BSC'P

Part of the **gha livigunn group**

PRELIMINARY INVESTIGATION

OF

LAND OFF BAKEWELL ROAD, BUXTON

PREPARED FOR

WM MORRISON SUPERMARKETS PLC

3rd December 2010 (Rev A)

ISO 9001 REGISTERED FIRM
GB4389
constructionline
gha livigunn

Birkett Stevens Colman Partnership Ltd Registered in England No.2585136
Directors: **M.C.Ingram** BSc, CEng, FIChemE **J.B.Ireland** HNC **C.W.Stockton** BEng, CEng, MIMechE **S.D Tennant** BSc, CEng, MICE, FIStructE, FConsE **J.R.Testo** BSc, CEng, MIStructE
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Consultants: **G.Jones** EurIng, MSc, CEng, FICE, FIStructE, FIHT, FConsE **F. Parkinson** CEng, MIStructE, FFB, FConsE

1.0 INTRODUCTION

It is understood that Wm Morrisons Supermarket plc intend to construct an extension at the existing store at Buxton, Derbyshire.

The site is located on the outskirts of the town centre to the south east. It currently accommodates a trading supermarket with associated service yard and customer parking facilities. There is an area of undeveloped land on the north and north east sides of the site which is currently soft covered. The proposed building extension is to be located in this area of the site.

The site is bounded to the north east by a railway line immediately beyond the soft covered undeveloped section of site. The River Wye runs to the south and west of the site and runs partly within the southern site boundary.

It is currently proposed to construct the extension, as shown on Smith Design Associates drawing no. G2286/AL(0)07 – Proposed Site Plan, which is included in Appendix A.

The objectives of this investigation were to determine the following:

- The land use history of the site from an inspection of available historical Ordnance Survey (OS) maps.
- The environmental setting of the site.
- Whether past mining is likely to have an influence on surface stability at the site.
- Whether the site had previously been used for any purpose that may have given rise to significant ground contamination.
- The likely risk to the site from hazardous gas.

As part of this desk study, information has been sourced from the Landmark Information Group (Envirocheck Report contained in Appendix B)

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2.0 SITE DESCRIPTION

National Grid Reference	406580, 372960
Site Location	The site is located towards the south east and on the outskirts of Buxton town centre. The site is bounded by a railway line to the north/north eastern sides and by the River Wye to the western and southern boundary. Bakewell Road completes the southern boundary with the River changing course to run immediately inside the south boundary. The site location is shown on Smith Design Associates drawing G2286/AL(0)07 as Appendix A.
Site Description	The site is an irregular shape with a total area of circa 2.3ha though a nominal 0.01ha will need to be acquired in order to suite the currently proposed car deck layout. The site is currently developed with a trading supermarket and with associated service yard and customer car parking. The currently soft covered undeveloped land to the north side of the existing building slopes steeply downwards from the boundary to a gabion retaining wall structure which runs approximately parallel to the building's north elevation. An undeveloped area of land to the east slopes downwards away from the existing building. The carpark slopes upwards away from the building towards the north west corner of the site.

3.0 SITE HISTORY

In order to investigate the history of the site, extracts of Ordnance Survey (OS) plans dated from 1879 – 1993, obtained as part of an Environmental Data Report, have been reviewed.

Listed below is a summary of the salient points relating to the history of the site from 1879. It is not the intention of this report to describe in detail all the changes that have occurred on or adjacent to the site, but only those pertinent to the proposed development.

Date/Scale	Site	Surrounding Area
1879 1:2500	▪ Site area accommodates two circular and one rectangular unnamed buildings to southern side of site. ▪ Remaining site area undeveloped with trees shown.	▪ Railway line noted in current day location. Remaining surrounding area is undeveloped.
1898 1:2500	▪ Further building constructed to north of site adjacent railway at top of steep slope referenced Sanatorium (Infectious Diseases) ▪ Site now described as "Gas Works". ▪ River Wye now referenced.	▪ Bakewell Road now called off passing to south and west of site with road intersecting from the west at current day roundabout location. ▪ Quarry noted to south east of site. ▪ Railway line introduced to south west running in a north west to south east direction. ▪ Some development added to north west.
1922 1:2500	▪ Further unnamed building added to north west. ▪ A third circular building added to site.	▪ Further development noted to south west and immediate east of site. ▪ Quarry now referenced "Old Quarry".
1967 1:2500	▪ Circular buildings each now referenced "Gas Holder" ▪ Building to north west now referenced "Power Station". ▪ Sanatorium now referenced "Laboratories" ▪ No other significant changes/features noted.	▪ Roundabout added at site entrance principally as current day layout. ▪ Further development shown to north west including secondary school added. ▪ Large residential development added to north east and to south west beyond railway line. ▪ Quarry no longer referenced.
1989 1:2500	▪ Smallest gas holder now removed. ▪ Power station now referenced "Electric Substation"	▪ No significant changes/features noted.
1993 1:1250	▪ Gas works and electric substation now replaced with Supermarket layout as current day. ▪ Laboratories building now removed.	▪ Quarry now referenced as "disused". ▪ Road layout nominally amended at site entrance. ▪ No significant changes/features added.

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4.0 GEOLOGY & MINING/QUARRYING

The site lies central to but actually on the outskirts of the Peak District boundary where geology is formed almost exclusively of sedimentary rocks from the Carboniferous Period. The carboniferous limestone which is found at or near the surface in this area is known as the White Peak. Due to the naturally occurring fissures within limestone and that it is soluble in water, natural ground dissolution stability hazards may require consideration and investigation within any future site investigation scheme.

BSCP have made initial enquiries to High Peak Building Control regarding prevailing ground conditions in the area of the site. Building Control have advised that the existing building is founded on a combination of shallow traditional mass concrete foundations onto bedrock and reinforced concrete piled foundations. It is considered that this localised variance in geology is due to glacial deposits in the vicinity of the River Wye.

With regard to coal mining in the immediate vicinity of the site, information contained within the Envirocheck Report states that coal mining affected areas and mining instability are not applicable, hence no separate coal mining report has been sourced as part of this investigation.

The Environcheck Report records one mine within 250m of the site which is considered to be the disused quarry as described in Section 3.0 above.

The site is recorded as having low to very low potential for landslide ground stability hazards, low to no hazard potential for running sand ground stability hazards and very low to no hazard potential for shrinking or swelling clay ground stability hazards.

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5.0 HYDROLOGY

5.1 Surface Water

The nearest surface water feature noted in the Envirocheck Report is recorded as being 48m from the centre of site which is the River Wye.

The EA Flood Map sourced via the Environcheck Report indicates part of the site to be vulnerable to "Extreme Flooding from Rivers or Sea without Defences (Zone 2). Site flooding potential is discussed further within the separate BSCP Flood Risk Assessment Document.

The Environcheck Report indicates that there are 27 discharge consents within 250m of the site. Based upon details in the report it is unclear how many (if any) are still current with the majority of discharge consents now noted to be beyond their revocation date.

The report lists six pollution incidents to controlled waters within 250m of the site and two within 250 to 500m of the site. All of these are categorised as Category 3 "Minor Incidents" with the exception of one event which occurred in 1998. This was a Category 2 "Significant Incident" where crude sewage entered the River Wye due to flooded sewage works and was recorded 273m from site.

5.2 Groundwater

The site is recorded as being underlain by a major aquifer (highly permeable). A major aquifer is defined as "highly permeable formations usually with a known or probable presence of significant fracturing. They may be highly productive and able to support large abstractions for public supply and other purposes". The report also notes that with regard to Groundwater Vulnerability that the soil classification for the site is "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.

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According to the Envirocheck report, there are no water abstractions within 500m of the site.

The site lies within a Source Protection Zone 1 (Inner protection zone), which is defined in the report as "travel time of 50 days or less to the groundwater source".

6.0 LANDFILL SEARCH

Information on landfill sites in the vicinity of the site has been sought as part of the Envirocheck.

According to the data, there are no recorded landfill sites within 500m of the site.

7.0 RADON

According to the Envirocheck report, "the property is in a radon affected area, as over 30% of homes are above the action level". The report advises that "full radon protective measures are necessary in the construction of new dwellings or extensions".

8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 Proposed Development

It is understood that Wm Morrisons plc are proposing an extension to the existing supermarket as shown on Smith Design Associates drawing no. G2286/AL(0)07, in Appendix A.

8.2 Summary of Land Use

The site area under review accommodates an existing supermarket and associated carpark area, with an area of undeveloped steep sloping land adjacent the building to the north.

8.3 Mining and Quarrying

Based on the information contained within the Environcheck Report there is no data available to suggest that mining or quarrying hazards are prevalent at or in the immediate vicinity of the site.

8.4 Hydrology/Flooding

According to the flood map contained within the Envirocheck Report, the site is at risk of both extreme flooding and flooding from Rivers or Sea without defences.

Based upon this guidance, a separate BSCP Flood Risk Assessment has been prepared independent of this Report.

The Envirocheck Report advises that the site is underlain by a major aquifer and consideration must be given to this when determining any underground exploring work and ultimately any foundation solution.

8.5 Ground Contamination and Foundations

It is considered that the historical and current use of the site could have given rise to some ground contamination.

The presence of made ground, associated with the historical and current uses of the site including former substructures, particularly under the proposed deck carpark area, should be anticipated.

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It is not possible to make accurate recommendations with respect to foundations for the proposed scheme until a suitable ground investigation is undertaken, although based on a knowledge of Peak District geology, it is considered that a limestone formation is likely to be encountered at shallow depth. BSCP have also received initial advice from High Peak Building Control who advise that the existing building is founded on a combination of traditional shallow and piled foundations. The piled footings are considered to be local to the River Wye on the opposite side of the building to the proposed extension. Based upon this information, it is likely that the proposed developments could be founded on shallow traditional pad and strip foundations, though this should be confirmed by a suitable ground investigation.

Based upon the desk study information, it is considered possible that the site may have some ground contamination associated with former and current usage. However, the necessity for remediation is clearly subject to the extent and nature of any contamination, which cannot be determined without an appropriate intrusive investigation.

8.6 Hazardous Gas

According to the Envirocheck report there are no recorded landfill sites within 500m of the site.

The Envirocheck Report notes that full radon protection measures are necessary in the construction of new dwellings for extensions. Whilst there are no recorded landfill sites within 500m of the site, due to the geological nature of the anticipated limestone formation, there could be a potential for ground gases to be encountered and therefore some general gas monitoring is recommended.

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APPENDIX A

PROPOSED SITE PLAN

SMITH DESIGN ASSOCIATES

DRAWING G2286/AL(0)07

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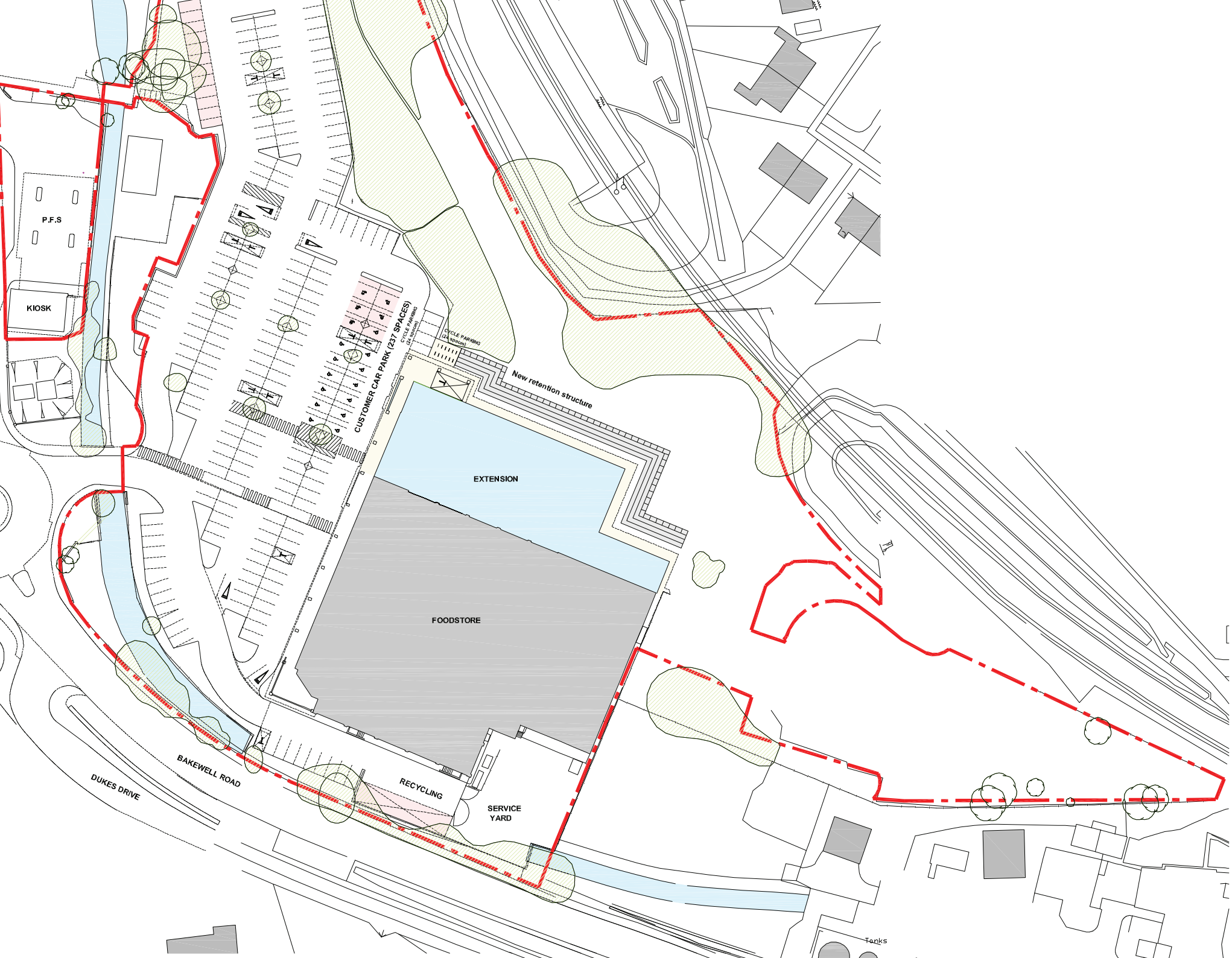
P.F.S
KIOSK
CUSTOMER CAR PARK (237 SPACES)
CYCLE PARKING (24 SPACES)
CYCLE PARKING (24 SPACES)
New retention structure
EXTENSION
FOODSTORE
RECYCLING
SERVICE YARD
BAKEWELL ROAD
DUKES DRIVE
Tanks

APPENDIX B

ENVIROCHECK

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
32317180_1_1

Customer Reference:
QL1098

National Grid Reference:
406580, 372960

Slice:
A

Site Area (Ha):
0.01

Search Buffer (m):
1000

Site Details:

65, Pictor Road
Buxton
SK17 7TB

Client Details:

J Deighton
BSCP
Smeaton House
Holt Park Centre
Leeds
LS16 7SR

Envirocheck®

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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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Report Version v47.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		27		2
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 8		1		7
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 9		Yes		
Pollution Incidents to Controlled Waters	pg 9		6	2	15
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 13		1		
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points	pg 13				1
Substantiated Pollution Incident Register	pg 14			1	
Water Abstractions	pg 14				11 (*18)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 21	Yes	n/a	n/a	n/a
Source Protection Zones	pg 21	1			
Extreme Flooding from Rivers or Sea without Defences	pg 21		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 21		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites	pg 22				1
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS Recorded Mineral Sites	pg 23		1	2	2
BGS 1:625,000 Solid Geology			n/a	n/a	n/a
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Natural and Mining Cavities	pg 23			1	
Potential for Collapsible Ground Stability Hazards				n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 24		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 24	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 24		Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 25		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 25		Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 25	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 25	Yes	n/a	n/a	n/a
Shallow Mining Hazards				n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 26		2	7	95
Fuel Station Entries	pg 34		1		2

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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 36	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: Severn Trent Water Limited Property Type: Sewerage Network - Sewers - Water Company Location: Gas Board Gas Board Depot, Bakewell Road, Buxton, Derbyshire Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45199/O Permit Version: 1 Effective Date: 22nd January 1998 Issued Date: 22nd January 1998 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13SE (S)	48	1	406590 372910
2	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 6 Effective Date: 1st January 2010 Issued Date: 14th October 2008 Revocation Date: 30th March 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	127	1	406690 372900
2	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 7 Effective Date: 31st March 2010 Issued Date: 29th August 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	127	1	406690 372900
2	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 5 Effective Date: 31st December 2008 Issued Date: 28th August 2008 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	127	1	406690 372900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 4 Effective Date: 27th August 2008 Issued Date: 27th August 2008 Revocation Date: 30th December 2008 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	127	1	406690 372900
2	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 3 Effective Date: 31st March 2008 Issued Date: 31st March 2008 Revocation Date: 26th August 2008 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	127	1	406690 372900
2	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 2 Effective Date: 31st December 2004 Issued Date: 22nd November 2004 Revocation Date: 30th March 2008 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	127	1	406690 372900
2	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 1 Effective Date: 22nd November 2004 Issued Date: 31st December 2002 Revocation Date: 30th December 2004 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **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	A13SE (SE)	127	1	406690 372900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 6 Effective Date: 1st January 2010 Issued Date: 14th October 2008 Revocation Date: 30th March 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	172	1	406730 372880
3	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 7 Effective Date: 31st March 2010 Issued Date: 29th August 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	172	1	406730 372880
3	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 5 Effective Date: 31st December 2008 Issued Date: 28th August 2008 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	172	1	406730 372880
3	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 4 Effective Date: 27th August 2008 Issued Date: 27th August 2008 Revocation Date: 30th December 2008 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	172	1	406730 372880

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 3 Effective Date: 31st March 2008 Issued Date: 31st March 2008 Revocation Date: 26th August 2008 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	172	1	406730 372880
3	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 2 Effective Date: 31st December 2004 Issued Date: 22nd November 2004 Revocation Date: 30th March 2008 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	172	1	406730 372880
3	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 1 Effective Date: 22nd November 2004 Issued Date: 31st December 2002 Revocation Date: 30th December 2004 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **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	A13SE (SE)	172	1	406730 372880
3	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/22373/R Permit Version: 1 Effective Date: 30th June 1993 Issued Date: 30th June 1993 Revocation Date: 30th December 2000 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	173	1	406720 372860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/22373/R Permit Version: 2 Effective Date: 31st December 2000 Issued Date: 30th June 1993 Revocation Date: 21st November 2004 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	173	1	406720 372860
3	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 6 Effective Date: 1st January 2010 Issued Date: 14th October 2008 Revocation Date: 30th March 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	199	1	406760 372880
3	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 7 Effective Date: 31st March 2010 Issued Date: 29th August 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	199	1	406760 372880
3	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Buxton Sewage Treatment Works Buxton Stw, Ashwood Dale, Bakewell Road, Buxton, Derbyshire, Sk17 9ta Authority: Environment Agency, Midlands Region Catchment Area: River Wye Reference: T/39/45680/R Permit Version: 5 Effective Date: 31st December 2008 Issued Date: 28th August 2008 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Wye **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	199	1	406760 372880