Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area Environment Agency - South East Region - Kent & South London Area Environment Agency - South East Region - North East Thames Area Environment Agency - South East Region - Solent & South Downs Area Environment Agency - South East Region - West Thames Area	October 2013 October 2013 October 2013 October 2013 October 2013 October 2013	Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	July 2013 July 2013	Quarterly Quarterly
Local Authority Landfill Coverage Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	May 2000	Not Applicable
Local Authority Recorded Landfill Sites Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	May 2000	Not Applicable
Registered Landfill Sites Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	August 2013	Bi-Annually
Explosive Sites Health and Safety Executive	November 2013	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Barnsley Metropolitan Borough Council - Planning Department	October 2013	Annual Rolling Update
Planning Hazardous Substance Consents Barnsley Metropolitan Borough Council - Planning Department	October 2013	Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Variable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2013	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	January 2012	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	October 2013	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	October 2013	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	October 2013	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	October 2013	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	October 2013	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	October 2013	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2013	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2013	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt Barnsley Metropolitan Borough Council - Planning Department	November 2013	As notified
Areas of Unadopted Green Belt Barnsley Metropolitan Borough Council - Planning Department	November 2013	As notified
Areas of Outstanding Natural Beauty Natural England	July 2013	Bi-Annually
Environmentally Sensitive Areas Natural England	July 2013	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	July 2013	Bi-Annually
Marine Nature Reserves Natural England	July 2013	Bi-Annually
National Nature Reserves Natural England	July 2013	Bi-Annually
National Parks Natural England	July 2013	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2013	Annually
Ramsar Sites Natural England	July 2013	Bi-Annually
Sites of Special Scientific Interest Natural England	July 2013	Bi-Annually
Special Areas of Conservation Natural England	July 2013	Bi-Annually
Special Protection Areas Natural England	July 2013	Bi-Annually

A selection of organisations who provide data within this report

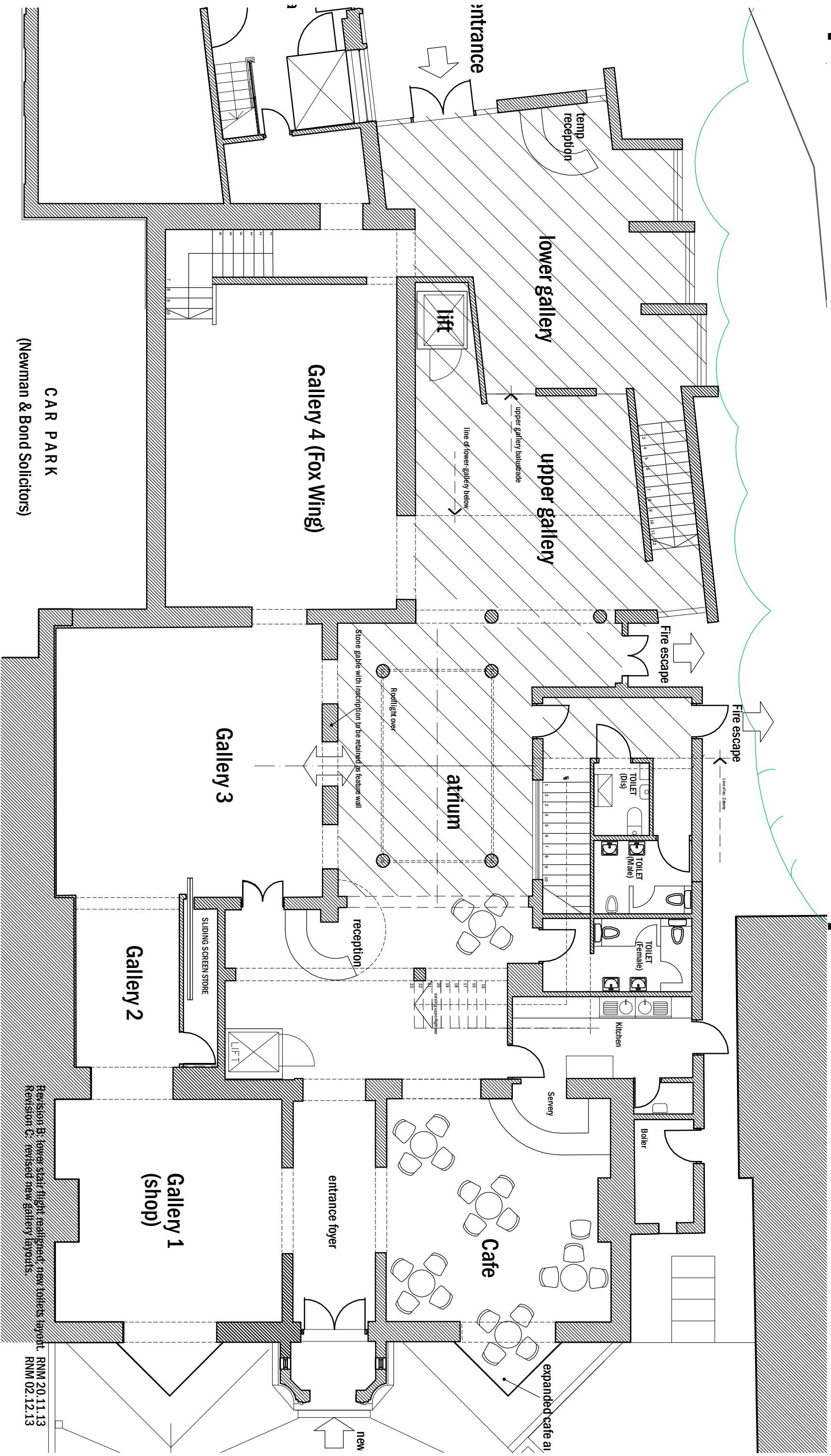
Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Central Offices, Kendray Street, Barnsley, South Yorkshire, S70 2TN	Telephone: 01226 770770 Fax: 01226 772599 Website: www.barnsley.gov.uk
3	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
4	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmarkinfo.co.uk
5	The Coal Authority - Mining Report Service 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
6	Barnsley Metropolitan Borough Council - Planning Department Central Offices, Kendray Street, Barnsley, South Yorkshire, S70 2TN	Telephone: 01226 770770 Fax: 01226 772599 Website: www.barnsley.gov.uk
7	Natural England Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
8	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

APPENDIX 3

SITE PLANS



Proposed Ground floor Plan

SKETCH PROPOSALS DECEMBER 2013

Drawing No. RL3111 SK012C

Scale 1:200 @ A3

Revision B: lower stair flight realigned, new toilets layout.
Revision C: revised new gallery layouts.

RNM 20.11.13
RNM 02.12.13

APPENDIX 4

PHOTOGRAPHS



**Rogers Geotechnical
Services Ltd**

Project Name:

THE COOPER GALLERY, CHURCH
STREET, BARNSELEY, S70 2AH

Project Number:

J2617/13/EDS



**Rogers Geotechnical
Services Ltd**

Project Name:

THE COOPER GALLERY, CHURCH
STREET, BARNSELEY, S70 2AH

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Services Ltd**

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THE COOPER GALLERY, CHURCH
STREET, BARNSELEY, S70 2AH

Project Number:
J2617/13/EDS

APPENDIX 5

COAL AUTHORITY REPORT



The Coal Authority

Issued by:

The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG
Website: www.groundstability.com Phone: 0845 762 6848 DX 716176 MANSFIELD 5

**ROGERS GEOTECHNICAL SERVICES
LTD
BARNCLIFFE MILLS
NEAR BANK
SHELLEY
HUDDERSFIELD
HD8 8LU**

Our reference: **51000443114001**
Your reference: **J2617/13/EDS**
Date of your enquiry: **16 December 2013**
Date we received your enquiry: **16 December 2013**
Date of issue: **16 December 2013**

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

Non-Residential Coal Authority Mining Report

CHURCH STREET, BARNSELEY, SOUTH YORKSHIRE, S70 2AH

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	See comments below
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 1 seam of coal at 120m depth, and last worked in 1860.

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 or otherwise work coal using underground methods.

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.

Records may be incomplete. Consequently, there may exist in the local area mine entries of which the Coal Authority has no knowledge.

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 subject property, or any property within 50 metres, since 31st 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 not in an area for which a notice of entitlement to withdraw support has been published.

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.

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 Coal Authority owns the copyright in this report. The information we have used to write this report is protected by our database right. All rights are reserved and unauthorised use is prohibited. If we provide a report for you, this does not mean that copyright and any other rights will pass to you. However, you can use the report for your own purposes.

Issued by:	The Coal Authority, 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG
Tax Point Date:	16 December 2013
Issued to:	ROGERS GEOTECHNICAL SERVICES LTD BARNCLIFFE MILLS NEAR BANK SHELLEY HUDDERSFIELD HD8 8LU
Property Search for:	CHURCH STREET, BARNLEY, SOUTH YORKSHIRE, S70 2AH
Reference Number:	51000443114001
Date of Issue:	16 December 2013
Cost:	£59.00
VAT @ 20%:	£11.80
Total Received:	£70.80
VAT Registration	598 5850 68

The map shows the town of Barnsley with a grid overlay. The Barnsley Local Centre (LC) is marked with a green circle in the center. Other labels include 'Hospl', 'Coll', '69', '44', '128', 'Shaw Lands', 'Kingstone', 'Football Gd', and 'BARNSLY'. The grid coordinates are 433000, 434000, 435000 horizontally and 407000, 408000 vertically.

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